Boehringer Ingelheim

March 25, 2021

Boehringer Ingelheim
Animal Health USA Inc.

www.boehringer-ingelheim.us

Leann McAlister
3239 Satellite Blvd.
Duluth, GA 30096

Attn: Robert Miller
VIA CDX PORTAL
Document Processing Desk – 6(a)(2)
Office of Pesticide Programs
US Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-3553

SUBJECT: Resubmission of all 2018 and 2019 FIFRA Section 6(a)(2) Aggregate Incident Reports for Frontline Spot-On Products

Per your request during our meeting on March 24, 2021, we are resubmitting all of the EPA Quarterly Aggregate Reports for 2018 and 2019 in support of EPA's preparation for a congressional inquiry into all spot-on pet products resulting from the recent Seresto collar articles.

Please note that all of these reports have been previously submitted via hard copy to include both Merial, Inc. and Boehringer Ingelheim Animal Health USA Inc.

If you have any questions regarding this report, please contact me at 678-638-3701 or via email at leann.mcalister@boehringer-ingelheim.com.

Sincerely,

Leann McAlister

Leann McAlister
Regulatory Affairs

Enclosure

Boehringer Ingelheim

August 29, 2019

Boehringer Ingelheim
Animal Health USA Inc.

www.boehringer-ingelheim.us

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Leann McAlister
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Duluth, GA 30096

SUBJECT: FIFRA Section 6(a)(2) Aggregate Incident Reports for 2Q19 (01Apr19 through 30Jun19)
Human and Domestic Animals in the US and Extraterritorial Associated with the Following Boehringer Ingelheim Registrations:

- FRONTLINE® Spray Treatment, EPA Reg. No. 65331-1
- FIPAIRA® for Cats (formerly FRONTLINE® Top Spot for Cats), EPA Reg. No. 65331-2
- FIPAIRA® for Dogs (formerly FRONTLINE® Top Spot for Dogs), EPA Reg. No. 65331-3
- FRONTLINE® Plus for Cats, EPA Reg. No. 65331-4
- FRONTLINE® Plus for Dogs, EPA Reg. No. 65331-5
- CERTIFECT® for Dogs, EPA Reg. No. 65331-7

Please find enclosed the FIFRA 6(a)(2) Aggregate Incident Report for 2Q19, submitted in duplicate per the EPA's request on 30Nov12. Aggregate reports for humans (HD/HE: Minor/Unknown) and domestic animals are submitted quarterly. This report is also being provided as a .pdf file on CD-ROM per EPA's communication on 03Sept14. Since these products are produced and sold worldwide, Boehringer Ingelheim is providing worldwide reporting of adverse events for the aforementioned products.

If you have any questions regarding this report, please contact me at 678-638-3701 or via email at leann.mcalister@boehringer-ingelheim.com.

Sincerely,

Leann McAlister

Leann McAlister
Regulatory Affairs

Enclosures

FRONTLINE BRAND PRODUCTS

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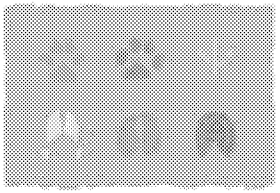
EPA Quarterly Aggregate Report



Number of Incidents and Adverse Effects Reported by Exposure Type and Severity Category (USA)
Reporting Period: 01-Apr-2019 to 01-Jul-2019 [1]
Product Family: Frontline (Spot-on products only)

Generic Name / USA Registration Number	Total Incidents	H-D Human - Minor Effects	H-E Human - Unknown, Unspecified or Delayed Effects	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 10%/S METHOPRENE 12% SPOT ON / 65331-4	364	3	13	11	4	333
FIPRONIL 10%/S METHOPRENE 9% SPOT ON / 65331-5	892	12	33	14	15	818
FIPRONIL SPOT ON CAT / 65331-2	1	0	0	0	0	1
FIPRONIL SPOT ON DOG / 65331-3	1	0	0	1	0	0
Totals	**1,258**	**15**	**46**	**26**	**19**	**1,152**

Report printed on 23-Jul-2019 at 9:24:52PM
Report : D:\Assured\crystal_reports\EPAreport.p1.4.rpt

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

In accordance with global BI policy, legal requirements, and regulations, BI records all adverse events (AE). Collection of an AE report does not constitute an admission by BI that our product caused or contributed to the AE. Confounding factors such as concurrently administered drugs, environmental factors, and medical history of the animal must be considered when evaluating AE reports.

Use in Off-Label Species (USA)
Reporting Period: 01-Apr-2019 to 01-Jul-2019 [1]
Product Family: Frontline (Spot-on products only)

Generic Name / Registration Number Species	Total Incidents	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 10%/S METHOPRENE 12% SPOT ON / 65331-4	2	0	0	2
Canine	2	0	0	2
FIPRONIL 10%/S METHOPRENE 9% SPOT ON / 65331-5	2	0	0	2
Feline	2	0	0	2
Totals	**4**	**0**	**0**	**4**

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USA off-Label species totals are included

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Number of Incidents and Adverse Effects Reported by Exposure Type and Severity Category (Extraterritorial)
Reporting Period: 01-Apr-2019 to 01-Jul-2019 [1]
Product Family: Frontline (Spot-on products only)

Generic Name / USA Registration Number	Total Incidents	H-D Human - Minor Effects	H-E Human - Unknown, Unspecified or Delayed Effects	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 10%/S METHOPRENE 12% SPOT ON / 65331-4	148	0	0	7	3	138
FIPRONIL 10%/S METHOPRENE 9% SPOT ON / 65331-5	231	0	2	3	8	218
FIPRONIL SPOT ON CAT / 65331-2	139	2	0	5	1	131
FIPRONIL SPOT ON DOG / 65331-3	164	0	0	2	7	155
Totals	**682**	**2**	**2**	**17**	**19**	**642**

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Use in Off-Label Species (Extraterritorial)
Reporting Period: 01-Apr-2019 to 01-Jul-2019 [1]
Product Family: Frontline (Spot-on products only)

Country Generic Name / USA Registration Number Species	Total Incidents	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 10%/S METHOPRENE 12% SPOT ON / 65331-4	2	1	0	1
Rabbit	2	1	0	1
FIPRONIL 10%/S METHOPRENE 9% SPOT ON / 65331-5	3	0	2	1
Equine	1	0	0	1
Feline	2	0	2	0
FIPRONIL SPOT ON CAT / 65331-2	1	0	0	1
Rabbit	1	0	0	1
FIPRONIL SPOT ON DOG / 65331-3	2	0	1	1
Feline	1	0	0	1
Rabbit	1	0	1	0
Totals	**8**	**1**	**3**	**4**

Report printed on 23-Jul-2019 at 9:25:00PM
Report : D:\Assured\crystal_reports\EPAreport.p1.4.rpt

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

Extraterritorial off-label species totals are incldued

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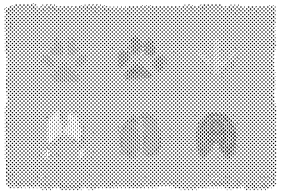
EPA Report



Worldwide Adverse Event Reports Involving - Animal Cases
Reporting Period: 01-Apr-2019 to 01-Jul-2019 [1]

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
28-May-2019	UAE; 18US059584; CA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 16 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Aug-2018	26-May-2019	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the pet owner reported the following event for Zoey, a 16 pound, female, canine of further unknown signalment. 17 Aug 2018: The canine began receiving one vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) applied topically onto the skin, between the shoulder blades. A vial has since been applied in like fashion monthly on the eighteenth. 18 Apr 2019: A new box (8 pack) of FRONTLINE PLUS DOG 5-22 LBS was started. The lot number is S60810AX. On the same date, one vial was applied as previously described. 18 May 2019: Another vial of FRONTLINE PLUS DOG 5-22 LBS was applied in the same fashion. 26 May 2019: The reporter found a flea on herself while sitting in a chair inside the home, and also found a single flea on Zoey's paw. 27 May 2019: She found several fleas on the canine. Presently, it's unknown if Zoey has received any sort of treatment or if the issue is ongoing. There is a second dog in the home named Bailey who does not have any fleas. Bailey is a 15.5 year old American Eskimo and weighs 26 pounds; although she was receiving FRONTLINE PLUS DOG 23-44 LBS monthly on the eighteenth since 17 Aug 2018, for the last two months on 18 Apr 2019 and 18 May 2019, she's received one vial of FRONTLINE PLUS DOG 5-22 LBS (S60810AX) as described above. There are no other pets in the home. The pet owner is not currently finding any fleas in the home and on further information could be confirmed as to why the pet owner began using FRONTLINE PLUS is Aug 2018. No information regarding the outdoor environment could be confirmed. No further medical information expected.
17-Apr-2019	UAE; 19AT000026; -; Austria	**Species:** Feline **Breed:** - **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 10 kg	9	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	Mar-2019*	15-Apr-2019*	N/A	D-D	VET reported to NCA: Cat Maximilian, EKH, male, castrated, 11 years old; own cat from VET. Treated for several years with Frontline Combo or other flea agents alternately.2 hours after application, the cat developed a green hairchange/coloration. Washing-off without success. Same batch was used in several cats - including white cats - without green coloration. Last treatment of the cat took place in March 2019 with the same batch Frontline Combo - also here without green coloration. Immediately after application, the cat was lying in the sun? No comedication. General behaviour unchanged. Update 16.04.2019: the color is already getting lighter. Update MAH 06 MAY 2019: The number of treated patients are approximate according to the report, updated

N/A signifies the information for this field is either not available or not applicable

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Sex Codes: M = Male, U = Unknown, Mixed = Mixed population - male(s) and female(s)
* indicates Approximate date or weight

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					on the patient screen. Also exact treatment date is unknown, 15 APR 2019 entered by default. The reaction was observed less than 6 hours after product application. Product details: Batch no P41408AL and exp P41408AL.
17-Apr-2019	UAE; 19AT000027; Hausmannstaetten ; Austria	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	16-Mar-2019*	N/A	D-C	Suspected adverse event: as reported by the pharmacist, a cat (other signalments unknown) received FRONTLINE SPOT ON cat (batch S20808AW3700, exp 31 MAY 2021, spot on, neck, 1 pipette, according to the label use reported) administered by the owner on an unknown date (16 MAR 2019 entered by default). At an unknown time after product administration the animal experienced ataxia (felt bad reported originally, ataxia suspected after the call with pharmacist). The attending veterinarian level of suspicion is unknown (no attending vet).
25-Apr-2019	UAE; 19AT000028; -; Austria	**Species:** Feline **Breed:** - **Sex:** F **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Apr-2019	22-Apr-2019	4 Day(s)	D-D	Suspected adverse event: as reported by pharmacist who was also the cat owner, a female cat (1,5 years old, neutered, healthy prior to treatment, uther signalments unknown) received Frontline Spot on Katze (spot on, neck, 1 pipette, according to the label use reported) administered by the owner on 18 APR 2019. 4 days after product administration the animal experienced loss of hair in the area (first size of thumbnail) and severe itching. The spot grew to thumb size within 2 days, the cat also showed open skin areas. The animal was brought to the vet, treatment is not known. On 25 APR 2019 the itching has subsided, the wound has become smaller. Hairless spot persists. The attending veterinarian's level of suspicion is high.
02-May-2019	UAE; 19AT000029; -; Austria	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	02-May-2019	1 Day(s)	D-D	Suspected lack of expected efficacy: as reported by the owner, 4 years old, 5 kilograms weight, two felines, unknown breed, intact females with good condition prior to treatment received FRONTLINE SPOT ON CATS (unknown batch, topical application on the neck, 1 dose for each cat) administered by the owner on 01 MAY 2019 for prevention and treatment of ticks (both cats were treated with Frontline Spot On Cats for long time with 1 pip each month). 1 day after product administration the animals still had ticks (alive and big). 1 pipet and its entire content was used for each application. The product was applied directly to the skin. The cats had no water contact within 2 days following application. The cats were checked each day for ticks. The animals were treated with other unknown product recommended by DVM and receovered. The attending veterinarian's level of suspicion is: unknown
21-May-2019	UAE; 19AT000033; -; Austria	**Species:** Feline **Breed:** - **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4 - 5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Others)	28-Mar-2019	18-May-2019	1 Day(s)	D-D	Suspected lack of expected efficacy: as reported by the pet owner, a cat (7 years old, 4.5 kg, female intact, good state of health) received FRONTLINE COMBO SPOT ON KATZE (batch: S40910AW, expiry date: JUNE 2021, applied directly in the skin in the neck area, 1 pipette) administered by the owner on 17 MAY 2019 (previous application on 28 MARCH 2019) to treat tick infection. One day after the second product administration the animal hat a big alive tick full with blood attached to the body. There was no vet involved.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
11-Jun-2019	UAE; 19AT000043; -; Austria	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jun-2019*	10-Jun-2019*	N/A	D-C	Suspected adverse event: as reported by the pharmacist, a canine, chihuaha (4 years old, good condition prior to treatment, all other signalments unknown) received FRONTLINE SPOT ON HUND S, 0.5 apoull (other signalments unknow) administered by the owner on an unknown date (10 JUN 2019 entered by default) for an unknown reason, product first time given. According to the owner product was applied according to the label, put on the skin of the neck area, licking might be excluded. 15-30 minutes after product administration the animal experienced foaming (coded as hypersalivation), apathy and lethargy, laying on the side but still concious (coded as lying down), weakness. The dog did not recieve any treatment, the symptomes resolved after 4-5 hours. The attending veterinarian's level of suspicion is: unknown - no attending vet.
11-Jun-2019	UAE; 19AT000044; -; Austria	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jun-2019*	11-Jun-2019*	N/A	D-C	Suspected adverse event: as reported by the pharmacist, a feline (all other signalments unknown) received FRONTLINE SPOT ON KATZE (other signalments unknown) administered by the animal owner on an unknown date (10 JUN 2019 entered by default) for an unknown reason (cutaneous use, site of administration: neck), product first time given. According to the owner product was applied according to the label, put on the skin of the neck area, licking might be excluded. At an unknown time after product administration (11 JUN 2019 entered by default) the animal experienced lethargy and dizzyness (coded as neuroligical signs NOS), laying down but still contious . No treatment was applied, the symptoms resolved within a few hours. The attending veterinarian's level of suspicion is: unknown - no attending vet.
24-Jun-2019	UAE; 19AT000047; -; Austria	**Species:** Feline **Breed:** - **Sex:** M **Sex qualifier:** Neutered **Age:** 24.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	10-Jun-2019*	24-Jun-2019*	0 Day(s)	D-D	Suspected lack of expected efficacy: as reported by the animal owner, a feline (2 years old, neutered male) with a prior condition of epilepsy (treated with Phenobarbital every 2nd day) received FRONTLINE SPOT ON KATZE (batch: S20808BW, exp.: 05.2021) administered by the animal owner on an unknown date (10 JUN 2019 entered by default) to treat flea infection. Further details regarding product application and environmental circumstances are unknown. 2 weeks after product administration the animal owner observed fleas and flea feaces on the cat. The animal owner administered a second pipette of FRONTLINE SPOT ON KATZE (24 JUN 2019 entered by default as second application) and since then, no more fleas were observed. The cat received the past years the product on spring and summer. The attending veterinarian's level of suspicion is: unknown - no attending vet.
29-Apr-2019	UAE; 19AU000485; VIC; Australia	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	19-Apr-2011*	29-Apr-2019	10 Day(s)	D-D	As reported by the veterinary nurse, Lucy, 8 years old, 8kg, female intact, Maltese X was administered FRONTLINE PLUS DOGS S (0.67ml, fipronil 100g/L (S)-methoprene 90g/L, batch and expiry unknown) for flea and tick control on approx. 19 APR 2019. On the 29 APR the veterinary nurse reported that the product wasn't working after grooming the dogs and finding multiple fleas. The owner noted that the dog was knawing at her back end. It should be noted that the dog has received FRONTLINE PLUS for approx. 8 years. No vet attention was sought and the condition is ongoing. This is the extent of the information available.

N/A signifies the information for this field is either not available or not applicable

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
29-Apr-2019	UAE; 19AU000487; VIC; Australia	**Species:** Canine **Breed:** Retriever (Curly-Coat) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2009*	29-Apr-2019	10 Day(s)	D-D	As reported by the veterinary nurse, Sapphire, 12 years old, 15kg, female neutered, Curly Retriever was administered FRONTLINE PLUS FOR DOGS M (1.34ml, fipronil 100g/L (S)-methoprene 90g/L, BA: R61919AL & EX: 08/2020) for flea and tick control on approx. 19 APR 2019. On the 29 APR the veterinary nurse reported that the product wasn't working after grooming the dogs and finding a lot of fleas. It should be noted that the dog has received FRONTLINE PLUS for approx. 10 years. No vet attention was sought and the condition is ongoing. This is the extent of the information available.
29-Apr-2019	UAE; 19AU000489; -; Australia	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 6.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Apr-2019	26-Apr-2019	1 Day(s)	D-D	As reported by the owner, Roxy, 3 years 6 months old, 6.9kg, Female Neutered, Miniature Schnauzer was applied one dosage form topically of FRONTLINE PLUS FOR SMALL DOGS Up To 10kg (0.67ml, fipronil 100g/L, (S)-methoprene 90g/L, batch and expiry unknown) by the owner for flea and tick control on the 25 APR 2019. Approximately 24 hours after product application, the dog experienced vomiting for 24 hours and started gnawing and licking her paws and legs. The dog has received FRONTLINE ORIGINAL for approx. one year without incident. The dog has received veterinary treatment (steroids) and the condition is ongoing at the time of reporting. This is the extent of the information available.
10-May-2019	UAE; 19AU000524; TAS; Australia	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 38 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 150 MG / MILBEMYCIN OXIME 30 MG CHEWABLE TABLETS; Advocate 25-40 kg (moxidectin and imidacloprid); **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-May-2019	10-May-2019	1 Day(s)	D-C	As reported by the attending vet, an adult dog weighing 38 kg (signalment otherwise unknown) was given one dose topically on the back of the neck of FRONTLINE PLUS LARGE DOGS 20-40 kg (fipronil 100 g/L and S-methoprene 90 g/L, batch and expiry unknown), one dose PO of NEXGARD SPECTRA CHEWABLES FOR DOGS 30.1-60 kg (150 mg Afoxolaner 30 mg Milbemycin, batch and expiry unknown), and one dose PO of Advocate 25-40 kg (moxidectin and imadocloprid) for parasite control on 9 MAY 2019 by the pet owner. Note that Advocate was given by the incorrect route (orally rather than topically). On 10 MAY 2019 the dog developed the signs of shaking, panting and decreased mentation. At the time of reporting it remained under treatment with iv fluids. This is the extent of the information available.
13-Jun-2019	UAE; 19AU000651; -; Australia	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	N/A	01-Aug-2018*	0 Day(s)	D-B	As reported by the owner, a male French Bulldog (signalment otherwise unknown) was administered FRONTLINE (product unsubstantiated, batch and expiry unknown) on unknown dates at intervals of 2 weeks for paralysis tick prevention. At an unknown time afterwards the dog experienced tick paralysis signs and was treated once more with the product (estimated as 1 AUG 2018 for reporting purposes). He was taken to an emergency centre and treated for10 days. During this time a tick was found on his jowl.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Route: Topical / Cutaneous **Was the product used ok?:** Unknown to Company					He was treated with tick anti-serum and recovered (estimated as 11 AUG 2018). This is the extent of the information available.
23-Apr-2019	UAE; 19BE000049; -; Belgium	**Species:** Canine **Breed:** Dachshund (Miniature) **Sex:** M **Sex qualifier:** - **Age:** 6 months **Weight:** 3 - 3 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Mar-2019	22-Apr-2019	0 Day(s)	D-D	As reported by the owner (a pharmacist), her dog (miniature Teckel, intact male, 6 months, about 3kg BW) received 1 pipet Frontline Spot On (lot and Exp not given, topical between the shoulders) administered by the owner on 22 MAR19 and 22 APR19. Two hours after the last product administration the animal was restless and had diarrhea. There were no signs after the previous administration. The animal did not receive any treatment and was recovered in the morning of 23 APR19.
08-May-2019	UAE; 19BE000054; -; Belgium	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 4 - 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	11-Apr-2019	02-May-2019	N/A	D-D	As reported by the cat owner, around 4 APR19 fleas were observed. On 11 APR19 her cat (approximately 5 years, 4 kg BW, male neutered, felis vulgaris, in good health) received Frontline ComboLine Cat Spot-on (no correct lot number given – EXP 02/2021) topically administered by the owner. Cat is often outside. Approximately 21 days after product administration (02 MAY19) fleas were observed on the animal again. The cat was treated again with the same product on 9 MAY19. No other information could be obtained.
29-May-2019	UAE; 19BE000061; -; Belgium	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** - **Age:** 7 yeasr **Weight:** 9 - 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-May-2017*	30-May-2017	0 Day(s)	D-D	As verbally reported by the owner after the initial contact via Facebook: his dog (7 years, male, Shih Tsu, intact, name: Yoko, 9kg500) received 2 years ago a FRONTLINE product (unsubstantiated), administered by the owner. No lot nor expiry date known, topical, dose unknown. After product administration the animal experienced an application site reaction of about 5 cm. The animal recovered meanwhile. No other relevant information could be retrieved.
06-Jun-2019	UAE; 19BE000062; -; Belgium	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	11-Mar-2019	11-Mar-2019	N/A	D-D	Poison Centre: call from an animal owner on a cat showing hypersalivation after oral contact with frontline spot-on katten. There was no delay between the phone call and the incident. The owner administered the product on the skin of the animal, however the cat was able to ingest some of the product that leaked from the adminstration site. No further information expected. Case closed.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: No (Route not indicated / recommended)					
06-Jun-2019	UAE; 19BE000063; -; Belgium	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Route not indicated / recommended)	11-Mar-2019	11-Mar-2019	N/A	D-D	Poison Centre: call from a vet on a cat showing hypersalivation after ingestion of FRONTLINE spot-on katten. The delay between the phone call and the incident was 1 h. The product was administered orally by mistake. No further information expected. Case closed.
04-Jun-2019	UAE; 19BE000075; -; Belgium	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	15-May-2019	04-Jun-2019	20 Day(s)	D-D	As reported by the animal owner via a British consumer line, her dog (age, weight and breed unknown) received FRONTLINE SPOT ON (batch, Expiry date, location of administration, dose unknown) administered by herself on 15MAY19 for the second time (timing of the latter is unknown). 20 days (4 JUN19) after product administration the animal had 2 ticks. MAH note: no other information could be obtained, despite several attempts.
20-Jun-2019	UAE; 19BE000078; -; Belgium	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	29-Apr-2019	29-Apr-2019	N/A	D-D	Poison Centre: call from an animal owner on a dog (4 kg) showing agitation after cutaneous contact with FRONTLINE COMBO LINE honden XL. The wrong product was administered (therapeutic mistake). The delay between the phone call and the incident was 4 h. Local decontamination was advised. No further information expected. Case closed.
17-Jun-2019	UAE; 19BE000081; -; Belgium	**Species:** Feline **Breed:** Birman **Sex:** U **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Jun-2019	17-Jun-2019	4 Day(s)	D-D	As reported by the animal owner, 2 cats (age 8 years, weight not given, Birman breed) received FRONTLINE Spot On (batch S20807AW, expiry date not given , topical in the neck …, dose 1 pipet) administered by the animal owner on 13JUN19. 4 days after product administration fleas were still present on both cats. On recommendation of a vet she administered Effipro in the morning and in the evening fleas were no longer present. No other useful information could be obtained in a follow up with the owner.
17-Jun-2019	UAE; 19BE000082; -; Belgium	**Species:** Canine **Breed:** Eskimo (Spitz)	1	1	0	**Product used:** FIPRONIL SPOT ON DOG	13-Jun-2019	17-Jun-2019*	4 Day(s)	D-D	As reported by the animal owner, 1 Dog (male, age 8 months, weight 5-6 kg, Spitz breed) received FRONTLINE Spot On (batch S20723AX, expiry date not given , topical in the neck …, dose 1

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		Sex: M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 5 - 6 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					pipet) administered by the animal owner on 13JUN19. 4 days after product administration fleas were still present. On recommendation of a vet she administered Credelio in the morning and in the evening fleas were no longer present. No other useful information could be obtained in a follow up with the owner.
25-Jun-2019	UAE; 19BE000083; -; Belgium	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 4 - 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	19-Apr-2019	21-Apr-2019	<=7 days	D-B	Poison Centre: call from a vet on a dog showing blindness and vomiting after cutaneous contact with Frontline. The delay between the incident and the phone call (21/04/2019) was 5 days. Afterwards the dog was diagnosed having a portosystemic shunt which could be responsible for the blindness. Follow-up (21/06/2019): the dog (dachshund- female -3-4 months- +- 4 kg) showed blindness after cutaneous contact with Frontline spot on dog . The Poison Centre advised the veterinarian to wash the animal and to keep him under surveillance. Two weeks later, as the dog fell, the owner saw another Veterinarian Centre and a shunt portosystemic had been diagnosed.
01-Apr-2019	UAE; 19BR001882; MG; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.50 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	18-Mar-2019*	9 Week(s) 4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cauê, a male Poodle of 9.5 years old and 8 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (10 Jan 2019 – estimated date) for flea treatment. Lack of efficacy is suspected because the pet continued to have fleas. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2018 chosen at random). Cauê received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) for the first time on 18 Mar 2019 and remains with fleas. The environment has not been treated. No further information is available.
01-Apr-2019	UAE; 19BR001884; SP; Brazil	**Species:** Canine **Breed:** Chowchow **Sex:** F **Sex qualifier:** Unknown **Age:** 2.60 Year(s) **Weight:** 17.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Apr-2019*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leona, a female Chow Chow of 2.6 years old and 17.8 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Mar 2019, for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites . Environment treated with an unknown product. FL has been applied every 3 months since date not specified (1 Jan 2018 - chosen at random). No further information is expected.
01-Apr-2019	UAE; 19BR001898; MG; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the**	N/A	01-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female dog of unknown signalment was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter around 15 days ago (17 Mar 2019 - estimated date), for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. In addition, the pet is scratching itself due to ticks. This is the extent of the information available.

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						product used ok?: Unknown to Company					
02-Apr-2019	UAE; 19BR001911; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2017*	02-Apr-2019*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pluminha, a female mixed breed cat of 14 years old and 4 kg, was treated with one vial of FRONTLINE SPOT-ON CAT (FL) (007/18, Feb 2020, topical, btw the shoulder blades), applied by the reporter on 16 Mar 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL was applied 3 years ago (1 Mar 2017 - chosen at random). No further information is expected.
02-Apr-2019	UAE; 19BR001914; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Feb-2019	02-Apr-2019*	5 Week(s) 3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branca, a female mixed breed cat of 3 years old and 3.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 23 Feb 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . In addition, the pet is scratching herself due to fleas. Environment not treated. Similar case reported on 19BR001915. There is another cat in this household that was treated with a tablet against fleas. No further information is expected.
02-Apr-2019	UAE; 19BR001915; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Feb-2019	02-Apr-2019*	5 Week(s) 3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fredy, a male mixed breed cat of 18 months old and 2.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 23 Feb 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. In addition, the pet is scratching himself due to fleas. Similar case reported on 19BR001914. There is another cat in this household that was treated with a tablet against fleas. No further information is expected.
02-Apr-2019	UAE; 19BR001922; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 19 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	02-Apr-2019*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kit, a female medium crossbred dog of 8 years old and 19 kg, received one vial of FRONTLINE PLUS DOG M (FL) (005/18A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 3 Mar 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL was applied around 6 months ago (1 Oct 2019 - chosen at random). No further information is expected.
01-Apr-2019	UAE;	**Species:** Canine	1	1	1	**Product used:**	01-Jan-2012*	10-Jan-2013*	9 Day(s)	D-A	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	19BR001923; SP; Brazil	**Breed:** Beagle **Sex:** F **Sex qualifier:** Unknown **Age:** 10.50 Year(s) **Weight:** 10 kg				FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Mile, a female Beagle of approximately 10.5 years old and 10 kg, received FRONTLINE PIPETTE (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), administered by the veterinarian on date not specified (1 Jan 2013 - chosen at random) for flea and tick prevention. Lack of efficacy is suspected because the pet got fleas and ticks after product administration. FL was used in the past with the same issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2012 chosen at random). The dog received FRONTLINE SPRAY on date not specified (1 Feb 2013 – chosen at random) and no more ectoparasites were reported. The environment was treated by a specialized company. This animal died on date not specified (unrelated death - 1 Jan 2014 – chosen at random). Similar case reported on 19BR001924. No further information is available.
01-Apr-2019	UAE; 19BR001924; SP; Brazil	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.50 Year(s) **Weight:** 10 kg	1	1	1	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2012*	10-Jan-2013*	9 Day(s)	D-A	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Brazilian Terrier of approximately 10.5 years old and 10 kg, received FRONTLINE PIPETTE (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), administered by the veterinarian on date not specified (1 Jan 2013 - chosen at random) for flea and tick prevention. Lack of efficacy is suspected because the pet got fleas and ticks after product administration. FL was used in the past with the same issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2012 chosen at random). The dog received FRONTLINE SPRAY on date not specified (1 Feb 2013 – chosen at random) and no more ectoparasites were reported. The environment was treated by a specialized company. This animal died on date not specified (unrelated death - 1 Jan 2014 – chosen at random). Similar case reported on 19BR001923. No further information is available.
02-Apr-2019	UAE; 19BR001925; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Mar-2019	02-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, Pocoyo, a male Yorkshire of 2 years old and 2 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Mar 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with deltamethrin. No further information is expected.
01-Apr-2019	UAE; 19BR001957; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2017*	01-Apr-2019	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female dog of unknown signalment received one pipette of FRONTLINE (FL) (unsubstantiated; lot, exp date, route and location are unknown), administered by the reporter on 17 Mar 2019 for flea treatment. Lack of efficacy is suspected because on 1 Apr 2019 the pet owner visualized live fleas on the pet. The product has been applied in the past with no issue (dose frequency is unknown) since 17 Mar 2017 (chosen at random). The environment has been treated with an unknown product. No further information is available. UPDATE 11 APR 2019 - Magrela, a female medium crossbred dog of 7 years old and around 11 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (topical, btw the shoulder blades), applied by the reporter on 17

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											Mar 2019, for flea/tick control. On 1 Apr 2019, the dog was infested by fleas. Environment treated with deltamethrin. Simparic® was given to Magrela on 10 Apr 2019 and she is currently free of fleas. FL had been applied monthly. No further information is expected.
04-Apr-2019	UAE; 19BR001966; PR; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	04-Apr-2019*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sindi, a female Pit Bull of 9 years old and 35 kg, received FRONTLINE PLUS DOG L (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. The environment has not been treated. Similar case reported on 19BR001967. No further information is available.
04-Apr-2019	UAE; 19BR001967; PR; Brazil	**Species:** Canine **Breed:** Belgian Sheep Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	04-Apr-2019*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lis, a female Belgian Sheep Dog of 3 years old and 30 kg, received FRONTLINE PLUS DOG L (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. The environment has not been treated. Similar case reported on 19BR001966. No further information is available.
03-Apr-2019	UAE; 19BR001968; RS; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 25.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Mar-2018*	03-Apr-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Estrela, a female Pit Bull of 3 years old and 25.6 kg, received one pipette of FRONTLINE PLUS DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 30 Mar 2019 for flea and tick treatment. Lack of efficacy is suspected because the pet remains with live ticks . FL has been administered in the past with no issue (dose frequency is unknown) since 30 Mar 2018 (chosen at random). The environment has not been treated. Similar case reported on 19BR001969. No further information is available.
03-Apr-2019	UAE; 19BR001969; RS; Brazil	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	30-Mar-2018*	03-Apr-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cusco, a male Boxer of 1.5 years old and 23 kg, received one pipette of FRONTLINE PLUS DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 30 Mar 2019 for flea and tick treatment. Lack of efficacy is suspected because the pet remains with live ticks . FL has been administered in the past with no issue (dose frequency is unknown) since 30 Mar 2018 (chosen at random). The environment has not been treated. Similar case reported on 19BR001968. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					
04-Apr-2019	UAE; 19BR001974; PR; Brazil	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	04-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hugo, a male Boxer of 3 years old and 25 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. FL was used once in the past with no issue (1 Jan 2018 chosen at random). The dog was bathed with Butox® one week prior to FL. The environment has been treated with Butox®. Similar case reported on 19BR001975. No further information is available.
04-Apr-2019	UAE; 19BR001975; PR; Brazil	**Species:** Canine **Breed:** Boxer **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 27 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	04-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cindy, a female Boxer of 2 years old and 27 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. FL was used once in the past with no issue (1 Jan 2018 chosen at random). The dog was bathed with Butox® one week prior to FL. The environment has been treated with Butox®. Similar case reported on 19BR001974. No further information is available.
04-Apr-2019	UAE; 19BR001979; MG; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	04-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dexter, a male Shih Tzu of 2 years old and 7 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 19 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. There is a dog treated with another brand's product living in this household. The environment has not been treated. No further information is available.
04-Apr-2019	UAE; 19BR001985; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 8.4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	03-Apr-2019*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toy, a male Shih Tzu of 5 years old and 8.4 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 5 Mar 2019 for flea and tick prevention. Lack of efficacy is suspected because the pet got 2 ticks after product administration. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2015 chosen at random). The environment has not been treated. No further information is available.
05-Apr-2019	UAE; 19BR001987; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	26-Mar-2017*	05-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Scoob, a male Yorkshire Terrier of 9 years old and 10 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (007/18A, exp date is unknown, topical, btw the shoulder blades) (X 3), administered by the reporter on 26 Mar 2019 for flea treatment. Lack of efficacy was suspected because the pet remained presenting live fleas, so another pipette of FL (same presentation

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 10 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					and lot) was applied on 2 Apr 2019 and currently Scoob is still infested. FL has been applied in the past with no issue (dose frequency is unknown) since 26 Mar 2017 (chosen at random). The environment has not been treated. Similar cases reported on 19BR001988 to 19BR001989. No further information is available.
05-Apr-2019	UAE; 19BR001988; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Mar-2017*	05-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Menino, a male Domestic Shorthair cat (crossbred) of 6 years old and 3 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 26 Mar 2019 for flea treatment. Lack of efficacy was suspected because the pet remained presenting live fleas, so another pipette of FL (same presentation and lot) was applied on 2 Apr 2019 and currently Menino is still infested. FL has been applied in the past with no issue (dose frequency is unknown) since 26 Mar 2017 (chosen at random). The environment has not been treated. Similar cases reported on 19BR001987 to 19BR001989. No further information is available.
05-Apr-2019	UAE; 19BR001989; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Mar-2017*	05-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Domestic Shorthair cat of 11 years old and 3 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 26 Mar 2019 for flea treatment. Lack of efficacy was suspected because the pet remained with live fleas, so another pipette of FL (same presentation and lot) was applied on 2 Apr 2019 and currently Nina is still infested. FL has been applied in the past with no issue (dose frequency is unknown) since 26 Mar 2017 (chosen at random). The environment has not been treated. Similar cases reported on 19BR001987 to 19BR001988. No further information is available.
05-Apr-2019	UAE; 19BR001991; PR; Brazil	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Mar-2018*	05-Apr-2019*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Scott, a male Pug of 4 years old and 9 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (014/18A, exp date is unknown, topical, btw the shoulder blades), administered by the reporter on 14 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 2 weeks prior to product administration. FL has been applied in the past with no issue (dose frequency every 3 months) since 14 Mar 2018 (chosen at random). The environment has not been treated. No further information is available.
04-Apr-2019	UAE; 19BR001995; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	04-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment received FRONTLINE SPOT-ON DOGS (FL) (unsubstantiated; lot, exp date, route and location are unknown), administered by the reporter on 1 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) since 1 Apr 2018 (chosen at random). This is the extent of the information available for now. UPDATE 18 APR 2019 - Snoop, a male small crossbred dog of 7 years old and 7 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (topical, btw the shoulder blades), applied by the reporter on 30 Mar 2019, for flea treatment. It is unknown if

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											the animal remains with fleas. Environment treated with Butox®. FL was applied one year ago with no issue. No further information is available.
05-Apr-2019	UAE; 19BR002004; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2017*	05-Apr-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nico, a male Maltese of 5 years old and 6 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 1 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. FL has been administered in the past with no issue (dose frequency is unknown) since 1 Apr 2017 (chosen at random). Environment treated with Butox®. Similar case reported on 19BR002005. No further information is available.
05-Apr-2019	UAE; 19BR002005; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 16 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2017*	05-Apr-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frida, a female Pit Bull of 11 years old and approximately 16 kg, received one pipette of FRONTLINE PLUS DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 1 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. FL has been administered in the past with no issue (dose frequency is unknown) since 1 Apr 2017 (chosen at random). Environment treated with Butox®. Similar case reported on 19BR002004. No further information is available.
08-Apr-2019	UAE; 19BR002023; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	08-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Charlote, a female crossbred cat of 8 years old and 4 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 23 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used once in the past with no issue (1 Jan 2018 chosen at random). The environment has been treated with Regent®. Similar case reported on 19BR002024. No further information is available.
08-Apr-2019	UAE; 19BR002024; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	08-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Adele, a female crossbred cat of 4 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 23 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used once in the past with no issue (1 Jan 2018 chosen at random). The environment has been treated with Regent®. Similar case reported on 19BR002023. No further information is available.

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08-Apr-2019	UAE; 19BR002028; -; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 30.00 Month(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Apr-2019	08-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Patrick, a male Shih Tzu of 30 months old and 7 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown), applied by the reporter on 3 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
08-Apr-2019	UAE; 19BR002035; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	08-Apr-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one dog of unknown signalment received FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown), administered by the reporter on 19 Mar 2019 (estimated date) for ectoparasite control. Lack of efficacy is suspected because the pet owner noticed that the dog started to itch, so it was taken to the DVM who informed that it was infested with fleas. According to the reporter, the dog has flea bite allergy. Similar case reported on 19BR002036. This is the extent of the information available for now. UPDATE 9 APR 2019 - Kenny, a male Lhasa Apso of 9 years old and 14 kg, was treated with FRONTLINE PLUS DOG M (topical, from the shoulders blades to the tail), applied by the retail store staff member. The pet remains with fleas. Environment treated with deltamethrin. FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). No further information is expected.
08-Apr-2019	UAE; 19BR002036; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	08-Apr-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one dog of unknown signalment received FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown), administered by the reporter on 19 Mar 2019 (estimated date) for ectoparasite control. According to the pet owner, 'the product had no effect'. In addition, one dog of the same household is infested with fleas, however it is not clear if the animal of this report is also infested. Similar case reported on 19BR002035. This is the extent of the information available for now. UPDATE 9 APR 2019 - Frederico, a male Shih Tzu of approximately 8 years old and 12 kg, was treated with FRONTLINE PLUS DOG M (topical, btw the shoulders blades to the tail), applied by the retail store staff member. The owner still believes that FL is not effective (details not provided). Environment treated with deltamethrin. FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). No further information is expected.
09-Apr-2019	UAE; 19BR002039; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.20 Year(s) **Weight:** 13.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	09-Mar-2019	25-Mar-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Duquesa, a female medium crossbred dog of 1.2 years old and 13.6 kg, received FRONTLINE PLUS DOG M (028/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 9 Mar 2019 for flea and tick prevention. Lack of efficacy is suspected because the pet got fleas after product administration. This dog does not have outdoor access. The environment has been treated with SBP®. No further information is available.

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						Was the product used ok?: Yes					
08-Apr-2019	UAE; 19BR002042; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2018*	08-Apr-2019*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luli, a female crossbred dog of 4 years old and 8 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) (X 3), administered by the reporter on 28 Feb 2019 (estimated date) for flea treatment. Lack of efficacy was suspected because the pet remained presenting live fleas, so another FL pipette (same presentation and lot) was applied on 31 Mar 2019 and Luli is still infested. The product has been administered in the past with no issue (dose frequency every 30 days) since 31 Mar 2018 (chosen at random). Environment treated with Butox® and Dulbarmiga®. No further information is available.
08-Apr-2019	UAE; 19BR002043; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 700 gms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Mar-2019	08-Apr-2019*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Su, a female Siamese cat of 4 months old and 700 grams, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 29 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectroparasite infestation was seen for 2 days prior to product administration. Environment not treated. Similar case reported on 19BR002044. No further information is available.
08-Apr-2019	UAE; 19BR002044; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 700 gms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Mar-2019	08-Apr-2019*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mec, a male Siamese cat of 4 months old and 700 grams, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 29 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectroparasite infestation was seen for 2 days prior to product administration. Environment not treated. Similar case reported on 19BR002043. No further information is available.
09-Apr-2019	UAE; 19BR002049; MG; Brazil	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 39 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No	31-Mar-2019	07-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female Labrador Retriever of 7 months old and 39 kg, received one pipette of FRONTLINE PLUS DOGS XL (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 31 Mar 2019 for ectoparasite prevention. Lack of efficacy is suspected because since date not specified (7 Apr 2019 – chosen at random) the pet owner visualizes live ticks on the pet. According to the reporter, there is one dog infested with ticks that lives in the streets and has not been treated. This dog makes frequent contact with Bela through the house's gate. Environment not treated. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						(Overdose)					
08-Apr-2019	UAE; 19BR002050; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	08-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one cat of unknown signalment received FRONTLINE PLUS CATS (lot, exp date, route and location are unknown), administered by the reporter on 25 Mar 2019 (estimated date) for ectoparasite control. Lack of efficacy is suspected because the reporter visualized live fleas on the pet. According to her, the cat lives on the streets. This is the extent of the information available for now.
08-Apr-2019	UAE; 19BR002051; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 34 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Mar-2018*	20-Mar-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pitanga, a female crossbred dog of 9 years old and 34 kg, received one pipette of FRONTLINE PLUS DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 14 Mar 2019 for ectoparasite prevention. Lack of efficacy is suspected because on 20 Mar to 3 Apr 2019 (period chosen at random) the pet owner visualized live ticks and fleas on the pet. Capstar® was administered and ectoparasites are no longer seen since 6 Apr 2019 (estimated date). FL has been applied in the past with no issue (dose frequency once a month) since 14 Mar 2018 (chosen at random). Environment treated with Butox® and K-Othrine®. Similar cases reported on 19BR002052 and 19BR002053. No further information is available.
08-Apr-2019	UAE; 19BR002052; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Mar-2018*	20-Mar-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Menina, a female crossbred dog of 12 years old and 9 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 14 Mar 2019 for ectoparasite prevention. Lack of efficacy is suspected because on 20 Mar to 3 Apr 2019 (period chosen at random) the pet owner visualized live ticks and fleas on the pet. Capstar® was administered and ectoparasites are no longer seen since 6 Apr 2019 (estimated date). FL has been applied in the past with no issue (dose frequency once a month) since 14 Mar 2018 (chosen at random). Environment treated with Butox® and K-Othrine®. Similar cases reported on 19BR002051 and 19BR002053. No further information is available.
08-Apr-2019	UAE; 19BR002053; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	14-Mar-2018*	20-Mar-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one male crossbred dog of 13 years old and 14 kg, received one pipette of FRONTLINE PLUS DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 14 Mar 2019 for ectoparasite prevention. Lack of efficacy is suspected because on 20 Mar to 3 Apr 2019 (period chosen at random) the pet owner visualized live ticks and fleas on the pet. Capstar® was administered and ectoparasites are no longer seen since 6 Apr 2019 (estimated date). FL has been applied in the past with no issue (dose frequency once a month) since 14 Mar 2018 (chosen at random). Environment treated with Butox® and K-Othrine®. Similar cases reported on 19BR002051 and 19BR002052. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
06-Apr-2019	UAE; 19BR002054; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 28 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	31-Mar-2019*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female dog of approximately 28 kg received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not informed (1 Mar 2019 - chosen at random) for flea and tick treatment. Lack of efficacy is suspected because de pet remained with fleas and ticks. Fiprolex® was administered on date not informed and the pet still has fleas and ticks. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 19BR002055. This is the extent of the information available.
06-Apr-2019	UAE; 19BR002055; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 10 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	31-Mar-2019*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female dog of approximately 10 kg received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not informed (1 Mar 2019 - chosen at random) for flea and tick treatment. Lack of efficacy is suspected because de pet remained with fleas and ticks. Fiprolex® was administered on date not informed and the pet still has fleas and ticks. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 19BR002054. This is the extent of the information available.
10-Apr-2019	UAE; 19BR002061; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019	10-Apr-2019*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Piter, a male Yorkshire of 8 years old and 3 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 1 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with unknown product. No further information is available.
09-Apr-2019	UAE; 19BR002064; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	09-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hera, a female mixed breed cat of 2 years old and 5 kg, was treated with FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 4 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). Similar cases reported on 19BR002065, 19BR002066 and 19BR002067. No further information is expected.
09-Apr-2019	UAE; 19BR002065; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical /	01-Jan-2018*	09-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maria Rosa, a female mixed breed cat of 20 months old and 5 kg, was treated with FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 4 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied monthly since date not specified (1

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		Age: 20.00 Month(s) **Weight:** 5 kg				Cutaneous **Was the product used ok?:** Yes					Jan 2018 - chosen at random). Similar cases reported on 19BR002064, 19BR002066 and 19BR002067. No further information is expected.
09-Apr-2019	UAE; 19BR002066; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	09-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Merly, a female mixed breed cat of 1 year old and 5 kg, was treated with FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 4 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). Similar cases reported on 19BR002064, 19BR002065 and 19BR002067. No further information is expected.
09-Apr-2019	UAE; 19BR002067; MG; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2019*	09-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Samanta, a female Persian of 4 months old and 1.5 kg, was treated with FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 4 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied monthly since date not specified (1 Jan 2019 - chosen at random). Similar cases reported on 19BR002064, 19BR002065 and 19BR002066. No further information is expected.
07-Apr-2019	UAE; 19BR002071; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2017*	07-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats of unknown signalment received FRONTLINE (unsubstantiated; 023/17, exp date, route and location are unknown), administered by the reporter on 31 Mar 2019 (chosen at random) for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) since 31 Mar 2017 (chosen at random). This is the extent of the information available for now. UPDATE 15 APR 2019 - Isadora, a female mixed breed cat of 4 years old and 4 kg, was treated with FL SPOT-ON CATS (FL) (023/17A, exp date is unknown, topical, btw the shoulder blades), applied by the reporter on 19 Mar 2019, for flea treatment. The pet remains with fleas. Environment not treated. Similar cases reported on 19BR002158, 19BR002165 to 19BR002167. No further information is expected.
10-Apr-2019	UAE; 19BR002082; SC; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 7.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Apr-2019	10-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Liz, a female Poodle of 4 years old and 7.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (034/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 9 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. There is a cat in this household that was not treated and it has no issue. No further information is expected.

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09-Apr-2019	UAE; 19BR002088; PR; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Mar-2019	09-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mia, a female Domestic Shorthair cat (crossbred) of 2.5 years old and 2 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 26 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Environment not treated. Similar case reported on 19BR002089. No further information is available.
09-Apr-2019	UAE; 19BR002089; PR; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Mar-2019	09-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pitucha, a female Domestic Shorthair cat (crossbred) of 2 years old and 2.5 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 26 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Environment not treated. Similar case reported on 19BR002088. No further information is available.
10-Apr-2019	UAE; 19BR002094; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 8.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Apr-2019*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Garota, a female small crossbred dog of 8 years old and 8.2 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 Mar 2019 for flea and tick prevention. Lack of efficacy is suspected because the pet got fleas after product administration. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has been treated with amitraz. No further information is available.
08-Apr-2019	UAE; 19BR002109; MG; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2018*	08-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 3 cats of unknown signalment received one pipette of FRONTLINE SPOT-ON CATS (lot, exp date, route and location are unknown) (X 3), administered by the reporter on 1 Apr 2019 (estimated date) for an unknown reason. According to the reporter, 'the product had no effect'. FL has been applied in the past with no issue (dose frequency is unknown) since 1 Apr 2018 (chosen at random). Similar case reported on 19BR002110. This is the extent of the information available for now.
08-Apr-2019	UAE; 19BR002110; MG; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products**	01-Apr-2018*	08-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 1 cat of unknown signalment received one pipette of FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown), administered by the reporter on 1 Apr 2019 (estimated date) for an unknown reason. According to the reporter, 'the

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		Sex qualifier: Unknown **Age:** - **Weight:** Unknown				**used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					product had no effect'. FL has been applied in the past with no issue (dose frequency is unknown) since 1 Apr 2018 (chosen at random). Similar case reported on 19BR002109. This is the extent of the information available for now.
11-Apr-2019	UAE; 19BR002114; SP; Brazil	**Species:** Canine **Breed:** Pug **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Sep-2018*	07-Apr-2019*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, Babi, a female Pug of 4 years old and 7 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, neck - incorrect application), applied by the reporter around 15 days ago (27 Mar 2019 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remained with fleas. Environment treated with an unknown product. Simparic® was given to the dog recently and the pet is currently free of fleas. FL was applied with no issue in the past (around 6 months ago - 1 Sep 2018 - chosen at random). No further information is available.
11-Apr-2019	UAE; 19BR002119; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 3.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Apr-2019	0 Day(s)	D-C	Suspected Adverse Event: As reported by the pet owner, Mia, a female crossbred cat of 6 months old and 3.9 kg, received FRONTLINE PLUS CATS (FL) (002/18B, exp date unknown, topical, btw the shoulder blades), applied by the reporter on 5 Apr 2019 for flea treatment. Mia was in good health prior to FL. Right after product administration the animal was contained for 10 minutes and experienced distress. Then Mia started to drool. The owner offered milk to her and took her to the veterinarian , which believes the signs could be related to FL. Mia was treated with 2 unknown medications and returned home, when she presented tachypnea and muscular spasms. She was hospitalized and treated with fluid therapy. On the next day, the cat recovered and returned home. On 8 Apr 2019 the animal started presenting diarrhea, which is decreasing. No further information is available.
11-Apr-2019	UAE; 19BR002120; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	27-Mar-2017*	11-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Henry, a male Poodle of 8 years old and 11 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 27 Mar 2019 for flea treatment. Lack of efficacy was suspected because the pet remained presenting live fleas, so one pipette of FRONTLINE PLUS DOGS S (FL PLUS) (lot and exp date are unknown, topical, btw the shoulder blades) was applied for the first time, on 3 Apr 2019, however Henry is still infested. FL has been applied in the past with no issue (dose frequency every 6 months) since 27 Mar 2018 (chosen at random). Environment treated with Arraze®. No further information is available.
11-Apr-2019	UAE; 19BR002121;	**Species:** Canine **Breed:** Large	1	1	0	**Product used:** FIPRONIL SPOT	06-Apr-2017*	11-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pepinho, a male crossbred dog of 9 years old and 25 kg, received

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	SP; Brazil	crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 25 kg				ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					one pipette of FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 6 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) since 6 Apr 2017 (chosen at random). Environment treated with Butox®. No further information is available.
09-Apr-2019	UAE; 19BR002125; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	3	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	09-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female cat of 4 months old and unknown weight, received one pipette of FRONTLINE (unsubstantiated; lot, exp, route and location are unknown) for the first time, administered by the reporter on 2 Apr 2019 (estimated date) for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. There are 2 cats and 1 dog of the same household that have been simultaneously treated with FL, but with no issue. Environment treated with Butox®. No further information is available.
11-Apr-2019	UAE; 19BR002128; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Mar-2019	11-Apr-2019*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Manuela, a female Shih Tzu of 14 months old and around 5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Mar 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
12-Apr-2019	UAE; 19BR002141; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Apr-2019	12-Apr-2019*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chico, a male Yorkshire of 3 years old and 2 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 Apr 2019, for tick control. Lack of efficacy is suspected because the pet remains with live ticks . Environment not treated. Similar case reported on 19BR002142. No further information is expected.
12-Apr-2019	UAE; 19BR002142; SP; Brazil	**Species:** Canine **Breed:** Schnauzer **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	03-Apr-2019	12-Apr-2019*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Teo, a male Schnauzer of 7 years old and 4 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 Apr 2019, for tick control. Lack of efficacy is suspected because the pet remains with live ticks. Environment not treated. Similar case reported on 19BR002141. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Cutaneous **Was the product used ok?:** Yes					
11-Apr-2019	UAE; 19BR002143; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018	11-Apr-2019	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment was treated with FRONTLINE PLUS (FL) (unsubstantiated) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 12 days ago (30 Mar 2019), for flea treatment. Lack of efficacy is suspected because one flea was found on her pet on 11 Apr 2019. This is the extent of the information available. UPDATE 18 APR 2019 - Estrela, a female Poodle of 1 year old and 8 kg, was treated, for the first time, with FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 1 Apr 2019, for flea treatment. It is unknown if the pet remains with fleas. Environment treated with an unknown product. No further information is expected.
12-Apr-2019	UAE; 19BR002151; SE; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	15-Apr-2019*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female dog of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter around 3 Apr 2019, for flea treatment. Lack of efficacy is suspected because fleas were found on her pet on 12 Apr 2019. In addition, the pet has flea allergy dermatitis and she has a lot of wounds because she was scratching itself due to fleas. This is the extent of the information available.
12-Apr-2019	UAE; 19BR002152; RS; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	15-Apr-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of 4 kg (other signalment is unknown) received FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 20 days ago (26 Mar 2019 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar case reported on 19BR002153. No further information is available.
12-Apr-2019	UAE; 19BR002153; RS; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	15-Apr-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of 12 kg (other signalment is unknown) received FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 20 days ago (26 Mar 2019 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar case reported on 19BR002152. No further information is available.

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15-Apr-2019	UAE; 19BR002155; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 17.00 Year(s) **Weight:** 12.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Apr-2019	15-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pit, a female medium crossbred dog of 17 years old and 12.9 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 10 Apr 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Environment not treated. No further information is expected.
07-Apr-2019	UAE; 19BR002158; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2017*	05-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nissa, a female mixed breed cat of 5 years old and 4 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Mar 2019, for flea treatment. Lack of efficacy is suspected because fleas were found on her pet. So, another vial of FL was applied on 4 Apr 2019 and the pet is currently free of fleas. Environment not treated. FL has been applied in the past with no issue (dose frequency is unknown) since 31 Mar 2017 (chosen at random). Similar cases reported on 19BR002071, 19BR002165 to 19BR002167. No further information is expected.
15-Apr-2019	UAE; 19BR002163; SC; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	15-Apr-2019*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Emma, a female mixed breed cat of 1 year old and unknown weight received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by his wife on 5 Apr 2019, for tick treatment. Lack of efficacy is suspected because the pet has ticks. It is unknown if FL was applied in the past. Similar case reported on 19BR002162. No further information is expected.
07-Apr-2019	UAE; 19BR002165; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2017*	20-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dora, a female mixed breed cat of 3 years old and 3 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Mar 2019, for flea treatment. Lack of efficacy is suspected because fleas were found on her pet. Environment not treated. FL has been applied in the past with no issue (dose frequency is unknown) since 31 Mar 2017 (chosen at random). Similar cases reported on 19BR002071, 19BR002158, 19BR002166 and 19BR002167. No further information is expected.
07-Apr-2019	UAE; 19BR002166; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous	31-Mar-2017*	20-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pirulito, a male mixed breed cat of 3 years old and 2.5 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Mar 2019, for flea treatment. Lack of efficacy is suspected because fleas were found on her pet. Environment not treated. FL has been applied in the past with no issue (dose frequency is unknown) since 31 Mar 2017 (chosen at random). Similar cases reported on 19BR002071, 19BR002158,

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		Weight: 2.5 kg				**Was the product used ok?:** Yes					19BR002165 and 19BR002167. No further information is expected.
07-Apr-2019	UAE; 19BR002167; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2017*	20-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chiquinho, a male mixed breed cat of 3 years old and 2.5 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Mar 2019, for flea treatment. Lack of efficacy is suspected because fleas were found on her pet. Environment not treated. FL has been applied in the past with no issue (dose frequency is unknown) since 31 Mar 2017 (chosen at random). Similar cases reported on 19BR002071, 19BR002158, 19BR002165 and 19BR002166. No further information is expected.
16-Apr-2019	UAE; 19BR002169; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Apr-2019	16-Apr-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mandy, a female medium crossbred dog of 11 years old and 11 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 10 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with ticks . The environment has not been treated. No further information is available.
16-Apr-2019	UAE; 19BR002174; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Apr-2019	16-Apr-2019	3 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Lili, a female mixed breed cat of 4 years old and 3 kg, received, for the first time, one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 13 Apr 2019. The pet was in good health prior to FL and has no history of adverse reactions. According to the reporter, Lili managed to lick some of FL. Three days after product application, the pet started presenting appetite loss, diarrhea and lethargy. No vet care was provided and the symptoms are still ongoing. No further information is available.
16-Apr-2019	UAE; 19BR002178; MG; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Mar-2019	14-Apr-2019*	6 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Malu, a female Lhasa Apso of 6 months old and 4.5 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 3 Mar 2019 for flea and tick treatment. Lack of efficacy is suspected because she started to see fleas on her pet again after contact with dogs infested with fleas. The environment has not been treated. No further information is available.

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17-Apr-2019	UAE; 19BR002219; SE; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	17-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Wit, a male Poodle of 14 years old and around 6 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (011/18A, exp date, route and location are unknown), applied by the reporter on 1 Apr 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Environment treated with Butox®. Similar cases reported on 19BR002220, 19BR002221 and 19BR002222. FL has been applied every 3 months with no issue since date not specified (1 Jan 2015 - chosen at random). No further information is expected.
17-Apr-2019	UAE; 19BR002220; SE; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 8 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	17-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Brian, a male Pinscher of 7 years old and 8 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (011/18A, exp date, route and location are unknown), applied by the reporter on 1 Apr 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Environment treated with Butox®. Similar cases reported on 19BR002219, 19BR002221 and 19BR002222. FL has been applied every 3 months with no issue since date not specified (1 Jan 2015 - chosen at random). No further information is expected.
17-Apr-2019	UAE; 19BR002221; SE; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 35 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	17-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Colle, a male large crossbred dog of 8 years old and 35 kg, was treated with one vial of FRONTLINE SPOT-ON DOG L (005/18A, exp date, route and location are unknown), applied by the reporter on 1 Apr 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Environment treated with Butox®. Similar cases reported on 19BR002219, 19BR002220 and 19BR002222. FL has been applied every 3 months with no issue since date not specified (1 Jan 2015 - chosen at random). No further information is expected.
17-Apr-2019	UAE; 19BR002222; SE; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 38 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	17-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zion, a male large crossbred dog of 8 years old and 38 kg, was treated with one vial of FRONTLINE SPOT-ON DOG L (005/18A, exp date, route and location are unknown), applied by the reporter on 1 Apr 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment treated with Butox®. Similar cases reported on 19BR002219, 19BR002220 and 19BR002221. FL has been applied every 3 months with no issue since date not specified (1 Jan 2015 - chosen at random). No further information is expected.
16-Apr-2019	UAE; 19BR002223; ES; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	11-Apr-2019*	16-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a female dog of unknown signalment was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Apr 2019 - chosen at random), for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. Similar case reported on 19BR002224. This is the extent of the information available. UPDATE 18 APR 2019 - Kiara, a female small crossbred dog of 16 months old and 5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG (FL) (unsubstantiated) (lot and exp date are unknown,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: No (Treatment / vaccination program not respected)					topical, neck), applied by the reporter around 1 week ago (11 Apr 2019 - estimated date), for flea/tick treatment. The pet remains with fleas and ticks. Environment not treated. There is one more dog in this household that was treated with FL and it has no issue anymore. No further information is expected.
16-Apr-2019	UAE; 19BR002224; ES; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	11-Apr-2019*	16-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a male dog of unknown signalment was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Apr 2019 - chosen at random), for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. Similar case reported on 19BR002223. This is the extent of the information available. UPDATE 18 APR 2019 - According to the reporter, one vial of FRONTLINE SPOT-ON DOG (unsubstantiated) (topical, neck), applied by the reporter around 11 Apr 2019. The pet has no ectoparasites anymore. Environment not treated. No further information is available.
16-Apr-2019	UAE; 19BR002226; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Apr-2019	10-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats were treated with FRONTLINE CATS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by a DVM on date not specified (1 Apr 2019 - chosen at random), for flea treatment. Lack of efficacy is suspected because the animals remain with fleas. Environment treated with an unknown product. This is the extent of the information available. UPDATE 30 APR 2019 – The pet owner informed that Tchukinha, a female crossbred cat of 9 years old and 2.5 kg, received FRONTLINE SPOT-ON CAT (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by a retail shop staff member on 10 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with K-Othrine®. Similar cases reported on 19BR002452 and 19BR002453. No further information is expected.
16-Apr-2019	UAE; 19BR002227; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 1.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Aug-2017*	11-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner via e-mail, one female dog of unknown signalment received one vial of FRONTLINE PLUS DOG S (034/17, Aug 2019, route and location are unknown), applied by an unknown person on 11 Apr 2019. Soon after product application, the dog presented an 'allergic reaction'. The current status of the animal is unknown. This is the extent of the information available. UPDATE 22 Apr 2019 – The pet owner was contacted and reported that Maria Flor, a female Yorkshire Terrier of 3 years old and 1.3 kg, presented with itching and eczema at the application site 1 minute after FL application (topical, btw the shoulder blades), so she was bathed and taken to the vet clinic. There, the DVM prescribed an ointment (unsubstantiated), however it is not known if the reported signs persist or whether the pet remains under treatment. Maria Flor was in good health prior to FL application. According to the reporter, the DVM's level of suspicion is medium. The product has been applied other times in the past with no issue (dose frequency once a month) since 11 Aug 2017 (estimated date). Similar AE occurred in the past after FL SPRAY administration (see case 19BR002289). No further information is expected. UPDATE 9 MAY 2019 -

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											According to the owner, the pet was treated with Neodexa F®, for 5 days - TID. The current status of the animal is still unknown. The reporter said that the vet has recommended that FL should not be applied anymore. No further information is available. UPDATE 13 MAY 2019 - There is no clinical report of this case at the vet clinic. No further information is known. UPDATE 20 MAY 2019 - According to the owner, a product of another brand was applied and the pet had no issue. No further information is expected.
17-Apr-2019	UAE; 19BR002238; -; Brazil	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	17-Apr-2019	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one Shetland Sheepdog of unknown signalment received FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown) administered by the reporter on 13 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. This is the extent of the information available.
17-Apr-2019	UAE; 19BR002242; PR; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Apr-2018*	17-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiko, a male Shih Tzu of 8 years old and 5 kg, received one pipette of FRONTLINE S (FL) (unsubstantiated; lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 3 Apr 2019 for ectoparasite prevention. Lack of efficacy is suspected because on 17 Apr 2019 another person found a few live ticks on the pet. FL has been applied in the past with no issue (dose frequency every 2 months) since 3 Apr 2018 (chosen at random). Environment not treated. No further information is available.
17-Apr-2019	UAE; 19BR002247; SC; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Mar-2019	17-Apr-2019*	24 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Wiska, a female Domestic Shorthair cat (crossbred) of 10 years old and 6 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the DVM on 24 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 10 days prior to product application. There is 1 dog of the same household that is not presenting fleas and was not treated. Environment not treated. No further information is available.
17-Apr-2019	UAE; 19BR002248; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 8.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous	02-Apr-2019	17-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Logan, a male Lhasa Apso of 1.5 years old and 8.2 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 2 Apr 2019 for ectoparasite prevention. Lack of efficacy is suspected because since 17 Apr 2019 (chosen at random) the pet owner visualizes live fleas on the dog. There are 4 dogs of the same household that are treated with

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					Seresto®. The pet has been treated with FRONTLINE TRI-ACT in the past with no issue. Environment not treated. No further information is available.
17-Apr-2019	UAE; 19BR002251; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** X **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 12 - 18 kg	10	10	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Feb-2019*	17-Apr-2019*	8 Week(s) 2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 10 mixed crossbred dogs of around 7 to 12 years old and 12 to 18 kg, received one pipette of FRONTLINE PLUS DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades) each, for the first time, administered by the reporter on 18 Feb 2019 (estimated date) for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas since product administration. Ectoparasite infestation was seen for 3 months prior to product application. Environment not treated. No further information is available.
18-Apr-2019	UAE; 19BR002258; -; Brazil	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Butox®; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Feb-2017*	15-Apr-2019	7 Week(s) 6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sasha, a female Labrador Retriever of 6 years old and 25 kg, received one pipette of FRONTLINE PLUS DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 19 Feb 2019 for tick treatment. Lack of efficacy is suspected because the pet remained with live ticks after product administration, so Butox® was administered to Sasha on 27 Feb 2019 (chosen at random) and then she no longer presented ectoparasites for an unspecified period. However, since 15 Apr 2019 the pet owner returned to visualize live ticks on the dog again. FL has been administered in the past (dose frequency every 4 months) since 19 Feb 2017 (chosen at random). There are 3 other animals of the same household, but it is unknown if they have been simultaneously treated. Environment frequently treated with Butox®. Similar case reported on 19BR002259. No further information is available.
18-Apr-2019	UAE; 19BR002259; -; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Aug-2018*	17-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ted, a male Yorkshire Terrier of 1 year old and 5 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 16 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. FL has been administered only once in the past (16 Aug 2019 – chosen at random). There are 3 other animals of the same household, but it is unknown if they have been simultaneously treated. Environment frequently treated with Butox®. Similar case reported on 19BR002258. No further information is available.
18-Apr-2019	UAE; 19BR002262; PR; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.40 Year(s) **Weight:** 4.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Jan-2019*	18-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Poodle of 1.4 years old and 4.8 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 15 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2019 chosen at random). There are 2 cats treated with another brand's product with no fleas living in this household. The environment has not been treated. No further information is

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						Was the product used ok?: Yes					available.
17-Apr-2019	UAE; 19BR002265; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 20 kg	2	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Apr-2019	17-Apr-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Snoop, a male crossbred dog of 3 years old and 20 kg, received one pipette of FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 3 Apr 2019 for flea treatment. Lack of efficacy is suspected because since 17 Apr 2019 the pet owner returned to visualize live fleas on Snoop. Ectoparasite infestation was seen for 1 week prior to product application. There is 1 dog of the same household that was simultaneously treated with FL, but with no issue. Environment not treated. No further information is available.
16-Apr-2019	UAE; 19BR002266; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	16-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one male dog of unknown signalment received FRONTLINE PLUS DOG M (lot, exp date, route and application site unknown), administered by the reporter on date not specified (1 Apr 2019 - estimated date) for flea treatment. Lack of efficacy is suspected because he continues to see fleas and flea eggs on his pet. The environment has been treated with unknown product. Similar case reported on 19BR002267. This is the extent of the information available.
16-Apr-2019	UAE; 19BR002267; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	16-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female cat of unknown signalment received FRONTLINE PLUS CATS (lot, exp date, route and application site unknown), administered by the reporter on date not specified (1 Apr 2019 - estimated date) for flea treatment. Lack of efficacy is suspected because he continues to see fleas and flea eggs on his pet. The environment has been treated with unknown product. Similar case reported on 19BR002266. This is the extent of the information available.
22-Apr-2019	UAE; 19BR002280; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Apr-2017*	22-Apr-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Penélope, a female Siamese of 15 years old and 3 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the DVM on 16 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) since 16 Apr 2017 (chosen at random). Environment treated with an unknown product. No further information is available.
22-Apr-2019	UAE;	**Species:** Canine	1	1	0	**Product used:**	29-Mar-2017*	22-Apr-2019*	24 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	19BR002298; SP; Brazil	**Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 3.8 kg				FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 11.3 MG CHEWABLE TABLETS; **Route:** unknown **Was the product used ok?:** Unknown to Company					Pipoca, a male Maltese dog of 5 years old and 3.8 kg, received one pipette of FRONTLINE PLUS DOGS (FL) (unsubstantiated; lot, exp date, route and location are unknown) administered by the reporter on 29 Mar 2019 for tick treatment. Lack of efficacy was suspected because the pet remained presenting live ticks after product application, so on 18 Apr 2019 NEXGARD (11.3 mg) (NG) (lot and exp date are unknown) was administered, for the first time, and currently live ticks are still seen on Pipoca. FL has been administered in the past with no issue (dose frequency is unknown) since 29 Mar 2017 (chosen at random). Environment treated with Butox®. No further information is available.
22-Apr-2019	UAE; 19BR002299; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2019	22-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Yorkshire of 5 years old and 3 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 8 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This dog does not have outdoor access. The environment has not been treated. Similar case reported on 19BR002300. No further information is available. UPDATE 25 APR 2019 - According to the owner, this was the first time that she had applied FL PLUS and she continues to see fleas on her pet. She used to apply FL SPOT-ON on her dogs with no issue. No further information is available.
22-Apr-2019	UAE; 19BR002300; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2019	22-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nick, a male Yorkshire of 8 months old and 5 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 8 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This dog does not have outdoor access. The environment has not been treated. Similar case reported on 19BR002299. No further information is available. UPDATE 25 APR 2019 - According to the owner, this was the first time that she had applied FL PLUS and she continues to see fleas on her pet. She used to apply FL SPOT-ON on her dogs with no issue. No further information is available.
23-Apr-2019	UAE; 19BR002308; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 6.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Apr-2019	23-Apr-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Noa, a male Yorkshire of 1.5 years old and 6.2 kg, received FRONTLINE SPOT-ON DOGS S (014/18A, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 3 Apr 2019 for flea and tick treatment. Lack of efficacy is suspected because she found 5 fleas, flea eggs and 1 tick on her pet after product administration. This dog has outdoor access. The environment has not been treated. No further information is available.
22-Apr-2019	UAE; 19BR002316;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL	14-Apr-2019	22-Apr-2019	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 1 cat of unknown signalment received FRONTLINE

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	SP; Brazil	mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2.5 kg				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					PLUS CATS (FL) (lot, exp date, route and location are unknown) administered by the reporter on 14 Apr 2019 for itching. Lack of efficacy is suspected because the pet remains itching and since 22 Apr 2019 live fleas are seen on the pet. This is the extent of the information available for now. UPDATE 26 APR 2019 - Jayme, a male mixed breed cat of 2 years old and 2.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (topical, btw the shoulder blades), applied by the reporter on 14 Apr 2019, for flea treatment. It is unknown if the pet remains with fleas. Environment not treated. No further information is expected.
23-Apr-2019	UAE; 19BR002317; SP; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Unknown **Age:** 1.80 Year(s) **Weight:** 45 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2018*	23-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Koda, a male German Shepherd Dog of 1.8 years old and 45 kg, received one pipette of FRONTLINE PLUS DOGS XL (FL) (008/18A, exp date is unknown, topical, btw the shoulder blades) administered by the reporter on 8 Apr 2019 (estimated date) for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Ectoparasite infestation was seen for 10 days prior to product administration. FL has been applied two times in the past with no issue (dose frequency is unknown) since 8 Apr 2018 (chosen at random). There is 1 dog of the same household that has been treated with an unknown product. Environment not treated. No further information is available.
23-Apr-2019	UAE; 19BR002321; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Apr-2019	23-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, 1 female Shih Tzu of unknown signalment received FRONTLINE (FL) (unsubstantiated; lot and exp date are unknown) administered by the reporter on 20 Apr 2019 (chosen at random) for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. This is the extent of the information available for now. UPDATE 25 APR 2019 - Polly, a female Shih Tzy of 2 years old and 6.5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (topical, btw the shoulder blades), applied by the reporter last week (18 Apr 2019 - estimated date), for flea treatment. The pet remains with fleas. Environment not treated. The owner used to give Bravecto® to his dog. No further information is expected.
22-Apr-2019	UAE; 19BR002324; SP; Brazil	**Species:** Canine **Breed:** Pug **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	22-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, an unknown number of female dogs of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on 7 Apr 2019 for flea treatment. Lack of efficacy is suspected because she found one tick and continues to see fleas on her pet. This is the extent of the information available. UPDATE 26 APR 2019 - Luna, a female Pug of 2 years old and 9 kg, was treated with one vial of FRONTLINE SPOT ON DOG S (FL) (topical, btw the shoulder blades), applied by the reporter on 8 Apr 2019, for flea/tick treatment. The pet remains with ectoparasites. Environment not treated. FL was applied a long time ago (1 Jan 2018 - chosen at random). Similar case reported on 19BR002368. No further information is expected.
24-Apr-2019	UAE; 19BR002343; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	17-Apr-2019	24-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Koda, a male Shih Tzu of 1 year old and 6.5 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** 1.00 Year(s) **Weight:** 6.5 kg				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					on 17 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This dog has outdoor access. The environment has been treated with Butox®. Similar case reported on 19BR002344. No further information is available.
24-Apr-2019	UAE; 19BR002344; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5.1 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Apr-2019	24-Apr-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Teodoro, a male Siamese of 1 year old and 5.1 kg, received FRONTLINE SPOT-ON CAT (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 18 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. Similar case reported on 19BR002343. No further information is available.
24-Apr-2019	UAE; 19BR002345; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Apr-2019	24-Apr-2019*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Domestic Shorthair cat (crossbred) of 5 months old and unknown weight, received one pipette of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 13 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 2 weeks prior to product application. Environment treated with an unknown product. Similar case reported on 19BR002346. No further information is available.
24-Apr-2019	UAE; 19BR002346; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Apr-2019	24-Apr-2019*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nino, a male Domestic Shorthair cat (crossbred) of 5 months old and unknown weight, received one pipette of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 13 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 2 weeks prior to product application. Environment treated with an unknown product. Similar case reported on 19BR002345. No further information is available.
26-Apr-2019	UAE; 19BR002366; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Apr-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cleo, a female Cocker of 12 years old and 9 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 22 Apr 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment treated with Butox®. FL has been applied every 6 months since date not specified (1 Jan 2017 - chosen at random). No further information is expected.

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22-Apr-2019	UAE; 19BR002368; SP; Brazil	**Species:** Canine **Breed:** Shar Pei **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	22-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Sharpei of 6 years old and 23 kg, was treated with one vial of FRONTLINE SPOT ON DOG L (FL) (topical, btw the shoulder blades), applied by the reporter on 8 Apr 2019, for flea/tick treatment. The pet remains with ectoparasites. Environment not treated. FL was applied a long time ago (1 Jan 2018 - chosen at random). Similar case reported on 19BR002324. No further information is expected.
25-Apr-2019	UAE; 19BR002380; SP; Brazil	**Species:** Feline **Breed:** Egyptian Mau **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Capstar®; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Dec-2018*	22-Apr-2019*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats of unknown signalment were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Apr 2019 - chosen at random). Capstar® was administered 4 days prior to FL. Two days after FL application, the animals were presenting fleas. Environment treated with an unknown product. FL was applied for the first time on date not specified and the owner also saw fleas on her pets. This is the extent of the information available. UPDATE 30 Apr 2019 – The pet owner was contacted and reported that Chilon, a male Egyptian Mau cat of 3 years old and 4 kg, received one pipette of FRONTLINE PLUS CATS (FL) (topical, btw the shoulder blades) administered by the pet owner on 17 Apr 2019 for flea treatment. Lack of efficacy is still suspected because the pet remains with live fleas. Environment has been treated with an unknown product. Four months ago (30 Dec 2018 – estimated date) FL (lot and exp date are also unknown; same route and location) has been applied for the first time on the pet and the same issue occurred, which persists until the current date even after the last application. After differentiation of the animals two new SLOE cases have been reported on 19BR002450 and 19BR002451. No further information is expected.
25-Apr-2019	UAE; 19BR002391; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	23-Apr-2019	23-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment received FRONTLINE SPOT-ON DOGS (unsubstantiated) (lot, exp date, route and application site unknown) for the first time, administered by the reporter on date not informed (24 Apr 2019 - estimated date) for flea treatment. Lack of efficacy is suspected because the pet remains with fleas 30 hours after product administration. This dog does not have outdoor access. This is the extent of the information available. UPDATE 8 MAY 2019 - The pet owner informed that Thor, a male Lhasa Apso of approximately 3.5 years old received FRONTLINE SPOT-ON DOGS S (lot and exp date unknown) on 23 Apr 2019. Thor is bathed 2 times per week. The dog remains with fleas. The environment has been treated with unknown product. No further information is available.
25-Apr-2019	UAE; 19BR002392; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	N/A	25-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female dog of unknown signalment received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not informed (20 Apr 2019 - chosen at random) for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.

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		Weight: Unknown				products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					
26-Apr-2019	UAE; 19BR002401; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Feb-2019*	26-Apr-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Matilda, a female small crossbred dog of 5 months old and 9 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 22 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 22 Feb 2019 chosen at random). The environment has been treated by a specialized company. Similar cases reported on 19BR002402 and 19BR002403. No further information is available.
26-Apr-2019	UAE; 19BR002402; RJ; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Feb-2019*	26-Apr-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bigitte, a female Shih Tzu of 3 years old and 5 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 22 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 22 Feb 2019 chosen at random). The environment has been treated by a specialized company. Similar cases reported on 19BR002401 and 19BR002403. No further information is available.
26-Apr-2019	UAE; 19BR002403; RJ; Brazil	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Feb-2019*	26-Apr-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Greta, a female Border Collie of 4 years old and 25 kg, received FRONTLINE PLUS DOG L (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 22 Apr 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 22 Feb 2019 chosen at random). The environment has been treated by a specialized company. Similar cases reported on 19BR002401 and 19BR002402. No further information is available.
23-Apr-2019	UAE; 19BR002410; MG; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Jan-2017*	20-Apr-2019*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Banny, a male medium crossbred dog of 15 kg and unknown age, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 20 Mar 2019, for flea treatment. Lack of efficacy is suspected because fleas were found on his dog . Capstar® was administered and the pet is currently free of fleas. Environment not treated. FL has been applied every 90 - 100 days since date not specified (1 Jan 2018 - chosen at random). No

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						Cutaneous **Was the product used ok?:** Yes					further information is expected.
28-Apr-2019	UAE; 19BR002415; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	21-Apr-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mili, a female Domestic Shorthair cat (crossbred) of 3 years old and 2.5 kg, received one pipette of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 19 Apr 2019 for flea treatment. Lack of efficacy is suspected the pet remains with live fleas. Ectoparasite infestation was seen for 1 week prior to product application. Environment frequently treated with K-Othrine®. Similar case reported on 19BR002416. No further information is available.
28-Apr-2019	UAE; 19BR002416; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	21-Apr-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mandy, a female Domestic Shorthair cat (crossbred) of 2 years old and 3.5 kg, received one pipette of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 19 Apr 2019 for flea treatment. Lack of efficacy is suspected the pet remains with live fleas. Ectoparasite infestation was seen for 1 week prior to product application. Environment frequently treated with K-Othrine®. Similar case reported on 19BR002415. No further information is available.
29-Apr-2019	UAE; 19BR002417; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Apr-2018*	27-Apr-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Matheus, a male Domestic Shorthair cat (crossbred) of 3 years old and 5 kg, received one pipette of FRONTLINE PLUS CATS (FL) (001/18A, exp date is unknown, topical, btw the shoulder blades), administered by the reporter on 21 Apr 2019 for ectoparasite prevention. Lack of efficacy is suspected live fleas were seen on the pet, however it is unknown if Matheus remains infested. FL has been applied in the past with no issue (dose frequency every 2 months) since 21 Apr 2018 (chosen at random). Environment treated with an unknown product. No further information is available.
29-Apr-2019	UAE; 19BR002419; PR; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 25 kg	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	22-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Meg, a female Labrador of 13 years old and 25 kg, received FRONTLINE PLUS DOG L (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (15 Apr 2019 - estimated date) for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). There is a dog treated with FL with no fleas living in this household. The environment has not been treated. No further information is available.
29-Apr-2019	UAE; 19BR002420;	**Species:** Feline **Breed:** Domestic	1	1	0	**Product used:** FIPRONIL	26-Apr-2019	29-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Milly, a female Domestic Shorthair cat (crossbred) of 4 months old

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	SP; Brazil	Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 2.5 kg				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					and 2.5 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 26 Apr 2019 for flea treatment. Lack of efficacy is suspected the pet remains with live fleas. The ectoparasite infestation has been seen since Milly was born. There are 2 dogs and 1 rabbit of the same household that have not been simultaneously treated. Only the house's backyard has been treated with an unknown product. No further information is available.
29-Apr-2019	UAE; 19BR002421; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	29-Apr-2019*	27 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Rata, female mixed breed cat (other signalment is unknown), was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 2 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL is applied only when fleas are seen (dose frequency is unknown and first application was not provided - 1 Jan 2018 - chosen at random). Similar cases reported on 19BR002422 and 19BR002423. No further information is expected.
29-Apr-2019	UAE; 19BR002422; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	29-Apr-2019*	27 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Vesgo, male mixed breed cat (other signalment is unknown), was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 2 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL is applied only when fleas are seen (dose frequency is unknown and first application was not provided - 1 Jan 2018 - chosen at random). Similar cases reported on 19BR002421 and 19BR002423. No further information is expected.
29-Apr-2019	UAE; 19BR002423; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	29-Apr-2019*	27 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Genro, male mixed breed cat (other signalment is unknown), was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 2 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL is applied only when fleas are seen (dose frequency is unknown and first application was not provided - 1 Jan 2018 - chosen at random). Similar cases reported on 19BR002421 and 19BR002422. No further information is expected.
29-Apr-2019	UAE; 19BR002424; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	26-Oct-2018*	29-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female crossbred dog of 8 years old and 30 kg, received one pipette of FRONTLINE PLUS DOGS L (FL) (003/18A, exp date is unknown, topical, btw the shoulder blades), administered by the reporter on 26 Apr 2019 for flea and tick treatment. Lack of efficacy is suspected the pet remains with live fleas and ticks . Ectoparasite infestation was seen for 1 week prior to product administration. FL has been applied only once in the past with no issue (26 Oct 2018 – estimated date). Environment treated with an unknown product. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					
25-Apr-2019	UAE; 19BR002451; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Capstar®; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Dec-2018*	25-Apr-2019*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maia, a female Siamese cat of 2.5 years old and 2 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown; topical, btw the shoulder blades), administered by the reporter on 17 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Capstar® was administered 4 days prior to FL. Four months ago (30 Dec 2018 – estimated date) FL (lot and exp date are also unknown; same route and location) has been applied for the first time on the pet and the same issue occurred, which persists until the current date even after the last application. Environment has been treated with an unknown product. Similar cases reported on 19BR002380 and 19BR002450. No further information is available.
16-Apr-2019	UAE; 19BR002452; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Apr-2019	10-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Moleque, a male crossbred cat of 3 years old and 3.5 kg, received FRONTLINE SPOT-ON CAT (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by a retail shop staff member on 10 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with K-Othrine®. Similar cases reported on 19BR002226 and 19BR002453. No further information is available.
16-Apr-2019	UAE; 19BR002453; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Apr-2019	10-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zé, a male crossbred cat of 10 years old and 7 kg, received FRONTLINE SPOT-ON CAT (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by a retail shop staff member on 10 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with K-Othrine®. Similar cases reported on 19BR002226 and 19BR002452. No further information is available.
30-Apr-2019	UAE; 19BR002459; SC; Brazil	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2019	02-May-2019*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment received FRONTLINE PLUS (FL) (unsubstantiated) (lot and exp date are unknwon, topical, btw the shoulder blades), applied by the reporter on 15 Apr 2019, for flea treatment. Lack of efficacy is suspected because fleas have been found since 30 Apr 2019. This is the extent of the information available. UPDATE 3 MAY 2019 - Baruk, a male Staffordshire of 30 kg and unknown age, was treated with one vial of FRONTLINE PLUS DOG L (FL), applied topically at the base of the neck in front of the shoulder blades. The owner believes that the number of fleas on his dog has increased. Environment not treated. FL was applied around 2 years ago (2017*) and the same issue had happened. No further information is available.
29-Apr-2019	UAE; 19BR002460; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg)	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products**	01-Jan-2018*	20-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Amiguinho, a male small crossbred dog of 9 kg, received FRONTLINE SPOT-ON DOGS S (014/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on

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		Sex: M **Sex qualifier:** Unknown **Age:** - **Weight:** 9 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					20 Apr 2019 for flea and tick treatment. Lack of efficacy is suspected because the pet remains with fleas and ticks. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox® and K-Othrine®. No further information is available.
30-Apr-2019	UAE; 19BR002466; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	13-Apr-2019*	30-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female kitten of unknown signalment received FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified. The owner believes that FL was not effective. This is the extent of the information available. UPDATE 5 MAY 2019 - Gatuna, a female mixed breed cat of 3 months old and unknown weight, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (topical, neck), applied by the reporter around 20 days ago (13 Apr 2019 - estimated date), for flea treatment. Environment not treated. No further information is expected.
02-May-2019	UAE; 19BR002470; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	02-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Biriba, a male small crossbred dog of 2 years old and 10 kg, was treated with one vial of FRONTLINE SPOT-ON DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter one week ago (25 Apr 2019), for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Environment treated with Butox®. FL was applied in the beginning of January with no issue (1 Jan 2019 - estimated date) and it was also applied last year (1 Jan 2018 - chosen at random). There is 1 dog of the same household that was also treated with FL, but with no issue. Similar case reported on 19BR002471. No further information is expected. UPDATE 3 May 2019 – The pet owner contacted BI and reported that the dog of the same household that also received FL and was not presenting ectoparasites is also infested, so a new case was created on 19BR002525. No further information is available.
02-May-2019	UAE; 19BR002471; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 16 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	02-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bart, a male medium crossbred dog of 5 years old and 16 kg, was treated with one vial of FRONTLINE SPOT-ON DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter one week ago (25 Apr 2019), for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Environment treated with Butox®. FL was applied in the beginning of January (1 Jan 2019 - estimated date). There is 1 dog of the same household that was also treated with FL, but with no issue. Similar case reported on 19BR002471. No further information is expected. UPDATE 3 May 2019 – The pet owner contacted BI and reported that the dog of the same household that also received FL and was not presenting ectoparasites is also infested, so a new case was created on 19BR002525. No further information is available.
02-May-2019	UAE; 19BR002479; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	18-Apr-2019*	02-May-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Max, a male large crossbred dog of 12 years old and 24 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 2 weeks ago (18

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		Sex qualifier: Unknown **Age:** 12.00 Year(s) **Weight:** 24 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Apr 2019 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. No further information is expected.
02-May-2019	UAE; 19BR002484; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 5.4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Apr-2019	22-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female crossbred cat of 7 years old and 5.4 kg, received FRONTLINE PLUS CATS (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 22 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. No further information is available.
02-May-2019	UAE; 19BR002486; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	02-May-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Astor, a male medium crossbred dog of 8 years old and 12 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 26 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL is applied only when the pet has fleas. No further information is available.
30-Apr-2019	UAE; 19BR002496; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2019*	20-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 3 cats of unknown signalment received FRONTLINE PLUS CATS (FL) (lot, exp date, route and application site unknown), administered on date not informed (20 Apr 2019 - chosen at random) for flea treatment. Lack of efficacy is suspected because the pets remain with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2019 chosen at random). The environment has been treated with unknown product. This is the extent of the information available.
03-May-2019	UAE; 19BR002500; MG; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	10-Apr-2019*	03-May-2019*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toco Soneca, a male Pinscher of 6 months old and 1.5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, base of skull and btw the shoulder blades), applied by the reporter on date not specified (10 Apr 2019 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The owner believes that the number of fleas has increased. Environment not treated. In addition, the pet is not eating and is not drinking because he scratching himself a lot due to flea

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						ok?: Yes					infestation. No further information is expected.
03-May-2019	UAE; 19BR002512; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 5.8 kg	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Apr-2019	03-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jade, a female crossbred dog of 3 months old and 5.8 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 4 Apr 2019 for ectoparasite prevention. Lack of efficacy is suspected because live fleas are seen on the pet. There is 1 dog of the same household that has been also treated. Environment treated with K-Othrine®. No further information is available.
06-May-2019	UAE; 19BR002513; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Apr-2019	22-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bastião, a male small crossbred dog of 4 years old and 5 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 22 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used once in the past with no issue (22 Dec 2018 - estimated date). This dog has outdoor access. The environment has not been treated. No further information is available.
06-May-2019	UAE; 19BR002516; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Apr-2019	06-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tinha, a female medium crossbred dog of 14 years old and 14 kg, was treated with FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 29 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 4 months since date not specified (1 Jan 2015 - chosen at random). The pet has daily outdoor access. No further information is expected.
05-May-2019	UAE; 19BR002522; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 5 - 8.3 kg	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Apr-2019*	05-May-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats of unknown signalment, received FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 May 2019 - chosen at random), for flea treatment. The owner believes that FL is not working because the number of fleas has increased. This is the extent of the information available. UPDATE 13 MAY 2019 - Three mixed breed cats (Vaca, female, 18 months old and 5 kg; Helinho, male 10 years old and 8.3 kg; Maiô, female, 6 years old and 5 kg) were treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (topical, btw the shoulder blades), applied by the reporter around 15 days (28 Apr 2019 - estimated date). The animals remain with fleas. Environment not treated. No further information is expected.

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03-May-2019	UAE; 19BR002523; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Apr-2019	03-May-2019*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rex, a male crossbred dog of 11 years old and 13 kg, received one pipette of FRONTLINE PLUS DOGS M (FL) (005/18A, exp date is unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 24 Apr 2019 for ectoparasite control. Lack of efficacy is suspected because live fleas are seen on the pet. Environment treated with an unknown product. No further information is available.
03-May-2019	UAE; 19BR002525; RJ; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Apr-2019*	03-May-2019*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a female dog of unknown signalment received one pipette of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 25 Apr 2019 (estimated date) for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks . It is unknown if FL has been applied in the past. Environment weekly treated with Butox®. Similar cases reported on 19BR002470 and 19BR002471. No further information is available.
05-May-2019	UAE; 19BR002526; RJ; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	05-May-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment received FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 May 2019 - chosen at random). The owner believes that FL is not working. Details are unknown. This is the extent of the information available.
07-May-2019	UAE; 19BR002531; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3.7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-Apr-2019	17-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mileide Maria, a female small crossbred dog of 8 years old and 3.7 kg, received FRONTLINE SPOT-ON DOGS S (014/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 17 Apr 2019 for flea treatment. Another application of FL was made on 24 Apr 2019. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided). The environment has not been treated. Similar case reported on 19BR002532. No further information is available.
07-May-2019	UAE; 19BR002532; SP; Brazil	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT ON CAT	17-Apr-2019	17-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Simon, a male crossbred cat of 6 years old and 4.6 kg, received FRONTLINE SPOT-ON CAT (023/17A, exp date unknown, topical,

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		mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 4.6 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					btw the shoulder blades), administered by the reporter on 17 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided). The environment has not been treated. Similar case reported on 19BR002531. No further information is available.
07-May-2019	UAE; 19BR002534; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2019	02-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Teodora, a female Pomeranian of 2 years old and 5 kg, received FRONTLINE PLUS DOG S (011/18A, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 2 May 2019 for flea treatment. Lack of efficacy is suspected because Teodora remains with fleas and continues to itch and lick herself due to the flea infestation. The environment has not been treated. No further information is available.
07-May-2019	UAE; 19BR002540; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	07-May-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Milu, a female Siamese of 3 months old and unknown weight, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 1 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. Theres is one more cat in this household that was treated with FL and it has no issue . No further information is expected.
06-May-2019	UAE; 19BR002549; RS; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.90 Year(s) **Weight:** 24 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Apr-2019	02-May-2019*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zeus, a male crossbred dog of 1.9 years old and 24 kg, received one pipette of FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 20 Apr 2019 for flea treatment. Lack of efficacy is suspected because since 2 May 2019 the pet owner returned to visualize live fleas on Zeus. FL has been applied in the past with no issue (dose frequency approximately every 45 days) since 20 Apr 2018 (chosen at random). Environment treated once a week with K-Othrine®. No further information is available. UPDATE 9 MAY 2019 - In addition, the pet is scratching himself due to fleas. No further information is available. UPDATE 13 MAY 2019 - Zeus has no outdoor access and he has no contact with other animals. No further information is available.
08-May-2019	UAE; 19BR002555; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	02-May-2019	02-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Babalu, a female Pinscher of 10 years old and 15 kg, received FRONTLINE PLUS DOG M (028/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 2 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided). The environment has been treated with Butox®. Similar case reported on 19BR002556. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Cutaneous **Was the product used ok?:** Yes					
08-May-2019	UAE; 19BR002556; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2019	02-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bolotas, a male Pit Bull of 8 years old and 30 kg, received FRONTLINE PLUS DOG L (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 2 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided). The environment has been treated with Butox®. Similar case reported on 19BR002555. No further information is available.
08-May-2019	UAE; 19BR002558; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 4 - 6.120 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-May-2019	04-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 2 female crossbred cats of 10 years old and 4 to 6.120 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 4 May 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with fleas . The cats do not have outdoor access. There is an untreated dog living in this household. The environment has not been treated. No further information is available.
06-May-2019	UAE; 19BR002559; SP; Brazil	**Species:** Canine **Breed:** Chowchow **Sex:** X **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 20 - 30 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	27-Apr-2019	29-Apr-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 2 dogs (Kiara, a female Chow Chow of 2.5 years old and 20 kg; and Marley, a male Chow Chow of 4 years old and 20 kg), were treated, for the first time, with one vial of FRONTLINE PLUS DOG XL (FL) (unknown lot, expiry date is Jun 2019, topical, btw the shoulder blades, overdose), applied, on each dog, by the reporter on 27 Apr 2019, for flea/ tick prevention. Lack of efficacy is suspected because the dogs has fleas. Environment not treated. No further information is expected.
06-May-2019	UAE; 19BR002561; RJ; Brazil	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL SPRAY; **Route:** Topical / Cutaneous **Was the product used**	01-Apr-2019*	06-May-2019*	5 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment was treated with one vial of FRONTLINE (FL) (unsubstantiated - unknown if it was TopSpot or Plus) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Apr 2019 - chosen at random), for flea treatment. According to the owner, the product was not effective and he also applied FL SPRAY on his dog , but he continues to see fleas on his pet. FL 'pipette' was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 - chosen at random).. This is the extent of the information available. UPDATE 14 MAY 2019 - Rodolfo, a male Brazilian Terrier of 6 years old and 2.5 kg, received one vial of FRONTLINE PLUS DOG S (FL) (topical, btw

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					the shoulder blades), applied by the reporter on date not specified (1 Apr 2019 - chosen at random), for flea treatment. The pet remained with fleas. So, one week later, she applied FL SPRAY, but her pet still is infested by fleas. Environment treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 - chosen at random). The owner reported that her other dog is also presenting a similar issue (see case 19BR002655). No further information is available.
07-May-2019	UAE; 19BR002562; MG; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019	07-May-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of dogs of unknown signalment received FRONTLINE 'pippete' (FL) (unsubstantiated - unknown if it was TopSpot or Plus) (lot, exp date, route and location are unknown), applied by the reporter on 6 May 2019, for flea treatment. The animals remain with fleas. Environment treated with deltamethrin. This is the extent of the information available. UPDATE 9 MAY 2019 - Plutão, a male medium crossbred dog of 6 years old and 20 kg, received, for the first time, FRONTLINE PLUS DOG M (FL) (014/18A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 6 May 2019, for flea treatment. The pet remains with fleas. So, one day later, the owner applied another vial of FRONTLINE PLUS DOG S (low dose) and she still sees fleas on her pet. In addition, Plutão has flea allergy dermatitis. Environment treated with Butox®. Flea infestation 6 months prior to FL. There are 4 more untreated dogs in this household. No further information is expected.
08-May-2019	UAE; 19BR002565; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Apr-2019	08-May-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bruno, a male Shih Tzu of 3 years old and 6 kg, was treated for the second time, with one vial of FRONTLINE PLUS DOG S (FL) (011/18B, unknown exp date, topical, btw the shoulder blades), applied by the reporter 20 days ago (18 Apr 2019), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL was applied for the first time 8 months ago (approximately Sep 2018). No further information is expected.
24-Apr-2019	UAE; 19BR002566; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL SPOT ON DOG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2019	24-Apr-2019*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chocolate, a male Shih Tzu of 11 months old and 7 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 15 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. One pippete of FRONTLINE SPOT-ON DOGS S (FL SPOT-ON) (lot and exp date are unknown, topical, btw the shoulder blades) has been applied in the past, for the first time, administered by the reporter on 25 Feb 2019 (estimated date) for flea treatment and the same issue occurred. Environment treated with an unknown product. No further information is available.
08-May-2019	UAE; 19BR002568;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT	03-May-2019	08-May-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tom, a male mixed breed cat of 7 months old and 4 kg, was

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	SP; Brazil	(unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 4 kg				ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
09-May-2019	UAE; 19BR002592; MG; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 2 - 2.5 kg	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2019	09-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 4 mixed Domestic Shorthair cats (crossbred) of around 7 months to 3 years old and 2 to 2.5 kg, received one pipette of FRONTLINE PLUS CATS (FL) (005/18A, Feb 2020, topical, btw the shoulder blades) each, for the first time, administered by the reporter on 2 May 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas. Ectoparasite infestation was seen for 1 month prior to product administration. Environment treated with K-Othrine®. Similar case reported on 19BR002593. No further information is available.
09-May-2019	UAE; 19BR002593; MG; Brazil	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 2.000 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2019	09-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kitica, a female Chihuahua of 16 years old and 2 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 2 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 1 month prior to product administration. Environment treated with K-Othrine®. Similar case reported on 19BR002592. No further information is available.
08-May-2019	UAE; 19BR002596; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 5.5 - 9.5 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019*	08-May-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via another family's member, Cindy, a female crossbred dog of 8 years old and around 9.5 kg and Hanna, a female crossbred dog of 10 years old and around 5.5 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) each, administered by the pet owner on 23 Apr 2019 (estimated date) for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas . Ectoparasite infestation was seen for 1 day prior to product application. FL has been applied in the past with no issue (dose frequency every 2 months) since 23 Apr 2017 (chosen at random). Environment not treated. Similar case reported on 19BR002597. No further information is available.
08-May-2019	UAE; 19BR002597; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	23-Apr-2019*	08-May-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via another family's member, Theo, a male crossbred dog of 1 year old and 20 kg, received one pipette of FRONTLINE PLUS DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the pet owner on 23 May 2019 (estimated date) for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 1

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		Age: 1.00 Year(s) **Weight:** 20 kg*				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					day prior to product application. FL has been applied in the past with no issue (dose frequency every 2 months) since 23 Jul 2018 (chosen at random). Environment not treated. Similar case reported on 19BR002596. No further information is available.
09-May-2019	UAE; 19BR002600; SP; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	08-May-2019	5 Week(s) 2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a male dog of unknown signalment and a female dog of 14 years old (other signalment is unknown) received FRONTLINE 'pipette' (FL) (unsubstantiated - unknown if it was TopSpot or Plus) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Apr 2019 - chosen at random), for flea treatment. On 8 May 2019, the owner noticed that her male dog was scratching itself, presenting redenning of the skin and skin lesion (the pet has flea allergy dermatitis). So, flea dirt and 1 flea was found on this dog. In addition, it has flea allergy dermatitis. She also noticed that her female dog was presenting 2 ticks. FL was applied in the past, but the dose frequency is unknown. This is the extent of the information available.
09-May-2019	UAE; 19BR002603; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 1 - 5 kg	11	11	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Apr-2019	27-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 11 cats of 3 months to 3 years old and 1 to approximately 5 kg (estimated weight), received FRONTLINE PLUS CATS (FL) (1 vial - 005/18A, exp date unknown / 10 vials - lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 27 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with fleas. The environment has been treated with Butox® and neem oil. No further information is available.
10-May-2019	UAE; 19BR002612; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 37 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Apr-2019	27-Apr-2019	2 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Tiazinha, a female crossbred dog of 1.5 years old and approximately 37 kg, received one pipette of FRONTLINE PLUS DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 25 Apr 2019 for an unknown reason. Prior to / at the moment of product administration the dog was in good health. On 27 Apr 2019 Tiazinha presented with a lesion at the application site, which became 'necrotic' over the course of days. An unknown spray for skin healing was applied without success, so the pet was taken to the DVM and Vetaglós and 2 other unknown products were prescribed. Currently, the reported signs persist and the pet remains under treatment. According to the pet owner, the DVM attributed these signs to FL use. There is no history of AEs to other products in the past. There are 2 dogs of the same household that also received FL, but with no issue. Similar case reported on 19BR002613. No further information is available. UPDATE 13 May 2019 – The DVM was contacted and reported that on physical examination performed on 4 May 2019 Tiazinha was presenting with acute moist dermatitis, 'skin detachment', erythema and purulent discharge between her shoulder blades. A CBC test was perfomed on the same date which showed anaemia, leukopenia and Dohle corpuscles. For treatment, the skin lesion was cleaned with an unknown product and cephalexin, prednisone and dipyrone were prescribed. The

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											DVM attributes the reported signs to FL. No further information is expected. UPDATE 28 MAY 2019 - The pet owner informed that FL was used for tick treatment. She suspended the initial treatment precribed by the veterinarian and has been treating Tiazinha with Regepil®. The lesion is slowly regressing. No further information is expected.
10-May-2019	UAE; 19BR002613; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.60 Year(s) **Weight:** 37 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Apr-2019	27-Apr-2019*	2 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Tchuru, a male crossbred dog of 1.6 years old and approximately 37 kg, received one pipette of FRONTLINE PLUS DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 25 Apr 2019 for an unknown reason. Prior to / at the moment of product administration the dog was in good health. On date not specified (27 Apr 2019 – chosen at random), Tchuru presented with a small lesion at the application site. An unknown spray for skin healing was applied and the dog recovered on date not specified (30 Apr 2019 – chosen at random). The DVM was not contacted. There is no history of AEs to other products in the past. There are 2 dogs of the same household that also received FL, but with no issue. Similar case reported on 19BR002612. No further information is available.
13-May-2019	UAE; 19BR002621; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019	08-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Alvim, a male mixed breed cat of 1 year old and 4 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 8 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected. UPDATE 25 JUN 2019 – The pet owner informed that Alvim was treated with Revolution® on date not specified (1 Jun 2019*) and has no more fleas. No further information is expected.
13-May-2019	UAE; 19BR002627; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-May-2019	11-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male large crossbred dog of 3 years old and 35 kg, received FRONTLINE PLUS DOG L (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 May 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided). The environment has been treated with Butox®. Similar case reported on 19BR002628. No further information is available.
13-May-2019	UAE; 19BR002628; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	11-May-2019	11-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Princesa, a female medium crossbred dog of 5 years old and 15 kg, received FRONTLINE PLUS DOG M (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 May 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided). The environment has been treated with Butox®. Similar case reported on 19BR002627. No

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						Cutaneous **Was the product used ok?:** Yes					further information is available.
10-May-2019	UAE; 19BR002629; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 22 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Mar-2019	16-Apr-2019	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Duque, a male Cocker of 9 years old and around 22 kg, received, for the first time, one vial of FRONTLINE SPOT-ON DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Mar 2019, for flea treatment. Lack of efficacy is suspected because fleas have been found on her dog since 16 Apr 2019. Environment treated with deltamethrin. The pet has outdoor access. No further information is expected.
10-May-2019	UAE; 19BR002631; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 - 3.5 kg	5	5	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Apr-2019	24-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 5 cats of unknown signalment received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered on 24 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with fleas. The cats do not have outdoor access. This is the extent of the information available. UPDATE 15 MAY 2019 - The reporter was contacted and reported that her 5 cats (Junior, male, mixed breed, 8 years old and 3.5 kg; Feline, female, mixed breed, 15 years old and 3 kg; Mel, female, mixed breed, 10 years old and 3.5 kg; Obama, male, mixed breed, 5 years old and 3.5 kg; Tere, Siamese, 3 years old and 3 kg), received one vial of FL (topical, btw the shoulder blades) applied to each one by the reporter on the date reported above. The animals remain with fleas. Environment treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided). No further information is expected.
13-May-2019	UAE; 19BR002638; MG; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	19-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jack, a male Poodle of 10 years old and 5 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 19 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue approximately 8 years ago (2011*). The environment has not been treated. No further information is available.
12-May-2019	UAE; 19BR002648; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	10-May-2019	10-May-2019	One hour	D-D	Suspected Adverse Event: As reported by the pet owner, Toy, a male Shih Tzu of 1.5 years old and 6 kg, received one pipette of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 10 May 2019 for flea treatment. Prior to / at the moment of product administration the pet was in good health. One hour after product administration, Toy started to present with nausea, hypersalivation and trembling, so he was immediately taken to the vet clinic and, according to the reporter, the attending DVM attributed the reported signs to an intoxication caused by FL.

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						Was the product used ok?: Yes					Tachypnea and tachycardia were detected on physical examination and the dog also vomited. Twenty minutes after being bathed and receiving corticosteroid Toy got partially better and then an unknown treatment was administered because the trembling was still ongoing. On 11 May 2019 the reported signs stopped, however lethargy was seen until 12 May 2019. Also on 12 May 2019 by night Toy recovered from the lethargy, however the owner noticed a lesion at FL application site, which is still ongoing, and also attributes this finding to the product administration. There is no history of AEs to other products in the past. No further information is available. UPDATE 16 MAY 2019 - According to the other vet, Toy was taken to his clinic because an ultrasonography would be performed (details not provided) and the vet saw the application site lesion. So, he had recommended the application of Nebacetin® and that FL should not be applied anymore. No further information is known.
14-May-2019	UAE; 19BR002654; SP; Brazil	**Species:** Canine **Breed:** Bull Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-May-2019	14-May-2019*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pirion, a male Bull Terrier of 6 months old and 11 kg, received one pipette of FRONTLINE SPOT-ON DOGS M (FL) (024/17A, Nov 2019, topical, btw the shoulder blades) for the first time, administered by the reporter on 4 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 7 days prior to product application. Environment not treated. No further information is available. UPDATE 7 JUN 2019 - According to the owner, the environment has been treated with a specific product against fleas. However, the number of fleas has increased on his dog. No further informaiton is expected.
14-May-2019	UAE; 19BR002655; RJ; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	13-May-2019	6 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rush, a male German Shepherd Dog of 5 years old and 30 kg, was treated with one vial of FRONTLINE PLUS (unsubstantiated) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (10 Apr 2019 - chosen at random), for flea treatment. Lack of efficacy is suspected because the dog remains with fleas. Environment treated with an unknown product. FL has been applied every 6 months since date not specified. Similar case reported on 19BR002561. No further information is expected.
14-May-2019	UAE; 19BR002657; SP; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** 1.10 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019	12-May-2019	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pidopa, a male French Bulldog of 1.1 years old and 9 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 23 Apr 2019 for flea treatment. Lack of efficacy is suspected because on 12 May 2019 the reporter returned to see live fleas on the pet. So, on 13 May 2019 (estimated date), Nexgard® was administered and currently Pidopa is no longer presenting ectoparasites. The dog is usually bathed once a week. Environment treated with an unknown product. No further information is available.

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14-May-2019	UAE; 19BR002659; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2 - 3.5 kg	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2019*	10-May-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 3 mixed Domestic Shorthair cats (crossbred) of 2 to 5 years old and approximately 2 to 3.5 kg, were all treated with FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 5 May 2019 (estimated date) for flea treatment. Lack of efficacy is suspected because live fleas were still being seen on the pets, so an unknown product was administered and since date not informed (12 May 2019 – estimated date) they no longer present ectoparasites. Environment not treated. No further information is available.
14-May-2019	UAE; 19BR002666; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2 - 6 kg	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-May-2019	14-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 3 mixed Domestic Shorthair cats (crossbred) of 1 to 9 years old and 2 to 6 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) each, administered by the reporter on 13 May 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas. Ectoparasite infestation was seen for 2 months prior to product administration. FL has been applied in the past with no issue (dose frequency every 2 months) since 13 Jul 2018 (chosen at random). Environment not treated. No further information is available.
15-May-2019	UAE; 19BR002668; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** X **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 3.6 - 4 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2019	15-May-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two Yorkies (Billy, male, 8 years old and 4 kg; Pit, female, 5 years old and 3.6 kg) were treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and epx date are unknown, topical, btw the shoulder blades), applied to each one by the reporter on 5 May 2019, for flea treatment. Lack of efficacy is suspected because the dogs remains with fleas. Environment treated with deltamethrin. FL has been applied twice a year with no issue since date not specified (1 Jan 2017 - chosen at random). No further information is expected.
16-May-2019	UAE; 19BR002673; SC; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Apr-2019	08-May-2019*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Portos, a male French Bulldog of 11 years old and 14 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 16 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL has been applied every 30 - 45 days since date not specified. The dog have access to grass. Similar cases reported on 19BR002674 and 19BR002675. No further information is expected.
16-May-2019	UAE; 19BR002674; SC; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	16-Apr-2019	08-May-2019*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Virginia, a female mixed breed cat of 14 years old and 4.5 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 16 Apr 2019, for flea treatment. Lack of efficacy is

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		Sex: F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 4.5 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					suspected because the pet remains with fleas. Environment treated with deltamethrin. FL has been applied every 30 - 45 days since date not specified. Similar cases reported on 19BR002673 and 19BR002675. No further information is expected.
16-May-2019	UAE; 19BR002675; SC; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 8 - 9 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Apr-2019	08-May-2019	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two male dogs (Manga, Lhasa Apso, 9 years old and 9 kg; Jeremias, 9 years old and 8 kg), were treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied to each one by the reporter on 16 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL has been applied every 30 - 45 days since date not specified. Similar cases reported on 19BR002673 and 19BR002674. No further information is expected.
16-May-2019	UAE; 19BR002683; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-May-2019	16-May-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bolt, a male large crossbred dog of 1 year old and 23 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG L (FL) (003/18A, Jan 2020, topical, btw the shoulder blades), applied by the reporter on 12 May 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment treated with Butox®. No further information is expected.
16-May-2019	UAE; 19BR002687; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-May-2019	14-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Caleb, a male Pomeranian of 1.5 years old and 3 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 14 May 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. The environment has not been treated. No further information is available.
16-May-2019	UAE; 19BR002689; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	12-May-2019	12-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Camili, a female Shih Tzu of 1 year old and 6 kg, received FRONTLINE PLUS DOG S (034/17B, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 12 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This dog has outdoor access. The environment has been treated with unknown product. No further information is available.

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					
15-May-2019	UAE; 19BR002698; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 24 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Mar-2019	15-May-2019	7 Week(s) 6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Olivia, a female large crossbred dog of 12 years old and 24 kg, received FRONTLINE PLUS DOG L (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 21 Mar 2019 for flea treatment. Lack of efficacy is suspected because she found one flea on her pet on 15 May 2019. FL was used once in the past with no issue (date not informed). This dog has outdoor access. The environment has not been treated. No further information is available.
17-May-2019	UAE; 19BR002715; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2019	17-May-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tody, a male Shih Tzu of 8 months old and 7 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 15 May 2019 for flea treatment. Lack of efficacy is suspected because Tody remains with live fleas. Ectoparasite infestation was seen for 1 month prior to product administration. Environment not treated. No further information is available.
16-May-2019	UAE; 19BR002719; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	01-Jan-2018*	some hours after application	D-D	Suspected Adverse Event: As reported by the pet owner (who is also a vet) via BI employee, her Pomeranian (other signalment is unknown) received FRONTLINE SPOT-ON (FL) (unsubstantiated) (lot and exp date are unknown, topical, unknown location), applied by the reporter last year (2018*). Some hours after product application, the pet presented with intense pruritus and application site erythema. The dog had been bathed, but the pruritus was still ongoing. Corticosteroid was administered and the pet has recovered 1 week later. The pet also has history of allergic signs with Advocate®. There is one more dog in this household that was treated with FL and it had no issue. No further information is expected.
16-May-2019	UAE; 19BR002725; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 0.8 - 1.3 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Vermicide; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Apr-2019	16-May-2019*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 2 kittens of unknown signalment received one pipette of FRONTLINE SPOT-ON CATS (FL) (lot, exp date, route and location are unknown) each, for the first time, administered by the reporter on 29 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas. A vermicide was given to the 2 cats on the same date of FL application. This is the extent of the information available for now. UPDATE 21 MAY 2019 - Nina, a female mixed breed cat of 3 months and 0.8 kg; and Elsa, a female mixed breed of 4 months old and 1.3 kg, were treated with FL (topical, btw the shoulder blades). The animals remain with fleas. Environment not treated. No further information is expected.

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19-May-2019	UAE; 19BR002728; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 3.5 - 4 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-May-2019	18-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two cats (Lana, female, Persian of 14 years old and 4 kg; Any, female mixed breed cat of 18 months old and 3.5 kg), was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 12 May 2019, for flea treatment. Lack of efficacy is suspected because the animals remain with fleas. Environment not treated. There is a dog in this household that was not treated with FL. No further information is expected.
20-May-2019	UAE; 19BR002734; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 42 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	20-May-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Agnar, a male Pit Bull of 18 months old and 42 kg, was treated with FRONTLINE SPOT-ON DOG XL (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Apr 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 2 months since date not specified (1 Jan 2018 - chosen at random). No further information is expected.
20-May-2019	UAE; 19BR002742; RJ; Brazil	**Species:** Canine **Breed:** Akita **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-May-2019	20-May-2019*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maya, a female Akita of 2 months old and 5 kg, was treated, for the first time, one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 16 May 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. No further information is expected.
17-May-2019	UAE; 19BR002744; SP; Brazil	**Species:** Canine **Breed:** Pug **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 9.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	01-Jan-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jhully, a female Pug of 5 years old and 9.5 kg received FRONTLINE (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not informed (1 Jan 2018 – chosen at random). Lack of efficacy is suspected. Related case reported on 19BR002743. This is the extent of the information available.
20-May-2019	UAE; 19BR002749; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	04-May-2019	20-May-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female Cocker Spaniel (other signalment is unknown) received FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 May 2019 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with a specific product against fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided). No further

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					information is available. UPDATE 24 MAY 2019 - Jhuly, a female Cocker Spaniel of 14 years old and 15 kg, was treated with one vial of FL PLUS DOG M (028/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 4 May 2019. The pet remains with fleas. In addition, the pet has flea allergy dermatitis. Environment treated with deltamethrin. FL has been applied monthly since date not specfiied. No further information is expected.
21-May-2019	UAE; 19BR002751; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2019	15-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rebeca, a female crossbred cat of 11 years old and 7 kg, received FRONTLINE PLUS CATS (008/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 15 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. There is an outside cat that has access to this household. The environment has not been treated. No further information is available.
20-May-2019	UAE; 19BR002753; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 3.6 kg	2	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Apr-2019*	25-Apr-2019*	5 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Thor, a male mixed breed cat of 18 months old and 3.6 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 20 Apr 2019, for flea control. The pet was in good health prior to FL and has no history of adverse reactions. On date not specified, the owner noticed that her cat was presenting application site reddening and alopecia. The pet was taken to the vet and an ointment was recommended. The pet is showing some improvement. There is another cat in this household that was treated with FL and it has no issue . No further information is available.
21-May-2019	UAE; 19BR002759; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-May-2019	21-May-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Boris Nicolai, a male Persian of 15 years old and 5.5. kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 18 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. No further information is expected.
20-May-2019	UAE; 19BR002762; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 4 - 6 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	15-Apr-2019	21-May-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 2 cats (one weights 4 kg and the other one weights 6 kg - other signalment is unknown) received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied to each one by the reporter on date not specified (1 May 2019 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available. UPDATE 22 May 2019 – The pet owner was contacted and reported that 2 mixed Domestic Shorthair cats

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						Cutaneous **Was the product used ok?:** Yes					(crossbred) of 2.5 and 8 years old, 4 and 6 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) each, both administered on 15 Apr 2019. Currently, the cats are still infested with fleas. FL has been applied only once in the past, on Sep 2019 (date not informed), with no issue. Environment not treated. No further information is available.
22-May-2019	UAE; 19BR002772; SP; Brazil	**Species:** Canine **Breed:** Large Munsterlander **Sex:** X **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 33 - 35 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	13-May-2019	22-May-2019	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 2 large crossbred dogs (Pity, female, 13 years old and 35 kg; Negão, male, 12 years old and 33 kg), received one vial of FRONTLINE PLUS DOG XL (FL) (032/17, unknown exp date, topical, tail - incorrect application), applied by the reporter on 13 May 2019, for flea control. Lack of efficacy is suspected because the animals remain with fleas. The dogs have no outdoor access. Environment not treated. FL has been applied every 2 months since date not specified (1 Jan 2018 - chosen at random). No further information is expected.
22-May-2019	UAE; 19BR002774; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Ursacol 50 mg; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-May-2019	22-May-2019	N/A	D-D	Suspected Adverse Event: As reported by the pet owner, Mimi, a male crossbred cat of 12 years old and 7 kg, received FRONTLINE PLUS CATS (FL) (001/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 21 May 2019 for lice control. Adverse event was suspected because around 17 hours after product administration the animal experienced vomiting and pasty feces. Signals are still ongoing. Mimi was hospitalizated one week prior to the administration, was discharged on 20 May 2019 and at that moment the clinical suspected was intestinal inflamation since ultrasonography showed hepatomegaly, chronic nephropathy, cholecystitis, splenomegaly, chronic gastritis and thickening of the colon. The cat has been treated regularly with FL with no issue (dose frequency is unknown and date of first administration was not provided – 1 Jan 2019 – chosen at random). Ursacol 50 mg was also administered on the same date. No further information is available.
22-May-2019	UAE; 19BR002775; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 1.5 - 3.5 kg	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-May-2019	16-May-2019	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 3 mixed Domestic Shorthair (crossbred) cats of 3 months to 5 years old and approximately 1.5 to 3.5 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) each, for the first time, administered by the reporter on 11 May 2019 for flea treatment. Lack of efficacy is suspected because since 16 May 2019 the pet owner returned to visualize live fleas on the cats. Ectoparasite infestation was seen for 1 week prior to product administration. Environment not treated. No further information is available.
22-May-2019	UAE; 19BR002776;	**Species:** Canine **Breed:** Yorkshire	1	1	0	**Product used:** FIPRONIL	02-Apr-2019	22-May-2019*	7 Week(s) 1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Xodó, a male Yorkshire Terrier of approximately 3 years old and 5

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	SP; Brazil	Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 2 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 1 months prior to product administration. FL has been applied in the past with no issue (dose frequency every 3 months) since date not informed. The dog use to be bathed once a week. Environment treated with Butox®. No further information is available.
20-May-2019	UAE; 19BR002777; SP; Brazil	**Species:** Canine **Breed:** Fila Brasiliera **Sex:** F **Sex qualifier:** Unknown **Age:** 70.00 Day(s) **Weight:** 4.7 - 5 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-May-2019	20-May-2019*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 2 female Fila Brasileiro puppies of 70 days old and 4.7 to 5 kg received 1 dose of FRONTLINE PIPETTE S (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades) each, for the first time, administered by the reporter on 7 May 2019 for flea and tick prevention. Lack of efficacy is suspected because the pets got fleas after product administration. There are 4 other dogs treated with Bravecto® and Comfortis® with no fleas living in this household. The environment has been treated with unknown product. No further information is available.
20-May-2019	UAE; 19BR002788; -; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2 - 3 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Apr-2019	20-May-2019*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 2 mixed Domestic Shorthair cats (crossbred) of approximately 3 and 5.5 years old, 2 and 3 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) each, administered by the reporter on 29 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas. Ectoparasite infestation was seen for 2 weeks prior to product administration. FL has been applied in the past with no issue (dose frequency is unknown) since date not provided. Environment not treated. No further information is available.
23-May-2019	UAE; 19BR002790; RJ; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 4.5 - 8 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-May-2019	23-May-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 2 neutered dogs (Billy Jorge, male, Dachshund, 3 years old and 8 kg; Katy Lucia, female, Pinscher, 5 years old and 4.5 kg), received one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 21 May 2019, for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Environment treated with Butox®. FL has been applied every 75 days old since date not specified (1 Jan 2018 - chosen at random). No further information is expected.
20-May-2019	UAE; 19BR002791; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown	15-May-2019*	20-May-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 2 female cats of unknown signalment (the age of only 1 of the cats was provided – 4 months old) received one pipette of FRONTLINE PLUS CATS (FL) (lot, exp date, route and location are unknown) each, applied by the reporter on 15 May 2019 (estimated date) for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas. There are an unknown number of cats of the same household, however it is unknown if they have been also treated. This is the extent of the information

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						Was the product used ok?: Unknown to Company					available for now.
24-May-2019	UAE; 19BR002821; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2019*	24-May-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, a dog of unknown signalment received FRONTLINE (FL) (unsubstantiated; lot, exp date, route and location are unknown) administered by the reporter on date not informed for an unknown reason. The reporter contacted BIAH because FL was not effective. This is the extent of the information available for now.
27-May-2019	UAE; 19BR002834; MG; Brazil	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 22 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-May-2019	26-May-2019	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Cecilia, a female Border Collie of 1 year old and 22 kg, received one pipette of FRONTLINE PLUS DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 26 May 2019 for tick treatment. Prior to / at the moment of product administration, the dog was in good health. Thirty minutes after FL application, Cecilia 'got nervous' and started to present with intense itching and also with a reddening of the skin. It is unknown if any treatment was provided and her current health status is also not known. FL has been administered in the past with no issue (dose frequency is unknown) since date not informed. There is no history of AEs to other products in the past. There are around 6 dogs and 16 cats of the same household that have not been treated. No further information is available.
27-May-2019	UAE; 19BR002836; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** X **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 3.5 - 10 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-May-2019	27-May-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toby, a male crossbred dog of 9 years old and 10 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 22 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Ectoparasite infestation was seen for 3 months prior to product administration. Environment treated with Triatox®. Similar case reported on 19BR002837. No further information is available. UPDATE 28 MAY 2019 - According to the reporter, there is one more female dog of 3.5 kg in this household that was treated with FL SPOT-ON DOGS S on the same date reported above and it also remains with fleas. No further information is available.
27-May-2019	UAE; 19BR002837; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** X **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 13 kg	3	3	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-May-2019	27-May-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 3 mixed crossbred dogs of 6 to 10 years old and 13 kg, received one pipette of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 22 May 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas. Ectoparasite infestation was seen for 3 months prior to product administration. Environment treated with Triatox®. Similar case reported on 19BR002836. No further information is available.

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28-May-2019	UAE; 19BR002841; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2019*	15-Jan-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment received FRONTLINE (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Jan 2019 - chosen at random). The owner believes that FL is not effective. This is the extent of the information available.
27-May-2019	UAE; 19BR002842; RJ; Brazil	**Species:** Canine **Breed:** Cane Corso **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-May-2019	27-May-2019*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female dog of unknown signalment received FRONTLINE (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 May 2019 - chosen at random), for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks . This is the extent of the information available.
28-May-2019	UAE; 19BR002852; MG; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Apr-2019	25-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fred, a male Shih Tzu of 3 years old and 5.5 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 25 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided). The environment has not been treated. No further information is available.
27-May-2019	UAE; 19BR002853; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 2 - 3 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2019*	05-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 2 crossbred cats of 7 months old and 2 to 3 kg, received FRONTLINE SPOT-ON CAT (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on date not specified (5 May 2019 - estimated date) for flea treatment. Lack of efficacy is suspected because the pets remain with fleas. The environment has been treated with K-Othrine®. Similar case reported on 19BR002854. No further information is available.
27-May-2019	UAE; 19BR002854; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:**	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products	05-May-2019*	05-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 2 female crossbred cats of 4 to 7 years old and 4 to 4.5 kg, received FRONTLINE SPOT-ON CAT (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (5 May 2019 - estimated date) for flea treatment. Lack of efficacy is suspected because the pets remain with fleas .

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** 4.00 Year(s) **Weight:** 4 - 4.5 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					FL was used once in the past with no issue (Feb 2019). The environment has been treated with K-Othrine®. Similar case reported on 19BR002853. No further information is available.
29-May-2019	UAE; 19BR002861; SP; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 40 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-May-2019	29-May-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female Labrador of 4 years old and 40 kg, was treated, for the first time, with one dose of FRONTLINE PLUS DOG XL (FL) (032/17C, Aug 2019, topical, btw the shoulder blades), applied by the reporter on 23 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. Similar case reported on 19BR002862. No further information is expected.
29-May-2019	UAE; 19BR002862; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-May-2019	29-May-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Cocker Spaniel of 18 months old and 15 kg, was treated, for the first time, with one dose of FRONTLINE PLUS DOG M (FL) (005/18A, Jan 2020, topical, btw the shoulder blades), applied by the reporter on 23 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. Similar case reported on 19BR002861. No further information is expected.
30-May-2019	UAE; 19BR002873; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-May-2019	30-May-2019*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pamina de Moza, a female crossbred dog of 10 years old and 8 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 7 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been applied in the past with no issue (dose frequency every 45 days) since date not informed. The dog use to be bathed once a week. Environment not treated. No further information is available.
30-May-2019	UAE; 19BR002874; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	30-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mineco, a female crossbred cat of 3 years old and 4 kg, received FRONTLINE PLUS CATS (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 30 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency - every 4 months, date of first administration was not provided). The pet owner mentioned a similar case occurred with a friend, but no details were provided. The environment has been treated with Butox®. No further information is available.

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30-May-2019	UAE; 19BR002881; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** 7.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-May-2019	30-May-2019	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Snoopy, a male Lhasa Apso of 3.5 years old and 7.2 kg, was treated, for the second time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, neck - incorrect application), applied by the reporter yesterday (29 May 2019, around 6 pm), for tick treatment. Today (30 May 2019, around 8:30 am), the dog presented with vomiting and apathy. The owner also noted that her dog had lumps near the product application. Snoopy was taken to the vet, but it is unknown if the animal has been treated. No further information is available. UPDATE 31 May 2019 – The DVM was contacted and reported that FL was applied for the first time on 29 May 2019 and Snoopy received FL SPOT-ON (unsubstantiated) in the past, only once, with no issue. Two days prior to FL administration, the dog 'stole' an unknown food from his owner's dish. According to her, Snoopy started to present all the reported symptoms after returning from a walk with his owner. Reddening of the skin (specially on the belly), pruritus and nasal oedema were also experienced by the dog. In addition, his coat presented a mild change in colour at the location of FL application site . The reddening of the skin stopped on 30 May 2019, however it is unknown if the other signs are ongoing. No tretament was provided and the DVM did not atributte the patient's condition to FL use. She suspected of an insect bite or some food allergy. No further information is expected.
30-May-2019	UAE; 19BR002885; DF; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 3 kg	5	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	19-May-2019*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leon, a male Persian cat of 7 months old and 3 kg, received one pipette of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) administered by the reporter on 1 May 2019 for tick treatment. Lack of efficacy is suspected because less than 3 weeks after product administration the reporter returned to see live ticks on Leon. There are 4 cats of the same household that were also treated with FL but with no issue. Environment treated with MyPet®. No further information is available.
31-May-2019	UAE; 19BR002888; RS; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-May-2019	27-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lili, a female medium crossbred dog of 7 years old and 12 kg, received FRONTLINE SPOT-ON DOGS M (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 27 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided). The environment has not been treated. No further information is available.
30-May-2019	UAE; 19BR002890; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	05-Apr-2019	05-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Meg, a female medium crossbred dog of 2 years old and 11 kg, received FRONTLINE PLUS (unsubstantiated) (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the veterinarian on 5 Apr 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. No further information is available.

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						Cutaneous **Was the product used ok?:** Unknown to Company					
31-May-2019	UAE; 19BR002898; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	15-May-2019	31-May-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tabby, a male mixed breed cat (other signalment is unknown), was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (002/18B, exp date, route and location are unknown), applied by the retail store staff member on 15 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. There is a treated dog in this household with no issue. No further information is expected.
30-May-2019	UAE; 19BR002905; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	Apr-2019*	Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female cat of unknown signalment received FRONTLINE SPOT-ON (FL) (unsubstantiated; lot, exp date, route and location are unknown), administered by the reporter on date not informed for an unknown reason. The reporter contacted BIAH because FL was not effective. An unknown product was administered on date not specified and the issue has been solved. This is the extent of the information available for now.
31-May-2019	UAE; 19BR002915; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-May-2019	28-May-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one cat of unknown signalment received FRONTLINE PLUS (FL) (unsubstantiated; lot, exp date, route and location are unknown) applied by the reporter on date not informed (May 2019 – estimated date) for flea treatment. Lack of efficacy is suspected because 3 days after the application 1 live flea was seen on the animal. It is unknown if it remains infested. This is the extent of the information available for now. UPDATE 5 JUN 2019 - Vesgo, a male mixed breed cat of 11 years old and 7 kg, was treated with one vial of FL PLUS CATS (topical, btw the shoulder blades), applied by the reporter on 28 May 2019. The pet remains with fleas. In addition, the pet is scratching himself due to fleas. Environmnet not treated. The owner doesn't know if FL was previously applied. No further information is expected.
02-Jun-2019	UAE; 19BR002924; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	07-May-2019	14-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nick, a male Yorkshire of 7 years old and 4.5 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 7 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet has flea allergy dermatitis. Because of that, her pet is presenting wounds. Environment not treated. FL was applied in the past and the dog experienced the same issue (dose frequency is unknown and first application was not provided). No further information is expected. UPDATE 5 Jun 2019 – The pet owner was contacted and reported that FL has been applied in the past and then it started to present a

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						ok?: Yes					decreased efficacy so he started to use Bravecto (estimated last administration date: 7 Feb 2019) and FL in an intercalated manner (details not provided), however the owner claims that when using Bravecto he does not has any efficacy problems as he has with FL . He suspects that the last FL administrations were not effective because Nick returned to present fleas approximately 7 to 10 days later after all these past applications (information on fleas visualisation is confuse throughout the complaint). No further information is available.
03-Jun-2019	UAE; 19BR002927; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-May-2019	03-Jun-2019*	24 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Peludo, a male Maltese of 3 years old and 3.5 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 10 May 2019 for ectoparasite control. Lack of efficacy is suspected because live ticks are being seen on the pet. Environment not treated. No further information is available.
03-Jun-2019	UAE; 19BR002934; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	13-May-2019*	13-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: AS reported by the pet owner, Woody, a male Shih Tzu of 4 years old and 6 kg, was treated, for the second time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades to the tail), applied by the reporter around 13 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL was applied for the first time on date not specified and the pet had the same issue. There is a cat in this household that uses a collar against fleas. No further information is available.
03-Jun-2019	UAE; 19BR002936; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-May-2019	14-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Emy, a female medium crossbred dog of 1 year old and 12 kg, received FRONTLINE SPOT-ON DOGS M (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency - 3 months, date of first administration was not provided). The environment has been treated with Butox®. Similar cases reported on 19BR002937 and 19BR002938. No further information is available.
03-Jun-2019	UAE; 19BR002937; SP; Brazil	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	14-May-2019	14-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leona, a Brazilian Terrier of 1 year old and 22 kg, received FRONTLINE SPOT-ON DOGS M (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 May 2019 for flea treatment. Lack of efficacy is suspected

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		Sex qualifier: Unknown **Age:** 1.00 Year(s) **Weight:** 22 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)					because the pet remains with fleas. FL was used in the past with no issue (dose frequency - 3 months, date of first administration was not provided). The environment has been treated with Butox®. Similar cases reported on 19BR002936 and 19BR002938. No further information is available.
03-Jun-2019	UAE; 19BR002938; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** X **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 20 - 40 kg	3	3	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-May-2019	14-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 3 Pit Bulls of 2 to 5 years old and 20 to 40 kg, received FRONTLINE SPOT-ON DOGS L (013/18A, exp date May 2020, topical, btw the shoulder blades), administered by the reporter on 14 May 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with fleas. FL was used in the past with no issue (dose frequency - 3 months, date of first administration was not provided). The environment has been treated with Butox®. Similar cases reported on 19BR002936 and 19BR002937. No further information is available.
04-Jun-2019	UAE; 19BR002940; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 26 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jun-2019*	01-Jun-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female large crossbred dog of 3 years old and 26 kg, was treated with one vial of FRONTLINE PLUS DOG L (FL) (lot and exp date are unknown, topical, unknown location), applied by the reporter on date not specified (1 Jun 2019 - chosen at random), for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. Environment treated with Butox®. FL has been applied every 3 months since date not specified (1 Jan 2018 - chosen at random). No further information is expected.
04-Jun-2019	UAE; 19BR002948; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 2 - 5 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Mar-2019	03-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nicolas, a male Domestic Shorthair cat (crossbred) of 3 years old and 5 kg and Malu, a female Domestic Shorthair cat (crossbred) of 8 months old and 2 kg, received one pipette of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades) each, for the first time, applied by the reporter on 3 Mar 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas since product administration. Environment not treated. No further information is available.
04-Jun-2019	UAE; 19BR002951; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	31-May-2019	31-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hyuk, a male crossbred dog of 5 years old and 8 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (007/18A, exp date is unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 31 May 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Environment treated twice with Butox®. No further information is available.

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						Was the product used ok?: Yes					
03-Jun-2019	UAE; 19BR002959; MG; Brazil	**Species:** Canine **Breed:** West Highland White **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 - 8.5 kg	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-May-2019	23-May-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 3 female West Highland White Terriers of 3 to 11 years old and 5 to 8.5 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 16 May 2019 for flea treatment. Lack of efficacy is suspected because she started to see fleas on her pets again one week after product administration. FL was used once in the past with no issue (date of first administration was not provided). The environment has been treated with Butox®. SAE case reported on 19BR002960. No further information is available.
03-Jun-2019	UAE; 19BR002960; MG; Brazil	**Species:** Canine **Breed:** West Highland White **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 5.000 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-May-2019	16-May-2019	Some time	D-C	Suspected Adverse Event: As reported by the pet owner, Kim, a female West Highland White Terrier of 10 years old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 16 May 2019 for flea treatment. Kim was under treatment for cancer and presented partial anorexia prior to FL. Some time after product administration the partial anorexia increased for 3 days and then decreased again to the previous condition. FL was used once in the past with the same issue (date of first administration was not provided). SLOE case reported on 19BR002959. No further information is available.
06-Jun-2019	UAE; 19BR002976; SP; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2.5 - 5 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-May-2019	27-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two dogs (Kovu, a male Pinscher of 5 years old and 2.5 kg; Mel, a female Lhasa Apso of around 3 years old and 5 kg), received one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 27 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the animals are scratching themselves due to fleas. Environment not treated. FL was applied for the first time around 45 days ago. Similar case reported on 19BR002977. No further information is expected.
06-Jun-2019	UAE; 19BR002977; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 15 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-May-2019	27-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tody, a male medium crossbred dog of 16 years old and 15 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 27 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL was applied for the first time around 45 days ago. Similar case reported on 19BR002976. No further information is expected.

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06-Jun-2019	UAE; 19BR002979; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-May-2019	06-Jun-2019*	6 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Coe, a female crossbred cat of 6 months old and approximately 2.5 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 31 May 2019 for flea treatment. The cat was in good health prior to FL. During product administration the animal experienced vocalization. 6 days later the owner perceived that the cat presented hair loss and reddening of the skin at the application site. Coe was not treated and the signals are still ongoing. No further information is available.
07-Jun-2019	UAE; 19BR002982; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Jun-2019	03-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cherry, a female Persian of 15 years old and 3 kg, received FRONTLINE PLUS CATS (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 3 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Fleegard® and Butox®. No further information is available.
07-Jun-2019	UAE; 19BR002983; RJ; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-May-2019	30-May-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Floquinho, a male Maltese of 2 years old and 3 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 23 May 2019 for tick treatment. Lack of efficacy is suspected because she started to see ticks attached to her pet again one week after product administration. The environment has been treated with Butox®. No further information is available.
06-Jun-2019	UAE; 19BR002984; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 2.5 - 8 kg	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2019	05-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 3 cats of 9 to 13 years old and 2.5 to 8 kg received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 5 May 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with fleas. FL was used in the past with no issue (dose frequency - 3 months, date of first administration was not provided - 1 Jan 2009 - estimated date). The animals do not have outdoor access. The environment has been treated with Butox® and K-Othrine®. SAE case reported on 19BR002985. No further information is available.
06-Jun-2019	UAE; 19BR002985; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	05-May-2019	06-May-2019*	1 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Ndanda, a female crossbred cat of 13 years old and 8 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 5 May

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		Sex: F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 8 kg				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					2019 for flea treatment. Ndanda was in good health prior to product administration and received FL in the past with no issue (dose frequency - 3 months, date of first administration was not provided - 1 Jan 2009 - estimated date). Some time after product administration the animal experienced allergy at the application site region and close to the ears. The pet owner does not believe in a relation between FL and the signal, but the veterinarian said they could be related. The animal was not treated and remains with fleas. Signals are still ongoing. SLOE case reported on 19BR002984. No further information is available.
10-Jun-2019	UAE; 19BR003000; SC; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 32 - 37 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	03-Jun-2019	03-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two dogs (Lessi, a female German Shepherd Dog of 9 years old and 32 kg; Boby, a male Border Collie of 4 years old and 37 kg) were treated with one vial of FRONTLINE SPOT-ON DOG XL (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied to each one by the reporter on 3 Jun 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 30 - 40 days since date not specified. There is a cat in this household that wasn't treated with FL and it has no issue. No further information is expected.
11-Jun-2019	UAE; 19BR003004; MG; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 21.00 Year(s) **Weight:** 17 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-May-2019	31-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bily, a male Cocker of 21 years old and 17 kg, received FRONTLINE SPOT-ON DOGS M (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 31 May 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. FL was used once in the past with no issue (around May 2018). The environment has been treated with unknown product. No further information is available.
11-Jun-2019	UAE; 19BR003006; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Jun-2019	08-Jun-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Valentin, a male Yorkshire Terrier of 6 years old and 2 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (011/18D, Mar 2020, topical, btw the shoulder blades) for the first time, administered by the reporter on 8 Jun 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Environment not treated. No further information is available.
11-Jun-2019	UAE; 19BR003013; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	02-Jun-2019	02-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pretinha, a female medium crossbred dog of approximately 8 years old and approximately 10 kg, received FRONTLINE SPOT-ON DOGS M (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 2 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency - 6 months, date of first administration was not provided). The environment has not been treated. Similar case reported on

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						Cutaneous **Was the product used ok?:** Yes					19BR003014. No further information is available. UPDATE 12 JUN 2019 - The pet owner informed that Pretinha actually received FRONTLINE PLUS DOG M (lot and exp date unknown, topical, btw the shoulder blades), not FRONTLINE SPOT-ON DOGS M. No further information is expected.
11-Jun-2019	UAE; 19BR003014; SP; Brazil	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 9 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Jun-2019	02-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jony, a male Jack Russell Terrier of approximately 2 years old and approximately 9 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 2 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency - 6 months, date of first administration was not provided). The environment has not been treated. Similar case reported on 19BR003013. No further information is available.
11-Jun-2019	UAE; 19BR003022; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown tablet for tick treatment; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-May-2019	11-Jun-2019*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Snoop, a male medium crossbred dog of approximately 8 years old and 15 kg, received FRONTLINE PLUS DOG M (005/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 25 May 2019 for tick treatment. Lack of efficacy is suspected because she started to see ticks on her pet again after product administration. The dog received an unknown tablet for tick treatment before FL (date not informed - 1 May 2019 - chosen at random). FL was used twice in the past with the same issue (dose frequency is unknown and date of first administration was not provided). The environment has been treated with Butox®. No further information is available.
12-Jun-2019	UAE; 19BR003033; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2019	15-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Julie, a female Poodle of 10 years old and 4 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter on 15 May 2019 for flea treatment. Lack of efficacy is suspected because Julie remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown; previous application approximately on 2017 – day and month not informed) since date not informed. The dog use to be bathed once a week. Environment not treated. No further information is available.
10-Jun-2019	UAE; 19BR003034; SP; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 24.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Jun-2019	07-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lola, a female Golden Retriever of 3 years old and 24.9 kg, received FRONTLINE SPOT-ON DOGS L (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 7 Jun 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided). The environment has been treated with Butox®. No further information is available.

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13-Jun-2019	UAE; 19BR003037; SP; Brazil	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2019	12-Jun-2019	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Yuri, a male Border Collie of approximately 3 months old and 5.5 kg, received one pipette of FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 15 May 2019 for flea/ tick treatment. Lack of efficacy is suspected because on 12 Jun 2019 the pet owner saw 2 live ticks on Yuri, but it was not informed if currently the dog remains with ectoparasites. Fleas are no longer being seen. Environment not treated. No further information is available.
17-Jun-2019	UAE; 19BR003061; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Jun-2019	16-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Gordinho, a male crossbred cat of 9 years old and 6 kg, received FRONTLINE SPOT-ON CAT (016/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 16 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas and continues to itch due to the flea infestation. FL was used in the past with no issue (dose frequency - 6 months, date of first administration was not provided). The environment has not been treated. No further information is available.
18-Jun-2019	UAE; 19BR003080; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 3.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Species not indicated / recommended)	01-Jun-2019*	05-Jun-2019*	4 Day(s)	D-B	Suspected Adverse Event: As initially reported by the attending veterinarian via sales representative, a male cat of 3.9 kg (other signalment is unknown) received one dose of FRONTLINE DOG S (FL) (unknown if was FL SPOT-ON or PLUS) (lot and exp date are unknown, species not recommended, route and location are unknown), applied by the pet owner on date not specified (1 Jun 2019 - chosen at random). After product application (time to onset is unknown), the cat presented convulsions and 'signs of intoxication' (behavioural disorder NOS). The current status of the animal is unknown and there is no information if the pet was treated. This is the extent of the information available.
18-Jun-2019	UAE; 19BR003081; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	17-Jun-2019	17-Jun-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a female cat of unknown signalment received FRONTLINE (FL) (unsubstantiated; lot, exp date, route and location are unknown) for the first time, administered by the reporter's boyfriend on 17 Jun 2019 for flea treatment. Lack of efficacy is suspected because the cat remains with live fleas and flea feces are also being seen. Environment not treated. This is the extent of the information available.
19-Jun-2019	UAE; 19BR003085; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products**	30-May-2019*	19-Jun-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one cat of unknown signalment received, for the first time, FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not

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		Unknown **Age:** 5.00 Month(s) **Weight:** 4 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					specified (1 Jun 2019 - chosen at random), for flea treatment. The owner believes that FL is not working because her cat remains with fleas. This is the extent of the information available. UPDATE 5 JUL 2019 - Chanel, a female Siamese of 5 months old and around 4 kg, was treated with one vial of FL SPOT-ON CAT, applied 'according to product label instruction' - topical and btw the shoulder blades, applied around 30 May 2019. Chanel was infested by fleas prior to FL application and she remains with ectoparasites. Environment not treated. There is a dog in this household that was treated with another product and it has no issue. No further information is expected.
19-Jun-2019	UAE; 19BR003095; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-May-2019	29-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one cat of unknown signalment received, for the first time, FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 29 May 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available. UPDATE 21 JUN 2019 - Tom, a neutered male mixed breed cat of 4 kg and unknown weight, received, for the first time, one vial of FRONTLINE CATS (unknown if it was SPOT-ON or PLUS) (topical, btw the shoulder blades). Three days post product application, the owner still could see fleas on her cat. Environment not treated. The pet has outdoor access. No further information is expected.
21-Jun-2019	UAE; 19BR003099; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 1 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Jun-2019	14-Jun-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mocinha, a female Siamese of 3 months old and 1 kg, was treated, for the first time, with one dose of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 14 Jun 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. No further information is expected.
21-Jun-2019	UAE; 19BR003101; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Apr-2019	14-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Madinha, a female medium crossbred dog of 7 years old and 11 kg received FRONTLINE SPOT-ON DOGS M (FL) (015/18B, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 Apr 2019 for flea treatment. Another application of FL was made by the reporter on 3 Jun 2019. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2015 - estimated date). The environment has been treated with Ervamix®. Similar cases reported on 19BR003102 and 19BR003103. No further information is available.
21-Jun-2019	UAE; 19BR003102; PR; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous	14-Apr-2019	14-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pereba, a male large crossbred dog of 7 years old and approximately 20 kg received FRONTLINE SPOT-ON DOGS L (FL) (013/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 Apr 2019 for flea treatment. Another application of FL was made by the reporter on 3 Jun 2019. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency is

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 20 kg				**Was the product used ok?:** Unknown to Company					unknown and date of first administration was not provided - 1 Jan 2015 - estimated date). The environment has been treated with Ervamix®. Similar cases reported on 19BR003101 and 19BR003103. No further information is available.
21-Jun-2019	UAE; 19BR003103; PR; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 5 - 8 kg	3	3	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Apr-2019	14-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 3 dogs (one male small crossbred of 14 years old and 5 kg, one female small crossbred of 9 years old and 5 kg and one female Basset Hound of 11 years old and 8 kg) received FRONTLINE SPOT-ON DOGS S (FL) (014/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 Apr 2019 for flea treatment. Another application of FL was made by the reporter on 3 Jun 2019. Lack of efficacy is suspected because the pets remain with fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2015 - estimated date). The environment has been treated with Ervamix®. Similar cases reported on 19BR003101 and 19BR003102. No further information is available.
20-Jun-2019	UAE; 19BR003104; RJ; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 11 - 12 kg	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	Jan-2019*	Jan-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 3 dogs (one male French Bulldog of 1.5 years old and 11 kg, one male French Bulldog of 4 years old and 12 kg and one female Pug of 1.5 years old and 11.5 kg) received FRONTLINE PLUS DOG M (FL) (013/18A – 1 pipette/lot unknown – 2 pipettes, exp date unknown, topical, btw the shoulder blades), administered by the reporter on Jan 2019 for tick treatment. Another application of FL was made on May 2019. Lack of efficacy is suspected because the pets remain with ticks. FL was used in the past with no issue (dose frequency – 4 months, date of first administration was not provided - 1 Jun 2018 - estimated date). The environment has not been treated. Related case reported on 19BR003105. No further information is available.
23-Jun-2019	UAE; 19BR003116; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Jun-2019	05-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branca, a female medium crossbred dog of 6 years old and 15 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 5 Jun 2019, for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites and the number of ticks has increased. Environment not treated. FL was applied for the first time around 2 years ago (2017*). No further information is expected.
20-Jun-2019	UAE; 19BR003117; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	01-Jun-2019*	20-Jun-2019*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, two cats of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Jun 2019 - chosen at random). The owner believes that FL is not working. Details were not provided. This is the extent of the information available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Route: unknown **Was the product used ok?:** Unknown to Company					
23-Jun-2019	UAE; 19BR003120; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Aug-2018*	10-Jan-2019*	9 Day(s)	D-A	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one dog of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Jan 2019 - chosen at random). Lack of efficacy was suspected because the pet was diagnosed with tick-borne disease. Details were not provided. FL was applied in the past, but the dose frequency is unknown. The dog died on date not specified. There is a cat in this household that was treated with FL and the owner still sees fleas (see case 19BR003121). No further information is available.
23-Jun-2019	UAE; 19BR003121; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jun-2019*	23-Jun-2019*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one cat of unknown signalment received, for the first time, FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Jun 2019 - chosen at random). Lack of efficacy is suspected because the pet remains with fleas. SLOE case reported on 19BR003120. No further information is available.
24-Jun-2019	UAE; 19BR003122; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Jun-2019	09-Jun-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female crossbred dog of 4 years old and 5 kg, received one pipette of FRONTLINE SPOT-ON DOGS S (FL) (014/18A, Apr 2020, topical, btw the shoulder blades), administered by the reporter on 9 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been applied only once in the past, 1 year ago (9 Jun 2018 – estimated date), with no issue. Environment not treated. No further information is available.
25-Jun-2019	UAE; 19BR003137; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	15-Apr-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ludmila, a female small crossbred dog of 5 months old and 3 kg, was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Apr 2019 - chosen at random). The owner believes that FL was not effective (details not provided). There is one more dog in this household, but it is unknonw if FL was applied. She also complained about the lack of efficacy of NEXGARD (see case 19BR003136). No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
24-Jun-2019	UAE; 19BR003138; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 - 4 kg	4	4	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Capstar®; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jun-2019	10-Jun-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, 4 male cats (Fred, a Maine Coon of 5 years old and 4 kg; Nilo, a mixed breed cat of 5 years old and around 4 kg; Tom, a mixed breed cat of unknown age and around 4 kg; Jerry, a mixed breed cat of 2 years old and 3 kg), were treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied to each one by the reporter 14 days ago (10 Jun 2019), for flea treatment. Lack of efficacy is suspected because the animals remain with fleas. The owner believes that FL is not working because the animals remains with fleas. Environment treated with Butox®. The animals have no outdoor access. According to the owner, Capstar® was administered around 20 days (prior to FL) and the animals remained with fleas that's why she have decided to apply FL. No further information is available.
26-Jun-2019	UAE; 19BR003139; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	2008*	16-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nick, a male Yorkshire of 11 years old and approximately 4 kg, received FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (16 Feb 2019*) for tick treatment. FL has been applied monthly on Nick (last administration on 16 Jun 2019). Lack of efficacy is suspected because the pet remains with ticks. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 2008*). There is an untreated cat living in this household. The environment has not been treated. No further information is available.
24-Jun-2019	UAE; 19BR003142; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown vaccine; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Jun-2019	24-Jun-2019	N/A	D-D	Suspected Adverse Event: As reported by the pet owner, Puppy, a male Shih Tzu of 2 months old and 2.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 24 Jun 2019 for tick treatment. Puppy was in good health prior to FL and was vaccinated with unknown vaccine one week earlier. 15 to 20 minutes after product administration the animal presented intense itching, so he was bathed by the reporter. On the next day, Puppy presented a nodule at the application site. He was taken to the veterinarian, which believes that the dog could be allergic to FL. No further information is available.
26-Jun-2019	UAE; 19BR003143; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Jun-2019	26-Jun-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Perola, a female mixed breed cat of 18 months old and 3 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (016/18A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 19 Jun 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
25-Jun-2019	UAE; 19BR003156;	**Species:** Canine **Breed:** Retriever	1	1	0	**Product used:** FIPRONIL	23-Jun-2019	23-Jun-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one Labrador Retriever of 36 kg and unknown

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	-; Brazil	(Flat-Coat) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 36 kg				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					signalment, received FRONTLINE PLUS (FL) (unsubstantiated; lot, exp date, route and location are unknown) for the first time, administered by the reporter on 23 Jun 2019 for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. FL SPOT-ON has been applied multiple times in the past (dose frequency is unknown) with no issue. This is the extent of the information available for now.
27-Jun-2019	UAE; 19BR003158; RS; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 27 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	27-Jun-2019	27-Jun-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toby, a male crossbred dog of 3 years old and 27 kg, received one pipette of FRONTLINE SPOT-ON DOGS L (FL) (005/18A, exp date is unknown, topical, half btw the shoulder blades and half next to the tail), administered by the reporter on 27 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been applied only once in the past on date not informed and same issue occurred, however details regarding this past event were not provided. There is another dog on the same household which has been treated with an unknown product. Environment treated with unknown product. No further information is available.
27-Jun-2019	UAE; 19BR003159; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 17.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	27-Jun-2019	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Loui, a female mixed breed cat of 17 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 12 Jun 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). SLOE case reported on 19BR003160. No further information is expected.
27-Jun-2019	UAE; 19BR003160; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	27-Jun-2019*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ceci, a female mixed breed cat of 16 years old and 5 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 8 Jun 2019, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). SLOE case reported on 19BR003159. No further information is expected.
27-Jun-2019	UAE; 19BR003167; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown)	1	1	0	**Product used:** FIPRONIL SPOT ON CAT	01-Apr-2019*	04-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Will Peterson, a male mixed breed cat of 7 months old and 3 kg, was treated, for the first time, with one vial of FRONTLINE

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		Sex: M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 3 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					SPOT-ON CAT (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 2 months ago (1 Apr 2019 - chosen at random), for flea treatment. Lack of efficacy is suspected because fleas were found on her pet around 3-4 days after product application. So, she bathed the animal with an unknown shampoo and the pet is currently free of fleas. Environment not treated. No further information is available.
25-Jun-2019	UAE; 19BR003174; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Jun-2019	22-Jun-2019	After a while	D-D	Suspected Adverse Event: As reported by the pet owner, Luz, a female crossbred cat of 2 years old, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 22 Jun 2019 for flea treatment. Luz was in good health prior to FL. A while after product administration the animal experienced excessive licking and recovered spontaneously on the next day. FL was used in the past with the same issue (dose frequency is unknown and date of first administration was not provided – 1 Jan 2018*). SLOE case reported on 19BR003175. No further information is available.
25-Jun-2019	UAE; 19BR003175; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Jun-2019	22-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luz, a female crossbred cat of 2 years old, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 22 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pet continues to itch. No more fleas were visualized. FL was used in the past with no lack of efficacy (dose frequency is unknown and date of first administration was not provided – 1 Jan 2018*). The environment has not been treated. SAE case reported on 19BR003174. No further information is available.
28-Jun-2019	UAE; 19BR003190; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	20-Apr-2019*	20-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a female dog of unknown signalment received FRONTLINE (FL) (unsubstantiated; lot, exp date, route and location are unknown), administered by the reporter two times in the last 2 months (20 Apr and 20 May 2019 - estimated dates) for flea treatment. Lack of efficacy is suspected because live fleas were still being seen. An unknown ectoparasiticide product was purchased, however it was not informed if it has been administered to the animal or whether the dog remains infested. This is the extent of the information available for now.
30-Jun-2019	UAE; 19BR003199; SP; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	12-May-2019*	30-Jun-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frederico, a male dog (other signalment is unknown), received FRONTLINE (FL) (unsubstantiated) (lot and exp date are unknown), applied by the reporter around 12 May 2019 (estimated date), for tick treatment. Lack of efficacy is suspected because live ticks have been found on her dog. This is the extent of the information available. UPDATE 5 JUL 2019 - Frederico is a male Dachshund of 10 years old and around 6 kg that was treated with one vial of FL PLUS DOG S, topical, btw the shoulder blades. Some ticks were found in the environment and now the pet is

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					currently free of ticks. Environment not treated. FL is only applied when the vet recommends its use (dose frequency is unknown). No further information is expected.
28-Jun-2019	UAE; 19BR003202; MG; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 - 9 kg*	6	6	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-May-2019	14-May-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 5 Yorkies and 1 small crossbred dog of mixed sex, 3 to 9 kg and 2 to 3 years old, were treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied to each one on 13 May 2019, for flea treatment. Lack of efficacy is suspected because fleas were found on the animals. Environment treated with Jimo®. On 27 May 2019, the animals were treated with Comfortis® and they are currently free of fleas. There are two cats in this household that were treated with FL SPOT-ON, but it is unknown if they have some issue. Similar case reported on 19BR003203. The owner also complained about the lack of efficacy of FL SPRAY (See case 19BR003204). No further information is expected.
28-Jun-2019	UAE; 19BR003203; MG; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 10 - 20 kg	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-May-2019	14-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 1 female Poodle and 2 female medium crossbred dogs of 10 kg to 20 kg and 2 years to 13 years old, were treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied to each one on 13 May 2019, for flea treatment. Lack of efficacy is suspected because fleas were found on the animals. Environment treated with Jimo®. On 27 May 2019, the animals were treated with Comfortis® and they are currently free of fleas. There are two cats in this household that were treated with FL SPOT-ON, but it is unknown if they have some issue. Similar case reported on 19BR003202. The owner also complained about the lack of efficacy of FL SPRAY (See case 19BR003204). No further information is expected.
28-Jun-2019	UAE; 19BR003208; BA; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2 - 4 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Apr-2019	26-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 2 crossbred cats (Mia, female of 10 years old and 4 kg; Cabeça de Mola, male of 1 year old and 2 kg) received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 26 Apr 2019 for flea treatment. Another application of FL was made on 26 May 2019. Lack of efficacy is suspected because the pets remain with fleas. The environment has not been treated. No further information is available.
30-Jun-2019	UAE; 19BR003236; -; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	Sep-2017*	10-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lulu, a female Pinscher of 2 years old and 4 kg, received 1 dose of FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 10 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was used in the past with no issue (dose frequency - 3 months, date of first administration was not provided – Sep 2017*). The environment has been treated with Butox®. There are 5 other dogs that were treated with fractionated doses of FRONTLINE PLUS DOG XL and remains with fleas living in this household (see case 19BR003237). No further information is available.

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30-Jun-2019	UAE; 19BR003237; -; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** X **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3.5 - 5 kg	5	5	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	Sep-2016*	10-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 5 Pinschers (mixed, 2 to 6 years old and 3.5 to 5 kg) received fractionated doses of FRONTLINE PLUS DOG XL (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 10 Jun 2019 for flea treatment. Lack of efficacy is suspected because the pets remain with fleas. FL was used in the past with no issue (dose frequency - 3 months, date of first administration was not provided – Sep 2016*). The environment has been treated with Butox®. Related case reported on 19BR003236. No further information is available.
04-Jun-2019	UAE; 19CH000035; -; Switzerland	**Species:** Feline **Breed:** Bengal **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 4.45 kg	2	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-May-2019*	30-May-2019*	0 Day(s)	D-A	As reported by the attending vet, a cat, neutered female, bengal, 2 years old, 4.45 kg, in a good health condition, received FONTLINE COMBO for cats (BN and exp date unknown) on an unknown date, a Thursday (30 MAY 2019 was chosen by default), 1 dose spot on by owner. Then (otherwise not specified, 30 MAY 2019 was chosen by default) the dog experienced ptyalism and was more clingy. The cat disappeared 4 days after application and was found dead 6 days after applcation on a non-specified date (05 JUN 2019 was chosen by default). The vet's level of suspicion is medium. This is the extent of information available.
27-Jun-2019	UAE; 19CL000017; Chile; Chile	**Species:** Canine **Breed:** Great Pyrenees **Sex:** M **Sex qualifier:** - **Age:** 10.00 Month(s) **Weight:** 52 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	25-May-2019	25-May-2019	N/A	D-C	On 26 JUN 2019, attending vet reported an adverse event: A 10-month old Great Pyrenees ("Byron", 52 kg, intact male) received FRONTLINE PLUS 4.02 mL (batch unknown, expiry date unknown, topical, dose: 1 applicator) administered by owner on 25 MAY 2019. A few hours after product administration, the animal experienced a reaction like a burn in the neck and middle of the back. The owner took the dog to the attending vet. The skin lesion healed completely after 1 month (25 JUN 2019).
03-Apr-2019	UAE; 19DE000324; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	02-Apr-2019	03-Apr-2019	1 Day(s)	D-D	SLEE: As reported by the pet owner 3 cat were treated with FRONTLINE (MAH comment: as no concrete product was given FRONTLINE SPOT ON FOR CATS was set as best guess) on 2 Apr 2019 by the owner. The next day all 3 cats had at least 3 ticks. No more details.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
08-Apr-2019	UAE; 19DE000331; -; Germany	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	Mar-2019*	Apr-2019*	N/A	D-D	SLEE: As reported by a pharmacist a 35 kg body weight Golden Retriever was treated with FRONTLINE SPOT ON H 40 (batch no S20409AR, expiry date Feb 2020) and had a lot of ticks unknown time later.
07-Apr-2019	UAE; 19DE000332; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Feb-2019*	Apr-2019*	10 Day(s)	D-D	SLEE: as reported by the animal owner a unknown male cat was treated topically in the neck ´accoring to label´with FRONTLINE SPOT ON FOR CATS in monthly intervals from Feb until 2 Apr 2019 by the animal owner. Unknown time later the cat had 6-8 ticks daily. No more details.
08-Apr-2019	UAE; 19DE000336; -; Germany	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 3.000 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2019*	2019*	0 Day(s)	D-D	SLEE: As reported by the pet owner a unknown adult European cat (going outside, 3-4 kg body weight) was treated topically in the neck with 1 dosage form FRONTLINE SPOT ON for Cats (reported batch no S21015- propably S21015AW, expiry date Jun 2021). Unknown time later (more than 24-48 hours later but within the last 14 days) the cat had an attached and still alive tick.
15-Apr-2019	UAE; 19DE000348; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Mixed **Age:** 8.00 Month(s) **Weight:** 2674 - 4071 gms*	7	7	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	22-Nov-2018	22-Nov-2018	´hours and days´	D-D	SLEE: As reported by the pet owner 7 unknown cats (going outside regularly) were treated with unknown FRONTLINE :´bought FRONTLINE 3 times but it didn´t work´. (MAH comment: FRONTLINE SPOT ON FOR CATS was set as buest guess as product was not specified, SLEE for both fleas and ticks coded as worst case). No more details. FOLLOW UP 8 May 2019: Pet owner send in reporting forms for cat (4 years old, 3569 body weight- no units given) and 6 kitten (8 months old, male neutered and female intact, 2674 to 4071 body weight- no units given): the cats were treated once topically in the neck with 1 dosage form of FRONTLINE SPOT ON FOR CATS (batch no R20430, expiry date Jan 2020) for flea and biting lice treatment on 22 Nov 2018. ´Hours and days´after treatment there were fleas. All rooms were treated (unknown how and when), animals were not going outside. No ticks mentioned , so VeDDRA code LOE ticks deleted. Partly confusing data. Some animals were treated before on 20 Jul 2018 until 7 Sep 2018, no more details.
15-Apr-2019	UAE; 19DE000351; -; Germany	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	02-Apr-2019	06-Apr-2019	4 Day(s)	D-B	As reported by the animal owner a 6 year old male neutered European cat (6.5 kg body weight, in good general condition) was treated for prophylaxis once topically in the neck with 1 dosage form FRONTLINE COMBO SPOT ON FOR DOGS S (off-label:

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		Neutered **Age:** 6.00 Year(s) **Weight:** 6.5 kg				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)					species, vet prescribed this due to body weight) by the animal owner on 2 Apr 2019. 4 days later the cat showed anemia (pale nose was only reported initially, later on not more mentioned), apathy, vomiting after eating and decreased appetite. In the vet practice renal and liver parameters were elevated. Additional information: Beginning of 2019 this cat was treated with FRONTLINE COMBO FOR CATS without any problems.
24-Apr-2019	UAE; 19DE000376; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2019*	Apr-2019*	11 Day(s)	D-C	As reported by a pharmacist a unknown dog (23 kg body weight, good general condition) was treated once topically with 1 dosage form FRONTLINE SPOT ON H40 by the animal owner mid of Apr 2019. The dog showed coughing and dyspnoea unknown time later. No more details.
18-Apr-2019	UAE; 19DE000379; -; Germany	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** X **Sex qualifier:** Unknown **Age:** - **Weight:** 6.5 - 9 kg*	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	Feb-2019*	Apr-2019*	N/A	D-D	SLEE: As reported by the pet owner 2 Maine Coon cats (male 8-9 kg body weight, female 6.5 kg body weight, going outside regularly) were treated monthly with 1 dosage form of FRONTLINE SPOT ON FOR CATS (batch no S21015AW, expiry date Jun 2021) since Feb 2019 topically in the neck by the animal owner for prophylaxis. Unknown time later mostly the female cat showed ticks (attached and fed, stayed on the cat more than 48 hours).
26-Apr-2019	UAE; 19DE000403; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2019*	2019*	N/A	D-D	SLEE: a pet owner complained, ´that their 3 cats still had a lot of ticks despite FRONTLINE ´. MAH comment: as no concrete product was given FRONTLINE SPOT ON FOR CATS was set as best guess. No more details.
29-Apr-2019	UAE; 19DE000405; -; Germany	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	15-Apr-2019*	17-Apr-2019*	2 Day(s)	D-D	SLEE: As reported by the animal owner a 3 year old crossbred dog (13 kg body weight) was treated with FRONTLINE SPOT ON H20 about 2 week ago (15 Apr 2019 set as best guess). 2 days later the dog had attached and already fed ticks. The dog is walking in the garden every day. No more details.

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						ok?: Yes					
29-Apr-2019	UAE; 19DE000408; -; Germany	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	Mar-2019*	Apr-2019*	N/A	D-D	SLEE: as reported by the pet owner a 2 year old male Maltese dog (5 kg body weight) was treated topically in the neck with 1 dosage form in monthly intervals with FRONTLINE SPOT ON H10 (batch no R20715AX, expiry date Apr 2020) by the animal owner. (Next application would be due soon). The dog had 3 ticks in the inguinal area and 3 ticks at the neck.
30-Apr-2019	UAE; 19DE000420; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	23-Apr-2019*	Apr-2019	N/A	D-D	SLEE: As reported by the pet owner 2 unknown cats were treated with FRONTLINE SPOT ON FOR CATS one week ago and showed pruritus. No more details. MAH comment: as not further specified this case was classified as LOE as best guess. UPDATE FROM AUTHORITY 15 May 2019: NCA comment: It is unknown if pruritus was already present before treatment, as a symptom of flea infestation, or whether this is a new sign, indicating a possible reaction to the product (pruritus is a known side effect). In case there is any doubt as to what type of case it is, it should be classified as one combined report with all signs being coded (according to the "Guidance notes on the use of VeDDRA terminology..."EMA/CVMP/PhVWP/288284/2007). VeDDRA term "pruritus" was added and case reclassified as safety case. Reaction start date changed to 04/2019 (time to onset is not stated in case narrative). FOLLOW UP 18 Jun 2019: in a data quality check this case came up. As Problem type was changed to saftey, VeDDRA code LOE was deleted. No new data
30-Apr-2019	UAE; 19DE000424; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2017*	2019*	N/A	D-D	SLEE: as reported by the animal owner unknown cats had ticks and fleas unknown time after treatment with FRONTLINE, which was used for years from time to time (MAH comment: as no concrete product was given, Frontline Spot on for cats was set as best guess). No more details.
08-May-2019	UAE; 19DE000426; -; Germany	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	May-2019*	May-2019*	0 Day(s)	D-D	As reported by the animal owner a unknown male Golden Retriever was treated for tick prophylaxis with FRONTLINE SPOT ON H40 by the owner in May 2019. The next day the dog showed diarrhea and hair loss and still ticks. No more details. MAH comment: this case was classified as both SLEE and safety case.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
09-May-2019	UAE; 19DE000434; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	Apr-2019*	May-2019*	17 Day(s)	D-D	SLEE: as reported by a pharmacist a unknown cat was treated with FRONTLINE SPOT ON FOR CATS previously without problems. After opening a new package recently, there was a tick 2 weeks after application and 1 week after the next application. No more details.
13-May-2019	UAE; 19DE000453; -; Germany	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** U **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2011*	2011*	0 Day(s)	D-C	As reported by a pharmacist her fathers dog (Golden Retriever, 5 years old at that time) was treated many years ago (2011 was set as best guess) once topically in the neck with 1 dose of FRONTLINE SPOT ON H40 by the animal owner. The next day the dog was brought to a vet showing incontinence. Vet assumed renal problems, which healed spontaneously within one month. In the meantime the dog died after reaching an old age (many years later, therefore not coded). No more details.
16-May-2019	UAE; 19DE000467; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2019*	2019*	N/A	D-D	As reported by a pharmacist the own crossbred dog (8 years old, no more details) was treated with 1 dosage FRONTLINE (MAH comment: product not further specified, so Frontline Spot On H20 set as best guess) once topically. A few hours later the dog showed apathy and less appetite for a few days.
17-May-2019	UAE; 19DE000469; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	11-May-2019*	May-2019*	10 Day(s)	D-D	As reported by the staff of a pharmacy an unknown dog was treated with FRONTLINE SPOT ON H40 on 11 May 2019 (aprox.). Since then the dog was nervous and ´not like before´ (together coded as nervous (together coded as behavioral disorder NOS) . No more details.
21-May-2019	UAE; 19DE000474; -; Germany	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 3 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous	21-May-2019	21-May-2019*	N/A	D-D	As reported by the pet owner a female intact European cat (3 kg body weight, in good general condition) was administered FRONTLINE SPOT ON FOR Cats between the shoulder blades by the animal owner for flea treatment on 21 May 2019. About 3 hours later the application site turned green.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Unknown to Company					
13-May-2019	UAE; 19DE000476; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	May-2019*	May-2019	0 Day(s)	D-D	SLEE: As reported by the animal owner a cat (no more details) received FRONTLINE SPOT ON (MAH comment: as not further specified Frontline Spot On for cats set as best guess) 3 times this year due to flea/tick control. Animal owner complaint about lack of efficacy: there were ticks 3 days after application. Also complained efficacy against fleas (no more details, here coded as worst case). No further information available.
21-May-2019	UAE; 19DE000478; -; Germany	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	12-May-2019*	20-May-2019	8 Day(s)	D-D	SLEE: As reported by the animal owner a dog (Jack Russel-Yoshire Terrier crossbred, male, 6 years, 6 Kg body weight) received 1 dosage form FRONTLINE SPOT-ON H 10 once topically on 12 May 2019 administered by animal owner, due to flea/tick control. On 20 May 2019 after a walk animal owner collected 26 ticks: 5 of them attached and the rest running on the fur. No further information available.
23-May-2019	UAE; 19DE000481; -; Germany	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** M **Sex qualifier:** - **Age:** 8.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	2018*	Apr-2019*	0 Day(s)	D-D	SLEE: contradictory data: first owner reported FRONTLINE SPOT ON, later on FRONTLINE COMBO (MAH comment: FRONTLINE COMBO M was set as this fits to reported bytch). As reported by the animal owner a 8 year old male intakt Yorkshire Terrier (12 kg body weight, in good general condition) has been treated with FRONTLINE COMBO M (batch no P63206BL, expiry date Nov 2019) since spring 2018. This year in Apr 2019 a new package of FRONTLINE COMBO was bought, 11 May 2019 there was the last application and the dog had attached ticks. Owner is searching for ticks twice daily.
22-May-2019	UAE; 19DE000484; -; Germany	**Species:** Canine **Breed:** Retriever Labrador **Sex:** U **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	11-May-2019	May-2019*	16 Day(s)	D-D	As reported by a pharmacist a 8 year old Labrador was treated once topically in the neck with FRONTLINE SPOT ON H40 (batch no R21507AR, expiry Sep 2020, stored at room temperature) on 11 May 2019. Unknown time later the dog was nervous, partly aggressive, coudn´t sleep (´negative effects on the dogs psyche´). No more details.
27-May-2019	UAE; 19DE000494;	**Species:** Canine **Breed:** Tibetan	1	1	0	**Product used:** FIPRONIL SPOT	29-Apr-2019	16-May-2019	3 Day(s)	D-D	SLEE: As reported by the owner a 8 year old male intakt Tibet Terrier (15 kg body weight, in good general condition) was treated

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	-; Germany	Terrier **Sex:** M **Sex qualifier:** - **Age:** 8.00 Year(s) **Weight:** 15 kg				ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					topically in the neck with FRONTLINE SPOT On H20 (batch no S21002AL, expiry date Jun 2021) on 29 Apr 2019 and 13 May 2019 by the animal owner for prophylaxis. 3-10 days later the dog had ticks, partly fed.
28-May-2019	UAE; 19DE000498; 95152; Germany	**Species:** Canine **Breed:** Bernese Mountain Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	08-Apr-2019	08-Apr-2019	promptly	D-C	Pet owner reported to pharmacist: 4 month old female intact Swissy-dog (Bernese Mountain x big swiss crossbred) was treated once with FRONTLINE SPOT ON FOR DOGS M (batch no S20604AX, expiry Mar 2021) on 8 Apr 2019 by the owner for tick control. No more ticks, but ´directly after´ the dog showed diarrhea for 1 week and intense hypersalivation (´in the morning dog looked like having had a bath´). Additionally the dog showed ´thickening at the joints of the legs, size of tennis balls´. Owner had to bring the dog to the vet for 3 times, joints have to be further investigated.
28-May-2019	UAE; 19DE000503; -; Germany	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 8.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	Mar-2019*	28-May-2019*	N/A	D-D	SLEE: As reported by the pet owner a male neutered European cat (8,5 kg body weight) was treated with FRONTLINE SPOT ON for cats about 2 months ago. The cat had some ticks, partly attached and 1 tick on the head since 3 days.
04-Jun-2019	UAE; 19DE000520; -; Germany	**Species:** Canine **Breed:** Canine Other **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 10 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	21-May-2019*	21-May-2019*	0 Day(s)	D-D	SLEE: As reported by the pet owner her dogs (no details on number, age, weight, species, breed or reproductive status) were treated with FRONTLINE SPOT ON HUND M 10-20 Kg (batch no S20313AL, expiry date Feb 2021) about 2-3 weeks ago, ´the product was used in accordance with package leaflet´. Nevertheless, the dogs are still full of ticks. No more details available. The owner was looking for tick several times a day.
05-Jun-2019	UAE; 19DE000521; -; Germany	**Species:** Canine **Breed:** Border Collie **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 17 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2019*	2019*	N/A	D-D	SLEE: As reported by the pet owner a Border Collie, body weight 17 Kg, (no more details available) has been treated with FRONTLINE SPOT ON (product unsubstantiated, FRONTLINE SPOT ON H20 set as best guess) for some time, ´the product was used in accordance with package leaflet´. Nevertheless, the dog still has 3 or 4 ticks after going walkies. No more details available.

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06-Jun-2019	UAE; 19DE000530; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 21 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	14-May-2019	14-May-2019*	0 Day(s)	D-D	SLEE: As reported by the pet owner (originally from Austria on vacation in Germany) a dog, body weight 21 Kg (no more details available) was treated in Germany with FRONTLINE SPOT ON H 40 (batch no S20409AR, expiry date Feb 2021) administered by owner on 14 May 2019. On 20 May 2019 the dog still had a total of 15 ticks: some small moving ticks on the fur and some still living ones, partly fed. No more details available.
10-Jun-2019	UAE; 19DE000539; -; Germany	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	May-2015*	2015*	7 Month(s)	D-D	SLEE: As reported by pharmacy employee (other) a poodle in a good condition (no more details available) received 1 dosis of FRONTLINE SPOT-ON H 20 about 4 years ago. After treatment there were still ticks. No more details.
11-Jun-2019	UAE; 19DE000541; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 8.00 Year(s) **Weight:** 3 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 8.3% / S-METHOPRENE 10% / PRAZIQUANTEL 8.3% / EPRINOMECTIN 0.4% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	16-Apr-2019*	Apr-2019	1 Week(s)	D-D	SLEE: As reported by animal owner male intact cat in a good condition (8 years old, 3-4 kg body weight) received 1 dosis of FRONTLINE SPOT-ON H 10 for dogs topically in the neck on 16 Apr 2019 and 23 Apr 2019 (off-label: intervals to short and product for dogs was used) (batchnumber S20724AX, exp. date April 2021) by the animal owner for tick control. The cat still had ticks. On 1 Jun 2019 the cat was treated with BROADLINE 2.5-7.5 kg (batch no CES010DAA, expiry date Apr 2020). On 9 and 10 Jun 2019 there were still alive ticks. Cat is going outside regularly, sometimes for more than 1 day.
11-Jun-2019	UAE; 19DE000545; -; Germany	**Species:** Canine **Breed:** Belgian Sheep Dog **Sex:** M **Sex qualifier:** - **Age:** - **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	29-May-2019	29-Apr-2019*	N/A	D-D	SLEE: As reported by animal owner a male intact Belgian Sheep dog in a good condition (30 Kg body weight, no more details available) received 1 dosis of FRONTLINE SPOT-ON H 40 by animal owner on 29 April 2019 (batchnumber S20515AR, exp. date March 2021). After treatment the dog still had ticks. No more details.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Unknown to Company					
12-Jun-2019	UAE; 19DE000546; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	07-Jun-2019	08-Jun-2019	1 Day(s)	D-D	As reported by the animal owner a dog (no more details available) was treated with ´a Spot On Product´(MAH comment Frontline Spot-on H 20 was set as best guess) on 7 June 2019. 24 hours later, the dog reacted with ´poisoning symptoms´, did not want to eat or drink and felt weak. On 9 June 2019 the dog started eating and drinking again, weakness remained. On 11 June, the dog showed no more weakness, ´but is still not as before´ (not further specified). No more details available.
17-Jun-2019	UAE; 19DE000561; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jun-2019	02-Jun-2019*	1 Day(s)	D-D	SLEE: as reported by the pet owner a unknwon dog was treated once topically in the neck with FRONTLINE SPOT ON S on 1 Jun 2019 by the owner. On 15 Jun 2019 owner noticed 2 attached ticks, which have not been there in the morning. Another tick was found at the lip (not fed yet).
18-Jun-2019	UAE; 19DE000568; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 32 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-May-2019	31-May-2019	N/A	D-D	SLEE: As reported by the animal owner a dog, 32 kg body weight (no more details available) was treated once topically in the neck with 1 dose FRONTLINE SPOT-ON H 40 by the animal owner on 31 May 2019, due to flea/tick control. After going for a walk, the dog had some ticks. The animal owner also found some stucked ticks. Some days later, some of them were dead, some half-full, some almost dead after more than 48 hours on the dog´s fur. Two and a half weeks later, 10 ticks were found in the household and many more on the dog. No more details available.
24-Jun-2019	UAE; 19DE000591; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2019	2019*	N/A	D-D	SLEE: As reported by the animal owner an unknown dog was treated with FRONTLINE SPOT-ON H 10 (no more details available) by the animal owner, due to flea/tick treatment (no specified period of time). According to the owner the dog has been treated with FRONTLINE SPOT-ON H 10 for the last 4 years with success, but this time the product shows no efficacy against fleas. No more details available.
24-Jun-2019	UAE; 19DE000594; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products	19-Mar-2019	2019	N/A	D-D	SLEE: As reported by the animal owner a 9-year-old female dog (no more details available) has been treated with FRONTLINE SPOT-ON H 20 (no more details available) by the animal owner since 18 March 2019. Since then, the dog has been receiving a dose every 4 weeks (unspecified information on quantity). Despite of using the product regularly, the dog still has a few ticks (3 were

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		Age: 9.00 Year(s) **Weight:** Unknown				**Route:** unknown **Was the product used ok?:** Unknown to Company					found). No more details available.
27-Jun-2019	UAE; 19DE000610; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2019*	2019	N/A	D-D	SLEE: As reported by an online-pharmacy a pet owner complained about his dog still having ticks unknown time after application of FRONTLINE SPOT ON H 40 (batch no S20907AR, expiry date Jun 2021, bought in Feb 2019). No more details.
04-Apr-2019	UAE; 19DK000028; -; Denmark	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 5.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Mar-2019	25-Mar-2019	N/A	D-C	Suspected Adverse Event. As reported by att. Veterinarian a male dog (neutered, mix of Chihuahua and Pekingese, 4 years, 5.7 kg) in good condition was treated with 0.67 ml Frontline Combo Vet (LOT no. R61922AL). The owner administered the treatment on the skin between the dog's shoulder blades. The treatment was given to protect from tick and flea infestations. Treatment was started on the 25-MAR 2019 and 5 hours after administration of the drug, the dog presented with laboured breathing and seemed more restless. The dog started walking restlessly between the owners all night and couldn't calm down. This lasted all night, though by the next morning it had subsided. The reaction lasted approximately 14 hours. This was the first time the dog had been given Frontline Combo Vet. and no concomitant medication was used.
20-May-2019	UAE; 19DK000044; -; Denmark	**Species:** Canine **Breed:** Cavalier King Charles **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 10.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Feb-2019	01-Mar-2019*	2 Day(s)	D-C	As reported by owners, a healthy 10-year old female intact Cavalier King Charles Spaniel (weight 10.6 kg) received FRONTLINE COMBO VET SPOT-ON 1.34 ml (M) topical in the neck administered by the owners (indoors) on the 27-FEB-2019 due to fleas. A couple of days later the owners noticed a wound at the application site. The wound got bigger and one week post administration the wound fell off (MAH assumed crust) and there was a hole in the dog's skin. The dog was seen by a vet. The wound was cleaned daily with chlorhexidine and the dog was treated with antibiotics. Outcome fully recovered. Other information: The owners have three other cavaliers, they reported that they had used Frontline on their dogs for approx. 15 years periodically.
21-May-2019	UAE; 19DK000045; -; Denmark	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 17 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	11-Apr-2019	12-Apr-2019	1 Day(s)	D-C	As reported by an animal owner by Social Media, a 5-year old female mixed breed dog (Labrador Retriever/Swedish farmdog, 17 kg) received FRONTLINE COMP VET 10-20 KG (M) SPOT-ON (LOT P63210, partial lot - unknown if valid), 1 pipette of 1.34 ml administered topically at the neck area on 11 APR 2019 by the animal owner. 1 day after product administration on 12 APR 2019, the dog experienced a local skin reaction in the neck area, where scratching had occurred until blood appeared. The affected area was treated with Helosan creme (ointment for dry and irritated skin) 5 times a day. 1 month later the skin had almost healed.

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						to Company					
23-May-2019	UAE; 19DK000046; -; Denmark	**Species:** Canine **Breed:** English Bulldog **Sex:** M **Sex qualifier:** - **Age:** 16.00 Month(s) **Weight:** 26 - 27 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-May-2019	19-May-2019	3 Day(s)	D-C	As reported by an owner, a healthy 16 months old male intact English Bulldog (weight 26-27 kg, born 6-JAN-2018) received FRONTLINE COMBO VET (L) SPOT-ON for 20-40 kg topical in the neck administered by the owner on 16-MAY-2019 for prevention of ticks. On the 19-MAY-2019 the dog was very annoyed and had a large bleeding swelling on the neck. The owner cooled the reaction with cold water and subsequently clipped the neck and washed with disinfectant products. The dog got a hot spot and at the time of the report the lesion was still bleeding. The plan was to visit a vet so that the dog could get painmedication. This was the first time the dog received FRONTLINE, the dog had previously received Bravecto chewable tablet (small dose).
29-May-2019	UAE; 19DK000050; -; Denmark	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-May-2019*	N/A	D-D	As reported by the animal owner, an 8-year old female crossbred cat (Maine coon / Norwegian Forest cat, weight unknown) received FRONTLINE COMBO VET FOR CATS 50/60 MG SPOT-ON (lot S40407BW, exp FEB 2021) topically applied in the neck area upon separation of the fur, on a regular basis (dose, exact frequency, and start date unknown) administered by the owner. After product administration (time of onset not specified) the owner found ticks on the cat.
09-Jun-2019	UAE; 19DK000053; -; Denmark	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Apr-2019	01-Apr-2019	N/A	D-D	As reported by the animal owner, a 5 year old female Cocker Spaniel, body weight approx 18 kg received FRONTLINE COMBO VET SPOT-ON DOG M 10-20 KG (Lot R62221AL, exp SEP-2020) topically applied between the shoulder blades by the owner, for tick and flea prevention. First dose was administered on 01 APR 2019 and last dose on 01 JUN 2019 (unknown whether any dose was given between these two dates). The owner noticed that the dog still had ticks, because big, blood filled ticks were found in the home (the owner reported that the problem was since 01-APR-2019). The dog had been treated with FRONTLINE for the past 3 years and the most recent round of treatment started on 01 APR 2019. There were no other pets in the household.
17-Jun-2019	UAE; 19DK000055; -; Denmark	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	25-May-2019	15-Jun-2019*	3 Week(s)	D-D	As reported by the animal owner, an 8-year old female neutered cat (breed unknown, body weight 5 kg) received FRONTLINE COMBO VET FOR CATS (batch, dose, and administration site unknown) administered by the owner on 25 MAY 2019. Approx. three weeks post administration the owner noticed loss of fur on the application site and around the neck. The cat had not previously been exposed to the product.

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						to Company					
21-Jun-2019	UAE; 19DK000058; -; Denmark	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** M **Sex qualifier:** - **Age:** 14.00 Week(s) **Weight:** 6.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	12-Jun-2019	12-Jun-2019	0 Day(s)	D-D	As reported by the animal owner, a healthy 14-weeks old male intact Staffordshire bullterrier, body weight 6.8 kg, received FRONTLINE COMBO 2-10 KG (S), 1 pipette applied on the skin (location unknown, batch unknown) by the owner on 12 JUN 2019 for tick prevention. Approx. 6 hours after application the dog experienced itching all over the body. The itching was still ongoing on the stomach area 1,5 weeks after administration. The dog was treated with an unknown treatment to stop the reaction. The dog had not recovered at the time of reporting.
04-Apr-2019	UAE; 19ES000260; -; Spain	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 3.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** PUREVAX RCPCH; PUREVAX FELV; FIPRONIL 8.3% / S-METHOPRENE 10% / PRAZIQUANTEL 8.3% / EPRINOMECTIN 0.4% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2019	02-Apr-2019	2 Day(s)	D-C	Suspected adverse event: As reported by attending vet, Culete, a 5 years old and 3.6 kg of weight, neutered male European cat, received Purevax RCPCh (batch: L459403, expiry date unknown) and Purevax FeLV (batch: L452633, expiry date unknown), via subcutaneous, administered both by attending vet the 02 nd Apr 2019. That same day, the animal also received Broadline Spot On solution for cats 2.5–7.5 kg (batch and expiry date unknown). Before vaccination the animal was terrified. Between 1 and 2 hours after products administration, the animal experienced some vomits, defecation, apathy and anorexia. It did not present any neurological sign. On the 03rd Apr 2019, the animal received Ranitidine and Maropitant treatment. That afternoon the animal started eating. On the 04th Apr 2019, the animal continued eating but it was not completely recovered. It presented oliguria. Pet owner also commented that the animal received its monthly Frontline Combo administration the 31st Mar 2019. On the 6th Mar 2019 the animal was almost normal and eating. This animal every year receives these same vaccines.
10-May-2019	UAE; 19ES000311; Tarragona; Spain	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Month(s) **Weight:** 3 kg*	2	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Dormisan; Methadone 10 mg/ml (Esteve); Alfaxan 10 mg/ml (Jurox); ANESKETIN 100 mg/ml; Amoxicillin (Syva);	09-May-2019	09-May-2019	0 Day(s)	D-A	Suspected Adverse Event: As reported by the attending vet, a 7-8 month-old and about 3 kg European male cat was anesthetized on 09MAY2019 for castration using 0.12 ml of Methadone 10 mg/ml (Esteve), 0.1 ml of Dormisan (medetomidine), 0.1 ml of Anesketin 100 mg/ml (ketamine) and 0.1 ml of Alfaxan 10 mg/ml (alfaxalone). After surgery, he also received 0.3 ml of amoxicillin (Syva) and 0.12 ml of Metacam 5 mg/ml (meloxicam). At the same time the animal also received Frontline Combo Spot-On Cats (batch and expiry date unknown) topically administered by the attending vet. After product administration the animal experienced stiffness limb and uncontrolled movements, ocular spasms and dilated pupils but there was no hypersalivation. The animal was treated with fluid therapy, atropine and REVERTOR 5 mg/ml (atipamezol) just in case the event was caused by the anesthesia although it was finally ruled out. The site of administration of the pipette was also

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Metacam meloxicam 5 mg/ml injection dog cat; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Contraindication per label)					washed. On 10MAY2019 the animal improved but was apathetic and continued with ocular spasms. On 13MAY2019 he was fine but pupils were still dilated and had ocular spasms. On 15 MAY2019 he was even better although he still had the tic in the eye and fell down after 3-4 steps. Blood test could not be performed as the animal was feral, and was sent back to the animal shelter. That day was treated with corticoids. Infectious disease was also suspected although no blood test could be performed. On the 17th May 2019, the animal was admitted in a vet hospital since it did not blink and had inflamed the left maxillar. A blood analysis was performed and showed mild leukocytosis, neutrophilia and high levels of BUN, P, PT and globulins. A FeLV / FIV test was performed and showed negative results. The eye analysis was normal. On the 19th May 2019, the animal started linking and was improving but prsented convulsions. On the 20th May 2019, the animal was euthanized (intracardiac) due to a worsening. This animal came from an animal shelter
31-May-2019	UAE; 19ES000364; Valencia; Spain	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 23.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-May-2019*	26-May-2019*	1 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Trasto, a 6 years old, 23.3 kg, Border Collie, male dog received 1 pipette of Frontline Combo Spot On for dogs 20-40kg (batch R62003DR and expiry date SEP2020) administered topically by the pet owner on 24MAY2019 or 25MAY2019. One day after product administration the animal experienced diarrhea and apathy. The pet owner did not take the animal to the vet center but gave him a soft diet and then he experienced constipation. The patient has received this product as parasite control treatment since he was a puppy and he had never experienced any adverse event before except for previous dose (in March or April) when he also experienced diarrhoea and apathy. He does not have the MDR-1 gene. UPDATE 11JUL2019: 11-JUL-19 QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 9% SPOT ON Lot# R62003DR, expiry 2020-09-30. Case investigated by France - Toulouse. Final complaint evaluation An adverse event complaint for Frontline Combo Dog L, lot number R62003DR was received by BIAH QA on the 27 May 2019. The complaint description is diarrhea and apathy. Additional information from the customer: The unit corresponds to the new format. This is the first complaint for this batch. The retention sample is conform (aspect). The complaint sample has been received on the 12 June 2019 and is conform (aspect of box, blisters). Batch record review: bulk batch R620. Manufacturing date: 02/10/2017- Expiry date: 09/2020 - Manufacturing quantity: 2400 liters. No deviation and observation are associated to this batch. This batch was not concerned by any change control. The results of QC testing are conform at specifications. All parameters verified during manufacturing of this batch of bulk are conform. Root cause: not established on Toulouse plant. Description: After verification of batch records, certificate of analysis and complaint sample, no relation can be established between this related adverse event and the
31-May-2019	UAE; 19ES000383; -; Spain	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	23-Apr-2019	07-May-2019*	N/A	D-D	Suspected Lack of Efficacy: As reported by the pet owner, a 1 year old, approximately 5 kg, European, male cat received 2 pipettes of Frontline Combo (batch and expiry date unknown) administrated topically by the pet owner on 23APR2019 and on 23 MAY2019. In APR2019, the animal owner found that the animal was infested with fleas and started the antiparistic tretament. 15 days after product administration the patient was still infested with fleas. The animal is indoor.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					
06-Jun-2019	UAE; 19ES000409; Granada; Spain	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	May-2019*	04-Jun-2019	4 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal owner, a Persian cat (age and gender unknown) received Frontline Combo Spot on cats (batch and expiry date unknown) administrated topically by pet owner in, approximately, MAY2019 (exact date unknown). On 04JUN2019, pet owner commented in a social media that the cat continued with fleas. On 07JUN2019, owner commented that the cat was infested with fleas and that today she has removed a flea from the animal's face. It is an indoor animal adopted this year that lives with two dogs which also had fleas. Their home is located near the beach and a park where there are many abandoned cats. The same owner has reported a similar case with another antiparasitic product (see case 19ES0003408).
12-Jun-2019	UAE; 19ES000436; -; Spain	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 4 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-May-2019	07-Jun-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy: As reported by the pet owner, a 10 years old and approximately 4 kg, Persian, female cat received 1 pipette of Frontline Spot On Cats (batch and expiry date unknown) administrated topically by the pet owner on 31MAY2019. On 07JUN2019 the animal stopped to scratch herself, but one week after product administration the animal presented pruritus again. On 13JUN2019 the animal continued with pruritus. The owner does not administrate the product monthly. Usually, she does it every 3 months. The animal lives with an outdoor dog, but this animal is not infested with fleas, but sometimes he had been infected with ticks.
02-May-2019	UAE; 19FI000016; -; Finland	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 9 - 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	22-Apr-2019*	27-Apr-2019*	5 Day(s)	D-D	SLEE. As reported by a dog owner, a 9-10 kg mixed breed dog received FRONTLINE 100 MG/ML SPOT-ON (lot S20123AX exp. 12/2020) 0.67 ml to dogs <10 kg, route unknown administered by the owner, as a tick repellant on the 22-APR-2019 (approx. date). On the approx. 27-APR the owners took the dog for a walk and when they arrived at home they found 9 ticks from the dog and one of them was on the bedroom carpet. This was the first time FRONTLINE was used, previously a competitor product (not specified) had been used and no ticks were found within four weeks after adm. The owner was annoyed because they did not like ticks in the house and that the dog had to suffer from ticks , biting on the neck fairly close to the spot where the solution had been administered. The ticks were very vital and one by one more were found several days after the visit in nature. 21-MAY-19 QA results received: Investigation cancelled for FIPRONIL SPOT ON DOG Lot# S20123AX, expiry 2020-12-31. Case investigated by France - Toulouse. Gotrack complaint cancelled on 2019-05-21. Reason for cancellation: Cancelled as per attached email. Final complaint evaluation.
21-May-2019	UAE; 19FI000020; -; Finland	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	03-May-2019	10-May-2019*	1 Week(s)	D-D	As reported by an animal owner, a dog (18 kg) received FRONTLINE COMP M (134 MG/120 MG) SPOT-ON between the shoulder blades, administered by the owner on 03 MAY 2019 (dose and frequency unknown). One week after product administration the owner found one tick and after two weeks a second tick was found (dates not specified).

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: - **Weight:** 18 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					
22-May-2019	UAE; 19FI000021; -; Finland	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	06-May-2019*	13-May-2019*	1 Week(s)	D-D	As reported by an animal owner, three cats (gender, age, weight and breed unknown) in good state of health received FRONTLINE COMP CAT SPOT-ON (Lot T40115AW, exp 31 DEC 2021, valid) route and dose unknown on 06 MAY 2019 approx. One week after administration (date not specified) the owner found ticks under the neck of one cat. A nodule appeared in the skin after removal of the first tick. Additional ticks were found approx two weeks after administration and a total of 4 ticks was found on the cat. No ticks were found on the other two cats.
03-Jun-2019	UAE; 19FI000022; -; Finland	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Indication not indicated / recommended)	01-May-2019*	08-May-2019*	1 Week(s)	D-D	As reported by the animal owner, a dog (breed, sex, age and weight unknown) received FRONTLINE VET SPOT-ON DOG M (Lot S20321BX, exp FEB 2021) dose, frequency and route unknown administered by the owner (date unknown, date has been estimated by MAH for submission purpose) as tick repellent (off label indication: FRONTLINE is an insecticide/acaricide). Approx 1 week after administration the owner found a tick on the dog (date not specified).
31-May-2019	UAE; 19FI000025; -; Finland	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Indication not indicated / recommended)	01-May-2019*	08-May-2019*	1 Week(s)	D-D	As reported by an animal owner, a cat (breed, age, weight and sex unknown) received FRONTLINE VET 100 MG/ML FOR CATS (Lot T20314AX exp. DEC 2021) route and dose unknown, administered by the owner (date not specified, MAH estimated in MAY-2019) as tick repellent (off-label indication: FRONTLINE is an ascaricide/insecticide, not a repellent VMP). Approx. one week after product administration the owner found two ticks on the cat.
01-Apr-2019	UAE; 19FR000426; -; France	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Neutered **Age:** 2.00 Year(s)	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	26-Mar-2019	29-Mar-2019	3 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, Ninja (a 2-year-old spayed female European cat, 4 kg) and Biloo (a 3-year-old neutered male crossbred Siamese and Carthusian cat, 6 kg), in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S40906AW, Exp. date: JUN 2021) administered topically by the owner between the shoulders on 26 MAR 2019 for tick treatment. The product was efficient immediately after administration but 3 days after product

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		Weight: 4 - 6 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					administration, on 29 MAR 2019, the animals experienced a lack of efficacy. 5 days after product administration, ticks attached again to the two animals. At the time of this report, no further information. Note: it was reported that FRONTLINE COMBO SPOT ON CHAT had previously been administered to the two animals for flea treatment with good efficacy.
09-Apr-2019	UAE; 19FR000467; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Mar-2019*	21-Mar-2019*	N/A	D-D	FR-ANMV-19 ANMV 00790: A cat sensitive to flea bites (displays cutaneous lesions needing to be treated with corticoids as soon as fleas are on the cat) was regularly treated with FRONTLINE COMBO SPOT-ON CAT by the owner (date of 01 March 2018 given as an example, as the owner reported the case several months later to the attending vet, and the situation had reoccured several times). The owner noticed that following the administration of the treatment (that was still effective at the beginning), pruritus started again after 3 weeks (instead of 28 days as mentioned in the SPC). The owner stopped to administer FRONTLINE COMBO and changed for COMFORTIS, that provides the expected one-month efficacy (no observed pruritus). Reason for treatment: curative.
11-Apr-2019	UAE; 19FR000482; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	28-Mar-2019	30-Mar-2019	2 Day(s)	D-B	FR-ANMV-19 CPVL 00464: D0: European cat applied with FRONTLINE COMBO SPOT-ON CHAT. D2 : onset of ataxia. D6: second application of same FRONTLINE COMBO. Ataxia worsened. D11: vet phonecall, at first examination. Animal still ataxic, lethargic, with pale mucous membranes. At auscultation, tachycardia with cardiac murmur. Blood work confirms anaemia (3 g/dL Hemoglobin). Duration of reaction: < or = 14 days. Duration of reaction (precision): ongoing (9 days). Reason for treatment: ectoparasites. Treatment of SAR: Vitamine K1. Investigations: Anticoagulant rodenticide poisoning. Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette; duration: once; onset time: 2 days.
11-Apr-2019	UAE; 19FR000487; -; France	**Species:** Canine **Breed:** Canine Other **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 12 - 14 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	31-Mar-2019*	31-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, two female dogs (one 10-year-old crossbred Dachshund, 12 kg, owning to the reporter's mother and one 4-year-old Bulldog dog, 14 kg) received each one pipette of FRONTLINE SPOT-ON CHIEN M (BN: S20916BX, Exp. date: JUN 2021) administered by the owner at the end of MAR 2019 for tick control. After product administration (unknown time to onset), new ticks were seen on the animals. No further information was available at the time of this report. Note: the animals had been treated with FRONTLINE since several years (unknown dates of administration) without any lack of efficacy. They are usually bathed one week before administration. Note: the owner has also 5 European cats.
15-Apr-2019	UAE; 19FR000499; -; France	**Species:** Canine **Breed:** Cavalier King Charles **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Apr-2019*	01-Apr-2019*	0 Day(s)	D-C	FR-ANMV-19 CPVL 00471: Cavalier King Charles Spaniel dog applied with FRONTLINE SPOT ON CHIEN M. Note : atopic animal. Note 2 : used to be applied with permethrin-based spot-on since very young, without incident. Within a few hours, it displayed muscle tremor, associated with anxiety (almost panic, or as if hallucinated). Spontaneous recovery within 24 hours. Duration of reaction: < or = 24 hours. Duration of reaction (precision): 12-24 hours. Reason for treatment: ectoparasites. FRONTLINE SPOT ON CHIEN M () : 1 pipette; duration: once; onset time: < a few

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Unknown to Company					hours.
16-Apr-2019	UAE; 19FR000505; -; France	**Species:** Feline **Breed:** Birman **Sex:** U **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Apr-2019	16-Apr-2019	11 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 7-year-old Birman cat, 4 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S40306AW, Exp. date: JUN 2021) administered topically by the owner in the neck on 05 APR 2019 for flea treatment. 11 days after product administration, on 16 APR 2019, fleas were still seen on the animal that lives exclusively indoors. No further information was available at the time of this report.
16-Apr-2019	UAE; 19FR000506; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	21-Mar-2019	21-Mar-2019	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animals' owner, 3 adult cats (a 1.5-year-old male cat, a 3-year-old female cat, and a 9-year-old female cat) received each one pipette of FRONTLINE SPOT-ON CHAT (BN: F21510AX, Exp. date: SEP 2020) administered topically by the owner between the shoulders on 21 MAR 2019 for flea treatment. After product administration (unknown time to onset), fleas were still visible on the animals. The owner treated the environment against fleas (unknown product). No further information was available at the time of this report. Note: the three animals had been treated with FRONTLINE SPOT-ON CHAT on 20 FEB 2019 and 11 MAR 2019 without any lack of efficacy.
26-Apr-2019	UAE; 19FR000540; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	18-Apr-2019	21-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a female cat, 4 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S40605AW, Exp. date: MAY 2021) administered topically by the owner in the neck on 18 APR 2019 for flea treatment. About 3 days after product administration, around 21 APR 2019, fleas were still visible on the animal. It was treated with ADVANTIX or ADVANTAGE (the owner could not remember) and recovered on an unknown date. Note: the product had been purchased at a pharmacy. The owner reported that she had treated the entire house with a special fogger for bedding and furniture (unspecified). The owner and her children were bitten by fleas. The owner had been using the product over more than the past twenty years on her cats without any lack of efficacy.
26-Apr-2019	UAE; 19FR000541; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	26-Apr-2019	28-Apr-2019	2 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, a female European cat, aged between 7 and 8 years old, 4.5 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S40605AW, Exp. date: MAY 2021) administered topically by the owner between the shoulders at the base of the neck on 26 APR 2019. 2 days after product administration, on 28 APR 2019, the animal experienced application site hair loss (behind the head and between the shoulders) with application site pruritus (but no erythema). No further information was available at the time of this report. The owner reported that the animal had already received FRONTLINE COMBO SPOT-ON CHAT but without any adverse reaction and

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					neither after application of products from others brands (unspecified).
02-May-2019	UAE; 19FR000552; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	14-Apr-2019	14-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 10-year-old male European cat, 6 kg, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S40107DW, Exp. date: DEC 2020) administered topically by the owner in the neck on 14 APR 2019 for tick treatment. After product administration (unknown time to onset), ticks were still visible on the animal. The owner administered a second pipette on 19 APR 2019 but no improvement was noticed. No further information was available at the time of this report. Note: the owner reported that she had been using the FRONTLINE range for nine years without any lack of efficacy.
29-Apr-2019	UAE; 19FR000561; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 7.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	25-Apr-2019	26-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, a 8-year-old male European cat, 7.5 kg, ID 500439291, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R40405CW, Exp. date: FEB 2020) administered topically between the shoulders at the base of the neck by the owner on 25 APR 2019 for flea treatment. 1 day after product administration, on 26 APR 2019, the animal experienced application site hair loss. It recovered spontaneously on an unknown date but the owner reported that on 02 MAY 2019 hairs were regrowing. Note: The owner had applied the first four pipettes from the same package on the animal (unknown dates of administration) without any adverse event.
06-May-2019	UAE; 19FR000577; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-May-2019	05-May-2019*	0 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, Neige, a 1-year-old spayed female European cat, 3 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: SA0306BW, Exp. date: JAN 2021) administered topically between the shoulders by the owner on 05 MAY 2019 in prevention. After product administration, during the night between 05 and 06 MAY 2019, the animal experienced unusual behaviour with excitation and irritability and it urinated in a plant (it had never done this before). No further information was available at the time of this report.
07-May-2019	UAE; 19FR000583; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	25-Apr-2019	30-Apr-2019	5 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, Chatminou, a 8-year-old neutered male European cat, 6 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S41403AW, Exp. date: OCT 2021) administered topically between the shoulders by the owner on 25 APR 2019 for tick treatment. 5 days after product administration, on 30 APR 2019, the animal experienced application site hair loss and reddening of the skin. It was seen by a vet who could not find an explanation to the observed signs. The animal was treated with Vetramil spray but the reaction was still ongoing at the time of this report. Note: the animal had already received a pipette of

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						product used ok?: Unknown to Company					FRONTLINE COMBO SPOT ON CHAT (BN: S41403AW, Exp. date: OCT 2021) administered topically between the shoulders by the owner on 11 APR 2019 for tick treatment. It had also been administered a BOBMARTIN product (NOS) on 06 MAR 2019 and BRAVECTO on 29 MAR 2019.
09-May-2019	UAE; 19FR000587; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2 - 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019	01-May-2019*	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, a 1-year-old male cat, 2 to 3 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S41413BW, Exp. date: OCT 2021) administered at the base of the neck between the shoulders by the owner on 01 MAY 2019. Since product administration (unknown time to onset), the animal had been experiencing hypersalivation and lethargy, had not been drinking or had been drinking very little, and had been not eating for more than one week at the time of this report. On 09 MAY 2019, the reaction was still ongoing. No further information was available. Note: the animal had received for the first time FRONTLINE COMBO SPOT-ON CHAT in APR 2019 (date unspecified) without any reaction. Case considered as serious regarding long-duration anorexia.
13-May-2019	UAE; 19FR000597; -; France	**Species:** Feline **Breed:** Birman **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 4 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2019	06-May-2019	1 Day(s)	D-B	FR-ANMV-19 CPVL 00623: D0 afternoon: 3 cats were applied with FRONTLINE COMBO SPOT-ON CHAT. One of them licked another cat also treated. D0-D1 night: it displayed trembling. D1-D2 night: it displayed 3 episodes of convulsions. The 3 cats were washed with soap. Convulsion treated with diazepam and medetomidin and fluids therapy. D2 morning: no more convulsions but still trembling, and anorexia. D3: trembling, anorexia, and one episode of convulsion. D4 to D6: trembling, no more anorexia. D6: complete recovery. Duration of reaction: < or = 7 days. Duration of reaction (precision): 6 days. Reason for treatment: Preventive. Treatment of SAR: Washing, Diazepam, Medetomidin, Fluids. Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette per cat; duration: once; onset time: 11 hours.
12-May-2019	UAE; 19FR000616; -; France	**Species:** Feline **Breed:** Norwegian Forest Cat **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** PRATEL; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	11-May-2019	12-May-2019	1 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, 3 cats received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN and exp. date: unknown) administered topically at the base of the neck between the shoulders by the owner on 11 MAY 2019. 1 day after product administration, on 12 MAY 2019 in the morning, the biggest and youngest animal (a male Norwegian Forest cat, aged 5 to 6 years old, 6 kg, in good condition) experienced cough (trying to vomit), vomiting , apathy, and anorexia. It was in a very bad shape. On his sister-in-law's advice (who worked in a veterinary practice), the owner washed the animal. It recovered on 13 MAY 2019. Note: PRATEL (dewormer) was administered to the animal one week before the administration of FRONTLINE COMBO SPOT-ON CHAT. The two other European cats treated concomitantly with the same product did not experience any sign. This case is linked with the case 19FR626: non-serious AE in the same 3 cats after administration of the same product 2 months earlier.
13-May-2019	UAE; 19FR000617; -; France	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	10-May-2019	10-May-2019	Immediately	D-D	Suspected Adverse Event: As reported by the animal's owner, a 2-year-old female Pinsher dog, 10 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHIEN S (BN: R61707AL, Exp. date: JUL 2020) administered at the base of the neck between the shoulders by the owner on 10 MAY 2019 for flea treatment. Immediately after product administration, the animal

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 2.00 Year(s) **Weight:** 10 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					experienced vomiting and had been vomiting for 3 days until the time of this report. No further information was available at the time of this report.
16-May-2019	UAE; 19FR000624; -; France	**Species:** Rabbit **Breed:** Dwarf **Sex:** F **Sex qualifier:** Not applicable **Age:** 7.00 Year(s) **Weight:** 1.5 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	23-Apr-2019	25-Apr-2019	2 Day(s)	D-D	FR-ANMV-19 CPVL 00565: D0: 2 Dwarf rabbits applied with FRONTLINE COMBO SPOT-ON CHAT. D1: rabbits fine. D2: they displayed weakness, walking difficulty. Not known to vet if eating or anorexia (not presented to vet at time of phone call report). Duration of reaction: < or = 6 hours. Duration of reaction (precision): ongoing (< 6 hours). Reason for treatment: preventive. Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette per rabbit; duration: Once; onset time: 2 days.
12-May-2019	UAE; 19FR000626; -; France	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	11-Mar-2019*	11-Mar-2019*	8 Week(s) 6 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, 3 cats (2 European cats (unknown signalment) and 1 male Norwegian Forest cat, aged 5 to 6 years old, 6 kg, in good condition) received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN and exp. date: unknown) administered topically at the base of the neck between the shoulders by the owner around 11 MAR 2019. After product administration (unknown time to onset), the animals experienced profuse eye-watering and "they were not well" (encoded as "Loss of condition" into Veddra). No further information was available at the time of this report. This case is linked with the case 19FR616: non-serious AE in 1 of those 3 cats (male Norwegian Forest cat) after administration of the same product 2 months later. According to the owner's report on 12 MAY 2019, the 3 animals had recovered.
04-Jun-2019	UAE; 19FR000699; -; France	**Species:** Rabbit **Breed:** Dwarf **Sex:** F **Sex qualifier:** Not applicable **Age:** 2.00 Year(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	26-May-2019	31-May-2019	5 Day(s)	D-B	FR-ANMV-19 CPVL 00734: D0: Dwarf Lop rabbit applied with 1 pipette of FRONTLINE SPOT ON CHIEN S. D4: it displayed convulsion. Final outcome unknown (animal discharged with poor prognosis). Duration of reaction: < or = 12 hours. Duration of reaction (precision): ongoing (6-12 hours). Reason for treatment: ectoparasites. Treatment of SAR: unspecified. Investigations: none. Outcome of SAR: Unknown. FRONTLINE SPOT ON CHIEN S () : 1 pipette 67mg; duration: once; onset time: 4 days.
28-May-2019	UAE; 19FR000701; -; France	**Species:** Canine **Breed:** Tulear Cotton	1	1	1	**Product used:** FIPRONIL 10%/S	Mar-2019*	27-Mar-2019	N/A	D-A	ADVERSE REACTION and LACK OF EFFICACY case: As reported by the owner, a 4 year-old (approx. age) crossbred Tulear Cotton (sex and weight unknown) had received topically

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		Sex: U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					FRONTLINE COMBO SPOT ON CHIEN S (BN: S62404AX and exp. date: AUG 2021) administered by the owner in MAR 2019 (no mention of exact date of treatment, supposedly in MAR). On 27 MAR 2019, a tick was found on the dog. On 30 MAR 2019, the dog was taken to a vet in emergency (clinical signs nos), where piroplasmosis was confirmed (nos) and treated (nos). On 01 APR 2019, a stroke and a pancreatitis were diagnosed (nos). The dog was euthanized on 02 APR 2019. The owner mentioned that her dog could have lived 6 to 12 months again (nos). Note: According to the owner, the dog was treated with FRONTLINE its whole life and never had ticks before the one involved in this AE. This case is linked with the case 19FR703. Case considered as both SLOE (one tick observed) and AE (stroke and pancreatitis), therefore both problem types were chosen. Cases initially reported as a comment in a merchant website (then owner directly contacted by PV service to obtain further information).
28-May-2019	UAE; 19FR000703; -; France	**Species:** Canine **Breed:** Welsh Corgi **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-May-2019*	13-May-2019*	0 Day(s)	D-D	LACK OF EFFICACY case: As reported by the owner, a 4 year-old (approx. age) crossbred Welsh Corgi/ Golden Retriever (sex and weight unknown) had received topically FRONTLINE COMBO SPOT ON CHIEN S (BN: S62404AX and exp. date: AUG 2021) administered by the owner on 21 APR 2019 and 13 MAY 2019 (approx. date). After product administration (time to onset nos), ticks were still found on the dog almost everyday. No further information at the time of the report. Note: the dog was also treated with an essential oil collar. The owner had planned to use Advantix as "treatment". This case is linked with the case 19FR000701. Cases initially reported as a comment in a merchant website (then owner directly contacted by PV service to obtain further information).
03-Jun-2019	UAE; 19FR000718; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	11-May-2019	11-May-2019*	0 Day(s)	D-A	Suspected Adverse Event: As reported by the animal's owner, a 11-year-old female cat in good condition received one pipette of FRONTLINE SPOT-ON CHAT (BN: S40906AW, Exp. date: JUN 2021) administered topically by the owner between the shoulders at the base of the neck on 11 MAY 2019. After product administration (unknown time to onset), the animal experienced decreased appetite, smaller eyes (encoded as "Third eyelid extrusion" into Veddra), slightly greasy hairs all over the body, and low pitched mewing. It did not want to come home and died on 28 MAY 2019. The animal was not seen by a vet but the owner is convinced that death is consecutive to product administration.
04-Jun-2019	UAE; 19FR000734; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4.7 kg	2	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	29-Apr-2019	02-May-2019	3 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, two cats received one pipette of FRONTLINE SPOT-ON CHAT (BN: S21510AX, Exp. date: SEP 2021) administered at the base of the neck between the shoulders by the owner on 29 APR 2019 for flea treatment. 3 days after product administration, on 02 MAY 2019, one of the animals (a 4-year-old male black cat, 4.7 kg, in good condition) experienced application site hair loss. Hairs had not regrown since. No further information was available at the time of this report.

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						to Company					
06-Jun-2019	UAE; 19FR000737; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** Unknown	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	27-May-2019	30-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, 3 female cats (8 months, 4 years, and 5 years of age, respectively) received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R41205AW , Exp. date: NOV 2020) administered topically by the owner at the base of the neck between the shoulders for flea treatment. 3 days after product administration, on 30 MAY 2019, fleas were seen on the 8-month old female kitten that never goes outside whereas no flea was visible on the 2 other treated cats that live partially outdoors. No further information was available at the time of this report.
10-Jun-2019	UAE; 19FR000739; -; France	**Species:** Canine **Breed:** Basset Hound **Sex:** M **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** 37 kg	2	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	20-May-2019	09-Jun-2019	20 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, two dogs (a 3.5-year-old male Basset Hound, 37 kg, in good condition, and a 10-year-old Yorkshire, 7 kg) received one pipette of FRONTLINE SPOT-ON CHIEN (product unsubstantiated) (BN and exp. date: unknown) administered topically by the owner at the base of the neck between the shoulders on 20 MAY 2019 for flea and tick treatment. 20 days after product administration, on 09 JUN 2019, 4 ticks were found within 1 week on the Basset Hound dog. Amongst these 4 ticks, 2 were alive. No further information was available at the time of this report. Note: more generally, the owner reports that he finds more ticks on his Basset Hound dog than on his Yorkshire dog (on which he sees one tick from time to time).
12-Jun-2019	UAE; 19FR000740; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Jun-2019	08-Jun-2019	4 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, Harry, a 14-year-old neutered male European cat, 5 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S41102AW, Exp. date: AUG 2021) administered topically by the owner on 04 JUN 2019 for prevention. 4 days after product administration, on 08 JUN 2019, fleas were still visible on the animal. It was treated with FRONTLINE SPRAY 500 mL and recovered on an unkown date. No further information was available at the time of this report. Note the animal had already received FRONTLINE SPRAY 500 mL. This case is linked with the case 19FR741: non serious SLOE in a dog from the same household after administration of FRONTLINE COMBO CHIEN.
12-Jun-2019	UAE; 19FR000741; -; France	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Jun-2019	08-Jun-2019	4 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, Igor, a 6-year-old neutered male Boxer dog, 30 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHIEN L (BN: S63405AX, Exp. date: OCT 2021) administered topically by the owner on 04 JUN 2019 for prevention. 4 days after product administration, on 08 JUN 2019, fleas were still visible on the animal. It was treated with FRONTLINE SPRAY 500 mL and recovered on an unkown date. No further information was available at the time of this report. Note the animal had already received FRONTLINE SPRAY 500 mL. This case is linked with the case 19FR740: non serious SLOE in a cat from the same household after administration of FRONTLINE COMBO CHAT.

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11-Jun-2019	UAE; 19FR000744; -; France	**Species:** Canine **Breed:** Canine Other **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 53 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Jun-2019	07-Jun-2019	5 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 4-year-old male Canarian dog, 53 kg, in good condition received one pipette of FRONTLINE COMBO SPOT-ON CHIEN XL (BN: S62505AX, Exp. date: 08 2021) administered topically by the owner between the shoulders on 02 JUN 2019 for prevention. 5 days after product administration, on 07 JUN 2019, the animal was seen by a vet who diagnosed piroplasmosis. The animal was treated with antibiotics and the case was ongoing at the time of this report. The vet's level of suspicion was high. Note: the animal had already been treated with FRONTLINE COMBO SPOT-ON CHIEN XL on 29 MAY 2019.
18-Jun-2019	UAE; 19FR000748; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 3.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	11-Jun-2019	14-Jun-2019	3 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, a female European cat, 3.2 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S40906AW, Exp. date: JUN 2021) administered topically in the neck by the owner on 11 JUN 2019 for flea treatment. 3 days after product administration, on 14 JUN 2019, the animal experienced application site hair loss and redness. The case was ongoing at the time of this report.
21-Jun-2019	UAE; 19FR000772; -; France	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	15-Apr-2019	15-Apr-2019*	N/A	D-D	LACK OF EFFICACY case: As reported by the owner, a female dog (age and breed unknown) weighing 30 kg had received FRONTLINE SPOT-ON CHIEN L (1 dose, BN: P21205AX and exp. date: AUG 2019) administered by the owner on 15 APR2019, 01 MAY 2019 and 20 MAY 2019. From the first application (time to onset nos), the animal still had ticks. The owner decided to apply another dose on 01 MAY 2019 and on 20 MAY 2019. At the time of the report, there were no improvement. Note: the dog had received the product in the past (date nos) and the owner were pleased with it.
09-May-2019	UAE; 19HU000007; -; Hungary	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	01-Apr-2019*	07-Apr-2019*	6 Day(s)	D-D	Suspected lack of expected efficacy: as reported by the owner canine (other signalment unknown) received Frontline combo spot on dog 10-20 kg administered by unknown person on unknown date (date 1 APR 2019 placed by default). Product was bought on 28 MAR 2019 for prevention and treatment of flea infection. 1 week after product administration the animal experienced scratching more than ever, also fleas were persist. Animal was bathed before the treatment, as well as whole house was cleaned as before. Product was used before.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						to Company					
09-May-2019	UAE; 19HU000008; -; Hungary	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Apr-2019*	07-Apr-2019*	6 Day(s)	D-D	Suspected lack of expected efficacy: as reported by the owner feline (other signalment unknown) received Frontline combo spot on cat administered by unknown person on unknown date (date 1 APR 2019 placed by default). Product was bought on 28 MAR 2019 for prevention and treatment of flea infection. 1 week after product administration the animal experienced scratching more than ever, also fleas were persist. Animal was bathed before the treatment, as well as whole house was cleaned as before. Product was used before.
19-Jun-2019	UAE; 19HU000015; -; Hungary	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 4 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Sep-2018*	27-May-2019	1 Week(s)	D-D	Suspected adverse event/Suspected lack of expected efficacy: as reported by the animal owner, two canine (poodle, 15 years old, 8 kg weight, male, neutered and 3 years old, 4 kg weight female intact) well cared, unknown health status received FRONTLINE COMBO SPOT ON S (batch and exp unknown) on the back of the neck, a section about a finger's length, 1 entire pipette per animal, administered by the owner in autumn 2018 (20 SEP 2018 entered by default) and on 20 MAY 2019 for prevention and treatment of ticks and fleas. Product was applied directly on the skin. The dogs did not became vet and were not bathed within 2 days from application, tickes and flease are checked regularly on the animals (3 times per week brushing). 2 weeks after product administration the owner removed a live, blood-filled tick from the male dog and also found fleas on the female dog. The owner has never expereineced something like this before,even if they usually encounter and play with other dogs during walks. No further ticks found thereafter. The product has been used by the owner for long time (though less often in the winter period). This was the first time that the usual odour at application was absent and the consistency of the drops was also different, as if it was only water, without the usual oily feel. Moreover, 1 week after product application the animals experienced drowsiness and loss of appetite, and there was even some acidic vomiting. Outcome of reaction is unknown.
16-Apr-2019	UAE; 19IT000049; -; Italy	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	14-Apr-2019	14-Apr-2019	N/A	D-D	As reported by the Owner, a dog, mixed breed, female, 1 years old, 20 kg, neutered received 1 dose of Frontline Spot On Dog, topical, batch n. R21315BX, exp. date July 2020. The product was administered by the owner on 14 April 2019 in order to protect the dog from the fleas/ticks attack. 72 hours after product administration the owner still saw ticks on the dog.
06-May-2019	UAE; 19IT000061; -; Italy	**Species:** Feline **Breed:** - **Sex:** F **Sex qualifier:** - **Age:** 10.00	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	03-May-2019	04-May-2019	N/A	D-A	As reported by the owner, a cat, female, intact, 10 moths old received 1 dose of Frontline Combo Spot On Cats on 03/05/2019 in the morning administered by the owner. 24 hours after product administration the animal experienced depression and lack of appetite. On 05/05/2019 (Sunday) the

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Month(s) **Weight:** -				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					owner found the cat died The owner reported that the cat go outside and in his opinion the cat found some poison there
08-May-2019	UAE; 19IT000062; -; Italy	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** - **Was the product used ok?:** Unknown to Company	29-Apr-2019*	08-May-2019	N/A	D-D	As reported by the owner, a cat received 1 dose of Frontline Combo Spot On Cats administered by the owner. 10 days after product administration ticks are still present on the animal.
24-May-2019	UAE; 19IT000066; -; Italy	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (zzOff label use / Indication)	18-May-2019	18-May-2019	N/A	D-D	As reported by the Owner, a cat, male, European, 14 years old, neutered, 5 kg received Frontline Combo Spot On Cats on 06 May 2019 and on 18 May 2019 administered by the owner. The owner suspect lack of efficacy because the product didn 't work after these two administrations (prodcut administered not respectin 1 month between the two administrations) and the animal already had fleas.
25-May-2019	UAE; 19IT000069; -; Italy	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-May-2019	25-May-2019	N/A	D-D	As reported by the Owner, a cat, received 1 dose of Frontline Combo Spot On Cats, cutaneously, at the base of the skull between the shoulders , batch n. R41202AW, exp. date 11/2020, administered by the owner on 23 May 2019. As reported by the owner the animal spends most time of the day outside. 2 days after product administration the owner found a single tick on her cat neck. The owner suspect lack of efficacy.
31-May-2019	UAE; 19IT000070; -; Italy	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** - **Age:** 8.00	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	May-2019*	May-2019*	N/A	D-D	As reported by the Owner, a cat, female, European, intact, 8 months old, 2 kg weight received Frontline Combo Spot On Cats, cutaneously, batch n. R40807AW, exp. date 07/2020, administered by the owner on May 2019. After product administration the cat experienced foam in the mouth

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Month(s) **Weight:** 2 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Others)					and it continues to lick the area where the product was administered.
01-Jun-2019	UAE; 19IT000071; -; Italy	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 - 20 kg	-	-	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	28-May-2019	28-May-2019	N/A	D-D	As reported by the Owner, a dog, weight from 10 to 20 kg received Frontline Spot On Dog administered by the owner on 28 May 2019. After product administration the animal experienced already ticks on its skin. However after product administration fleas have disappeared. The owner suspects a partial lack of efficacy of the veterinary medicinal product.
03-Jun-2019	UAE; 19IT000072; -; Italy	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	03-May-2019	N/A	D-D	As reported by the Vet, a cat, male, European, 1 year old, 4 kg weight, neutered received 1 dose of Frontline Combo Cats, topical, intrascapular, batch n. S40102CW, administered by the Vet on 01 May 2019. 2 days after product administration the animal experienced alopecia and itchy skin lesion at the point of application. The animal was treated with cortisonic and after this treatment both itchy and skin lesion almost disappeard. After 1 week a new alopecia area appeard spontaneously, smaller than the first one but with the same features. In order to treat the adverse reations were used: Depo medrol 10mg IM (2 treatments during one week); At the moment, Leniderm baths are used every 15 days.
19-Jun-2019	UAE; 19IT000084; -; Italy	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** M **Sex qualifier:** - **Age:** 8.00 Year(s) **Weight:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	17-Jun-2019	17-Jun-2019	N/A	D-D	As reported by the Vet, a dog, mixed breed, male, 8 years old, intact received 1 dose of Frontline Combo Spot On Dogs 10-20 kg, topically administered by the owner. 1 hour after product administration the animal experienced intense agitation. The symptomatology gradually disappeard and the animal recovered. The product has been administered together with another antiparasitics (scalibor collar) as already done in the past, under vet racomandation
20-Jun-2019	UAE; 19IT000085; -; Italy	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 17 kg	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	11-Jun-2019	11-Jun-2019	N/A	D-D	As reported by the Owner, a dog, female, 13 years old, 17 kg weight, neutered received 1 dose of Frontline Combo Spot On Dogs 10-20 kg, topically, intrascapular, on 11 June 2019, batch number 561703BL, exp. date June 2021 administered by the owner. After product administration the owner suspected lack of efficacy because the animal still experieced fleas on its hair. The owner reported also that on 11 May 2019 (a month before), he

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Route: Topical / Cutaneous **Was the product used ok?:** Unknown to Company					administered the same product that was not effictive. The owner reported also that in the same house are living other cats.
24-Jun-2019	UAE; 19IT000086; -; Italy	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4 kg	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Jun-2019	16-Jun-2019	N/A	D-D	As reported by the Owner, two cats, male and female, mixed breed, both 7 years old, both 4 kg weight received 1 dose of Frontline Combo Spot On Cats per each one, exp. date August 2021 administered by the owner. After product administration both animals still experienced fleas on ther hair and also they showed small black spots on them hair (fleas eggs). The owner suspect product lack of efficacy.
07-May-2019	UAE; 19JP000049; Aichi; Japan	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	May-2019*	May-2019*	0 Day(s)	D-D	As reported by the animal owner, Frontline Plus Cat (Lot number, Expiry date and Administration date: Unknown, Topical, between the shoulder blades, 1 pipette) was administered to a 5 years old, 4 kg, female cat (Breed: Unknown) in May 2019. Loss of vigor and anorexia developed after administration and continued for several days. So far, the product (Topical, between the shoulder blades, 1 pipette) was administered monthly for March and April 2019. After each administration, the cat develops the same symptoms and recovers after a while.
23-May-2019	UAE; 19JP000069; Shizuoka; Japan	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 4.4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Prednisolone; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Apr-2019	07-May-2019	25 Day(s)	D-C	As reported by the attending veterinarian, on 12 Apr 2019, Frontline Plus Cat (Lot number, Expiry date: Unknown, Topical, 1 pipette) was administered to a 8 years old, 4.4 kg, female, spayed, mix cat so as not to catch fleas and ticks from another cat that was adopted on the same day. On 15 Apr 2019, the cat was brought to the hospital for a treatment of pre-existing arthritis, but no symptom at the application site or discomfort was observed. On 08 May 2019, the cat visited the hospital with a chief complaint of alopecia at the application site of FLP, sneezing, runny nose and arthritis, which were continuing from the previous day. At that time, the sneezing and runny nose were severe and were treated first. The hair loss was kept under follow-up observation. After that, the owner reported that the cat was scratching a little at the hair loss part. On 16 May 2019, the cat revisited the hospital with a chief complaint of itching. Alopecia at the application site got better but hair loss was observed at a different site (on the belly). There was a scar at the site, which looked like scratches by claws.
14-Jun-2019	UAE; 19JP000112; Osaka; Japan	**Species:** Feline **Breed:** Feline mixed/various breeds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	12-Jun-2019	12-Jun-2019	0 Day(s)	D-C	As reported by the attending veterinarian, the owner has 3 cats and Frontline Plus cat (Lot number: unknown, Expiry date: unknown, Topical, 1 dose) was prescribed for the 3 cats in May 2019. The drug was administered to the cats by the owner, and no

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		Sex: M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 413 kg				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					adverse event was observed at the time. On 12 Jun 2019, the drug was prescribed again for the 3 cats. As the owner administered either on 12 or 13 Jun 2019, loss of vigor was observed in all 3 cats 15 minutes after administration. The symptom was transient in 2 cats and resolved, but the remaining animal became limp and anorexia, and vomitted. The cat was brought to the hospital on 14 Jun 2019 and shampooed, and then administered Cerenia and subcutaneous fluids. On 18 Jun 2019, appetite was back.
14-Jun-2019	UAE; 19JP000113; Osaka; Japan	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	12-Jun-2019	12-Jun-2019	0 Day(s)	D-D	As reported by the attending veterinarian, the owner has 3 cats and Frontline Plus (Lot number: unknown, Expiry date: unknown, Topical, 1 dose) was prescribed for the 3 cats in May 2019. The drug was administered to the cats by the owner, and no adverse event was observed at the time. On 12 Jun 2019, the drug was prescribed again for the 3 cats. As the owner administered either on 12 or 13 Jun 2019, loss of vigor, anorexia and emesiswas observed in all 3 cats 15 minutes after administration. The cat recovered 13 Jun 2019.
14-Jun-2019	UAE; 19JP000114; Osaka; Japan	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 5.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	12-Jun-2019	12-Jun-2019	0 Day(s)	D-D	As reported by the attending veterinarian, the owner has 3 cats and Frontline Plus (Lot number: unknown, Expiry date: unknown, Topical, 1 dose) was prescribed for the 3 cats in May. The drug was administered to the cats by the owner, and no adverse event was observed at the time. On 12 Jun 2019, the drug was prescribed again for the 3 cats. As the owner administered either on 12 or 13 Jun 2019, loss of vigor, anorexia and emesis was observed in all 3 cats 15 minutes after administration. The cat recovered 13 Jun 2019.
08-May-2019	UAE; 19KR000015; -; South Korea	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	11-Mar-2017*	28-Apr-2019	17 Day(s)	D-D	As reported by attending vet, the dog (Chihuahua, 2Y6M, Neutered male, 4kg) was administrated with Heartgard (product unsubstantiated, lot number unknown) and Frontline Plus Dog S (lot number S61005BL) every month from Mar. 2017. After administration on 11 Apr 2019, the owner found a tick that sucked blood from the dog after a walk on 28 Apr 2019. The owner complained about the lack of efficiency of Frontline . The vet removed the tick and then applied the product again. The Idexx 4dx kit test will be performed.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						to Company					
04-Jun-2019	UAE; 19KR000020; -; South Korea	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Neutered **Age:** 7.50 Year(s) **Weight:** 7.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; Cefa (antibiotics); **Route:** unknown **Was the product used ok?:** Unknown to Company	23-May-2019	27-May-2019	4 Day(s)	D-D	As reported by attending vet, the dog (Pomeranian, 7Y6M, Neutered male, 7.2kg) was administrated with Heartgard (Batch no. 8BC0325, expiry date Mar 2021) (product unsubstantiated) and Frontline (Batch no. S61005BL, expiry date Apr. 2021) (product unsubstantiated) on 23rd May. After administration, the dog visited the hospital because a redness and pruritis on 27th May. On 30th May, the dog had a redness, pruritis and oozing (The symptoms are worse). Redness appear clearly on the all application site. The dog are received the treatment with Cefa (antibiotics) and steroid on 30th May. 1st June, the redness improved but oozing and crust were appeared. 4th June, the dog is going to get a check-up. The condition of animal prior to vaccination was good. This product has been used previously and had AE (Alopecia).
11-Jun-2019	UAE; 19KR000022; -; South Korea	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** - **Age:** 9.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	07-Jun-2019	11-Jun-2019*	4 Day(s)	D-C	Suspected Adverse Event: On 11 Jun 2019, the attending veterinarian reported the following event for Jindo, a 9 year 4 month old, intact male unknown canine (other signalment unknown). 7 Jun 2019: The dog received FRONTLINE PLUS DOG L (S61303AR, Apr 2021) applied on the back of the neck. 11 Jun 2019: The dog presented to the animal hospital for redness, skin impetigo, skin tissue damage and pruritus at the application site starting on an unspecified date. The dog was treated with Cephalexin, dexamethasone, prednisolone and famotidine injections. The recovery status is unknown. It is unknown if the pet has received this product before. No further information is expected.
06-Jun-2019	UAE; 19MX000025; Estado de Mexico; Mexico	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	19-Mar-2019	0 Day(s)	D-D	As reported by the attending Veterinarian, a cat (age: 2 years, weight:Unknown, species: feline, breed: Mestizo, reproductive status: intact, female) received FRONTLINE PLUS CAT (batch: unknown, expiry date:October 2019, route: Topic application :application site: between shoulder , dose: 1 pipette/animal) administered by the veterinarian on 19 Mar 2019. three minutes after the application , the animal experienced skin sores in the application site .The animal was treated with calendula ointment and Veterivac (gel based on Electrolyzed Superoxidation Solution with neutral pH and active chlorine and oxygen specie). Duration and frequency of the treatment is unknown .The animal is recovered (date unknown,an approximate date is entered in the descriptions 24 Mar 2019) No further information is expected.
06-Jun-2019	UAE; 19MX000026; Puebla; Mexico	**Species:** Canine **Breed:** Bulldog **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Vetriderm	N/A	05-Apr-2019	0 Day(s)	D-C	As reported by the attending Veterinarian, a dog (age: 3 years, weight:11 kg, species:canine, breed:Bull dog Frances, reproductive status: intact, male) received FRONTLINE PLUS S (batch:004/18A, expiry date:January 2021, route: Topic application :application site: between shoulder , dose: 1 pipette/animal) administered by the staff aft her taked a shower with vetriderm shampo, on 05 Apr 2019. Five hours after the applications the

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Shampoo/ Bayer; **Route:** Topical / Cutaneous **Was the product used ok?:** No (zzOff label use / Indication)					animal experienced vomit (duration and frequency is unknown), on 10 apr 2019 the owners observed the animal experienced skin lesions and sking sores in the application site .The animal was treated with Veterivac spray (solution Electrolyzed Superoxidation Solution with neutral pH and active chlorine and oxygen specie) , cefalexin,prednisolone . Duration and frequency of the treatment is unknown ,the animal is recovered (11 Apr 2019). No further information is expected.
10-Jun-2019	UAE; 19MX000028; -; Mexico	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	21-Apr-2019*	0 Day(s)	D-D	As reported by the attending Veterinarian , a dog (age: 4 years , weight: 6kg, species:canine, breed:French poodle , reproductive status: intact, female) received FRONTLINE PLUS 2-10 kgs (batch:unknown, expiry date:January 2021, route: Topic application :application site: between shoulder , dose: 1 pipette/animal) administered by the vet on 21 Apr 2019. A few days later (number of days are unknown /for data entry purposes in the narrative is referenced 21 April 2019) the animal experienced skin lesions in the application site (alopecia and pruritus) Treatment , duration and frequency of the treatment is unknown . No further information is expected.
02-Apr-2019	UAE; 19NL000048; -; Netherlands	**Species:** Canine **Breed:** Cavalier King Charles **Sex:** F **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Route not indicated / recommended)	15-Nov-2018*	01-Apr-2019*	5 Day(s)	D-D	As reported by pet owner, a 2 year old 10 kilo female King Charles Cavalier dog of unknown reproductive status received FRONTLINE COMBO M batch number and expiry date unknown, cutaneous between the shoulder blades and along its back by the dog owner starting approximately nov-2018 every 4 weeks until latest application on 29-mar-2019. Before application, there were fleas present on the dog. Approximately 01-apr-2019 the animal owner experienced fleas on the dog. The dog is housed and has contact with 1 adult cat and 5 new born kittens. The cat has not been treated for fleas since owner found out she was pregnant, unknown date. The kittens are no treated for fleas. It is unknown if the dog has contact with other animals, apart from the cats it is housed with.
02-Apr-2019	UAE; 19NL000049; -; Netherlands	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** F **Sex qualifier:** Lactating **Age:** 2.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Route not indicated / recommended)	15-Nov-2018*	01-Apr-2019*	6 Week(s) 3 Day(s)	D-D	As reported by pet owner, a 1.5 to 2 year old 5 kilo female Maine Coon kat with intact status, non-pregnant lactating received FRONTLINE Cat batch number and expiry date unknown, cutaneous between the shoulder blades and along its back by the cat owner starting approximately nov-2018 every 4 weeks until latest application on 15-feb-2019 approximately. Before application, there were fleas present on the cat. Approximately 01-apr-2019 the animal owner experienced fleas on the cat. The cat is housed and has contact with 1 dog and 5 new born kittens. The cat has not been treated for fleas since owner found out she was pregnant, unknown date. The kittens are no treated for fleas. It is unknown if the cat has contact with other animals, apart from the dog and kittens it is housed with.
26-Apr-2019	UAE; 19NL000064;	**Species:** Feline **Breed:** -	1	1	0	**Product used:** FIPRONIL	N/A	Apr-2019*	N/A	D-D	As reported by pet owner, cat of unknown age unknown weight of unknown reproductive status received FRONTLINE COMBO KAT

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	-; Netherlands	**Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					once from the cat's owner, after recently being adopted from a shelter. After first treatment with the product, the cat developed a bald spot in the neck. According to the owner, it is not possible for the cat to scratch the bald spot. There were no other reactions. It is unknown if the cat has contact with other animals. It is unknown if the cat is housed with other animals and if the cat goes outside.
30-Apr-2019	UAE; 19NL000066; -; Netherlands	**Species:** Feline **Breed:** European **Sex:** U **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	24-Apr-2019	01-May-2019	1 Week(s)	D-D	As reported by pet owner, cats, 1 and 3 years old of unknown sex, weight and reproductive status received FRONTLINE COMBO KAT by the cats owner once on 24-04-2019. Prior to first treatment, fleas were present on the cats for roughly 1 year. Approximately 1 week after product administration, the animal owner still experienced fleas on the cats on 01-05-2019. The cats are combed by the owner daily, resulting in discovery of 3 fleas per cat per day on average. It is unknown if the cats have contact with other animals. It is unknown if the cats are housed with other animals and if the cats go outside.
29-Apr-2019	UAE; 19NL000068; -; Netherlands	**Species:** Feline **Breed:** European **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Apr-2019	26-Apr-2019*	3 Week(s)	D-D	As reported by pet owner, cat, unknown sex, age, weight and of unknown reproductive status received FRONTLINE SPOT ON KAT by the cat's owner once on 05-04-2019. Prior to treatment, fleas and ticks were present on the cat. Approximately 3 weeks after product administration the owner still found fleas and ticks on the cat. It is unknown if the cats have contact with other animals. The cat lives outside permanently.
02-May-2019	UAE; 19NL000069; -; Netherlands	**Species:** Equine **Breed:** - **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	02-May-2019	02-May-2019	0 Day(s)	D-D	As reported by animal owner, horse, unknown sex, age, weight and of unknown reproductive status received 3 doses of FRONTLINE COMBO HOND XL by the horse owner once on 02-05-2019. 3 doses of the product were applied to the horse, 1 dose behind each ear and 1 dose above the tail. Prior to treatment, lice were present on the horse. After product administration, the owner still found lice.

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14-May-2019	UAE; 19NL000073; -; Netherlands	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 5.25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** NOBIVAC RABIES; milbemax; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2018	10-Apr-2019	N/A	D-B	SAR received 17 April 2019. Maltese dog (female intact, 9y, 5,25kg) vaccinated with Nobivac Rabies on 9 april 2019. It had a pre-existing cardiac murmur on the mitralis valve 4 out of 6 points. And gingivitis, dental plaque, bleeding gums. Advised to schedule a dental cleaning. It has been vaccinated with Nobivac Rabies before without AE . On 10 April; the owner found the dog in the morning, in its bench, lethargic. It looked as if the dog had fainted just before. It recovered but the remainder of the day it was lethargic. At the vet, no abnormalities were found other than the pre-existing murmur. Pulse, temperature, mucous membranes, lung auscultation all ok. 13 April: The dog is still not doing ok: lethargic, anorectic, reduced consciousness once in a while and reduced stamina. Physical examination: full abdomen, pink pale mucous membranes. Ht=17 (ref 42-61). Cardiac ultrasound revealed mitral valve insufficiency and congestion of the left atrium. Blood abnormalities: low albumin, low total protein, low RBC count, hemoglobine and Ht. Low platelets and white blood cell range. Anaemia differential diagnosis according to the vet: parasitical (half a year ago it went to Spain, but it was given Frontline combo monthly and it is treated with milbemax every half year) or immune mediated. The owner doesn't want any additional diagnostics or blood transfusion, so vet is treating the dog symptomatically with vetmedin, furosoral and a decreasing dosage of prednoral. 15 april for control to the vet: still pink pale mucous membranes. enlarged liver when palpated. Undulation positive. Ultrasound abdomen:congested liver lobes and some ascites. Otherwise no abnormalities. Cystocentesis: glucose in urine, and leucocytes. Conclusion from the vet: the dog has 2 problems: clinical mitral valve insufficiency, resulting in ascites and likely generalized edema. And, anaemia. Possibly immune mediated, possibly triggered by vaccination or parasites. Coombs test will be
02-May-2019	UAE; 19NL000077; -; Netherlands	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	02-May-2019*	9 Day(s)	D-D	As reported by pet owner, 2 cats, unknown age unknown weight and of unknown reproductive status received FRONTLINE COMBO KAT by the cats owner for unknown period of time every 4 weeks. Prior to first treatment, -which is of unknown date-, fleas and ticks were present on the cats. The animal owner experienced fleas and ticks on the cats approximately early May 2019. Last product administration was 23-04-2019. The cats are housed with 1 dog, unknown if dog is treated against parasites. The cats go outside. It is unknown if the cats have contact with other animals. Owner has recently moved and suspects a pre-existing flea infestation in the new home. Owner reports no more fleas or ticks are present on the cats on 15-05-2019.
22-May-2019	UAE; 19NL000082; -; Netherlands	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	N/A	17-May-2019	2 Week(s)	D-D	As reported by pet owner, Wendy, a 11 year old 10 kilo female Maltese Chihuahua mix dog of unknown reproductive status received FRONTLINE SPOT ON L batch number and expiry date unknown cutaneous between the shoulder blades by the dog owner on 03-may-2019. Dog has been treated with the product

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		Age: 11.00 Year(s) **Weight:** 10 kg*				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					every 4 weeks for many years. 2 weeks after last product administration on 17-may-2019, the animal owner found 3 living ticks on the dog's head. It is unknown if these were still walking or attached. It is unknown if the dog has contact with other animals. It is unknown if the dog is housed with other animals.
11-May-2019	UAE; 19NL000084; -; Netherlands	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	06-May-2019*	08-May-2019*	2 Day(s)	D-C	As reported by dog owner, a 1 year old 11 kilo neutered female golden labradoodle dog received FRONTLINE COMBO M batch number R62510AL and expiry date nov-2020 cutaneous between the shoulder blades by the dog owner on 06-may-2019. A couple of days after product administration, the animal experienced a bald spot and redened irritation of the skin at the application site. Unknown if veterinarian was consulted and if it was treated. Update 29-may-2019: Owner confirmes the dog could not reach the application site, as such cratching the wound is unlikely. Batch number, expiry date and dog breed inserted.
27-May-2019	UAE; 19NL000086; -; Netherlands	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** - **Was the product used ok?:** Unknown to Company	N/A	2019*	N/A	D-D	Animal owner comments on facebook that her dog (unknown age, weight, sex and condition) was extra itchy and even developed bald spots unknown time after FRONTLINE (unknown which product and strenght) administration at unknown date via unknown route.
27-May-2019	UAE; 19NL000087; -; Netherlands	**Species:** Canine **Breed:** Irish Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-May-2019	13-May-2019*	0 Day(s)	D-D	As reported by pet owner, dog, female Irish Terrier 1,5 years old weighing 14 kilos of unknown reproductive status received FRONTLINE SPOT ON DOG M by the dogs owner once on 13-may-2019 for tick control. After treatment, the owner reports she still found 2 ticks or more on the dog daily, directly after first and only treatment. It is unknown if the dog has contact with other animals. It is unknown if the dog is housed with other animals. The dog is walked in a tick rich environment: dunes, forest or heather. Updated 17-jun-2019: added age and sex of the dog, application date and walking environment.
22-May-2019	UAE; 19NL000089; -; Netherlands	**Species:** Canine **Breed:** Pyrenean Mountain Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 51 - 55 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	2016*	31-Mar-2019	N/A	D-D	As reported by pet owner, a 3 year old 51-55 kilo female Pyrenean Mountain Dog received FRONTLINE COMBO XL batch number and expiry date unknown cutaneous between the shoulder blades by the dog owner for approximately 3 years every 4 weeks for flea and tick control. The last 2 months, starting on 31-mar-2019, the animal owner experienced ticks on the dog. The owner found about 4 - 5 ticks per week on the dog, mainly on the head and groin. It is unknown if the dog has contact with other animals. It is unknown if the dog is housed with other animals.

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						ok?: Yes					
03-Jun-2019	UAE; 19NL000092; -; Netherlands	**Species:** Canine **Breed:** Bernese Mountain Dog **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	2019*	unknown	D-D	As reported by pet owner via social media, female Bernese Mountain Dog, unknown age unknown weight of unknown reproductive status received an unsubstantiated FRONTLINE DOG product of unspecified strength by the dog's owner at unknown date. Unknown time after administration at unknown date the dog experience hair loss on her backside.
04-Jun-2019	UAE; 19NL000096; -; Netherlands	**Species:** Canine **Breed:** Border Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	24-May-2019*	0 Day(s)	D-D	As reported by pet owner, a 1 year old 7 kilo female Border Terrier Dog received FRONTLINE COMBO L batch number and expiry date unknown cutaneous between the shoulder blades by the dog owner latest on 24-may-2019. Before application, there were fleas present on the dog. After product administration, the animal owner still experienced fleas on the dog. It is unknown if the dog has contact with other animals. The dog is housed with at least 1 cat, but it is unknown if the dog is housed with other animals. Dog was subsequently treated with a flea collar of unknown brand, no more fleas were found 2 days later.
04-Jun-2019	UAE; 19NL000097; -; Netherlands	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 25 - 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	09-Apr-2019	23-Apr-2019	2 Week(s)	D-D	As reported by pet owner, dogs, 1-1.5 and 8 years old 25-30 kilo female Golden Retrievers received FRONTLINE COMBO DOG L from the dog's owner on 09-apr-2019. It is unknown if ticks were present on the dogs, prior to treatment. 2 weeks after treatment, roughly 2 ticks per day were found on the dogs starting on 23-apr-2019. It is unknown if the dogs have contact with other animals, or are housed with other animals.
03-Jun-2019	UAE; 19NL000098; -; Netherlands	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	May-2018*	Jun-2018*	30 Day(s)	D-D	As reported by pet owner, dog, unknown age unknown weight of unknown reproductive status received FRONTLINE SPOT ON DOG, unknown strength, by the dogs owner. It is unknown if prior to first treatment, fleas were present on the dog. The animal owner experienced fleas on the dog last year. Last product administration date is unknown. It is unknown if the dog has contact with other animals or if it goes outside. The dog is housed with 2 cats.
03-Jun-2019	UAE; 19NL000099;	**Species:** Feline **Breed:** -	2	2	0	**Product used:** FIPRONIL SPOT	May-2018*	Jun-2018*	N/A	D-D	As reported by pet owner, cats, unknown age unknown weight of unknown reproductive status received FRONTLINE SPOT ON

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	-; Netherlands	**Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					CAT, by the cats owner. It is unknown if prior to first treatment, fleas were present on the cats. The animal owner experienced fleas on the cats last year. Last product administration date is unknown. It is unknown if the cats have contact with other animals or if they go outside. The cats are housed with 1 dog.
06-Jun-2019	UAE; 19NL000101; -; Netherlands	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	27-May-2019	0 Day(s)	D-D	As reported by dog owner, a 5 year old 23 kilo male Golden Retriever received FRONTLINE SPOT ON L batch number and expiry date unknown cutaneous between the shoulder blades by the dog owner latest on 27-may-2019. Dog has been treated with this product every 4 or 5 weeks for a long time. After last product administration, the animal owner finds 1 or 2 ticks on the dog daily. It is unknown if the dog has contact with other animals. It is unknown if the dog is housed with other animals. The dog does not swim and is never washed. Dog is often walked on the heath.
12-Jun-2019	UAE; 19NL000102; -; Netherlands	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2017*	10-Jun-2019	6 Day(s)	D-D	As reported by pet owner, female neutered crossbred cat, 5 years old weighing 3 kilos receives FRONTLINE COMBO CAT every 3 months, from the cat's owner for a long time. Latest application was on 04-jun-2019. Prior to last treatment, a tick was already present on the cat. The animal owner did not remove the tick before or during treatment. A week after product administration, the tick was removed from the cat alive and full of blood, according to the owner. The cat has contact with other animals and it goes outside. The cat is housed with 2 other cats, which follow the same tick control schedule.
11-Jun-2019	UAE; 19NL000103; -; Netherlands	**Species:** Canine **Breed:** Shepherd Dog (Others) **Sex:** M **Sex qualifier:** - **Age:** 9.00 Year(s) **Weight:** 37 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	2019*	N/A	D-D	As reported by pet owner, a 9 year old 37 kilo male Shepard dog received FRONTLINE SPOT ON L batch number and expiry date unknown cutaneous between the shoulder blades by the dog owner on unknown date. Unknown time after application the dog developed and itch and was lethargic. The dog was washed with shampoo under the shower. The symptoms subsided 2 days later.
13-Jun-2019	UAE; 19NL000104; -; Netherlands	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** - **Was the**	N/A	2019*	N/A	D-D	As reported by pet owner, dog, unknown age, sex and weight of unknown reproductive status received FRONTLINE SPOT ON DOG, unknown strength, by the dog's owner. The animal owner found 7 ticks on the dog, despite recent FRONTLINE use. Owner describes the dog as big and longhaired. Last product administration and event dates are unknown. It is unknown if the dog has contact with other animals or if it goes outside. It is unknown if the dog is housed with other animals.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Unknown to Company					
21-Jun-2019	UAE; 19NL000107; -; Netherlands	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** - **Was the product used ok?:** Unknown to Company	N/A	2019*	N/A	D-D	As reported by pet owner via social media, cat, unknown breed, age, sex and weight of unknown reproductive status received FRONTLINE SPOT ON CAT, by the cat's owner at unknown date. Fleas were still found on the cat unknown time after treatment, according to the owner. It is unknown if the cat has contact with other animals or if it goes outside. It is unknown if the cat is housed with other animals.
17-Jun-2019	UAE; 19NL000108; -; Netherlands	**Species:** Canine **Breed:** Herding Breeds (400 Series) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 20 - 40 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Jun-2019	17-Jun-2019	1 Week(s)	D-D	As reported by pet owner, 3 male dogs (Herding dog, Retriever and Mastiff), unknown age, weighing between 20 to 40 kilos of unknown reproductive status received FRONTLINE COMBO DOG L by the dog's owner on 10-jun-2019 once. Prior to first treatment, fleas were present on the dogs. Fleas were still found on the dogs on 17-jun-2019, 1 week after treatment. It is unknown if the dogs have contact with other animals or if they go outside. The dogs are housed with a cat of unknown flea treatment status.
20-Jun-2019	UAE; 19NL000110; -; Netherlands	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** - **Was the product used ok?:** Unknown to Company	06-Jun-2019	20-Jun-2019	2 Week(s)	D-D	As reported by pet owner, multiple cats, unknown age, sex and weight of unknown reproductive status received FRONTLINE COMBO SPOT ON CAT, by the cat's owner on approximately 06-jun-2019. 2 weeks after product administration the owner reports, on 20-jun-2019, that the product has not worked. It is unknown if the cats have contact with other animals or if they go outside. It is unknown if the cats are housed with other animals.
25-Jun-2019	UAE; 19NL000113; -; Netherlands	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	2015*	25-Jun-2019	23 Day(s)	D-D	As reported by pet owner, a 5 year old 5 kilo male Shih Tsu dog received FRONTLINE SPOT ON S batch number and expiry date unknown cutaneous between the shoulder blades by the dog owner for some years every 4 weeks, latest on 09-jun-2019 approximately. Unknown if there were fleas present on the dog prior to last treatment. After product administration, the animal owner found small fleas on the dog after 3 weeks and 3 days. It is unknown if the dog goes outside or has contact with other animals. It is unknown if the dog is housed with other animals.
27-Jun-2019	UAE; 19NL000116;	**Species:** Canine **Breed:** St.	1	1	0	**Product used:** FIPRONIL	2010*	21-Jun-2019	2 Day(s)	D-D	As reported by pet owner, a 9,5 year old 60 kilo male St. Bernard Dog received FRONTLINE COMBO DOG XL batch number and

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	-; Netherlands	Bernard **Sex:** M **Sex qualifier:** Unknown **Age:** 9.50 Year(s) **Weight:** 60 kg				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)					expiry date unknown cutaneous in the neck by the dog owner latest on 19-jun-2019. The dog has been treated with FRONTLINE COMBO DOG XL at 8 week frequency for approximately 9 years, with good results, according to the animal owner. Aproximately 1 week after last product administration, the animal owner experienced fleas on the dog. The dog has contact with at least 2 other animals, 1 cat and 1 dog. Both animals are reportedly treated year round, at unknown frequency, with Frontline Combo. It is unknown if the dog is housed with other animals. Dog was subsequently treated with Comfortis 1620 mg tablets on 27-jun-2019, as prescribed by the veterinarian. Unknown if fleas are still present. Breed information shows that average weight of male St Bernard dogs are 80 kg, with some animals up to 100kg of weight. It is unclear if the weight of this dog was recently measured.
28-Jun-2019	UAE; 19NL000120; -; Netherlands	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	10	10	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2018*	2018*	0 Day(s)	D-D	As reported by pet owner, 10 cats, unknown age, sex and weight of unknown reproductive status received FRONTLINE, exact product unsubstantiated, by the cat's owner at unknown date once in 2018. There were fleas on the cats prior to first treatment. After product administration, the owner reports she still found fleas on the cats at unknown time after administration. Cats were subsequently treated with Advantage, owner reports the fleas fell off the cats dead. The cats live in outside housing. It is unknown if the cats have contact with other animals. It is unknown if the cats are kept with other animals. Cats are only treated if the owner seas fleas on the cats. The cats do not receive flea prevention treatment.
21-Jun-2019	UAE; 19NL000122; -; Netherlands	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	03-Jun-2019	03-Jun-2019	0 Day(s)	D-D	As reported by pet owner via social media, neutered 2 dogs, 5 year old 23 kilogram female and 6 years old 32 kilogram male Staffordshire Terrier, received FRONTLINE COMBO DOG M and L respectively, by the dog's owner on 03-jun-2019. Prior to treatment, fleas were not present on the dogs. Animal owner reports that within 1 day after application both dogs began flapping their ears, itching on 04-jun-2019. The dogs both vomited 5 days later on 07-jun-2019. After vomiting dogs were taken to a vet on 07-jun-2019. Dogs received an unknown injection and Serena pills. Vomiting ended the next day, 08-jun-2019. 14-jun-2019 the dogs fully recovered from the ear flapping and itching.
31-May-2019	UAE; 19NO000025; -; Norway	**Species:** Rabbit **Breed:** Rabbit crossbred **Sex:** U **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 1.25 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not	24-May-2019	25-May-2019	1 Day(s)	D-C	As reported by att. vet, a 1-year old crossbred rabbit (weight 1.25 kg, gender unknown) received FRONTLINE VET 100 MG/ML SPOT ON 0.5 ML topically due to ticks on the 24-MAY-2019 (off-label use: species not indicated and species contraindicated as per label). On the 25-MAY the rabbit experienced anorexia, lethargy and spasms/tics. On the 7-JUN-2019 the rabbit was fully recovered.

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						indicated / recommended)					
10-Apr-2019	UAE; 19NZ000109; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 5.1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Apr-2019	08-Apr-2019	2 Day(s)	D-C	As reported by the owner, FRONTLINE PLUS FOR CATS, batch S40307AW, expiry 01/2021, was applied to a 4 year old 5.1kg domestic short hair male neutered cat on 6 Apr 2019. Approximately two days later the owner noted an area of ulceration at the application site, and sought veterinary treatment two days later on 10 Apr 2019. The veterinarian described the wound to me as an ulcerated lesion at the site of application, and treated the cat with an injection of dexamethasone, a Convenia antibiotic injection, and a topical steroid cream. The response to treatment is currently unknown. The cat has had multiple applications of FRONTLINE PLUS in the past with no known concerns. The rest of the skin was described as normal.
12-Apr-2019	UAE; 19NZ000110; -; New Zealand	**Species:** Canine **Breed:** Siberian Husky **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2019*	03-Apr-2019*	1 Day(s)	D-C	As reported by the owner, FRONTLINE PLUS FOR DOGS 20-40kg, batch S610304AR exp 04/2021, was applied to a 3 year old female 25kg Husky dog on approximately 2 Apr 2019 by the owner. The next day the owner noticed the dog appeared irritated at the application site and was yelping when it was touched, and a red patch appeared. Veterinary attention was sought on 4 Apr 2019 and the notes indicate there was a 10-12cm pyoderma at the application site. On 5 Apr 2019, the dog was sedated so the wound could be clipped and cleaned, then treated with Rimadyl NSAID (carprofen) for 6 days, and amoxicillin clavulanate antibiotic tablets for 10 days. Pimafucort ointment was dispensed to be applied to the area twice daily. The owner reports the dog is improving and the veterinarian sent a follow up photo on 18 Apr 2019 showing the pyoderma appeared resolved although there was no hair at the lesion site, howeverthe wound was clipped as part of treatment. The dog has no history of skin disease and is reported to be healthy, with no other skin lesions. FRONTLINE PLUS had never been applied to this dog previously.
23-Apr-2019	UAE; 19NZ000114; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** Unknown **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	15-Jan-2019*	15-Jan-2019*	N/A	D-D	As told to me by the owner she has treated her domestic shorthaired cat with Frontline plus for Cats 6 pack (FLP), batch S41211AW, expiry 12/2020 every three weeks since approx. 15 January 2019 with the most recent application on 7 April 2019. She says she treated 3-weekly because she continued to see fleas on the cat and is getting flea bitten herself particularly when on the couch or in bed which are areas the cat frequently sleeps or rests. Exact treatment dates cannot be confirmed. Seresto collar has been were used previously but date of last treatment is unknown.
15-Apr-2019	UAE; 19NZ000117; -; New Zealand	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Nov-2018	19-Feb-2019*	N/A	D-D	As reported by the owner, FRONTLINE PLUS FOR SMALL DOGS, batch and expiry unknown, was applied to a Pomeranian dog by the owner on 19 Feb 2019 and 22 Mar 2019. At the time of reporting, the owner is seeing around 50 to 60 fleas live fleas and large numbers of flea eggs on the dog. The dog had previously

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		Unknown **Age:** - **Weight:** Unknown				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					been treated with FRONTLINE PLUS on 01 Nov 2018. The owner had applied an ADVANTAGE flea treatment on 11 Apr 2019 also. The dog is bathed at least once weekly and has outdoor access. There is a cat in the household and the owner reports they are seeing no fleas on the cat, however the flea treatment history for the cat is unclear. No one in the household has been bitten by fleas.
01-May-2019	UAE; 19NZ000119; -; New Zealand	**Species:** Feline **Breed:** Ragdoll **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 4.1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Metacam meloxicam 0.5 mg/ml oral suspension cats guinea pigs; Zoetis Convenia (cefovecin sodium 80mg/mL); Vetoquinol Clavaseptin (amoxcillin clavulanic acid) 50mg; Novartis Tobrex eye ointment 0.3%; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Apr-2019*	17-Apr-2019*	N/A	D-B	As reported by the attending veterinarian, METACAM Oral suspension for cats 0.5mg/mL, was first prescribed by the attending veterinarian and administered by the owner to a 4.98kg male neutered ragdoll 3 year old cat, at a dose rate of 0.05mg/kg SID for 3 to 5 days for acute pain and inflammation from a corneal ulcer. The cat was also prescribed Clavaseptin tablets (50mg BID q 5 days, amoxicillin – clavulanic acid) and Tobrex eye ointment (0.3% tobramycin, dose unknown) QID for 2-3 days. No notes are available that describe the health of the cat at the time of prescription. On 5 April the cat was re-examined and it was found the eye was improving and the cat was doing well. The METACAM was discontinued at this point. On 20 Apr 2019, the cat presented to the vet clinic as he had been anorexic for 2-3 days, was not himself and had urinated on his bed. On examination, his weight had decreased to 4.1kg, he had a low body temperature of 36.9 degrees Celsius, heart rate of 128bpm, and was noted to have gingivitis and a resorptive lesion on a right hand side pre molar. The veterinarian prescribed a subcutaneous Convenia injection 0.45mL (Zoetis animal health, cefovecin sodium) and METACAM oral suspension for cats at 0.05mg/kg to treat the dental pain. She advises she syringe fed the cat before giving the METACAM suspension. He re presented at the veterinary clinic on 22 Apr 2019 as he was still anorexic. He had urinated overnight and was vocalising, not moving much and 'wobbly on his hindlimbs'. It is also noted in the history he had always drunk and urinated a lot and that he was treated with FRONTLINE PLUS two weeks previous and Revolution (Zoetis, selamectin) one month prior. On examination, he had injected mucus membranes, further weight loss (now 3.84kg), ongoing low body temperature – now 35.3 degrees celcius, halitosis, a small bladder, and a slight skin tent. Blood work was performed and showed a marked elevation in SDMA, urea, phosphorus and amylase -
30-Apr-2019	UAE; 19NZ000120; -; New Zealand	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Apr-2019*	29-Apr-2019*	13 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for large dogs 20-40kg, batch R40416AL exp 02/2020, was applied to a 11 year old male German Shepherd dog on approximately 16 Apr 2019 by the owner. The owner has noticed the dog scratching for around two weeks, and on 29 Apr 2019, the owner found 9 live fleas of mixed size in the haircoat. The next day, the owner also found multiple fleas but reports they were all of small size. The dog has a history of skin sensitivity (further information not provided). The owner has been using FRONTLINE PLUS for an extended period time at approximately 6 to 8 week intervals, but reports there has been a treatment gap of greater than 8 weeks during this time. Members of the household have noticed flea bites on themselves. The dog has outdoor access and lives in an urban setting. There are two cats in the household that have been treated with various flea products at monthly intervals. Most recently they have also been treated with FRONTLINE PLUS, see linked case

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											19NZ000121
30-Apr-2019	UAE; 19NZ000121; -; New Zealand	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Apr-2019*	29-Apr-2019*	13 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for cats batch R40416AL exp 02/2020, was applied to two cats (further details unknown) on approximately 16 Apr 2019 by the owner. On 29 Apr 2019, the owner found 'a few' fleas in the haircoat of both cats. The owner has been using various flea treatment products at 3 to 4 week intervals for an extended period to time. Most recently she has used FRONTLINE PLUS however exact treatment dates are not known. The cats have outdoor access. Members of the household have noticed flea bites on themselves. There is a dog in the household that the owners has also noted live fleas on. The dog has had known extended gaps in flea treatment. See linked case 19NZ000120
06-May-2019	UAE; 19NZ000123; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 3 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	22-Apr-2019	05-May-2019*	13 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for cats (batch and expiry unknown) was administered to a Domestic Shorthair female neutered 2 year old cat, approximately 3kg, on 22 APR 2019 by the owner. Shortly prior (exact date unknown) to reporting on 6 MAY 2019, the owner had noticed some flea dirt on the cat, which was confirmed by a veterinarian. The owner was unsure if any live fleas had been found on the cat. The owner reports she has also been bitten by fleas recently. The cat has outdoor access but prefers to stay indoors. The owner reports she applies FRONTLINE PLUS monthly but is unsure of exact dates of application prior to 22 APR 2019. There are no other pets in the household
09-May-2019	UAE; 19NZ000125; -; New Zealand	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Dec-2018*	10-Dec-2018*	0 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for small dogs 1-10kg, batch F61414AL expiry 05 2021, was applied to a 3 year old male shih tzu cross fox terrier dog of unknown weight, by the owner on an unknown date (the owner cannot remember but thinks it was 'some time ago'). The owner says she continued to see live adult fleas for some time after application, but is unsure for how long. The dog has outdoor access and had fleas prior to FRONTLINE PLUS application. There are no other pets in the household. The flea treatment history prior to application of FRONTLINE PLUS is unclear. Approximately two months after application FRONTLINE PLUS, the owner applied Pet Science brand flea treatment (fipronil) and does not think there are fleas on her dog at the time of reporting.
14-May-2019	UAE; 19NZ000127; -; New Zealand	**Species:** Canine **Breed:** Retriever (Labrador, Chocolate) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Month(s) **Weight:** 35 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	11-May-2019	11-May-2019*	0 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for dogs 10-20kg (batch R62501AL exp 11/2020) was applied to an 11 month old Labradoodle male neutered dog, approximately 35kg, on 11 May 2019 by the owner. At the time of reporting, the owner reported seeing approximately 10 live active fleas on the dog. The owner applied two pipettes of FLP at the time of treatment. The owner applied one pipette of FLP for dogs 10-20kg to the dog on 3 Mar 2019, and may have applied the FLP (one pipette) again in Apr 2019 but is unsure. She had noted fleas prior to application in May. There are no other pets in the household, but the dog regularly socialises with other dogs outdoors. No one in the household is being bitten.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: No (Others)					
15-May-2019	UAE; 19NZ000128; -; New Zealand	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 20 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019	01-May-2019	0 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for Medium dogs (batch and expiry unknown) was applied to an approximately 1 year old cross breed male dog, estimated 15-20kg, by the owner on 1 May 2019. At the time of reporting, the owner is seeing approximately 1-2 fleas on the dog each day. The dog had been given one treatment of Capstar (Nitenpyram, Elanco) for fleas at an unknown time prior to FRONTLINE PLUS administration, but otherwise the owner has never treated the dog for fleas. There are no other pets in the household but the dog has frequent outdoor access. The owner had seen fleas on the dog prior to treatment with FRONTLINE PLUS and has diagnosed her dog with flea allergy dermatitis herself (no veterinary consultation has been sought), as the dog was losing hair and biting at the base of its tail. These signs have not resolved since the FRONTLINE PLUS treatment was applied.
08-May-2019	UAE; 19NZ000131; -; New Zealand	**Species:** Rabbit **Breed:** Rabbit crossbred **Sex:** X **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 1.3 kg	2	2	2	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	06-May-2019	07-May-2019*	1 Day(s)	D-A	As reported to me by a veterinary nurse, two rabbits, one female and one male (furthers details unknown) were treated on 6 May 2019 with Frontline Plus (exact product unknown) and on 8 May 2019 they were brought in for veterinary exam due to one rabbit having a short seizure and both rabbits off food. The second rabbit had seizures starting 9 May 2019. Both rabbits were treated with midazolam and hospitalized for syringe feeding and monitoring. I contacted the clinic for further information on several occasions but I was unable to speak to the team leader until 17 May 2019 at which time I was told the rabbits had been euthanized on 10 May 2019. I have repeatedly requested more information but have been unsuccessful at this time. Update MF 28 May 2019: Recieved adverse event report. I have updated patient field, product field and Veddra codes. The product assessment remains the same. Updated narrative: Littermates, one male and one female intact, Mini Lop x Rex, 7 months old, weighing 1.3kg were treated at 2pm on 6 May 2019 each with a pipette of Frontline Plus for Cats topically between the shoulder blades, batch and expiry unknown, for flea prevention. The following day on 7 May both rabbits were noted to be not right and under veterinary advice were both washed and given activated charcoal. That evening both rabbits started tremors. The male had several seizures throughout 8-9 May and died at 10:25pm on 9 May. The female had tremors on 8 May and seizures through 9 - 11 May and died 5:30am on 11 May. The rabbits were treated with midazolam as required to control seizures and given symptomatics care to ensure drinking and eating.
29-May-2019	UAE; 19NZ000135; -; New Zealand	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	17-May-2019	17-May-2019*	N/A	D-D	As reported by the owner, FRONTLINE PLUS FOR CATS, batch S40716AW expiry 05/2021, was applied to a cat on 17 May 2019 by the owner. The owner reports he was still seeing live fleas after this application so re applied the product on 24 May 2019. He is unsure if fleas were present prior to application on 17 May 2019. Over the four days prior to reporting on 27 May 2019 the daily live flea counts he had seen were 12, 19, 9 then 4 on the day of reporting. The cat has indoor and outdoor access. He has also applied FRONTLINE PLUS to the cat on 23 Apr 2019. The owner noted that the FRONTLINE PLUS did not smell like it used to when he had used it in the past. He has never noted fleas on the cat in the past.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					17-JUN-19 QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 12% SPOT ON Lot# S40716AW, expiry 2021-05-31. Case investigated by France - Toulouse. Gotrack complaint closed on 2019-06-17. Final complaint evaluation A product quality complaint for Frontline Spot on Cat, lot number S40716AW was received by BIAH QA on the 29 May 2019. The complaint description is : lack of efficacy and no odor. This is the first complaint regarding this defect for this batch. The retention sample is conform (aspect) but we do not open the sample to smell because this complaint will be classified major without impact for market action The complaint sample is not received. Batch record review: Bulk batch S407 Manufacturing date: 20/06/18 - Expiry date: 05/2021 - Manufacturing quantity: 1000 liters No deviation is associated to this batch and this batch was not concern by any change control. Two observations are notified and not associated to these defects The results of QC testing are conform at specifications. All parameters verified during manufacturing of this batch of bulk are conform. Filling batch S40716 Manufacturing date: 03/07/18 - Expiry date: 05/2021 - Manufacturing quantity: 17600 blisters The results of QC testing are
10-Jun-2019	UAE; 19NZ000141; -; New Zealand	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Mar-2019*	10-Mar-2019*	N/A	D-D	As reported by the owner, FRONTLINE PLUS for cats, batch S40716BW, exp 05/2021, has been applied to two male domestic medium hair cats, every 3 weeks for 3-4 years. The owner reports that over the time period of the past 4 treatments (approximately 12 weeks, estimated start time 10 Mar 2019 for reporting), she has noticed the cats are scratching and appear to be irritated by fleas. The owner has not seen any live fleas on the cats though. The cats were given a Comfortis flea treatment and the irritation appeared to stop immediately. Both cats have outdoor access. No one in the household is being bitten. The owner cannot think of any obvious changes in the environment.
10-Jun-2019	UAE; 19NZ000142; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Jun-2019	02-Jun-2019*	0 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for cats, batch S40716AW exp 05/2021, was applied to a 13 year old domestic shorthair 5kg (approx.) cat, on 2 June 2019 by the owner. At the time of reporting the owner is seeing 1-2 fleas on the cat. The cat was previously treated with a product from the supermarket one month ago, although fleas were noted prior to treatment with FRONTLINE PLUS on 2 June 2019. Prior to that, the last flea treatment was in May 2018. There are two other cats in the household that are treated on the same schedule. Multiple household members are being bitten by fleas. The cat has been over grooming recently. This has previously been diagnosed as stress over grooming by a vet clinic, but the owner thinks it is exacerbated by fleas.

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18-Jun-2019	UAE; 19NZ000146; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Jun-2019	11-Jun-2019	0 Day(s)	D-D	As reported by the owner, FRONTINE PLUS for cats, batch S40716AW, exp 05/2021, was applied to an 8 year old male neutered domestic shorthair cat by the owner, on 11 June 2019. At the time of reporting, the owner is seeing multiple fleas on the cat that were described as very active. The owner is also being bitten by fleas. There had been a flea treatment gap of at least one month prior to application of the FRONTLINE PLUS, and the cat has outdoor access. There are no other pets in the household. The owner does not think she has used FRONTLINE PLUS previously but is not completely sure.
24-Jun-2019	UAE; 19NZ000149; -; New Zealand	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Jun-2019	17-Jun-2019*	0 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for cats, batch and expiry unknown, was applied to a cat by the owner on 17 June 2019. At the time of reporting, the owner is being bitten by fleas and has noticed flea dirt on the cat. She has not seen any live fleas on the cat. The previous flea treatment was a FRONTLINE PLUS applied on the 17 Apr 2019 and the owner is unsure if any treatments had been applied prior to this one. There are no other pets in the household. On 5 July 2019 the owner advised that the infestation was resolving after implementing environmental control measures.
08-Apr-2019	UAE; 19PH000008; -; Philippines	**Species:** Canine **Breed:** Siberian Husky **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Mar-2019*	08-Apr-2019*	31 Day(s)	D-D	Suspected Lack of Efficacy report from social media: An animal owner reported the following event for 2 Siberian Huskies, other signalment unknown. 08 Mar 2019* FRONTLINE PKYUS SPOT ON DOG M was applied to the dogs (R60801, Mar 2020). 08 Apr 2019* The owner reported a lack of efficacy, parasite not reported.
25-Jun-2019	UAE; 19PH000010; -; Philippines	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	06-Jun-2019	08-Jun-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy event: A pet owner reported the following 25 Jun 2019 a pet owner for an unknown number of dogs (2 used for reporting purposes) of unknown signalment. 06 Jun 2019: One dose of FRONTLINE PLUS SMALL (R60833AL, Mar 2020) purchased from Pet Warehouse was applied to each dog at an unknown location. Ticks may have been present at the time of application.The dogs were not bathed for 2 days after application. 08 Jun 2019*: The pet owner said the tick problem did not resolve, and the ticks have grown. It is unknown if the ticks were removed. The pet owner reported he has used Frontline before (dates not specified) and 2 days after application, if the dogs were not bathed, it resolved his flea and tick problem. This was the first time purchasing product from Pet Warehouse. It is also the first time that Pet Warehouse received this kind of report regarding Frontline efficacy.

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07-May-2019	UAE; 19PL000014; -; Poland	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Unknown **Age:** 21.00 Week(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** BRAVECTO 500MG 1X1TAB 586; RABISIN; **Route:** Not Applicable **Was the product used ok?:** Unknown to Company	31-Mar-2019	30-Mar-2019	N/A	D-B	Suspected adverse reaction. Dog, female, Border Collie, 10 kg b.w., 5 months old received Bravecto tablet 500 mg (from the owner). On Saturday 30 MAR 2019 dog was vaccinated at the clinic against rabies with Rabisin vaccine. Animal owners purchased as well Bravecto 500 mg to protect animal against fleas and ticks. During returning route from the clinic dog vomited in the car. Bravecto was administered to the dog next day (Sunday 31 MAR 2019) by the owner. Dog was gradually losing appetite and increasing weaknessof the dog was observed. On Tuesday additionally, dog's salivation was observed. On late evening from 2nd to 3rd Apr 2019 animal owners disturbed by deteriorating mood of the dog visited 24-hour clinic. Clinical investigation: temperature 37.8 C, mucous membranes pale-pink, signs of dehydration, slight anemia, blood work did not confirm babesiosis. Dog was rehydrated, received treatment, among others: NoSpa, Ranitydyna. Dog still shows signs: does not eat, does not drink, is apathetic, does not get up, is vomiting. Animal owner suspects that dog status can be triggered by Bravecto administration. Following information was provided from 24-hour clinic (dated 02 Apr 2019 21:29): on the morning felt normal, on Sunday was vaccinated against rabies, meantime received tablet Bravecto for deworming and spot on against ticks, had a tick, on the evening started to salivate intensively, vomited, does not want to eat nor drink anything, without strength, stopped to raise. Clinical examination: mucous membranes pale-pink, no disturbing sounds over the heart and lungs, abdomen slightly tense, temperature 37.8C, dehydrated, installed intravenous catheter, blood taken for analysis + babesia in external lab. Glucose 110 mg%, iv fluids, in tested blood slight anemia, Gt 33,9, RBC 5,09, HGB 11,5, platelets 504, no active inflammation. Biochemistry normal. After fluid therapy left the clinic on her own. Control scheduled for tomorrow, if will feel still bad, hematologic
11-Apr-2019	UAE; 19RU000012; -; Russia	**Species:** Canine **Breed:** - **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Apr-2019	10-Apr-2019	0 Day(s)	D-B	As reported by the owner's daughter, a dog of East European Shepherd breed (9 years, female), in unknown health state received Frontline Spot On (lot and expiry date are unknown, topical) administered by owner on 10/04/2019. Frontline Spot On was applied before without any adverse events. Since 11:30 a.m. after administration the dog was shaking for 5 minutes, had involuntary urination, was roaring during 2 hours and did not recognize the owners. In 5:30 p.m. the dog fell down, was shaking. Thirst remained. In 11:30 p.m. dog had involuntary urination once again and was shaking, couldn't eat anything on walking. Dog had Panzinorm, Trimedat, 2 tablets of Trichopol 250. On observation the dog was restless, but recognized the owners, pupillary response was decreased. General health state was serious, t = 38,6, mucuous membranes are pink, arterial blood pressure is 190/110. Respiratory arrythmia, clear tones, heart murmures are ausculted. Leading symptoms: primary generalized seizures with loss of conciousness. Preliminary diagnosis is fipronil toxication. Treatment: IV infusion of mannite 1 g per 1 kg. Glucose is within normal limits; blood analyses were done, results are not ready yet.
03-Apr-2019	UAE; 19SE000052; -; Sweden	**Species:** Canine **Breed:** Rottweiler **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	25-Mar-2019	26-Mar-2019	0 Day(s)	D-B	Suspected Adverse Event. As reported by att. vet, a 6-year old female Rottweiler (born 1-JAN-2013, weight approx. 41.2 kg) of good health but with a concurrent throat infection was treated with FRONTLINE VET 100 mg/ml spot on, dose not specified (MAH assumed 4.02 ml for dogs 40-60 kg bw i.e. dose 9.76 mg/kg) for tick prophylaxis on the 25-MAR-2019. Approximately 5 hours later

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		Age: 6.00 Year(s) **Weight:** 41.200 kg*				products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					(on the 26-MAR) the dog started vomiting, was subsequently apathetic, the lower eyelids were drooping, no appetite, no interest in food or water and did not respond to the owner. The mouth was ice cold. After 3 days the dog was fully recovered, the reaction was not treated. The dog had received FRONTLINE before without any adverse reaction. UPDATE 23-APR-2019: This case is a duplicate to the invalid case SWE-BIAHPV1P-19SE000036 (which has been nullified). This case was updated with intact female and 1 dose according to weight given topical in the neck by the owner. UPDATE 7-MAY-2019: MAH reviewed case.
03-Apr-2019	UAE; 19SE000054; -; Sweden	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2018*	30-Apr-2018*	N/A	D-D	SLEE. Seen on Social Media. An animal owner published a comment on a Facebook post for FRONTLINE that she had treated her dog 'Bella' with FRONTLINE regularly last year (2018) because it had a lot of ticks and was itching a lot (suspected fleas). Treatment was changed to Virbac Effipro 67 mg with good result and Bravecto 250 mg on the 20-MAR-2019. MAH tried to get more information but the owner did not respond.
16-Apr-2019	UAE; 19SE000058; -; Sweden	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** - **Age:** 1.50 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	2018*	N/A	D-B	Suspected adverse event. As reported by a dog owner through social media, a 1.5-year old intact female Maltese/ Tibetan Spaniel crossbred dog (weight approx. 5 kg) received FRONTLINE VET 100 mg/ml spot-on 0.67 ml (route unknown) and had convulsion (not further specified, MAH chose worst case scenario, could also be translated as spasms), emesis and lethargy. The dog was hospitalised with drip for three days. Samples taken showed no signs of disease. Four (4) weeks later the dog was treated again, shortly after it started acting worried. The owner bathed the dog and the symptoms stopped. UPDATE 17-JUN-2019: MAH looked over the information: breed updated to 'small crossbred <10 kg', dates on product screen deleted and changed with 'unknown', date of reaction entered '2018' (estimation) for submission purposes.
19-Apr-2019	UAE; 19SE000061; -; Sweden	**Species:** Canine **Breed:** West Highland White **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 8.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Sep-2017*	01-Oct-2017*	30 Day(s)	D-C	Suspected adverse event. As reported by an owner a 3-year old male intact 8.5 kg Westie (West highland white terrier) received FRONTLINE SPOT-ON (owner don't know if it was FRONTLINE VET 100 MG/ML or FRONTLINE COMP) unknown route, dose and treatment date(s). The dog became really bad: it had eczema rash with pruritus, became lethargic, got fungus in the in groin and ear discharge. The owner sought veterinary help but att. vet could not say what it was. The dog received different therapeutics for the ears but nothing helped. MAH comment: the reporter did not state when the treatment or event occurred. The case has been classified serious as worst case. UPDATE 13-MAY-2019: phone call with owner, reported that the dog was born in MAY-2014. In 2016 the dog received FRONTLINE VET 100 MG/ML SPOT-ON (FL) for the first time. The owner stated that the dog was treated with FL both in 2016 and 2017 in spring and autumn, 2 times 3 months apart or 3 times 2 months apart (MAH comment: there were some insecurity on intervals and dates had not been written down). In 2016 approximately one month after dose the dog had some pruritus, ear discharge which was treated as ear inflammation (treatment with cleaning product, ointment and drips), and eczema over the whole body. The reaction was ongoing for approx. 8-9 months. In 2017 the dog had

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											problems with both ears and had eczema in the groin area. The dog was lethargic. The reaction was worse after treatment in 2017 and the owners gave the last dose FL in the autumn 2017, by 2018 the dog had recovered. The dog had not been treated with FL in 2018 and had not had any symptoms. The dog had been on the same feed, no other pets at home.
02-May-2019	UAE; 19SE000062; -; Sweden	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-May-2019	02-May-2019	0 Day(s)	D-D	Suspected AE. As reported by the animal owner, a 6-year old male neutered domestic cat (approx 5 kg) received 1 dose of FRONTLINE VET SPOT-ON for cat, 100 mg/ml (LOT P21504, not validated, stated EXP from owner OCT 2019) administered by the owner on 02 MAY 2019 topically on the neck and between the shoulder blades around 12 pm. The product was allowed to dry, but the owner suspects that the cat was able to lick itself around the application site. 9 hours after administration at 9 pm the cat experienced diarrhea. The next day the cat had recovered and no treatment was required. The cat was normally healthy without stomach issues and the diet was not changed. FRONTLINE VET SPOT-ON had previously been used without any reaction.
04-May-2019	UAE; 19SE000063; -; Sweden	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 3.5 - 4 kg	1	1	1	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Heart medication, brand unknown; Kidney disease treatment, brand unknown; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Contraindication per label)	02-May-2019	02-May-2019*	0 Day(s)	D-A	Suspected AE. As reported by the animal owner, a 3-year old male neutered Domestic shorthaired cat (weight 3.5-4 kg) with pre-existing heart- and kidney disease since 1.5 years (fair condition) received FRONTLINE VET SPOT-ON 100 mg/ml (LOT unknown) 1 dose topical between the shoulderblades administered by the owner on 02 MAY 2019 at approx. 8 PM. In the night after product administration the cat acted weird, walked around vocalising and wanted to be with the owner or lay itself to rest in strange places. At approx. 00.45 the cat was confused and walked into the walls. The cat did not eat or drink. The reaction continued on 3-MAY and the owner took the cat to the vet. The cat was hospitalised over night (the owner did not know what the cat was treated with). On the 4-MAY the cat was euthanized. The cat had been an indoor cat until 2 weeks prior to the event, the owner bought FRONTLINE for prophylactic use. The owner asked at pharmacy if the product could be used with concurrent heart- and kidney disease and the pharmacist said yes. Since approx. 1.5 years the cat was treated with heart medication tablet once daily and kidney medicaiton oral solution once daily in the food (the owner did not know the name of the products). 2019-06-14: Follow up from MPA: MPA causality has been added and "heart medication" and "kidney medication" was removed from the structured field since the product or substance was not known. UPDATE 20-JUN-2019: MAH updated assessment.
04-May-2019	UAE; 19SE000064; -; Sweden	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 4 - 5 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	Jan-2019*	Mar-2019*	N/A	D-D	SLEE. As reported by the animal owner by Social Media on 5-MAY-2019, 'Tamsi' a 9-year old male neutered healthy DSH (weight 4-5 kg approx.) received FRONTLINE VET 100 mg/ml 1 dose every 4 weeks since topically on the neck and between shoulderblades administered by the owner since JAN-2019 for flea and tick prevention. In MAR-2019, approximately 1.5 weeks after the last dose, the owner noticed that the cat was itching and discovered crawling and attached ticks (cheeks, neck, inside of thighs, and at tailbase). The owner has used FRONTLINE VET SPOT-ON for cats for many years with good effect. UPDATE 17-JUN-2019: Since medio MAY 2019, the owner applied 1 dose every 2 weeks (off-label), the number of ticks improved (fewer) but the owner still found a few attached ticks.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
26-Apr-2019	UAE; 19SE000065; -; Sweden	**Species:** Feline **Breed:** Norwegian Forest Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-May-2018*	01-May-2018*	0 Day(s)	D-C	Suspected AE. As reported by an owner on Social Media on 29-APR-2019, a 3-year old neutered male Norwegian forest/crossbred cat (weight unknown, owner stated not overweight) received FRONTLINE COMP 50 mg/60mg SPOT-ON 0.5 ml, route unknown, by the owner in 2018 (MAH estimated MAY-2018). On the same day post-administration the cat became ill and was lying shivering. The next day the cat was recovered. The cat had previous received FRONTLINE VET without any issues.
26-Apr-2019	UAE; 19SE000066; -; Sweden	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	15-Apr-2019*	2 Week(s)	D-D	SLEE. As reported by an owner by Social Media, a 2-year old male neutered cat (breed NOS, weight approx. 4 kg) received FRONTLINE VET 100 MG/ML SPOT-ON (LOT R21405AX). The owner complained about lack of efficacy 2-3 weeks after product administration. The MAH assumed that the LOE concerned ticks.
26-Apr-2019	UAE; 19SE000067; -; Sweden	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** - **Age:** 9.00 Year(s) **Weight:** 13 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	15-Apr-2019*	2 Week(s)	D-D	SLEE. As reported by an owner by Social Media, a 9-year old male intact Cocker Spaniel (weight approx. 13 kg) received FRONTLINE VET 100 MG/ML SPOT-ON dose unknown (MAH estimated 1.34 ml 10-20 kg). The owner complained about lack of efficacy 2-3 weeks after product administration. The MAH assumed that the LOE concerned ticks.
27-Apr-2019	UAE; 19SE000068; -; Sweden	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-May-2004*	31-May-2004*	1 Day(s)	D-D	Suspected adverse event. As reported by an animal owner by Social Media on 27-APR-2019, three years ago (2016) the owner's cat received FRONTLINE not further specified, unknown if Frontline Vet or Frontline Comp. Dose and route unknown. The cat's general condition was reduced (MAH coded malaise) and the cat was hospitalised for three days with supportive therapy (not further specified). The outcome is unknown. The MAH tried contacting the reporter for more details however at the time of report no more information was available. UPDATE 9-MAY-2019: Owner reported that the event occurred in 2004. The cat named 'Flisan' was a 12-year old female neutered domestic cat (born 1992, weight unknown, healthy at the time of treatment). The owner gave FRONTLINE VET applied in the neck as prophylaxis, no other medication was given. After product administration (time of onset not specified) the cat was just lying still, refused to eat or drink. On the 1-JUN-2004 the owner took the cat to a large small animal hospital and the cat was hospitalised for three days. MAH comment: date of product administration and event updated according to latest information, veddra-codes adjusted to new information (deleted malaise, added anorexia, adipsia, lethargy).

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
27-Apr-2019	UAE; 19SE000070; -; Sweden	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 6 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	Apr-2019*	N/A	D-D	SLEE. As reported by an owner by Social Media on 17-APR-2019, a 3-year old male intact cat (weight approx. 6 kg, slightly overweight, breed unknown) received FRONTLINE (not mentioned if spray or spot-on, dose and route of administration unknown, indication unspecified MAH assumed ticks) in 2018 and 2019. In 2018 it was working well, however in 2019 the effect only seemed to last 1 week and the owner had to replenish.
14-Apr-2019	UAE; 19SE000072; -; Sweden	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	2019*	N/A	D-D	Suspected AE. As reported by an owner by Social Media on 14-APR-2019, her cat received FRONTLINE (product unsubstantiated) and became crazy and ran away from home. Outcome is unknown. MAH tried contacting the reporter for more information.
02-May-2019	UAE; 19SE000073; -; Sweden	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 4 - 5 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-Apr-2017*	01-May-2017*	1 Day(s)	D-C	Suspected AE. As reported by an owner (occupation pharmacist), an approx. 15-year old male neutered DSH (weight 4-5 kg, healthy, outdoor) received FRONTLINE VET 100 MG/ML SPOT-ON CATS 1 dose topical between the shoulderblades by the owner two years ago (approx. 30-APR-2017). Approx. 1 day later the cat began to fall down from chairs and the sofa which he had jumped up on. The hindpart was unstable. The signs gradually abated and after approx. one week the cat had fully recovered. The cat had never received FRONTLINE before.
19-Apr-2019	UAE; 19SE000074; -; Sweden	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 7.8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2019	04-Apr-2019*	N/A	D-D	SLEE. As reported by an owner by Social Media on 19-APR-2019, a 5-year old female small crossbred German Spitz/Papillon (weight 7.8 kg) received FRONTLINE VET 100 MG/ML SPOT-ON 1 dose topical between shoulderblades administered by the owner for tick prophylaxis in APRIL 2019. The owner complained about lack of efficacy (ticks) and gave a second dose 12-13 days or 3 weeks later (the owner did not remember exactly). Big ticks were still seen, primarily around the neck. Due to the lack of efficacy the dog received NEXGARD instead. According to the owner the dog had not been exposed to water/bathing. UPDATE 20 MAY 2019: The owner also contacted MAH sales rep. MAH updated the case with additional information: The exact date of first administration was 02 APR 2019. A partial LOT no. for the product was available only: 'R21815xx'.
24-Apr-2019	UAE; 19SE000075; -; Sweden	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown	2018*	2016*	N/A	D-D	SAE + SLEE. As reported by an owner by Social Media on 24-APR-2019. A 15-year old cat named Alfons (neutered male, 3-4.3 kg) received FRONTLINE VET 100 mg/ml spot on since 5 years (2014). Dose and route of administration not specified. Treatment frequency is unknown but owner reported use every year with interruption during winter months. Approximately 3 years ago (2016*) the owner believed that FL was not as efficacious as it

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		Weight: 3.000 - 4.300 kg*				**Was the product used ok?:** Unknown to Company					used to be. They had to take many ticks every week despite treatment with FL. 2 years ago (2017*) the cat was uncomfortable when applied FL and began to lose hair at the application site . Last year (2018*) there was a wound which did not want to heal. Outcome is unknown.
25-Apr-2019	UAE; 19SE000076; -; Sweden	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 6.3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2018*	2018*	0 Day(s)	D-D	Suspected AE. As reported by an owner on Social Media on 25-APR-2019, a domestic cat (male, weight at 3-years old 6.3 kg) received FRONTLINE VET topical in the neck from the age 7 months until 3 years old. Unknown dose, frequency and intervals. According to the owner the cat had application site pruritus, application site hair loss and application site wounds. The owner suspected an allergic reaction. The first year of treatment the reaction was treated with ointment (not further specified). FRONTLINE was discontinued but the wound was recurring.
26-Apr-2019	UAE; 19SE000078; -; Sweden	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 5 kg	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	Jul-2018*	Jul-2018*	0 Day(s)	D-C	Suspected AE. As reported by an owner by Social Media, three male neutered cats approx. 5 kg received FRONTLINE VET topical in the neck adm. by owner in the summer (date not specified MAH estimated JUL-2018). They received FL a day with strong sun, the cats developed application site wounds. The next time the owner gave FL in the evening and the cats did not react .
04-May-2019	UAE; 19SE000081; -; Sweden	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 3 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	26-Apr-2019*	1 Week(s)	D-D	SLEE. As reported by an animal owner, two female neutered cats (breed: DSH and DLH; age 3-4 years and 5-6 years old; weight approx. 3 kg) received FRONTLINE VET SPOT-ON 1 pipette per cat, given topically on two places (base of head and neck) by the owner for tick prevention on the 19-APR-2019 (approx. - the owner had written it down on the package but did not have the package available at the time of report). On the 26-APR the owner noticed a tick or two, however on the return from a trip on the 1- MAY-2019 there were many ticks: big engorged alive, some had been scratched off, primarily from neck, around the head, cheeks and chin. The owner has used FRONTLINE VET SPOT-ON for many years with good effect.
13-May-2019	UAE; 19SE000082; -; Sweden	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 3 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	25-Apr-2019	26-Apr-2019*	1 Day(s)	D-D	SLEE. As reported by a pharmacist and animal owner, an approximately 6-7 years old female neutered domestic longhaired healthy cat (weight approx. 3 kg) received FRONTLINE VET 100 mg/ml spot-on topically in the neck and on chest administered by the owner for prevention of ticks on the 25-APR-2019. On the 26-APR-2019 the owner noticed alive crawling ticks and ticks attached on the cat. The next couple of days the owner removed approx. 5-6 living ticks (most of them were empty, a couple had been feeding). Moreover, it was not possible to open the dose due to lack of perforation, the owner took the package to the pharmacy and received a new package, however as there was only the same batch of FL Vet, the owner got a packade FRONTLINE COMP which he administered to the cat and the effect was satisfactory (some ticks could crawl and attach but they died). The owner had

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											used FRONTLINE COMP for 4-5 years with good result, this was the first time he tried FRONTLINE VET. Other information: the owner moved from the countryside to the city (located further south) a couple of years ago, and had noticed that even though the cat was walking in more grass before, the owner saw more ticks after moving to the city. Outcome recovered. UPDATE 14-JUN-19 QA results received: Investigation completed for FIPRONIL SPOT ON CAT Lot# S20702AW, expiry 2021-04-30. Case investigated by France - Toulouse. Gotrack complaint closed on 2019-06-14. Final complaint evaluation A product quality complaint for Frontline Spot on Cat, lot number S20702AW was received by BIAH QA on the 29 May 2019. The complaint description is : lack of efficacy and cutmarket missing. This is the first complaint regarding this defect for this batch.The retention sample is conform. The complaint sample is not received but the pictures show the defect. Batch record review: - Bulk batch S207 Manufacturing date: 15/05/18 - Expiry date: 04/2021 - Manufacturing quantity: 1199 liters. No deviation and observation are associated
20-May-2019	UAE; 19SE000085; -; Sweden	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Month(s) **Weight:** 24 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	18-May-2019	20-May-2019	2 Day(s)	D-D	As reported by an owner, 'Ronja' a 14-months old female crossbred dog (weight 24 kg, born 02 MAR 2018) received FRONTLINE COMP DOGS L (LOT S60617AR, exp FEB-2021) dose, administration site and frequency unknown on 18 MAY 2019 for tick prevention. 2 days after product administration on 20 MAY 2019 at 10 am the dog vomited, experienced decreased general condition, was tired and had poor appetite. The reaction was not treated and was ongoing at the time of reporting. Other information: the dog was a rescue dog from Romania and had had intermittent periods of nausea during its whole life. Att. vet's level of suspicion was low.
16-May-2019	UAE; 19SE000086; -; Sweden	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 7.8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	24-Apr-2019	08-May-2019	2 Week(s)	D-D	As reported by an animal owner, a healthy 5-year old male neutered small crossbred (Shih Tzu/Yorkshire terrier, born 2014, weight 7.8 kg, fur clipped short approx. 3 mm) received FRONTLINE VET 100 MG/ML SPOT-ON (Lot S21807BX, exp 30 NOV 2021) topical in the neck by the owner for prevention on the 26-APR-2019. On 8-MAY, after 12 days, the owner found two ticks that had attached to the dog. Other information: the household also has two indoor cats, which did not experience problems with ticks.
22-May-2019	UAE; 19SE000087; -; Sweden	**Species:** Canine **Breed:** Canine Other **Sex:** M **Sex qualifier:** - **Age:** 2.50 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	03-May-2019	13-May-2019*	0 Day(s)	D-D	As reported by the animal owner (by social media on 22-MAY and phone call on 14-JUN), 'Kazzo' a 2.5-years old male intact Swedish Lapphund, body weight 20 kg, received FRONTLINE VET 100 MG/ML (ML) 10-20 KG (LOT unknown) 1 dose topically administered by the owner on 03 MAY 2019. After approx 10 days the owner reports to have removed a lot of small ticks around the head. A new dose FRONTLINE VET was given. After that the owners went to their summer house in the Swedish mountains were there were not ticks. At the return to their home, 'Kazzo' was given one dose Exspot and the owner don't see as many ticks. The owner has another dog 'Zacko' a 7-year old male Swedish

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						ok?: Unknown to Company					Lapphund which also received 1 dose FRONTLINE VET 100 MG/ML on the 3-MAY-2019. On 'Zacko', FRONTLINE had good effect. 'Zacko' has a condition (not further specified) with the fur which is thin and had been pruritic. 'Kazzo' has very nice thick fur. Last summer both dogs were treated with FRONTLINE VET every 3-4 weeks with satisfactory effect. At that time Kazzo only weighed approximately 18 kg.
22-May-2019	UAE; 19SE000089; -; Sweden	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-May-2019	03-May-2019*	0 Day(s)	D-D	As reported by the animal owner (by social media and phone call), a healthy 4-year old female intact miniature schnauzer, body weight 6 kg received FRONTLINE VET 100 MG/ML 0.67 ml (LOT S21807, EXP NOV 2021, valid) 1 pipette topically in the neck administered by the owner on 3-MAY-2019 for tick prevention. The dog experienced pruritus the same day and the reaction was still ongoing on the 17-JUN. 3-4 days after product administration the owner saw ticks on the dog (approximately 3-4 ticks per day, only a few attached). No more FRONTLINE was administered, the owner bathed the dog twice. The dog had not received FRONTLINE before. No other animals in the household. UPDATE 09-JUL-2019 by MAH: product problem type 'Adverse reaction' added. Note that the case is classified as both 'SLEE' and 'Adverse reaction', but due to a limitation of the database it might be that only the highest hierarchical product problem type, which is 'Adverse reaction', has been transmitted.
22-May-2019	UAE; 19SE000090; -; Sweden	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	2018*	2018*	0 Day(s)	D-C	As reported by the animal owner, 'Pepsi', a 7-year old male neutered domestic cat, body weight approx. 5 kg received FRONTLINE VET 100 MG/ML (LOT and date of administration unknown) administered by the animal owner for the past 5 years in the tick seasonal period. The owner reported that in 2017 the cat reacted the same way after each product administration: Right after having the product applied in the neck area, the cat began cringing together and hurried out the cat door. Upon return to the house the cat was very shy, was hiding under the sofa etc. The owner was unable to pet the cat. During the next couple of days, the reaction decreased and the cat's behavior normalized. In 2018 the owner admistered FRONTLINE VET once and the reaction recurred and the owner stopped with treatment. Other information: In 2017 the cat was treated with antibiotics for some systemic disease with fever (not further specified).
20-May-2019	UAE; 19SE000092; -; Sweden	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019	15-May-2019*	1 Week(s)	D-D	As reported by a pharmacist, a dog (chihuahua, 3 kg approx, age and gender unknown) received FRONTLINE VET 100 MG/ML 0.67 ML SPOT-ON (LOT S20901AX, EXP 30 JUN 2021, valid) topically in the neck administered by the owner on 08 MAY 2019. Approx one week after product administration (date not specified) the owner found ticks on the dog. The dog had not showered or been in contact with water after the administration. The owner has previously (last year: 2018) administered FRONTLINE VET 100 MG/ML to the dog (LOT R21620AX, EXP 30 SEP 2020, valid) and experienced SLEE at this time as well. The owner did not leave contact information to the pharmacist. UPDATE 21 JUN 2019: MAH corrected country of primary source to Sweden. UPDATE from MAH 9-JUL-2019: corrected country of primary reporter again, as the previous attempt failed.
20-May-2019	UAE; 19SE000093; -; Sweden	**Species:** Feline **Breed:** Domestic Shorthair	1	1	0	**Product used:** FIPRONIL SPOT ON CAT	09-May-2019	16-May-2019*	1 Week(s)	D-D	As reported by an animal owner, an 11-months old male neutered domestic shorthaired cat (born 02 JUN 2018, approx. body weight 4 kg, outdoor and indoor cat) received 1 dose of FRONTLINE VET

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		(Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Month(s) **Weight:** 4 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					100 MG/ML SPOT-ON FOR CATS (LOT unknown) topically to the neck area, administered by the owner on 09 MAY 2019. Approx. 1 week later the owner found a lot of ticks on the cat. In the household there is another cat, the sister (female neutered domestic longhaired, the owner suspects they have different fathers) and 15 dogs. The sister had not been treated with any anti-tick product as she hardly had any ticks. The dogs had not been treated with any anti-tick product.
28-May-2019	UAE; 19SE000095; -; Sweden	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 4.000 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-May-2019	27-May-2019	1 Day(s)	D-D	As reported by the animal owner (by social media and phone call), a 7-year old male neutered DSH cat, body weight approx. 4 kg received FRONTLINE VET SPOT-ON 100 MG/ML (lot S21808AX, EXP NOV 2021) 1 dose topically in the neck administered by the owner on 26-MAY-2019 in the evening. The cat was let out and on the next day the owner observed application site alopecia. No itching. The cat has previously been treated with FRONTLINE for one season 2 or3 years ago without reaction. At the time of the report the cat was almost fully recovered.
28-May-2019	UAE; 19SE000096; -; Sweden	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Jun-2018*	N/A	D-D	As reported by the animal owner, a 3-year old male longhaired crossbred cat (Ragdoll and Norwegian Forest Cat) received 1 dose of FRONTLINE VET SPOT-ON (partial batch number: S21512) administered by the owner (via an unknown route, to an unknown site, on an unknown date for and unknown indication). A few days after product administration the cat experienced decreased general condition and alopecia around the neck and down one side of the torso. The cat had no known diseases or allergies at the time of treatment. Date of event has been added for submission purpose. UPDATE from MAH 4-JUL-2019: Due to technical submission purposes, the breed in structured field has been updated to Domestic crossbred' (subfields coded with Norwegian forest cat and Ragdoll).
28-May-2019	UAE; 19SE000097; -; Sweden	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Jun-2018*	N/A	D-D	As reported by the animal owner, an 8-year old male domestic longhaired cat (weight unknown) received 1 dose of FRONTLINE COMP VET (partial batch no: M40811) administered by the owner (via an unknown route, to an unknown site, on an unknown date and for an unknown indication). A couple of days after product administration (not further specified) the cat experienced decreased general condition and alopecia. The cat had no known diseases or allergies at the time of product administration. Outcome of reaction is unknown.
27-May-2019	UAE; 19SE000102; -; Sweden	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 - 4 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-May-2019	02-May-2019	1 Day(s)	D-C	As reported by the animal owner, a healthy 1-year old female intact Domestic longhaired crossbred cat, body weight 3-4 kg received FRONTLINE VET SPOT-ON 100 MG/ML FOR CATS (Lot S20702AW, exp. Apr-2020) 1 dose topically applied to the area between the shoulder blades, administered by the animal owner on 01 MAY 2019 for prophylaxis. Half a day after product administration (approx. 12 hours, MAH estimated on 2- MAY) the cat was shaking its head and fell a couple of times, thereafter the cat layed still and slept for half a day (approx 12 hours) and afterwards returned to normal behavior. The owner reported that

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					the cat had not been the same since the reaction, it acted suspicious, almost as it was afraid of the owner. It fled whenever guests arrived. Concomitant medication: anticontraceptive tablets PO (not further specified). The owner had used FRONTLINE before on other cats, but never observed the reported reaction.
03-Jun-2019	UAE; 19SE000103; -; Sweden	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2019*	2019*	N/A	D-D	As reported by a pharmacist receiving a complaint from a customer, a dog 10-20 kg (age and breed unknown) received FRONTLINE VET SPOT-ON 100 MG/ML SIZE M (batch R21816AX, EXP NOV 2020, valid) two pipettes (unknown if applied at the same or different times, interval not specified) administered by the owner (date unknown). After product administration the owner found fleas and lice on the animal (date unknown). The dog was not bathed during the first 3 days after application.
11-Jun-2019	UAE; 19SE000104; -; Sweden	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** Mixed **Age:** 3.00 Year(s) **Weight:** 17.000 - 25 kg*	4	4	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2019*	2019*	0 Day(s)	D-D	As reported by the animal owner, 4 female Standard Poodle dogs (8 years, neutered, 17kg; 5 years, intact, 25 kg; 4 years, intact, 21 kg and 3 years intact 24 kg) received FRONTLINE VET 100 MG/ML FOR DOGS M AND L (M, batch S20625AX, EXP MAR 2021 or L, batch S20801AR, EXP MAY 2021), administered by the owner (date unknown). After application the owner thought the fur was very oily and was very upset about this. The product was therefore washed off within the 24 hour drying period.
12-Jun-2019	UAE; 19SE000105; -; Sweden	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.50 Year(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2019*	2019*	0 Day(s)	D-D	As reported by the animal owner, two 3.5-years old male neutered domestic crossbred cats, body weight unknown, received FRONTLINE VET 100 MG/ML FOR CATS (batch S20702AW, exp APR 2021) administered by the owner (route, dose and date unknown). After product administration (date not spedified) the owner reports not experiencing the same results of the product as previous years. The owner did not want to answer more questions.
18-Jun-2019	UAE; 19SE000108; -; Sweden	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	May-2019	May-2019*	0 Day(s)	D-D	As reported by the animal owner, two cats (domestic crossbreed, siblings, one female one male neutered, born MAY 2012, 7 years old, weight unknown) received FRONTLINE VET 100 MG/ML SPOT-ON FOR CATS (LOT R21614AX, Exp. SEP-2020, valid) dose given according to leaflet in AUG 2018 and MAY 2019, administered by the owner. After product administration (date not specified) the owner experienced lack of efficacy for both cats. The MAH contacted the reporter by e-mail for more information but at the time of the report no more information was available.
20-Jun-2019	UAE; 19SE000109;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT	30-May-2019	30-May-2019	<=24 hours	D-B	A serious adverse event report from an animal owner regarding a cat, female unknown age, breed and weight.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	-; Sweden	(unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					The cat was treated with Spot-on Frontline vet. 100 mg/ml, 1 dose in the neck on May 30, 2019 as tick prevention. The cat was treated in the morning about 8 am. In the evening about 11 pm the cat got a convulsion with froth, staring eyes and uncontrolled urination. The convulsion lasted about 20-30 seconds and after that the cat recovered.
21-Jun-2019	UAE; 19SE000110; -; Sweden	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 27 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-May-2019*	May-2019*	N/A	D-D	As reported by the animal owner, a 7-year old female intact Golden Retriever, body weight 27 kg, received FRONTLINE VET 100 MG/ML SPOT-ON 20-40 KG (L) (batch unknown, route unknown) 1 dose every 4 weeks given continuously, administered by the owner after ticks had been seen in the beginning of MAY -2019. The owner checked the dog daily and noticed attached ticks shortly after product administration. As the product literature stated that effect against ticks cannot be expected the first 48 hours after product administration, the reporter waited 3 days and still removed removed 3-4 ticks daily. There were no other animals in the household and the dog had been treated with FRONTLINE since it was a puppy.
30-Jun-2019	UAE; 19SE000116; -; Sweden	**Species:** Canine **Breed:** Australian Shepherd **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 24 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jun-2019*	01-Jun-2019*	0 Day(s)	D-D	As reported by the animal owner, a 3-year old female intact Australian Shepherd, body weight 24 kg received FRONTLINE VET 100 MG/ML 20-40 KG (L) (LOT S20801AR, EXP MAY 2021, valid) 1 dose by unknown route administered by the owner on 01 JUN 2019 (approx) in connection with a dog exhibition. After product administration (time not specified) at the dog exhibition, the owner expirienced the dog as being aggressive and stressed. The dog also showed aggressiveness towards other dogs. The dog had not been treated with FRONTLINE VET before and had no prior history of sensitivity towards pharmaceuticals. At the same time as FRONTLINE treatment, the owner administered extra B-vitamin for the dog as a food supplement.
30-Jun-2019	UAE; 19SE000117; -; Sweden	**Species:** Canine **Breed:** Tibetan Spaniel **Sex:** M **Sex qualifier:** - **Age:** 10.00 Month(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2019*	2019*	0 Day(s)	D-D	As reported by the animal owner, 'Goliat' a 10-months old male intact Tibetan Spaniel, body weight approx 6 kg, received FRONTLINE VET SPOT-ON 100 MG/ML (S) for dogs up to 10 kg, 1 dose (0.67 ml, i.e. 11.2 mg/kg), site of adm unspecified, administered by the owner on unknown date (2019). 3 to 4 days after product administration the dog experienced extreme itching at the application site, which subsided after one week with daily shampooing (date not specified). The dog had no prior history of skin problems or reactions to pharmaceuticals.
29-Jun-2019	UAE; 19SE000120; -; Sweden	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown	2015*	2015*	0 Day(s)	D-A	As reported by an animal owner, a 'Tigeröga' a male Maine coon cat (age and bodyweight unknown) received FRONTLINE VET (unknown if spot-on or spray), administration details not specified, administered by the owner on unknown date. The cat became ill, the owner reported that the cat had a 'mysterious, unidentifiable disease' and the veterinarian could not figure out what was wrong. The cat was treated for a long time with drip and cortisone and several tests were done (not further specified). The owner reported that the cat was thin and miserable and that it died (unknown if euthanised) on unknown date. The owner reported that she had to

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						to Company					wait 3 years until she could buy a new Maine coon cat ('Maximilian'), which received FRONTLINE VET and showed same signs as Tigeröga, this was when the owner realized why Tigeröga was ill. The new cat (Maximilian) is reported in SWE-BIAHPV1P-19SE000121. MAH comment: Based on the received information, date of administration and signs has been estimated to 2015. The MAH tried contacting the owner for more information but at the time of the report no more information was available.
29-Jun-2019	UAE; 19SE000121; -; Sweden	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	23-Jun-2019	28-Jun-2019*	5 Day(s)	D-C	As reported by an animal owner, 'Maximilian' a 1-year old male Maine coon, bodyweight unknown (imported at age 12 weeks from Spain), received FRONTLINE VET (unknown if spot-on or spray) administration details not specified, administered by the owner on 23 JUN 2019. After product administration (time of onset not specified, MAH entered 28-JUN for submission purpose) the cat became ill (MAH Veddra-coded 'Malaise'). The owner described that the symptoms were the same as for her previous cat (named 'Tigeröga') that had a 'mysterious, unidentifiable disease' (symptoms not further specified), the previous cat will be reported in the case SWE-BIAHPV1P-19SE000120. The MAH tried contacting the owner for more information but at the time of the report no more information was available.
11-Jun-2019	UAE; 19TD000001; -; Chad	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Jun-2019*	11-Jun-2019*	3 Day(s)	D-C	Suspected Adverse Reaction: as reported by the owner, a dog, other signalements unknown, in an unknown health condition, received a dose of FRONTLINE (unsubstanciated, FIPRONIL TOP SPOT DOGS US was chosen by default, BN and exp date unknown), topically by owner, on an unknown date (08 JUN 2019 was chosen by default), for flea and tick treatment. On an unknown date (11 JUN 2019 was chosen by default) the dog experienced pyoderma. The evolution of the event is unknown. This is the extent of information available.
04-Jun-2019	UAE; 19TH000006; -; Thailand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Month(s) **Weight:** Unknown	2	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Lactated Ringer Solution; Vitamin B; Amoxiclave; Prednisolone; **Route:** unknown **Was the product used ok?:** No (Others)	15-Apr-2019*	16-Apr-2019	1 Day(s)	D-A	A 1-month-old Domestic Short Hair breed cat, Name is Chakeaw had both hindlimb hyperextension after her mother used Frontline Plus Spot On, which her owner bought from pet shop and didn't know lot number/expire date. Before using drug This cat, her mother and her sister is normal but in the same day after using, the owner found that Chakeaw had abnormal sign while her mother and her sister is normal (Only her mother used the product, but not sure if both kitten expose to the product or not). Next day(17/4/19), the owner taked her to Animal hospital. Veterinarian found she had normal heart sound & normal lung sound and no fever, vet gived her 10 ml Lactate Ringer Solution and monitor. 18/4/19 Veterinarion gived vitamin B, 0.5 ml Amoxiclave PO bid, Prednisolone 0.01 ml (SC) and monitor. 19/4/19 Chakeaw can stand by herself and had normal balance, so the veterinarian gived vitamin B and antibiotic ongoing and sent her back to home. After 10 days, the owner called to vet and informed that she died without any information support.
01-Apr-2019	UAE; 19UK001129; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U	6	6	0	**Product used:** FIPRONIL SPOT ON DOG **Other products**	31-Jan-2019*	03-Feb-2019*	N/A	D-D	As reported by the animal owner, 6 canines weighing between 23 kg and 28 kg (signalment otherwise unknown), were given FRONTLINE SPOT ON DOG L (batch number and expiry date unknown) via an unknown route at an unknown dose by the animal

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** - **Weight:** 23 - 28 kg				**used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					owner as a parasiticide. The animal owner reports that they purchased the product two months ago (estimated 31 JAN 2019). After the initial treatment, there were a few days of calm with no scratching but then scratching started again (estimated starting on 03 FEB 2019). The animal owner paid for another treatment one month after the first treatment (estimated 28 FEB 2019) and again there was an initial few days of no scratching and then the scratching started again.
01-Apr-2019	UAE; 19UK001130; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Jan-2019*	30-Mar-2019	15 Day(s)	D-D	As reported by the animal owner, Dennis, a 14 year old male neutered Domestic Short Hair feline, weighing 4 kg and in fair condition, was administered FRONTLINE SPOT ON CAT (batch S21017AW expiry JUN 2021) topically to an unknown site, by the animal owner at a dose of 1 dosage form monthly, starting in JAN 2019 with the latest dose being on 15 MAR 2019 as a preventative treatment. On 30 MAR 2019 the animal was still scratching and the animal owner was still seeing fleas despite doing everything as per the instructions and using a household spray (Staykill).
01-Apr-2019	UAE; 19UK001136; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	N/A	D-D	As reported by the animal owner, a canine (signalment otherwise unknown) was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, details not given) on an unknown date by the animal owner for parasite control. The animal owner reports that the dog is treated with FRONTLINE PLUS every month throughout the year, with no gaps. They have also used the Homegard (assumed FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY, details not given) and are carrying out all the necessary home infestation steps. The animal owner has found one live flea on the dog and one live flea on their bed. One person in the house is being bitten. The dog walks in fields, a collar is not worn when treated with a flea treatment and the dog is not groomed near the time of FRONTLINE PLUS application. The dog does not swim. The animal owner takes the dog to work where there are other dogs, one of their colleagues dogs was untreated for fleas until recently when they gave it Bob Martin treatment. Start date for submission purposes only.
02-Apr-2019	UAE; 19UK001146; Isle of Wight; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	20-Mar-2019	02-Apr-2019*	N/A	D-D	As reported by the animal owner, a dog (signalment otherwise unknown) received FRONTLINE PLUS (estimated to be FRONTLINE PLUS SPOT ON DOGS M as details were not given) applied by unknown on 20 MAR 2019. This was the first time the owner had used FRONTLINE PLUS on the dog, as previously they had used Advantage monthly. The owner had taken the dog to the groomers who had said that the dog was covered in fleas and the groomer had been bitten by the fleas. The owner had not noticed any fleas until this time. The owner had not been bitten in the house. No further information available. Start date of adverse event added for submission purposes only.
01-Apr-2019	UAE; 19UK001148; -; United Kingdom	**Species:** Feline **Breed:** Feline Other **Sex:** X	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE	13-Mar-2019	01-Apr-2019	19 Day(s)	D-D	As reported by the animal owner, Roly-Poly Tickle-Tum, a male Asian caramel Burmilla feline, aged 1 year, and Nico Noodles, a female Asian black smoke feline aged 1 year and 8 months, weighing approximately 2 kg, were given FRONTLINE PLUS

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 1.00 Year(s) **Weight:** 2 kg*				12% SPOT ON **Other products used:** FIPRONIL SPOT ON CAT; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					SPOT ON CAT (batch number S40907AW expiry date JUN 2021) topically to the back of the neck on 13 MAR 2019 by the animal owner for parasite control. The animal owner reports that they are an experienced cat owner and have always treated for fleas. Both cats go outside and have been treated monthly since the animal owner got them nine months ago (estimated starting on 13 JUN 2018). The animal owner reports that last month (the administration on 13 MAR 2019), they upgraded to FRONTLINE PLUS for the first time. It is assumed that FRONTLINE SPOT ON CAT (batch number and expiry date unknown) was used prior to the current administration. The animal owner reports that today (01 APR 2019) they saw a flea on one cat. The animal owner reports that they use FRONTLINE every month without fail, and the last four applications were on 13 MAR 2019, 13 FEB 2019, 13 JAN 2019 and 13 DEC 2018. The animal owner uses the product all year round, people in the home are not being bitten, spend time indoors and outdoors, all pets in the house have been treated with a flea product, the animal owner sees occasional fleas, the cats never go swimming or get bathed, the animal owner has lived in the house for more than a year, the cats' bedding is washed at over 60 degrees Celsius and all areas the pets can access are regularly vacuumed.
03-Apr-2019	UAE; 19UK001155; -; United Kingdom	**Species:** Feline **Breed:** Ragdoll **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 4.5 kg	5	5	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Mar-2019	15-Mar-2019	2 Day(s)	D-D	5 cats have been treated with Frontline Combo Spot-on Cat and the product failed to work on all animals. Another product worked immediately. Date of reaction has been estimated as 15 Mar 2019 as onset interval was provided and date of dosing - nothing further.
03-Apr-2019	UAE; 19UK001175; -; United Kingdom	**Species:** Canine **Breed:** Cockapoo **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	01-Jan-2019	01-Apr-2019*	0 Day(s)	D-D	As reported by the animal owner, Sege a male, 1 year old, Cockapoo dog (breeding status unknown), weighing 10 kg was given FRONTLINE PLUS SPOT ON DOG M, (batch number and expiry date unknown) applied by the animal owner as a parasiticide, starting on 01 JAN 2019 and applied monthly (on the 1st of each month) up to and including 01 APR 2019, applied according to the packet instructions. The animal owner reported that even though they have used the product correctly the dog was still covered in fleas, many fleas were seen (5 or more at the same time). The owner reported that the dog spent most of the time indoors and outdoors. The dog was bathed no more than once a week (but not within 2 days of the product administration). The owner had washed the pet's bedding at over 60°C and the owner had lived in their home for more than 1 year. Date of event added for submission purposes only.
03-Apr-2019	UAE; 19UK001183; -; United Kingdom	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	04-Feb-2019	04-Feb-2019	N/A	D-D	As reported by the animal owner, Alfie, a 10 year old male Patterdale terrier canine, weighing 8 kg and in unknown condition, was administered FRONTLINE PLUS SPOT ON DOG S (batch S60328AL expiry JAN 2021) topically to the back of the neck, by the animal owner at a dose of 1 dosage form on 04 FEB 2019 and

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 10.00 Year(s) **Weight:** 8 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					again on 01 APR 2019 for fleas. The animal owner reports that the product has failed with each use. They have used the product according to the instructions and the dog is still full of fleas. The animal has no contact with other animals and is kept in the living room with only the large garden to run in. The animal owner reports that they think that there must be the occasional cat that goes in their garden and that this is where the dog has picked them up from. The animal owner has treated the house with flea spray and also bought the dog new bedding and yet the problem still persists. The animal owner reports that they first noticed a flea on the undercarriage of the animal around the end of JAN 2019. No one in the home is being bitten, the animal spends time indoors and outdoors, and all the animals in the household have been treated with a flea product. The animal never goes swimming or gets bathed, the animal owner has washed the pet's bedding at 60 degrees and regularly vacuumed all areas that the pet can access. The animal owner reports that their home is spotless and was treated properly, and that their vet is going to give the animal an injection to rid him of the fleas.
03-Apr-2019	UAE; 19UK001185; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	26-Mar-2019	0 Day(s)	D-D	As reported by the animal owner, three canines (signalment otherwise unknown) were administered FRONTLINE PLUS SPOT ON DOG (assumed FRONTLINE PLUS SPOT ON DOG M) (batch S60328AL expiry JAN 2021) topically to the back of the neck, by the animal owner at a dose of 1 dosage form per animal on 26 MAR 2019 for an unknown indication. The animal owner doesn't use a flea product during winter as they don't believe there are any fleas then. The animal owner noticed the animals scratching so applied FRONTLINE PLUS to all three dogs, 8 days ago. The animal's are still scratching a lot at their back ends. The animal owner is not being bitten and they haven't seen any fleas. The animal owner took the dogs to the vets as they were still scratching and they said that FRONTLINE doesn't work. The vet gave the dogs Bravecto. The vet did not find any fleas in the coat but they are short hair coats and so difficult to see .
04-Apr-2019	UAE; 19UK001188; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	31-Mar-2019	4 Day(s)	D-C	As reported by the animal owner, Peggy Sue, a canine (signalment otherwise unknown) was administered FRONTLINE SPOT ON DOG M (batch R21808AX expiry NOV 2020) topically to the back of the neck, by the animal owner on 27 MAR 2019 at an unknown dose, for an unknown indication. The animal owner noticed a sore on the area on Sunday 31 MAR 2019, 4 days following product administration. The animal came in to the vets on 04 APR 2019 to be checked and had an open sore 3 cm by 3 cm that was oozing, and the animal was painful in the area. The animal was given antibiotics and anti-inflammatory drugs. The animal owner reports that they have used FRONTLINE for years and never had this before. The animal is in a lot of pain and discomfort.
04-Apr-2019	UAE; 19UK001204; Lancashire; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.42 Year(s) **Weight:** 4.28 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	N/A	04-Apr-2019	1 Day(s)	D-C	As reported by the veterinary nurse, Pickles a female neutered Domestic Shorthair feline aged 3 years and 5 months, weighing 4.28 kg and in good condition, was given FRONTLINE SPOT ON CAT (batch number and expiry date unknown) on 03 APR 2019 topically, to the shoulder blades, at an unknown dose by the animal owner for an unknown reason. The veterinary nurse reports that in the morning (04 APR 2019) the animal owner reported that the cat had licked off the FRONTLINE and was twitching and had hyperaesthesia. The cat came to the practice this morning (04 APR 2019). Bloods were run and were all normal. Diazepam at 4

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						ok?: Unknown to Company					mg/kg was given which didn't help the twitching so they have stopped using that. 40 ml saline given and then placed on fluids and put in a dark quiet room.
04-Apr-2019	UAE; 19UK001211; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	22-Mar-2019*	N/A	D-D	As reported by the animal owner, two felines (signalment otherwise unknown) were administered FRONTLINE (assumed FRONTLINE SPOT ON CAT) (batch and expiry unknown) (details unknown) by the animal owner on 22 MAR 2019 for an unknown indication. The animal owner reported that it hasn't cleared the problem. The owner reported that she had treated the house (product used unspecified).
07-Apr-2019	UAE; 19UK001226; -; United Kingdom	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	07-Apr-2019*	N/A	D-D	As reported by the animal owner, 2 Yorkshire terrier dogs (signalment otherwise unknown) received FRONTLINE PLUS, estimated as FRONTLINE PLUS SPOT ON DOG S as details of treatment were not given. The owner reported that the product did nothing as fleas were active after just 48 hours following treatment, they had just used another dose, the date of report was 07 APR 2019 (assumed to be the last date of product use). They had bought a six pack of FRONTLINE PLUS and were asking if this could possibly be fake product. This is the extent of the information available. Date of event added for submission purposes only.
08-Apr-2019	UAE; 19UK001228; South Glamorgan; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 4 kg	1	1	1	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	07-Apr-2019	0 Day(s)	D-A	As reported by the attending veterinary surgeon, Mansfield, a 9 year old male neutered Domestic Short Haired feline, weighing 4 kg and in unknown condition, was administered FRONTLINE SPOT ON CAT (batch S20306AW, expiry FEB 2021) topically to an unknown site, by the animal owner on 07 APR 2019 as a preventative treatment. The animal owner reported that the rescue centre from which they got the animal had used FRONTLINE on him previously. An adverse reaction was reported to occur on the same day as product use. The animal was seen by the attending vet on 08 APR 2019 for a check up post adverse reaction. The appointment was made for 11:30 due to hypersalivation. The examination was unremarkable - heart rate was 140, respiratory rate was 20 - and there was some slight hypersalivation. It was suggested by the animal owners that the animal licked the application site. The animal owners had washed the application site within 20 minutes, but not the paws, just the back of the neck. The animal was walking around fine in the consultation room, there were no neurological signs and there were no obvious application signs, no greasy marks on the hair or skin noted by the vet. Atropine injection was declined by the animal owners and they were going to monitor. The vet advised that if there were any tremors or wobbling to bring the animal back straight away. Ninety minutes after the consult, the animal owner called the practice reporting that the animal had a weird neurological episode like it was fighting - clawing at the air, biting, attacking everything - and then died. UPDATE: 22 MAY 2019: QA results received: Investigation completed for FIPRONIL SPOT ON CAT Lot S20306AW, expiry 2021-02-28. Case investigated by France - Toulouse. A product

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											quality complaint for FRONTLINE SPOT ON CAT lot number S20306AW was received by BIAH QA on 08th Apr 2019. The complaint description is: adverse reaction. This is the first complaint regarding this defect for this batch. The retention
08-Apr-2019	UAE; 19UK001242; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	11	11	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	11-Mar-2019	01-Apr-2019*	N/A	D-D	As reported by the animal owner, 11 dogs (signalment otherwise unknown) were treated with FRONTLINE PLUS (estimated as FRONTLINE PLUS SPOT ON DOGS M, details not given) by the owner on 11 MAR 2019. The owner reported that in less than a month they had found nothing but live ticks on their dogs. The owner had been a FRONTLINE user for many years but had not used FRONTLINE PLUS before, after being advised that it was the better one to buy as they had some working dogs. All the dogs within the household were treated. The owner was extremely disappointed as the vet has advised not reuse a FRONTLINE so close together. This is the extent of the information available. Start date of event added for submission purposes only.
09-Apr-2019	UAE; 19UK001249; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2018*	01-Apr-2018*	0 Day(s)	D-D	As reported by the animal owner, a female feline (signalment otherwise unknown) was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT) (batch and expiry unknown) (details unknown) for fleas. The animal owner noticed fleas on their cat about a year ago. They were using a different brand of flea treatment, and a family member told them about FRONTLINE being the best brand and so they switched. They also bombed the house and have been spraying regularly. It has now been a year and everyday the animal owner brushes the animal they are still getting fleas off - at least two a day. The animal owner is tired of stripping bedding weekly and sofas every month to wash and spray them and it is costing a fortune.
10-Apr-2019	UAE; 19UK001263; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (English Springer) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.92 Year(s) **Weight:** 26 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	06-Apr-2019*	09-Apr-2019	N/A	D-D	As reported by the animal owner, Ruffles, a 6 year 11 month old male Springer Spaniel canine weighing 26 kg (signalment otherwise unknown) was administered FRONTLINE SPOT ON DOG L (batch and expiry unknown) (details unknown) on approximately 06 APR 2019 by the animal owner for fleas. The animal owner purchased the spot on last week and applied it to their Springer Spaniel. They made sure with the member of staff that they were getting the correct one for the size of their dog, and ensured that they followed the instructions and applied it to their dog in the correct way. After the animal owner noticed their animal scratching last night (09 APR 2019) they checked him and noticed that he still has fleas. This is not something that the animal owner would expect to happen and is now going to have to purchase further effective treatment to get rid, and protect their dog from, fleas. The animal owner reports that they use the treatment every three months and the last four dates that it was applied is listed as 06 APR 2019. The animal owner first noticed fleas on the pet in MAR 2019 and people in the home are being bitten by fleas. The animal spends time indoors and outdoors, all animals in the household have been treated, the animal owner is seeing more than 5 fleas on their pet at any one time and the animal is bathed or goes swimming no more than once a week. The animal owner has also treated the home with an environmental flea treatment, washed the pet's bedding at over 60 degrees and regularly vacuumed all areas that the pet can access.

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10-Apr-2019	UAE; 19UK001264; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (English Springer) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 22 - 23 kg*	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	8 Day(s)	D-D	As reported by the animal owner, Oban and Bailey, two male Springer Spaniel canines of unknown reproductive status, Oban aged 13 years and weighing approximately 23 kg and Bailey aged 5 years and weighing approximately 22 kg, were administered FRONTLINE SPOT ON DOG L (batch number S20407AR expiry date FEB 2021) on approximately 24 MAR 2019 topically to the back of the neck for fleas. The animal owner reports that they still have two dogs crawling with fleas. The animal owner has chosen the correct product for their dogs' weight and used FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY (batch and expiry unknown) as indicated, multiple times, as well as hoovered and washed their dogs' bedding. Nothing is working and the animal owner is disappointed that the products have made no difference . The animal owner reports that they used to treat the dogs with FRONTLINE every month, although they never had any fleas. Then they moved house (dates unknown) and the previous owner had 4 dogs and carpets and allowed the dogs upstairs. Since the animal owner has moved into this house, they have treated them when they've seen fleas, but they've stopped doing that as nothing was working. The animal owner also used Advantage in this time and this seemed to have a better effect on the fleas , they appeared more drowsy. There has not been carpet downstairs now for over a year, except for a medium sized rug, a doormat and the dogs' beds. The dogs do not go upstairs but there is still some of the previous carpet on the stairs. The animal owner noticed a problem with fleas in the last 6 months and noticed a problem with fleas still appearing about a month ago (estimated 21 MAR 2019). The last two dates the animal owner applied the product were 24 MAR 2019 (approximate) and 21 APR 2019. Before the application on 21 APR 2019, the animal owner had been away for a week and the dogs had stayed with a friend and two other dogs. Whilst the animal owner was away, they used FRONTLINE HOMEGARD up the
12-Apr-2019	UAE; 19UK001277; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	N/A	D-D	As reported by the animal owner, approximately 2 felines (signalment otherwise unknown) were administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) for an unknown indication. The animal owner purchased the product as they thought that Advantage wasn't helping with the flea problem. This was the second application of FRONTLINE following the instructions on the box. After two days, the animal owner checked the cats with a flea comb only to find 10 fleas on one and 6 on the other. The animal owner questions if it is not strong enough. Start date added for submission purposes only.
15-Apr-2019	UAE; 19UK001283; -; United Kingdom	**Species:** Canine **Breed:** West Highland White **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 12.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Cardalis 10/80 mg; Furosemide 10 mg; **Route:** unknown	24-Jan-2019	24-Jan-2019*	N/A	D-D	As reported by the animal owner, Dozer, a 9 year old male West Highland White Terrier canine, weighing 12.5 kg and in unknown condition, was administered FRONTLINE SPOT ON DOG M (batch and expiry unknown) via an unknown route, on 24 JAN 2019, 21 FEB 2019 and 20 MAR 2019 by the animal owner, for an unknown indication. The animal owner reports that they first noticed fleas in JAN 2019 and after the dose in FEB 2019 the animal had fleas again. They went back to the store that they bought the product from and they said that this was normal. However the animal owner has used the product before for many years and have never had a flea recurrence like this. This is the first time that the animal has ever had fleas. Because the animal

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						Was the product used ok?: Unknown to Company					owner found fleas they used the product again on 20 MAR 2019, but last week again they found fleas on the animal. The animal owner reports that they treat the animal annually and year round, people in the home are not being bitten by fleas, the animal spends time both indoors and outdoors, they are seeing occasional fleas (less than 5 at the same time) and the animal is bathed or goes swimming no more than once a week. The animal owner moved into a brand new property in JUN 2018 and has treated the home with an environmental flea treatment, washed the pet's bedding at over 60 degrees and regularly vacuumed all areas that the pet can access. The animal owner reports that the animal also has received Cardalis 10/80 mg, at a dose of half a tablet daily for the last two years, as well as 10 mg of Frusemide daily, and wonders if this could be the reason that he keeps getting fleas. UPDATE 16 MAY 2019: Following internal review, all products made suspect.
16-Apr-2019	UAE; 19UK001301; -; United Kingdom	**Species:** Canine **Breed:** Bichon Frise **Sex:** M **Sex qualifier:** Neutered **Age:** 5.20 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Feb-2019	16-Feb-2019	0 Day(s)	D-D	As reported by the animal owner, Billy, a 5.2 year old male neutered Bichon Frise canine, weighing 9 kg and in good condition, was administered FRONTLINE PLUS SPOT ON DOG S (batch RS1906AL expiry 02 AUG 2020) topically by the animal owner at a dose of 1 dosage form on 16 FEB 2019 as they saw fleas. The animal owner bought the product and was advised by the SQP that the product was a repellent. The animal owner reports that they are still seeing fleas 3 months. They have also used a household spray and they followed all the instructions as per the can. The animal owner reports that the product is not working.
16-Apr-2019	UAE; 19UK001312; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	N/A	D-D	As reported by the animal owners, a male canine (signalment otherwise unknown) was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown every month by the animal owners for flea and tick control. The animal owners report that they administer the treatment every month, but they have just had to remove a tick from their dog. They ensure that the treatment is applied correctly. The tick was engorged. Start date added for submission purposes only.
16-Apr-2019	UAE; 19UK001313; Kent; United Kingdom	**Species:** Canine **Breed:** Cockapoo **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 15.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	03-Apr-2019*	0 Day(s)	D-D	As reported by the attending veterinary surgeon, Benji, a 6 year old male neutered Cockapoo canine, weighing 15.2 kg and in good condition, was administered FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) approximately 2 weeks ago (estimated 03 APR 2019) by the animal owners as they had seen fleas on the pet. The animal owner doesn't treat the animal regularly - the animal hadn't been treated for about a year when it was treated two weeks ago. The animal owner only treated because she saw fleas and was being bitten themself. The attending vet wants to treat the animal with NEXGARD and will also send the animal owner home with a spray.
16-Apr-2019	UAE; 19UK001315;	**Species:** Canine **Breed:** West	1	1	0	**Product used:** FIPRONIL SPOT	N/A	01-Apr-2019*	N/A	D-D	As reported by the animal owner, a female West Highland White Terrier canine (signalment otherwise unknown) was administered

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	-; United Kingdom	Highland White **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					FRONTLINE SPOT ON DOG S (batch and expiry unknown) for years for an unknown indication. The animal owner reports that they wonder if the formula has changed as this year, the dog seems to have developed a rash around the place that they have applied it. Start date added for submission purposes only.
17-Apr-2019	UAE; 19UK001319; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Feb-2019*	01-Feb-2019*	0 Day(s)	D-D	As reported by the animal owner, Pippa a neutered female Domestic Shorthair feline aged 11 years and of unknown weight and in good condition, was given FRONTLINE SPOT ON CAT (batch and expiry unknown) for the last couple of months (estimated starting on 01 FEB 2019) topically to the back of the neck at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have used FRONTLINE SPOT ON for a couple of months and noticed the cat having one or two fleas. The cat is also stress grooming which they think is now due to the fleas. The cat has bald patches all over it. A friend recommended they use FRONTLINE PLUS, so they started that a week ago (estimated 10 APR 2019) however they are still seeing fleas. They saw one flea yesterday (16 APR 2019) when combing the fur. They are not being bitten. Start date for submission purposes only.
13-Apr-2019	UAE; 19UK001321; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	N/A	D-D	As reported by the animal owner, two felines (signalment otherwise unknown) were administered FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) for an unknown indication. The animal owner reports that the cats have had very bad flea infestations and they had to treat the home as well. The animal owner reports that their vets have advised them to stop using FRONTLINE as the cats have built up an immunity to it. Start date added for submission purposes only.
17-Apr-2019	UAE; 19UK001322; Kent; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 7.65 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	31-Mar-2019	17-Apr-2019	17 Day(s)	D-D	As reported by the veterinary clinic staff member, a canine weighing 7.65 kg (signalment otherwise unknown) was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown, topically to an unknown site, by the animal owner at a dose of 1 dosage form on 31 MAR 2019 as a flea treatment. As far as the veterinary clinic staff member knows it is the first time that the animal has had the product as in 2015 the animal had Advocate and in 2017 Simparica. The client came into the practice on 17 APR 2019, and it was noticed that the animal had fleas, the owners are seeing 1 or 2 fleas. They want to put the animal on Advocate. The household is a single animal household and the humans are not being bitten.
18-Apr-2019	UAE; 19UK001329; -; United Kingdom	**Species:** Canine **Breed:** Bedlington Terrier **Sex:** F **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	N/A	02-Apr-2019	1 Day(s)	D-D	SCAB ON BACK OF NECK, APPEARS TO BE BURN MARKS the day after product administration. PIPETTE ADMINISTERED ONTO BACK OF NECK, MARK HAS APPEARED AND SCABBED OVER. OCCURRED LAST TWO TIMES PIPETTE WAS ADMINISTERED. Outcome unknown.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 7.00 Year(s) **Weight:** Unknown				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					
18-Apr-2019	UAE; 19UK001340; Gloucestershire; United Kingdom	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Metacam meloxicam 2.5 mg chewable; Metacam meloxicam 5 mg/ml injection dog cat; Nobivac L4; Nobivac KC; Apoquel 16 mg; Milbemax Chewy Tablets Dog 5-25; Malaseb Shampoo; Bravecto 1000mg; Milpro 12.5 mg/125 mg Tablets; Nobivac DHP; Canaural; Vetruus Otodine Ear solution; Aurizon Ear Drops; Kesium Chewable Tablets 500 mg; Prednisolone 5 mg Tablets; ACP; Buprelieve; Propofol; Vetivex 11; Synulox; Marcain; Pardale V; Isoflurane; Omeprazole; Cerenia; Ranitidine; Lincoject;	N/A	27-May-2015	0 Day(s)	D-A	As reported by the attending veterinary surgeon, Harry, born 27 NOV 2011 a male Labrador Retriever canine (signalment otherwise unknown) was administered FRONTLINE COMBO SPOT ON DOG L (batch and expiry unknown) (details unknown) on 27 MAY 2015 for an unknown indication. The animal came into the practice with a history of skin problems from the previous practice, that suggested atopic dermatitis. The vet notes that this was not that severe at this stage and that allergy tests pointed to storage mites and not grasses etc, yet Summer weather brings out the worst pruritus, possibly due to heat etc. The animal has had an incomplete diet trial and has previously used Cortavance and Malaseb. The animal is fine in Winter, and managed ok. The animal's feet were quite red and so sellotape was used to check for Malassezia and a trial of Apoquel 16 mg was prescribed, along with Malaseb shampoo and the FRONTLINE COMBO SPOT ON DOG L. The animal was given Nobivac L4 and Nobivac KC on this day. The animal remained on Apoquel 16 mg. On 27 MAY 2015 results from the swab taken from the ear showed very few Malassezia and the canals looked ok. The sellotape from the feet showed scant Malassezia. On 10 JUN 2015 the animal came in for a check as was off his legs earlier, but was then fine. The vet queried a possible seizure. On 24 JUN 2015 the animal received another dose of Nobivac L4. On 12 AUG 2015 the animal was dispensed Bravecto 100 mg and Milpro 12.5 mg / 125 mg tablets. On 06 OCT 2015 the animal came in for a check up and was doing really well. All the target areas were very comfy. The animal owner tried to stop the Apoquel but with no joy. More Apoquel 16 mg was dispensed. On 22 DEC 2015 the animal was dispensed Bravecto 100 mg and Milpro 12.5 mg/ 125 mg. On 18 JUL 2016 the animal was due for a booster and medication check but 2 nights ago (16 JUL 2016) and 10 weeks previously (09 MAY 2016) the animal had had what sounded like an exercise induced seizure lasting 1 to 2

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Paracetamol Solution; Local Anesthetic; **Route:** unknown **Was the product used ok?:** Unknown to Company					
21-Apr-2019	UAE; 19UK001352; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	16-Apr-2019	0 Day(s)	D-D	As reported by the animal owner, a cat (signalment otherwise unknown), was treated with FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown), route and frequency unknown, administered by the cat's owner on 16 APR 2019. Since the product was administered, the owner reported that the cat's fur has slowly been burning off. The owner wondered if the formula had changed as they had never had a problem like that before. No further information was supplied. UPDATE 22 MAY 2019: QA results received. Investigation completed for FIPRONIL 10%/S METHOPRENE 12% SPOT ON Lot Unknown, expiry. Case investigated by France - Toulouse. Gotrack complaint closed on 2019-05-22. Final complaint evaluation An adverse event for Frontline Plus Chat batch unknown, was received by BIAH QA on the 23th Apr 2019. Recurrence : This is the five complaint received for an AE, in the past 12 months, all batches included. This defect is rare, it represents 0.1 ppm of every batch produced in 2017 (9 complaints for 78 447 597 pipettes, including all batches of Frontline Regular and Combo for Cats and Dogs/all ranges). Stability: during the test of stability, we can observe that one batch out of thirteen an increase in the water content (regular cat). Efficacy, safety and quality of the product not in question because the whole dose is applied. The tests of stability are conform at the specifications. Quality issue: at this day, no knowledge of any known quality problem on the product. All batches produced are examined and deviation investigated, a release decision is taken among batch records review and quality control results. All released batches are conform with GMP and Marketing Authorization file. This complaint is categorized major with no impact on the market. This complaint is not justified.
23-Apr-2019	UAE; 19UK001353; -; United Kingdom	**Species:** Canine **Breed:** Canine Other **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	16-Apr-2019*	16-Apr-2019*	N/A	D-D	As reported by the animal owner, a female Lurcher canine weighing 14 kgs (signalment otherwise unknown) was given FRONTLINE PLUS SPOT ON DOG M (batch number and expiry date unknown) 3 times in the last week (estimated starting on 16 APR 2019 and ending on 23 APR 2019) topically to an unknown site by the animal owner as a parasiticide. The animal owner reports that they noticed a couple of fleas on the dog so they were told FRONTLINE was the best. The animal owner is very disappointed in the result as it has had no effect whatsoever , the animal owner used a flea bomb in the house and another dose of FRONTLINE and there was no effect. The animal owner put the third application on the dog all within a week and there was no effect.
23-Apr-2019	UAE; 19UK001357; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown)	1	1	0	**Product used:** FIPRONIL 10%/S	N/A	23-Apr-2019*	N/A	D-C	As reported by a retail employee, a male cat (signalment otherwise unknown), was treated with FRONTLINE PLUS SPOT ON CAT (batch number: R40804AW and expiry date: 31 JUL 2020), 1

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					pipette applied to the cat's neck, administered by the cat's owner on an unknown date. On an unspecified date the owner inspected the cat's neck and noticed that the area they had treated, had left what looked like a nasty burn mark, along with a large area of hair loss. The owner had ordered 3 pipettes of FRONTLINE PLUS SPOT ON CAT from the retailer and the owner reported that one of the pipettes was completely empty. One of the other pipettes was then used to treat the cat. No further information was supplied. 24-APR-19 QA results received: Investigation cancelled for FIPRONIL 10%/S METHOPRENE 12% SPOT ON Lot# R40804AW, expiry 2020-07-31. Case investigated by Gotrack complaint cancelled on 2019-04-24. Reason for cancellation: Case raised in error by PV. Investigation raised under reference 412554. Final complaint evaluation.
24-Apr-2019	UAE; 19UK001360; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	23-Apr-2019	23-Apr-2019	0 Day(s)	D-D	As reported by the animal owner, a dog (signalment otherwise unknown), was treated with FRONTLINE SPOT ON DOG (estimated as FRONTLINE SPOT ON DOG M), batch number and expiry date unknown, used as per instructions, administered by the owner on 23 APR 2019. One pipette out of the three in the package was used. Since that time the dog has suffered with lethargy, sickness and diarrhoea. No further information was supplied.
24-Apr-2019	UAE; 19UK001364; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	1999*	01-Apr-2019*	N/A	D-D	As reported by the animal owner via Social Media, a canine (signalment otherwise unknown), was administered FRONTLINE SPOT ON DOG (assumed FRONTLINE SPOT ON DOG M - batch and expiry unknown) by the animal owner, monthly as a parasiticide. The last two treatments for their dog's fleas hasn't worked. The animal owner has had to bath him as he is absolutely riddled with fleas even though they put the product on him every month. The animal owner has used the product for 20 years and has never had a problem until this year and they will now be looking for an alternative. On 08 MAY 2019 the animal owner reported that they spoke to their vet after using 2 months of the product on their dog and he has still go fleas. The vet told the animal owner that they have had quite a few people saying the same, they said that the product no longer works. The animal owner has had to make an appointment to go and buy another product and so has wasted money on this product and won't be using it again.
24-Apr-2019	UAE; 19UK001366; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	N/A	17-Apr-2019	1 Week(s)	D-D	As reported by the animal owner, Lily, a female neutered feline in good condition (signalment otherwise unknown) was administered FRONTLINE SPOT ON CAT (batch and expiry unknown) on 10 APR 2019 by the animal owner for an unknown indication. The animal owner has been using FRONTLINE SPOT ON for a long time, and last applied it on 10 APR 2019. The animal owner found a tick a week ago (17 APR 2019) and it still hasn't dropped off. It is not engorged. The animal owner doesn't use the product every month during the winter - every 6-8 weeks.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
24-Apr-2019	UAE; 19UK001367; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	N/A	D-D	As reported by the animal owner, two canines (signalment otherwise unknown) were administered FRONTLINE PLUS SPOT ON DOG (assumed FRONTLINE PLUS SPOT ON DOG M - batch and expiry unknown) by the animal owner for an unknown indication. The animal owner reports that they have been using FRONTLINE PLUS on both their dogs for a long time. They have noticed that since they have moved home that the dogs have fleas. Before moving to the house they treated the property and also new carpets were laid before the dogs moved in. The animal owner is still noticing their dogs are irritated and scratching excessively. One of the dogs has some sores from what look like bites, and he himself is biting these constantly The animal owner is planning to take him to the vets in case he has developed an allergy. Start date added for submission purposes only.
25-Apr-2019	UAE; 19UK001371; -; United Kingdom	**Species:** Feline **Breed:** Ragdoll **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Nov-2018	20-Jan-2019*	5 Week(s)	D-D	As reported by the animal owner, Hendricks a 5 year old Ragdoll cross Bengal male feline weighing 6 kgs and of unknown reproductive status and in unknown condition, was administered FRONTLINE SPOT ON CAT (batch number and expiry date unknown) last dates of application were 03 NOV 2018, 08 DEC 2018 and 05 JAN 2019 topically to the back of the neck and the base of the skull, by the animal owner. The owner reported that product had reduced in effectiveness more recently as their cat had started to scratch before the cat was due for the next treatment, no evidence of fleas had been seen other than this. The animal owner reported that they had applied the product monthly and the cat had received the product since kitten hood. The animal owner had used the product preventatively rather than as a cure. The animal owner was not seeing fleas, the people in the home were not being bitten, the cat spent time indoors and outdoors, all animals in the home were treated for fleas, the cat was never bathed or went swimming, the animal owner had lived in the home for longer than 12 months and all areas the cat could access were regularly vacuumed. Start date of adverse event added for submission purposes only. Case linked to 19UK001434.
25-Apr-2019	UAE; 19UK001375; Hertfordshire; United Kingdom	**Species:** Canine **Breed:** Canine Other **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 17 - 20 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	26-Mar-2019	26-Mar-2019	N/A	D-D	As reported by the retail outlet, Spider and Archie, two male Lurcher canines of unknown reproductive status and unknown condition, Spider aged 7 years and weighing 20 kg and Archie aged 14 years and weighing 17 kg, were given FRONTLINE PLUS SPOT ON DOG M (batch number P62707 expiry date OCT 2019) topically to the back of the neck by the animal owner at an unknown dose twice for an unknown reason. The retail outlet reports that the animal owner gave both their dogs two treatments of FRONTLINE and it seems to be totally ineffective. The bedding has been washed and overall the house is clean. The animal owner thinks this could be a faulty batch and they have never had this problem before. On 26 APR 2019 the animal owner reported that they use the product all year round and started using the product for their current issue on 26 MAR 2019. They most recently applied the product on 16 APR 2019. People in the home are not being bitten by fleas, the dogs spend time indoors and outdoors, all animals and in contact animals have been treated with a flea product, the animal owner has not seen fleas but there is flea dirt and evidence of fleas in the dogs' fur, the dogs do not go swimming more than once a week, the animal owner has not lived in the house for less than a year, the dogs' bedding has been washed at over 60 degrees Celsius and all areas the dogs can access are regularly vacuumed.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											UPDATE 31 MAY 2019: QA results received. Investigation completed for FIPRONIL 10%/S METHOPRENE 9% SPOT ON Lot P62707, expiry 2019-10-31. The complaint description is: lack of efficacy. This is the first complaint for this defect regarding this batch. The retention sample is conform but will not respond to an adverse reaction. Batch record review: Bulk batch: P627. Manufacturing date: 06/10/2016 - Expiry date: 10/2019 - Manufacturing quantity: 2399 liters. No deviation and observation are associated to this batch. This batch was not concerned by any change control. The results of QC
25-Apr-2019	UAE; 19UK001381; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL SPOT ON CAT; Advocate; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Jan-2019*	07-Apr-2019*	approximately 3 Day(s)	D-D	As reported by the animal owner, Summer a female feline aged 12 years (signalment otherwise unknown) was given FRONTLINE PLUS SPOT ON CAT (batch number S41002AW expiry date JUL 2021) about three weeks ago (estimated 04 APR 2019) topically to an unknown site by the animal owner for an unknown reason. The animal owner reports that they have been using the product for 3 months (estimated starting on 04 JAN 2019) and previously they had used Advocate. One week after the most recent application (estimated 11 APR 2019), the animal owner took the cat to their usual cattery as they were going on holiday for 2 weeks. Within a few days after application (estimated 07 APR 2019) , Summer had a bald patch where the animal owner had applied the treatment. When the animal owner took Summer to the cattery, they were told that the cattery had had other cats boarding with the same type of reaction to FRONTLINE PLUS, one of which had to be taken to the vets as the skin had broken and got infected (see linked case 19UK001381). Summers bare skin patch is not broken but is pink and warm and dose not seem to be improving and the hair does not appear to be growing back. Summer has never had a reaction to flea treatment in previous years and the animal owner used to use regular FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown). On 26 APR 2019, the animal owner reported that Summer is still itching and has irritation at the application site.
25-Apr-2019	UAE; 19UK001382; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	N/A	D-C	As reported by a customer of the cattery, approximately two felines (signalment otherwise unknown) were given FRONTLINE PLUS SPOT ON CATS (details otherwise unknown). The cattery customer reports that the cattery told them that they had other cats boarding with them that had the same type of reaction to FRONTLINE PLUS as their cat (see linked case 19UK001381), and one cat had to be taken to the vets as the skin had broken and got infected. The cattery customer's cat had a bald patch at the application site, which was pink and warm, did not seem to be improving and the hair did not seem to be growing back. Start date for submission purposes only.
27-Apr-2019	UAE; 19UK001394; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used**	N/A	15-Apr-2019*	N/A	D-D	As reported by the animal owner via Social Media, a male feline (signalment otherwise unknown) was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT -batch and expiry unknown) by the animal owner approximately 3 weeks ago (estimated 05 APR 2019) for an unknown indication. The animal owner reports that the kitten had to go to the vets as he hurt his leg and he spent a few days going back and forth in the vets kennels while he was treated. Now, the animal owner has seen a flea on his neck cone and he's been in with their other kitten in the living

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					room. The animal owner keeps finding live fleas. The animal owner also has a dog. Start date added for submission purposes only.
28-Apr-2019	UAE; 19UK001395; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 18.00 Year(s) **Weight:** -	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2002*	Jan-2019*	N/A	D-D	As reported by the animal owner, two felines aged 18 years (signalment otherwise unknown) were given FRONTLINE SPOT ON CAT (batch and expiry unknown) since 2002 by the animal owner for an unknown reason. The animal owner reports that they have used the product on the cats every 4 to 5 weeks, but recently over the past three months (estimated starting on JAN 2019) the animal owner is still finding 2 or 3 fleas on their cats after use. The animal owner has also been using room flea treatments.
29-Apr-2019	UAE; 19UK001419; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 14.5 - 15 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Apr-2014*	24-Apr-2019	N/A	D-D	As reported by the animal owner and SQP via Social Media , a female Springer Spaniel cross Cocker Spaniel canine, weighing 14.5 to 15 kg (signalment otherwise unknown) was administered FRONTLINE SPOT ON DOG M (batch R21806AX, expiry NOV 2020) topically by the animal owner, for the last five years (estimated to start 01 APR 2015) for an unknown indication. The animal owner reports that they have been using the product for the last five years without issues but the past couple of treatments that they have applied, they have not seen the desired effects . The animal owner is aware about not bathing and not allowing the animal to swim for a couple of days after the product is applied. Nothing regarding the flea/tick prevention routine has changed in regards to timings or method of application (parting the hair behind the shoulder blades and ensuring that the product is applied to the skin and not the hair). The animal was treated with FRONTLINE on 15 APR 2019. Since 24 APR 2019 the animal owner has removed three ticks from the animal, which in the animal owner's judgement would be between day 2 and 4 of their feeding stage. The ticks that the animal owner removed looked to have a bit of life in them.
25-Apr-2019	UAE; 19UK001434; -; United Kingdom	**Species:** Feline **Breed:** Ragdoll **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	02-Feb-2019	03-Feb-2019*	1 Day(s)	D-D	As reported by the animal owner, Hendricks a 5 year old Ragdoll cross Bengal male cat, weighing 6 Kgs and of unknown reproductive status and in unknown condition, was administered FRONTLINE PLUS SPOT ON CAT (batch number: S40310AW and expiry date: JAN 2021) on 02 FEB 2019, dose, route and frequency unknown, used preventatively rather than as a cure. The animal owner reported that the animal had a severe reaction to the product starting on an unknown date. They used to use FRONTLINE SPOT ON, but as the product seemed to be less effective more recently (linked case 19UK001371), they bought the 'plus' product. The animal owner applied it during the day and by the next day they noticed fur around the house, much more than normal. By the following day a patch of skin was becoming evident and by the end of that day he had scratched all the fur from the two sites. The animal owner bathed him and cleaned the area to ensure no residue was left, and the cat stopped scratching. The animal owner stated that the vet examined Hendricks' bald patch during a routine appointment for a vaccination (product unknown). The animal's vet confirmed no permanent damage had been done. The animal owner was not seeing fleas and the people in the home were not being bitten.
01-May-2019	UAE; 19UK001436;	**Species:** Canine **Breed:** Mixed	3	2	0	**Product used:** FIPRONIL	30-Mar-2019	07-Apr-2019	8 Day(s)	D-D	As reported by the animal owner, three canines, two of which are Cocker Spaniels (signalment otherwise unknown) were given

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	-; United Kingdom	Breeds / various **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					FRONTLINE PLUS SPOT ON DOG M (batch number S60316AL expiry date unknown) topically by the animal owner for an unknown reason and at an unknown dose on 30 MAR 2019. The animal owner reports that 8 days later they saw ticks. The two Cocker Spaniels had ticks but the third smaller dog hasn't had any. The ticks were very large and well fed and the owner felt that they had definitely been on for longer than 48 hours because they were a substantial size and the animal owner needed the larger tick tool to remove the tick. The animal owner then stated that they did not know how long the tick had been attached and they could not definitely say they had been attached for longer than 48 hours. The dogs do not swim, bathe or wear a collar.
03-May-2019	UAE; 19UK001455; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 - 4 kg*	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	15-Apr-2019	18-Apr-2019*	N/A	D-D	As reported by the animal owner, Colin a male feline aged 9 years and weighing 4 kg, and Jess, a female feline aged 2 years and weighing approximately 3 kg (signalment otherwise unknown) were given FRONTLINE SPOT ON CAT (batch and expiry unknown) on 15 APR 2019 topically to the shoulder blades by the animal owner as a parasiticide. The animal owner reports that they rescued one of the cats who had fleas and passed them on to their other cat. They used the treatment but a few days later (estimated 18 APR 2019) the fleas that were on the cats were alive. The animal owner waited a week and then bought another pack of three and treated the cats again (this is assumed to be the treatment given on 01 MAY 2019). The next day (02 MAY 2019) the fleas that were coming out of the cats' coats were alive and not dead. The animal owner waited another couple of days for treatment to work fully but they were still live fleas, so the animal owner thinks that clearly the treatment isn't working. The animal owner says that their house cat has never had fleas in 8 years. When the animal owner took in the stray cat they treated her straight away. The animal owner states there has been no time for a flea infestation to develop in their home. They have brushed the stray cat and not one single flea was dead, they were all alive, as was every single other flea they caught. The animal owner reports that one cat is a house cat, doesn't have fleas and therefore they don't treat it. The animal owner used FRONTLINE on the stray cat the day after they saw fleas on it. People in the home are not being bitten by fleas, the cats spend time only indoors, all animals in the home have been treated, the animal owner is seeing more than 5 fleas at a time, the cats do not bathe or go swimming, and all areas the pets can access are vacuumed regularly. On 03 MAY 2019 the animal owner reported that they do not have a flea infestation, and that when the stray cat was taken in they had had a cat before that
03-May-2019	UAE; 19UK001462; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	01-May-2019*	N/A	D-D	As reported by the animal owner, their cats (number of cats estimated as 2), signalment otherwise unknown, were treated with FRONTLINE SPOT ON CAT (batch number and expiry date unknown), used as per the instructions, administered by the cat's owner, last used on an unspecified date and the owner reported that the FRONTLINE had no effect and had not killed the fleas. The owner had been using FRONTLINE for many years. No further information was supplied. Start date of adverse event added for submission purposes only.
06-May-2019	UAE; 19UK001468;	**Species:** Canine **Breed:** Terrier	1	1	0	**Product used:** FIPRONIL SPOT	Apr-2019*	Apr-2019*	0 Day(s)	D-D	As reported by the animal owner, a 1 year old female Patterdale terrier canine, weighing 8.5 kg and in unknown condition, was

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	-; United Kingdom	Breeds (500 Series) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 8.5 kg				ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					administered FRONTLINE SPOT ON DOG (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) by the animal owner, in APR 2019 for ticks. The animal owner stated that the animal picked up a number of ticks on her daily walks so they purchased a packet of three pipettes of FRONTLINE SPOT ON DOG from their local pharmacy. They applied the FRONTLINE as instructed on the packet, but the animal continued to pick up ticks and the FRONTLINE did not kill the ticks already in her coat. The animal owner consulted their local veterinary surgeon who removed the ticks and expressed the opinion that FRONTLINE is not effective against ticks and they recommended a flea /tick collar, which was fitted on the dog and since then the dog has not picked up any more ticks. The animal owner states that the product was totally unsatisfactory.
06-May-2019	UAE; 19UK001469; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 2.8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	May-2019*	N/A	D-D	As reported by the animal owner, Poppadum, a female feline aged 5 years and weighing 2.8 kg (signalment otherwise unknown) was treated with FRONTLINE SPOT ON CAT (batch number S21204AW expiry date AUG 2021), route unknown, administered by the cat's owner on an unspecified date. The owner reported on 06 MAY 2019 that they had to go to the vet that week as the cat had flea bites and the vet reported that FRONTLINE was no longer effective on the cat. The animal owner reports that they use the product as per the instructions, they use the product all year round and apply it every 6 weeks. The animal owner has never seen a flea on their cat. No one in the home is being bitten by fleas, the cat spends time indoors and outdoors, all animals in the house have been treated with a flea product, the cat never goes swimming or gets bathed and the animal owner has not lived in their home for less than one year. The animal owner reports that they took their cat to the vet because she was constantly licking her back and was very stressed. The vet confirmed that FRONTLINE was not working and then showed the animal owner areas where the cat had flea bites. The vet then treated the cat with an alternative product (product unknown) and the results were immediate. Date of adverse event added for submission purposes only.
06-May-2019	UAE; 19UK001470; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-May-2019*	N/A	D-D	As reported by the animal owner, a male dog (signalment otherwise unknown) was treated with FRONTLINE PLUS (estimated as FRONTLINE PLUS SPOT ON DOGS M) batch number and expiry date unknown, route and frequency unknown, administered by the dog's owner on an unspecified date, recent to the date of reporting on 06 MAY 2019. FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY 400 ML was also used at the same time to treat the dog's fleas. The owner reported that after the first treatment the dog's skin became irritated and went very red. About 4 weeks after treatment the dog had fleas yet again, the owner reported that it did not prevent another infestation. The owner then treated the dog again and after the second treatment a bigger reaction was seen, the dog had irritated skin, was being sick and was not his usual self. No further information was supplied. Date of adverse event added for submission purposes only.
06-May-2019	UAE; 19UK001471;	**Species:** Canine **Breed:** Canine	1	1	0	**Product used:** FIPRONIL SPOT	N/A	01-May-2019*	N/A	D-D	As reported by the animal owner, a 1 year old male canine (signalment otherwise unknown) was administered FRONTLINE

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	-; United Kingdom	(unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** Unknown				ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					(assumed FRONTLINE SPOT ON DOG M. batch and expiry unknown) by the animal owner, for an unknown indication. The animal owner reports that they applied FRONTLINE to their dog but it doesn't seem to be working. They applied it following the instructions but after 6 days there were still fleas on him, and he seemed to be more itchy. The animal owner used it again and now it has been 2 weeks since using the product and the dog has still got some fleas on him and is very itchy. Start date added for submission purposes only.
07-May-2019	UAE; 19UK001472; West Yorkshire; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** Unknown	4	4	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	19-Apr-2019	26-Apr-2019	1 Week(s)	D-D	As reported by the animal owner, Bess a 10 year old weighing 2 kg, Bonnie a 5 year old, Tiny a 3 year old and Suki a 2 year old, all female Domestic Shorthair felines (signalment otherwise unknown) were given FRONTLINE SPOT ON CAT (batch number R21801AX expiry NOV 2020) topically to the back of the neck on 19 APR 2019 by the animal owner for an unknown reason. The animal owner reports that 7 days after application the product has not worked, the cats are still scratching. The animal owner states that they use the product monthly, that no one in the home is being bitten by fleas and that all the animals that live in the household are treated with a flea product.
08-May-2019	UAE; 19UK001492; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** - **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** General Anaesthetic (unspecified); **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	06-May-2019	12 Day(s)	D-D	As reported by the animal owner, a male intact canine (signalment otherwise unknown) was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) by the animal owner 2 weeks ago, (estimated 24 APR 2019), for an unknown indication. The animal owner reports that they have been a FRONTLINE user for many years and FRONTLINE their dogs with the correct dosage, following the instructions and aftercare. The animal owner purchases FRONTLINE every month. The animal owner's dog was neutered on 06 MAY 2019. Upon collection of the dog, the animal owner was told that the operation went fine and there were no problems, but the pet has fleas.
08-May-2019	UAE; 19UK001494; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	03-May-2019	0 Day(s)	D-D	As reported by the animal owner, a male Cocker Spaniel canine (signalment otherwise unknown) was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M) (Batch and expiry unknown) (details unknown) by the animal owner 5 days ago, on 03 MAY 2019, for an unknown indication. The animal owner reports that they used FRONTLINE PLUS on their Cocker Spaniel and although this was 5 days ago he still has fleas.
09-May-2019	UAE; 19UK001499; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the**	N/A	01-May-2019*	N/A	D-D	As reported by the animal owner, approximately two felines (signalment otherwise unknown) were given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) for parasite control. The animal owner reports that they have used FRONTLINE for years. They still get fleas thanks to their cats. Start date for submission purposes only.

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						product used ok?: Unknown to Company					
10-May-2019	UAE; 19UK001514; -; United Kingdom	**Species:** Canine **Breed:** Canine Other **Sex:** U **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 19.6 - 20.4 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Nov-2018*	N/A	D-D	As reported by the animal owner, Tabitha, 10 years old and weighing 19.6 kg, and Monica, 15 years old and weighing 20.4 kg, two Tevuren canines, of unknown gender and condition, were administered FRONTLINE SPOT ON DOG M (batch and expiry unknown) (details unknown) by the animal owner for flea and tick treatment. The animal owner reports that they have used FRONTLINE successfully on their dogs for many years. In NOV 2018 the animal owner transported a friend's dogs in their vehicle and it subsequently transpired that they had fleas. Despite being on FRONTLINE the animal owner's dogs picked up fleas (a small amount of flea dirt found in the coat of both the animal owner's dogs on their backs). The animal owner has had a battle all winter to kill off the fleas and eggs using anti flea spray in their van and house, washed bedding, all the recommended actions etc. On their vet's suggestion they changed their younger dog onto Advocate , which was very effective, but they did not wish to change the medication for their older dog and so decided to stay with FRONTLINE. Even on FRONTLINE there was evidence of fleas (small amount of flea dirt) on the elderly dog until recently. The animal owner reports that it is now May and they want both the animals on FRONTLINE as ticks have always been their concern and why they used FRONTLINE. The dogs have always been borderline regarding dosage - always being under 20 kg - so the animal owner uses the 10-20 kg product. The elderly dog has recently put on a little weight and is not just over 20 kg and the animal owner is unsure which dose to use.
13-May-2019	UAE; 19UK001526; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-Mar-2019	01-Apr-2019	2 days	D-D	Dog administered Frontline Plus Spot-on Dog (pipette for 20-40 kg BW) (best guessed Frontline Plus Spot-on Dog L). Chewing above tail (coded chewing-pruritus) and sore underneath (coded self trauma). Reaction started 2 days after treatment and lasted 1 week.
15-May-2019	UAE; 19UK001547; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	15-May-2019*	N/A	D-D	As reported by the animal owner, a male feline (signalment otherwise unknown) was given FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) by the animal owner (no further information available). The animal owner reports that the cat has a tick that is feasting on him. The animal owner delayed taking the cat to the vet to have it removed because they thought the product would work. Start date for submission purposes only.

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18-May-2019	UAE; 19UK001584; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.17 Year(s) **Weight:** 3.03 kg	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL SPOT ON CAT; Aqupharm 11; Synulox; Diazepam; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-May-2019	16-May-2019	within 2 hours	D-A	As reported by the animal owner and attending vet, Sparkle, a 12 year 2 months old female neutered cat weighing 3.03 kg, was treated with FRONTLINE PLUS SPOT ON CATS (batch number and expiry date unknown) at an unknown dose, route and frequency on 16 MAY 2019, administered by the animal's owner. The owner has been using FRONTLINE (assumed spot on cat) on the cat for years and never had any problems with it. On 16 MAY 2019 the owner had bought FRONTLINE PLUS SPOT ON FOR CATS instead of the usual FRONTLINE FOR CATS. The product was applied by the owner in the usual way. Within 2 hours the cat started having seizures. The cat was taken to the vet, put on oxygen and fluids, then released. The next day she had another seizure and her kidneys failed and they had to have her put to sleep. On 20 MAY 2019 the attending vet reported that on 16 MAY 2019 (Thursday night) the animal owner heard the animal vocalising and then found it collapsed in the bathroom after having applied FRONTLINE PLUS earlier. The animal appeared to be in respiratory distress. On clinical examination all was ok, with no significant abnormalities found, and the animal had made a pretty good recovery. The clinical notes (from the out of hours service provider) said a possible FRONTLINE PLUS reaction - dyspnoea, collapse and weakness - but they discharged the animal home with the animal owners to keep an eye on her. The following day on 17 MAY 2019 the animal owner reported to the vet that on returning home from the out of hours service, the animal had another episode of collapse and had been weak and unresponsive - they also reported that the animal was lethargic and unresponsive and they were not happy with her. The animal owners brought the animal back into the vets and she was not in a good way at all. The vets started to try and stabilise the cat, she had a low temperature (34), circulation was poor and the animal was generally very weak. They were unable to take blood tests as the animal had pain
20-May-2019	UAE; 19UK001591; Dunbartonshire; United Kingdom	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Neutered **Age:** 20.00 Month(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	Apr-2019*	Apr-2019*	48 hours	D-B	As reported by the attending veterinary surgeon, Mica, born 11 AUG 2017, a female neutered Labrador Retriever canine, weighing 30 kg and in good condition, was administered FRONTLINE PLUS SPOT ON DOG L (batch and expiry unknown) topically to an unknown site, by the animal owner, at a dose of 1 dosage form monthly, once in APR 2019 and once on 16 MAY 2019, as preventative care. 48 hours after application on both occasions, the animal owners explained the animal had a partial seizure, not a tonic-clonic type seizure, more arched back, dog ran off to a safe place and couldn't stand due to muscle tension so the animal owners had to assist with the animal standing. This lasted approximately 15 minutes on both occasions. The animal then returns to normal with no further concerns. The animal was seen this morning, 20 MAY 2019, by the reporting vet and was bright as a button, nothing abnormal was detected. A blood profile and biochemistry were done in house and nothing abnormal was detected. The vet is not sure whether it is indeed the product causing the seizure like symptoms or in actual fact the animal needs to go on to epilepsy medication. The vet is not keen on the product and so will be advising the client to move onto a different non topical preventative in the future.
17-May-2019	UAE; 19UK001606; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown)	1	1	0	**Product used:** FIPRONIL SPOT ON CAT	N/A	01-May-2013*	N/A	D-D	As reported by the animal owner (who is also a Boehringer-Ingelheim employee), their cat (signalment otherwise unknown) was treated with FRONTLINE SPOT ON CAT (batch

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				**Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					number and expiry date unknown), route, dose and frequency unknown, administered by unknown, 5 to 6 years ago and the owner reported that the FRONTLINE SPOT ON CAT caused irritation, redness and fur loss. The owner spoke to the vet about it and eventually moved to an injection product. No further information was supplied. Date of adverse event added for submission purposes only.
21-May-2019	UAE; 19UK001607; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 13.50 Year(s) **Weight:** 20 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Glucosamine; **Route:** unknown **Was the product used ok?:** Unknown to Company	10-May-2019	10-May-2019	0 Day(s)	D-D	As reported by the animal owner, Jerry, a 13.5 year old male canine (signalment otherwise unknown) weighing under 20 kg, was administered FRONTLINE PLUS SPOT ON DOG M (batch S60424AL, expiry JAN 2021) on 10 MAY 2019 for an unknown indication. The animal owner reports that it is now the 21 MAY 2019 and the animal is still biting and scratching his body. The animal owner hates to see him in discomfort. The animal owner lives in a rural area and treats the animal only when it gets fleas - quite rarely. The animal owner has not seen any fleas but has seen some flea dirt. When the animal gets fleas he goes on his bed behind the settee and the animal owner knows that something is wrong. The animal owner has not been bitten, they have treated the house with Staykill household flea spray, washed bedding at 60 degrees, the car has been done and they have hoovered the house a lot. The animal was recently started on Glucosamine for his joints and is not on any other medication. The animal will not let the animal owner examine him as he is a bit snappy, but they think he has a bit of arthritis and is stiff. The animal is scratching and nibbling specifically at the elbows. The animal was already displaying these symptoms which are why the owner thinks he has fleas.
21-May-2019	UAE; 19UK001615; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-May-2019*	N/A	D-B	As reported by the animal owner via Social Media, Shadow a male canine (signalment otherwise unknown) was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) for an unknown indication. The animal owner reports that the animal has epilepsy and they always used FRONTLINE in the past. The animal owner would like to use FRONTLINE again and the animal has had another brand since it was diagnosed. Start date added for submission purposes only.
22-May-2019	UAE; 19UK001622; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used**	2017*	01-May-2019*	N/A	D-D	As reported by the animal owner, approximately two canines (signalments otherwise unknown) was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown) monthly for the last couple of years (no further information available). The animal owner reports that they have never had problems before. They have seen the odd flea on the dog so believes the product hasn't worked. The house has been sprayed with FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY (batch and expiry unknown), washed all bedding, treated the car and hoovered regularly. No one in the house is being bitten and no fleas have been seen on the bedding. The dogs are itchy. Start date for submission purposes only.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					
22-May-2019	UAE; 19UK001626; -; United Kingdom	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 4.2 - 5 kg	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	Dec-2018*	01-May-2019*	N/A	D-D	As reported by the animal owner, Chloe, a 3 year old female Domestic Medium hair feline weighing 4.25 kg, Lucy, a 2.5 year old female Domestic Shorthair feline weighing 5 kg, and a 2.5 year old male Domestic Shorthair feline weighing 5 kg, were given FRONTLINE anti flea drops (FRONTLINE SPOT ON CAT, batch and expiry unknown) monthly, over several months (exact dates unknown; estimated first dose DEC 2018 and most recent doses on 12 APR 2019 and 10 MAY 2019), by the animal owner for parasite control. The animal owner reports that they have also used a professional household spray (Zodiac maxi household spray), vacuuming every day and washing the cats' bedding. The animal owner says that the product doesn't seem to work properly - they are still seeing signs of fleas and the cats are scratching. The animal owner reports that they are using the product ongoing, and started using it before the current infestation. People in the home are being bitten by fleas and the animals spend time indoors and outdoors. All animals in the household have been treated with a flea product, the animal owner is seeing occasional fleas - less than 5 at the same time - and the animals are never bathed or go swimming. The animal owner has also treated the home with an environmental flea treatment, washed the pet's bedding at over 60 degrees celcius and vacuumed all areas that the pets can access. Start date added for submission purposes only.
24-May-2019	UAE; 19UK001653; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 19.00 Year(s) **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	26-Apr-2019*	N/A	D-A	As reported by the animal owner, an intact female feline aged 19 years (signalment otherwise unknown) was given FRONTLINE SPOT ON CAT (batch and expiry unknown, no further details available) by the animal owner. The animal owner reports that the cat died 3 or 4 weeks ago (estimated 26 APR 2019) from old age.
25-May-2019	UAE; 19UK001665; Gloucestershire; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 4.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	25-May-2019*	1 Week(s)	D-D	As reported by the practice receptionist, a dog of 4.2 kg weight (signalment otherwise unknown) was treated with FRONTLINE PLUS SPOT ON DOGS S (batch number and expiry date unknown), route and frequency unknown, applied on two occasions, the last application (date estimated as 18 MAY 2019) was a week previous to the reporting date and the owner reported that they had seen fleas on 25 MAY 2019. The owner had reported to the practice that the FRONTLINE had not worked. The owner had also treated the house with an unspecified household spray.
26-May-2019	UAE; 19UK001666; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	N/A	24-May-2019*	4 Day(s)	D-D	As reported by the animal owner, their dogs estimated as 3 (signalment otherwise unknown) were treated with FRONTLINE PLUS SPOT ON DOGS (estimated as FRONTLINE PLUS SPOT ON DOGS M) batch number and expiry date unknown, used as recommended on the dogs once a month, the last treatment date was 20 MAY 2019. The owner reported that they were surprised to find four ticks on one of the dogs less than 4 days later. They used a tick twister to remove the ticks, only to find them very much alive

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						Route: unknown **Was the product used ok?:** Unknown to Company					and had obviously been feeding. The owner thought the product was ineffective. No further information was supplied.
27-May-2019	UAE; 19UK001667; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-May-2019*	N/A	D-C	As reported by the animal owner, a male feline (signalment otherwise unknown) was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) for an unknown indication. The animal owner reports that the animal has suffered a severe reaction to FRONTLINE PLUS SPOT ON CAT. Four days after application there are significant open burns at the application site and the animal is behaving differently from it's usual self. The animal owner assumes that this is due to the pain resulting from the burns. The animal owner has treated the animal at home rather than taking it to the vet, as it was 4 days after application of the product that they first noticed the open wound. Two days later there are signs of healing and the wound has now scabbed over. The animal owner reports that they will avoid this product in future as a result of the reaction. Start date added for submission purposes only.
05-Apr-2019	UAE; 19UK001683; -; United Kingdom	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Apr-2019*	N/A	D-D	As reported by the animal owner, approximately two Toy Poodle canines (signalment otherwise unknown) were administered FRONTLINE PLUS SPOT ON DOG S (batch S60328, expiry JAN 2021) for an unknown indication. The animal owner reports that they purchased two lots for their Toy Poodles and they have done nothing. The animal owner reports they do not work. On 29 MAY 2019 the animal owner reported that they had since gone on and used further FRONTLINE and there are no further fleas so that they had a bad batch. Start date for submission purposes only. UPDATE 04 JUN 2019: Batch number confirmed as S60328AL. Update received 14 JUN 2019: QA results received. Investigation completed for FIPRONIL 10%/S METHOPRENE 9% SPOT ON Lot S60328AL, expiry 2021-01-31. Case investigated by France - Toulouse. Final complaint evaluation A product quality complaint for Frontline Spot on Dog S, lot number S60328 was received by BIAH QA on the 29 May 2019. The complaint description is : lack of efficacy. This is the second complaint regarding this defect for this batch. The retention sample is conform (aspect). The complaint sample is not received. Batch record review: Bulk batch S603. Manufacturing date: 05/02/2018 - Expiry date:01/2021. Manufacturing quantity: 2399 liters. No deviation and observation are associated to this batch and this batch was not concern by any change control. The results of QC testing are conform at specifications. All parameters verified during manufacturing of this batch of bulk are conform. Filling batch S60328. Manufacturing date: 12/03/18 - Expiry date: 01/2021 - Manufacturing quantity: 40190 blisters. The results of QC testing are conform at specifications. No deviation is associated to this batch and this batch was not concern by any change control. One observation is notified and not associated to this defect (printing mentions on blisters). In-process controls on the pipettes, including the filling were performed every 30 minutes. 288 pipettes were conform.
30-May-2019	UAE; 19UK001695; -; United Kingdom	**Species:** Canine **Breed:** Mixed Breeds / various	6	2	0	**Product used:** FIPRONIL 10%/S	21-May-2019	23-May-2019*	2 Day(s)	D-D	As reported by the animal owner, a 2.5 year old male Flat Coat Retriever canine (signalment otherwise unknown) was administered FRONTLINE PLUS (assumed FRONTLINE PLUS

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: X **Sex qualifier:** Mixed **Age:** 2.50 Year(s) **Weight:** Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					SPOT ON DOG M, batch and expiry unknown) by the animal owner on 21 MAY 2019 for fleas and ticks. The animal has started itching around the site and on examination has a rash and some hair loss. The animal is a show dog and the animal owner won't be able to show it at the moment. Start date added for submission purposes only. UPDATE 19 JUN 2019: the animal owner reported that they have a total of 7 dogs in the house. Six dogs are Flatcoat Retrievers, one of which is Finn (described above), born on 13 AUG 2017, intact male weighing 32 kg and in good condition. Another Flatcoat Retiever is Tilly a neutered female born on 24 SEP 2012 (signalment otherwise unkonwn). Details of the remaining 4 Flatcoat Retrievers are unknown. All six dogs were given FRONTLINE PLUS SPOT ON DOG L (batch number S62911AX expiry date SEP 2021) on 21 MAY 2019 topically to an unknown site by the animal owner for parasite control. Additionally, Coco a female neutered Spaniel dog born JUL 2015 was given FRONTLINE PLUS SPOT ON DOG M (batch number S60711AL expiry date FEB 2021) on 21 MAY 2019 but showed no adverse reaction. Approximately two days after product application (estimated 23 MAY 2019), Finn had a rash at the application site and some hair loss, plus runny eyes and sore ears, which he never normally suffers from. Tilly had runny eyes two to three days after product application (estimated 23 MAY 2019) but this has now resolved.
30-May-2019	UAE; 19UK001696; South Yorkshire; United Kingdom	**Species:** Canine **Breed:** Cockapoo **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	11-May-2019	29-May-2019	18 Day(s)	D-D	As reported by the animal owner, a female Cockapoo canine weighing 18 kg (signalment otherwise unknown) was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch P62707AL expiry OCT 2019) 2 weeks and 5 days ago (11 MAY 2019) to protect the animal from fleas and ticks, the associated illnesses and the trauma of having ticks removed. The animal owner reports that last night they found a tick embedded in the skin on the animal's nose area near the corner of the eye, which has now been removed.
30-May-2019	UAE; 19UK001698; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (English Springer) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL SPOT ON DOG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-May-2019	23-May-2019	N/A	D-D	As reported by the animal owner, Chester a 9 year old male neutered Border Terrier cross Springer Spaniel canine , weighing 10 kg and in good condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch unknown expiry JUN 2021) topically to the back of the neck, by the animal owner, at a dose of 1 pipette on 23 MAY 2019 for an unknown indication. The animal owner applied the product on 23 MAY 2019 and before this was just using the normal FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON DOG M) monthly. The animal owner is now seeing 5 to 6 fleas a day. No one in the house is being bitten and they are seeing flea dirt in the fur and catching the fleas easily. The animal owner is hoovering the house and Sprayed the house with a flea spray. They also use flea shampoo on the dog. The animal doesn't really mix with other dogs and so can't have got fleas from them.
30-May-2019	UAE; 19UK001706; -; United Kingdom	**Species:** Canine **Breed:** Dachshund	1	1	0	**Product used:** FIPRONIL SPOT ON DOG	17-Apr-2019*	May-2019*	N/A	D-D	As reported by the animal owner, a male Miniature Dachshund dog (signalment otherwise unknown), was treated with FRONTLINE SPOT ON DOG (estimated as FRONTLINE SPOT ON DOG S),

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		(Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					batch number and expiry date unknown, administered by the owner exactly as per instructions, applied every month for the last 2 months, the last administration being on 17 MAY 2019 (the first dose was estimated as 17 APR 2019). When brushing the dog the owner was still finding live fleas. The owner thought the product was not living up to the marketing claims. No further information was supplied. Date of adverse event added for submission purposes only.
31-May-2019	UAE; 19UK001723; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-May-2019*	N/A	D-D	As reported by the animal owner, a feline (signalment otherwise unknown) was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown, details unknown) for an unknown indication. The animal owner also used FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY. The animal owner is very disappointed that after using both products the animal still has fleas. Start date estimated for submission purposes only.
31-May-2019	UAE; 19UK001726; -; United Kingdom	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	28-May-2019	31-May-2019	3 Day(s)	D-D	As reported by the animal owner, Sally, a 4 year old female intact German Shepherd Dog canine, weighing 25 kg and in good condition, was administered FRONTLINE COMBO SPOT ON DOG L (batch S60616 expiry FEB 2021) by the animal owner on 28 MAY 2019 for an unknown indication. The animal was separated from the other animal in the household so they didn't have a chance to ingest the product as they play together. The animal has since developed diarrhoea. On the morning of 31 MAY 2019, the animal started whining at 6 am to be let out and though the animal owner did not see her go to the toilet, they strongly suspect that she had diarrhoea as she never ever asks to go out. The animal has subsequently been loose throughout the morning.
31-May-2019	UAE; 19UK001727; -; United Kingdom	**Species:** Canine **Breed:** Borzoi (Russian Wolfhound) **Sex:** F **Sex qualifier:** - **Age:** 12.00 Month(s) **Weight:** 17.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	28-May-2019	29-May-2019	1 Day(s)	D-D	As reported by the animal owner, Meg, a 12 month old female intact Border Collie canine, weighing 17.8 kg and in good condition, was administered FRONTLINE COMBO SPOT ON DOG M (batch S60803 expiry MAR 2021) by the animal owner on 28 MAY 2019 for an unknown indication. The animal was separated from the other animal in the household so they didn't have a chance to ingest the product as they play together. On 29 MAY 2019 in the afternoon, the collie had diarrhoea. The following morning, she had messed in the crate overnight (the animal owner had to hose her down as it was all over her fur) and then she had diarrhoea throughout the day. The animal did not go more often, but when she went it was like water. The animal has subsequently been loose throughout the morning.
02-Jun-2019	UAE; 19UK001729; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	N/A	May-2019*	N/A	D-D	As reported by the animal owner, a canine (signalment otherwise unknown) was administered FRONTLINE PLUS SPOT ON DOG M (batch and expiry unknown, further details unknown) for an unknown indication. The animal owner reports that the product has done nothing that it claimed, if anything it has increased their pet's

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		Unknown **Age:** - **Weight:** Unknown				**Other products used:** smoke bombs; **Route:** unknown **Was the product used ok?:** Unknown to Company					flea infestation. They have used smoke bombs throughout the area, washed all areas and bedding etc. They used the product and at first it worked, then after bathing it was much worse. They waited more than the specified time too. They bathed the animal and combed the fleas out, and then applied another sachet and the same thing, it does what it is supposed to for a few days and then is worse. The animal owner is not happy, the product has not killed any fleas. Start date added for submission purposes only.
02-Jun-2019	UAE; 19UK001730; -; United Kingdom	**Species:** Feline **Breed:** Ragdoll **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Jun-2019	0 Day(s)	D-D	As reported by the animal owner, a male Ragdoll feline weighing 5 kg (signalment otherwise unknown) was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route, to an unknown site by the animal owner, at an unknown dose on 01 JUN 2019 for an unknown indication. The animal owner states that the animal was totally fine for the day, usual sleepy. In the evening they noticed that he was still a little lethargic, which ended up with him hiding away, and towards the night he was sick, three times - all tiny and just fluid. The animal hid away all night (usually is active and sociable) and this morning he was in the same condition - seeking somewhere cool and not wanting to interact at all. The animal owner noticed that he had a little eye discharge. The animal owner states that clearly the animal is sensitive to an ingredient as he has never reacted like this before, and that they hope that this is not a bad sign. The animal owner will be taking a visit to the vet if he stays like this.
02-Jun-2019	UAE; 19UK001731; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, a female feline (signalment otherwise unknown) was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT , batch and expiry unknown, further details unknown) by the animal owner for fleas. The animal owner reports that their animal has fleas and they have used the products for their cat, and followed all instructions, and it hasn't worked. They've used two boxes in the time frame given. Nothing seems to be working, and they are getting upset because they can't help their cat and also because the treatments are not working. Their cat enjoys baths, which is really funny to see as she looks like Dobby from Harry Potter after one, but she loves them. The animal owner does not want to waste money yet again on products from this company and them not work. Start date added for submission purposes only.
03-Jun-2019	UAE; 19UK001732; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	28-May-2019	1 Day(s)	D-D	As reported by the animal owner, a male feline (signalment otherwise unknown) was administered FRONTLINE PLUS SPOT ON CAT (batch s41511A, expiry NOV 2021, details unknown) on 27 MAY 2019 for an unknown indication. The animal owner reports that the product had an adverse effect on their cat's skin, resulting in fur loss and blistering between his scapulae. The animal was in some discomfort for 24 to 48 hours after application on 27 MAY 2019. No veterinary support was needed but they were advised to apply tea-tree solution to keep the irritation to a minimum.
03-Jun-2019	UAE; 19UK001733; Warwickshire; United Kingdom	**Species:** Canine **Breed:** Scottish Terrier **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:**	N/A	13-May-2019	N/A	D-D	As reported by the veterinary nurse, Monty, a 6 year 9 month old male neutered Scottish Terrier canine, weighing 11.3 kg and in unknown condition, was administered NEXGARD SPECTRA M (batch and expiry unknown) orally by the animal owner, on 13 MAY 2019 at a dose of 1 tablet as he had ticks. The animal came into

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Neutered **Age:** 6.75 Year(s) **Weight:** 11.3 kg				AFOXOLANER 37.50 MG / MILBEMYCIN OXIME 7.50 MG CHEWABLE TABLETS; **Route:** unknown **Was the product used ok?:** Unknown to Company					the practice on 13 MAY 2019 and had a dose of NEXGARD SPECTRA as he had ticks on him and the animal is aggressive so they could not remove them. The animal came back on the Monday (20 MAY 2019) to be sedated to have them removed as they hadn't fallen off. The animal owner has applied FRONTLINE (assumed FRONTLINE SPOT ON DOG M) (batch and expiry unknown) as well last week - the reporter does not know which Frontline product used, or any other details.
03-Jun-2019	UAE; 19UK001734; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	May-2019	N/A	D-D	As reported by the animal owner, Coco, a 9 year old female neutered Cocker Spaniel canine, weighing 12 kg and in good condition, was administered FRONTLINE PLUS SPOT ON DOG M (batch S60805AL expiry MAR 2021) topically to an unknown site, by the animal owner, at an unknown dose on an unknown date as a preventative. At the beginning of MAY 2019 the animal owner noticed fleas. They have never seen fleas before after they have been using the product for a good 2 to 3 years. They have used a household spray and followed the instructions as per the can, and still discovered fleas. The animal owner feels that this means that the product is not working like it used to.
03-Jun-2019	UAE; 19UK001737; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	Feb-2019*	31-May-2019*	0 Day(s)	D-D	As reported by the animal owner, a male cat of unknown signalment was administered FRONTLINE SPOT ON CAT (details unknown) for several months (estimated start date FEB 2019), via an unknown route at an unknown dose and frequency. The animal owner reported that the most recent pipette they gave the cat, on 31 MAY 2019 caused a bad reaction. His hair has fallen out and is very red and sore. The animal owner will not use the product again.
04-Jun-2019	UAE; 19UK001742; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	02-Jun-2019	N/A	D-D	As reported by the animal owner, their male cat (signalment otherwise unknown) was treated with FRONTLINE (assumed to be FRONTLINE SPOT ON CAT) batch number and expiry date unknown, route and frequency unknown, administered by the cat's owner on 02 JUN 2019 and the owner reported that the cat had been distressed since the owner had applied the product. The cat had also gone bald in the exact area the product was applied. The owner had used the product previously with no bad effects until now. No further information was supplied.
03-Jun-2019	UAE; 19UK001745; Worcestershire; United Kingdom	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Pregnant **Age:** 2.00 Year(s) **Weight:** 6.44 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	31-May-2019	31-May-2019*	0 Day(s)	D-D	As reported by the vet practice administration staff, Lexi, a 2 year old pregnant female Shih Tzu dog, weighing 6.44 kg and in good condition, received FRONTLINE SPOT ON SMALL DOGS for the first time, topically at an unknown dose on 31 MAY 2019, administered by the owner, as the dog has fleas. The owner said that she had treated the whole house (no further details) but was still seeing fleas. The dog is reportedly not up to date with Frontline.

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						ok?: Unknown to Company					
04-Jun-2019	UAE; 19UK001754; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Sedation (unspecified); **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Apr-2019	Apr-2019*	N/A	D-D	As reported by the animal owner, Casper a male canine weighing 30 kg (signalment otherwise unknown) was administered FRONTLINE PLUS SPOT ON DOG L (batch S60626AR and expiry FEB 2021) topically to an unknown site, by the animal owner, at a dose of 1 dose on 24 APR 2019 and again on 26 MAY 2019 for flea and tick treatment. The animal owner reports that they found a few ticks on the animal between the doses, but yesterday, 03 JUN 2019, the animal underwent surgery at their local vets. Once sedated the vet was alarmed to discover 5 liv, engorged ticks well attached to the animal. The animal owner reports that obviously the preparation is not working as advertised. The animal owner is very disappointed with the product and would not recommend it, although they have always used it in the past and not encountered this problem.
04-Jun-2019	UAE; 19UK001756; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	17-May-2019	17-May-2019	0 Day(s)	D-D	As reported by the animal owner, Charlie a 10 year old feline and Milly, a 6 year old feline, in good condition (signalment otherwise unknown), were administered FRONTLINE PLUS SPOT ON CAT (batch R40804AW expiry JUL 2020) (details unknown) by the animal owner on 17 MAY 2019 for an unknown indication. The animal owner reports that is hasn't worked. The animals normally have Advocate but they wanted to get an over the counter product as it is annoying to have to keep going to the vets. The animal have Flea Allergic Dermatitis (FAD) and so struggle with fleas. They are still scratching and biting very badly. They have scabs on their legs and back. The animal owner sprays the house and they have never actually seen any fleas in the house or on the cats.
04-Jun-2019	UAE; 19UK001757; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, two felines (signalment otherwise unknown) were administered FRONTLINE SPOT ON CAT (batch and expiry unknown) (details unknown) by the animal owner for an unknown indication. The animal owner reports that one developed a clear bald patch the day after treatment but no other apparent side effects. The other animal is fine. Start date added for submission purposes only.
09-Jun-2019	UAE; 19UK001780; -; United Kingdom	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Jun-2019*	N/A	D-D	As reported by the animal owner, a female German Shepherd Dog (signalment otherwise unknown) was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown), no further details available, by the animal owner. The animal owner reports that the dog has had diarrhoea and has been panting. The dog has been poorly and has been defaecating in the house. Start date for submission purposes only.
09-Jun-2019	UAE; 19UK001792; -; United Kingdom	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	19-May-2018	09-Jun-2019	N/A	D-B	As reported by the veterinary nurse, Denver, born 03 MAR 2011 a male neutered Miniature Labradoodle (Labrador Retriever cross Miniature Poodle) canine, weighing 16.2 kg and in good condition, and one other animal, were administered FRONTLINE PLUS

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		Sex qualifier: Neutered **Age:** 8.00 Year(s) **Weight:** 16.2 kg				9% SPOT ON **Other products used:** Lectade; Canikur Pro Enterococcus faecium-montmorillonite E 558-artificial meat aroma-soya oil-inactivated yeast-vegetal protein-glucose-sodium chloride; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					SPOT ON DOG M (batch and expiry unknown) topically to an unknown site, by the animal owner, at a dose of 1 vial from 19 MAY 2019 for preventative treatment. The animal has a history of asymptomatic MVD and no treatment is needed at the minute. On 09 JUN 2019 Denver was asking to go out in the night every half hour, and passing pink milkshake looking like haemorrhagic diarrhoea. The animal vomited eight times overnight. The animal was clipped, bathed and starved. The animal was quiet and lip licking and Lectade was added to the drinking water. At 1 pm the animal vomited again twice, and at 6 pm the animal was given CANIKUR PRO PASTE (batch number: 106830, expiry date 10 JUN 2020). On 10 JUN 2019 the animal was asking to go out at 3 am and passed a liquid fountain of blood. The animal vomited again two times and was taken to the out of hours vet. The animal was normothermic and nothing abnormal was detected on abdominal palpation. The animal was dehydrated and the mucous membranes were slightly congested and tacky. The animal was admitted for IVFT and IV medication. On 13 JUN 2019 the animal owner reported that the animal was home and much better - so resolved on 11 JUN 2019. Medication wise the animal is on 250 mg Metrobactin twice daily, 250 mg Nisamox twice daily, 20 mg Omeprazole twice daily and 4 ml Canikur Pro Paste twice daily. On 17 JUN 2019, it was reported that the dog was all better.
11-Jun-2019	UAE; 19UK001795; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Expired)	04-Jun-2019*	Jun-2019*	1 Week(s)	D-D	As reported by the animal owner, 2 canines (signalment otherwise unknown) were given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number H22257AS expiry date AUG 2015) one week ago (assumed 04 JUN 2019) topically by the animal owner (no further details available). The animal owner reports that both the dogs have been scratching after application. They have not seen fleas on either dog at all, either before or after application, and no ticks have been seen on them since they had the product. Start date for submission purposes only.
10-Jun-2019	UAE; 19UK001799; -; United Kingdom	**Species:** Canine **Breed:** Canine Other **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 38 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Isaderm topical cream; Rilexine; Prednisolone 20 mg; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	May-2019*	Jun-2019	N/A	D-C	As reported by the animal owner via a retailer, Rudi, an 8 year old male Italian Spinone canine weighing 38 kg and in good condition (signalment otherwise unknown) was given FRONTLINE PLUS SPOT ON DOG XL, batch S61507AR, expiry MAY 2021) on an unknown date, topically to an unknown site by the animal owner for an unknown reason. The animal owner reports that the dog has had a very bad reaction to the product, the dog's skin has become extremely infected and sore and will probably require veterinary treatment. The animal owner states that this has never happened before even though they have purchased products from the same retailer before and they are wondering if the product is faulty. The animal owner reported that the product was for a dog over 40 kg, and provided photographs which they stated showed the skin to appear almost burnt. The animal owner reported that they have used a 40 kg dose on the animal on many other occasions (they used to have another dog that weighed over 40 kg and they used the same product and the same dose on both animals without ever having an incident). The animal owner finds it hard to believe that the dosage would have been so strong to cause this massive skin

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											issue when they are talking about a kilo or two difference so they wonder still if the product itself is more to do with it. The attending vet reported that the animal was seen in practice on 11 JUN 2019 with a wet eczema. The vet could not touch the area as it was very sore. They had to sedate the animal to clip the area, which revealed an ulcerated area (about 3 by 1 inches). The surrounding 15 inches were red and scabby. The animal was put onto Antibiotics (Rilexine for 10 days), Prednisolone 20 mg for 4 days and Isaderm topical cream. The attending vet saw the animal this morning, 13 JUN 2019, and the affected areas were dry and scabby. The whole neck area was red, though the vet said that Isaderm cream can make this happen. The animal was much more comfortable. The vet said
11-Jun-2019	UAE; 19UK001806; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Jun-2019	10-Jun-2019	2 Day(s)	D-D	As reported by the attending veterinary surgeon, Leroy a 6 to 7 years old, neutered male Domestic Shorthaired cat, weighing 4 kg and of good health, was given FRONTLINE PLUS SPOT ON CATS (batch number: R40804AW and expiry date: JUL 2020) at a dose of 1 pipette, applied topically by the cat's owner on 08 JUN 2019. On 10 JUN 2019 (2 days following product administration), the owner noticed a bald patch where the product had been applied. It was just hair loss, the skin was clean and unbroken, and there was no rash. The owner also reported that FRONTLINE PLUS also made the cat sleepy. The owner had used the product before on the cat with no problems seen. The owner reported that Advocate had no effect.
12-Jun-2019	UAE; 19UK001813; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2014*	01-Jun-2019*	N/A	D-D	As reported by the animal owner, approximately 2 canines (signalment otherwise unknown) were given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown) by the animal owner as a parasiticide (no further details available). The animal owner reports that they have been using the product for many years (estimated starting in 2014) but as of late (estimated 2019) FRONTLINE PLUS is not working. The animal owner states that they have used the product 4 times (no dates available) with no success, in fact the dog has more fleas now than when they started. The animal owner was expecting a result but unfortunately for their uncomfortable dog this is not the case. Start date for submission purposes only.
12-Jun-2019	UAE; 19UK001817; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** - **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	22-Apr-2019	22-Apr-2019	0 Day(s)	D-C	Blistering on skin on back of the neck where administration occurred on same day of application. Outcome unknown.
13-Jun-2019	UAE; 19UK001837;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, a 16 year old female feline (signalment otherwise unknown) was administered FRONTLINE

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	-; United Kingdom	(unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** Unknown				ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					(assumed FRONTLINE SPOT ON CAT, batch and expiry unknown, further details unknown) by the animal owner for an unknown indication. The animal owner reports that they have used FRONTLINE twice on their cat and it still has fleas and little black pin heads on it. The animal owner was under the impression that FRONTLINE was the best product to use. Start date added for submission purposes only. The reporter could not be contacted for collection of further information.
13-Jun-2019	UAE; 19UK001838; Berkshire; United Kingdom	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 22.00 Month(s) **Weight:** 4.86 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** General anaesthetic; Convenia; Loxicom; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-May-2019	11-Jun-2019	N/A	D-C	As reported by the attending veterinary nurse (who was also the cat's owner), Ed a 1 year, 10 month old, neutered male Domestic Longhaired cat, weighing 4.86 kg and of good health, was given FRONTLINE PLUS SPOT ON CATS (batch number: R40718AW and expiry date: JUN 2020) at a dose of 1 pipette, applied topically on 19 MAY 2019, administered by the animal's owner, as preventative care. On 11 JUN 2019 (approximately 1 month following product administration), the cat returned home with a giant hole in his leg. The hole was approximately 2.5 cm in diameter with jagged edges and had cut through to the sinus through the muscle layer. It was thought that this was due to a bite wound or the cat had impaled itself on something. The cat was given a general anaesthetic and the area was debrided and sutured, an elliptical incision was made and the area was sutured with Monocryl and 4.0 Vicryl intra-dermal sutures. The cat was given a Convenia antibiotic injection. Loxicom was also dispensed to be given to the cat as per a 4.5 kg animal (dose assumed to be 0.05 mg/kg), to be given once a day, the cat was then taken home. On the morning of 13 JUN 2019 the wound was looking good, there was no swelling, inflammation or discharge. The cat was defecating, urinating, drinking and eating normally, all was ok. The skin was quite tight as over the very mobile area. The cat was unable to interfere with the wound as the cat was wearing a buster collar and was confined to a room with nothing to jump on. In the afternoon of 13 JUN 2019 the wound was producing a small amount of serous pink tinged fluid the wound then re-opened. The cat was then taken to the vet in order for the cat to be stitched up again, the cat was admitted and surgery was planned for 14 JUN 2019. On 17 JUN 2020 the owner reported that they were picking the cat up that evening after the cat had had his second operation and that the cat had been hospitalised since 13 JUN 2020. On 25 JUN 2019 the animal owner reported that on
13-Jun-2019	UAE; 19UK001841; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Jun-2019*	N/A	D-D	As reported by the animal owner, a male dog (signalment otherwise unknown) received FRONTLINE PLUS (estimated as FRONTLINE PLUS SPOT ON DOGS M) applied by the animal owner as advised. When the owner returned from a trip to Devon (10 days after the treatment was given) the owner noticed that the dog had a couple of ticks, one of which was engorged in the dog's ear. The owner was under the impression that the treatment should have killed the tick before it had the opportunity to feed. Start date of event added for submission purposes only.

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14-Jun-2019	UAE; 19UK001848; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 18.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Flea spray; FIPRONIL SPOT ON CAT; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	31-May-2019*	Jun-2019*	N/A	D-D	As reported by the animal owner, Squeak an 18 year old, neutered female Domestic Shorthaired cat, of unknown weight and fair health, was given FRONTLINE PLUS SPOT ON CATS (batch number: S40907AW and expiry date: JUN 2021) at a dose of 1 pipette, applied topically to the back of the cat's neck, administered by the animal owner, on 31 MAY 2019 in order to de-flea the cat, as the owner had seen fleas. The owner had also sprayed the carpet with flea spray (product unknown). The owner had not given any flea treatment previously but the cat had been treated with FRONTLINE SPOT ON in the past. The owner had seen one or two fleas jumping on the cat and on her. The owner reported that the FRONTLINE PLUS SPOT ON had not worked and they were still finding fleas. Date of event added for submission purposes only.
14-Jun-2019	UAE; 19UK001853; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, a 3 year old male cat (signalment otherwise unknown), was treated with FRONTLINE PLUS SPOT ON CATS (batch number and expiry date unknown), route and frequency unknown, administered by the cat's owner on an unknown date. The owner reported that it has removed the fur from the cat's neck. No further information was supplied. Date of adverse event added for submission purposes only.
14-Jun-2019	UAE; 19UK001856; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Indication not indicated / recommended)	N/A	2018*	0 Day(s)	D-D	As reported by the animal owner, a dog (signalment otherwise unknown) was treated with FRONTLINE (estimated to be FRONTLINE SPOT ON DOG M) on an unspecified date last year, in 2018. The owner reported that it did not protect again harvest mites. Date of event added for submission purposes only.
17-Jun-2019	UAE; 19UK001860; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 7.00 Year(s) **Weight:** 4 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	28-May-2019	28-May-2019	N/A	D-D	Fur loss & dermatitis (we assume application site) same day of product administration. Reaction duration 7 days.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					
18-Jun-2019	UAE; 19UK001863; -; United Kingdom	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Unknown **Age:** 1.01 Year(s) **Weight:** 28.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	03-Jun-2019	approx9imately 5 hours	D-B	1.01 year old 28.5 kg female Labrador cross had Frontline Plus Spot-on Dog L applied on 3 June 2019. I gave my girl the front line plus in the correct place stated on the leaflet the correct way of doing it around 8.30 on the 03.06.19 by 1 o"clock that afternoon my girl started throwing up over and over again every few hours. She was refusing any food at tea time.This carried on into the night and she started shivering constantly. Throughout the night she carried on in a bad way throwing up and shivering. We got up at half 7 and went downstairs and again she was again throwing up when she had nothing in her as she had been refusing water and food through the night. I rushed her down to the vet who confirmed she had a bad reaction to the frontline plus and they kept her there for the day on a drip and gave her antisickness to help her through it all. I got her home at 5 o"clock that day (04.06.19) as she had stopped vomiting and was keeping food and fluids down. She still isn"t 100% but she"s finally peeking up a bit after an awful experience. Product needs removing off the shelves. It"s made out to be a safe option for treating fleas. I honestly feared for my dogs life she was that lifeless and flimsy. No pet owner should have to go through watching their beloved pet suffering so badly off something that is supposed to help them
16-Jun-2019	UAE; 19UK001868; -; United Kingdom	**Species:** Canine **Breed:** Spaniel **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 25 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	2012*	Apr-2019*	0 Day(s)	D-D	As reported by the animal owner, Lucky a male canine (signalment otherwise unknown) was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) for the last 8 years (estimated starting in 2012) topically to the back of the neck by the animal owner for parasite control. The animal owner reports that the product seems to have become ineffective , the animal owner's routine is to wash the dog with shampoo and leave him outside to dry. Whilst the dog is drying, the animal owner sprays the house with aerosol spray (product unknown) to get rid of eggs or larva, then they squirt a capsule (assumed FRONTLINE) on to the back of the dog's neck in the evening before allowing the dog back inside the house. The animal owner reports that the product is not working anymore and has not worked for the past three months (estimated APR 2019). The animal owner has also been buying flea shampoo a few weeks after application as the dog is crying with bites and the animal owner has seen one or three fleas each time they wash him so they believe the fleas are not dying. The animal owner has sprayed the house, boil washed the dog's blankets and all soft cushion covers and has caught a few fleas crawling over their arm if the dog has been sitting next to them. Start date for submission purposes only.
16-Jun-2019	UAE; 19UK001869; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 17.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2014*	2019*	0 Day(s)	D-D	As reported by the animal owner, a feline aged 17 years (signalment otherwise unknown) was given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) for years (estimated starting in 2014, no other information available). The animal owner reports that they have been using the product for years now but it is no longer working. Start date for submission purposes only.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
16-Jun-2019	UAE; 19UK001870; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	2019*	2019*	N/A	D-D	As reported by the animal owner, a feline (signalment otherwise unknown) was given FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) by the animal owner twice (no further information available). The animal owner reports that after applying the treatment twice, they still have live fleas. Start date for submission purposes only.
16-Jun-2019	UAE; 19UK001871; -; United Kingdom	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Unknown **Age:** 1.58 Year(s) **Weight:** 5 - 6 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	May-2019*	16-Jun-2019*	1 Day(s)	D-D	As reported by the animal owner, Paisley a female pug canine aged 1 year and 7 months and weighing 5 kg, and Petra, a female Jack Russell canine aged 6 years and weighing 6 kg, were given FRONTLINE PLUS SPOT ON DOG S (batch number S61002AL expiry date APR 2021) at the end of May 2019, on 01 JUN 2019 and on 15 JUN 2019, topically to the back of the neck by the animal owner as a parasiticide. The animal owner reports that two weeks after applying the product (assumed after applying the product on 15 JUN 2019), their pet still has fleas and they seem to be multiplying. The animal owner cleans their home to kill the cycle of fleas but the product has failed to protect their pet. The animal owner uses the product when they see fleas, they have only just attempted to use the product but normally they use a product all year round, they first noticed fleas on their pet over a year ago (estimated JUN 2018), people in the home are not being bitten by fleas, the animals spend time indoors and outdoors, all animals in the home have been treated with a flea product, the animal owner is seeing at least 5 fleas at a time, the animals do not go swimming or get bathed more than once a week, the animals do swim or get bathed within 2 days of the product being applied, they animal owners have not lived in their house for less than a year, the house has been treated with an environmental flea treatment, the pets' bedding has been washed at over 60 degrees and all areas the pets can access have been regularly vacuumed. Start date for submission purposes only.
17-Jun-2019	UAE; 19UK001884; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	09-Jun-2019	16-Jun-2019	1 Week(s)	D-D	As reported by the animal owner, a canine (signalment otherwise unknown) was given FRONTLINE PLUS SPOT ON DOG L (batch and expiry unknown) 8 days ago (09 JUN 2019) for parasite control (no further information available). The animal owner reports that yesterday (16 JUN 2019, 1 week after product administration) they found a blood filled tick on the dog. The animal owner reports that the dog is within the weight limit and they administered the product exactly as directed on the packet.
17-Jun-2019	UAE; 19UK001885; West Sussex; United Kingdom	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** U	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	05-Jun-2019	17-Jun-2019	N/A	D-D	As reported by the animal owner, a Main Coon cat, weighing 5.3 kg (signalment otherwise unknown), was treated with FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown), route and frequency unknown, administered by unknown, starting from 05 JUN 2019 as a flea treatment, used once only. On 17 JUN

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		Sex qualifier: Unknown **Age:** - **Weight:** 5.3 kg				12% SPOT ON **Other products used:** RIP Household spray; **Route:** unknown **Was the product used ok?:** Unknown to Company					2019 the owner reported that they had a flea infestation. This is the first flea treatment they had used on the cat. There was also a dog in the house which they had treated with Bravecto. The owner had also treated the house with RIP household spray. The owner had not bathed the cat.
17-Jun-2019	UAE; 19UK001886; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	Jan-2019*	Jan-2019	N/A	D-D	As reported by the animal owner, Jess a female cat (signalment otherwise unknown), was treated with FRONTLINE SPOT ON CAT (batch number: S20306AW and expiry date: FEB 2021), applied by the owner in JAN 2019 and then again in FEB 2019. Two days after the first treatment the cat developed a large bald patch where the product had been placed. The owner thought nothing of it until the following months treatment in FEB 2019 caused an even larger bald patch and the cat started to lose large clumps of hair, again where the treatment was applied. The cat was not scratching the area and did not seem at all bothered as has always been the case when treated previously. The hair loss started within 24 hours of application of the first treatment and was a little longer to start with the second treatment. The skin did not appear reddened or sore it was just a bald patch, which had now grown back since stopping the treatment. The owner reported that they had used FRONTLINE SPOT ON CAT previously until the cat went missing. The cat then returned 2 years later and so the owner started to use the product again. The owner had another cat that had not been treated.
18-Jun-2019	UAE; 19UK001887; -; United Kingdom	**Species:** Canine **Breed:** Spaniel **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Jun-2019	18-Jun-2019	2 Week(s)	D-D	As reported by the animal owner, a male Spaniel canine (signalment otherwise unknown) was given FRONTLINE PLUS SPOT ON DOG M (batch number S60711AL expiry date FEB 2021) topically by the animal owner on 04 JUN 2019 (no further information available). The animal owner reports that today (18 JUN 2019) they have found a tick on the dog's head. The animal owner reports that they have purchased the product for years.
20-Jun-2019	UAE; 19UK001896; -; United Kingdom	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Neutered **Age:** 16.00 Year(s) **Weight:** 23.4 kg	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** gabapentin; FIROCOXIB 227 MG CHEWABLE; Metrobactin 250 mg Tablets for	N/A	02-Jun-2019	<=30 minutes	D-C	Twitching, unsteady on feet, legs splayed less than 30 minutes after frontline administration. Reaction duration unknown. Frontline Plus Spot-on Dog L best guess. Limited information as not seen the animal - Owner just mentioned on the phone. Products given concurrently: Gabapentin 300mg BID (been on since January), Previcox 227mg SID (used long term), Metrobactin 250mg 1.5 tab SID/SID (long term), Paracetamol 250mg BID (long term)

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Dogs and Cats; paracetamol (human); **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					
19-Jun-2019	UAE; 19UK001902; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** - **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Jun-2019*	15-Jun-2019*	3 Day(s)	D-D	As reported by the animal owner, Bill an intact male Domestic Shorthair feline aged 4 to 5 months and of unknown weight and in good condition, was given FRONTLINE COMBO SPOT ON CAT (batch and expiry unknown) topically to the back of the neck by the animal owner last week (estimated 12 JUN 2019) as a flea treatment. Approximately 2 to 3 days after application (estimated 15 JUN 2019), there was a patch of fur missing where the product had been applied. A few days after that (estimated 17 JUN 2019) the patch had grown to about an inch in size and the skin looked like a burn mark. Bill was irritated by it and was quiet for a couple of days.
19-Jun-2019	UAE; 19UK001904; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL SPOT ON CAT; Flea collar; Indorex house spray; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Jun-2019	19-Jun-2019	0 Day(s)	D-D	As reported by the animal owner, Meg and Mog, two neutered female domestic shorthair felines aged 15 years (signalment otherwise unknown) were given FRONTLINE PLUS SPOT ON CAT (batch number S41113AW expiry date AUG 2021) topically to the back of the neck by the animal owner as a parasiticide. The animal owner reports that they have also used FRONTLINE SPOT ON CAT (batch and expiry unknown) over the years as well as flea collars in between. The cats last had a collar on 16 weeks ago and they usually last about 12 weeks. The animal owner has never used FRONTLINE PLUS before. The animal owner applied FRONTLINE PLUS this morning (19 JUN 2019) and is still seeing big juicy fleas. They originally noticed fleas four days ago (15 JUN 2019). The animal owner is also using Indorex spray as they had a home infestation last year. The animal owner is being bitten in the house.
20-Jun-2019	UAE; 19UK001917; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	Apr-2019*	Jun-2019*	0 Day(s)	D-D	As reported by the animal owner, two felines (signalment otherwise unknown) were given FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) for the last three months (estimated starting APR 2019), no further details are available. The animal owner reports that the product is just not working alongside using a household spray (product unknown), The owner regularly vacuums too.
21-Jun-2019	UAE; 19UK001933;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT	Mar-2019*	21-Jun-2019*	N/A	D-D	As reported by the animal owner, a male feline (signalment otherwise unknown) was administered FRONTLINE (assumed

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	-; United Kingdom	(unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					FRONTLINE SPOT ON CAT, batch and expiry unknown) by the animal owner monthly from MAR 2019 for an unknown indication. The animal owner reports that they have been using FRONTLINE for most of the year on their animal, they were using another product previously. After the animal owners treated the animal on 11 JUN 2019, he had three ticks under 1 week and a half later on his head. They were on the animal for two days before the animal owner found a method of removal, which worked. The animal owner was surprised as the box of FRONTLINE that they purchased clearly says it kills ticks. The ticks were getting bigger by the day and had no intention of dying. On 25 JUN 2019 the animal owner reported that the first tick was still on 72 hours after they found it with no sign of it dropping off. The animal owner had to remove it and they suspect the other ticks were there for about the same time.
21-Jun-2019	UAE; 19UK001934; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, a male canine (signalment otherwise unknown) was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M) (batch and expiry unknown) (details unknown) by the animal owner for an unknown indication. The animal owner reports that they had a dog a few years ago that they used FRONTLINE on and he had a tick, which ended up costing a vets bill to remove. Start date estimated for submission purposes only.
22-Jun-2019	UAE; 19UK001935; -; United Kingdom	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Jun-2019	21-Jun-2019	0 Day(s)	D-D	As reported by the animal owner, a male Lurcher, Border Collie cross Greyhound dog and another lurcher dog (signalment otherwise unknown) were administered FRONTLINE PLUS SPOT ON DOG M (batch and expiry unknown), 1 pipette, route and frequency unknown, 26 hours ago (on 21 JUN 2019) by the animal owner as one of the dog's was scratching. The animal owner reported that it has had no effect. The dog's still had adult fleas, that were very much alive and visible in the coat. The product had completely failed. The owner had three dogs 2 lurchers and a Rhodesian Ridgeback (case ID: 19UK001949) and usually relied upon natural preventatives. The owner first noticed one of the dogs scratching about two weeks ago. They could not find any evidence of fleas initially but the scratching worsened so as a precaution the owner bathed the dog with a flea shampoo. Then about a week ago the owner started to get flea bites. Around the same time, the other two dogs started scratching and midweek the owner started actually seeing fleas when grooming the dogs. The owner called the vet but was unable to transport all three dogs to the surgery and the vet could not give the owner Advocate without a consultation and prescription so the owner's husband went to the pet store. A member of staff there sold her husband 3 doses of FRONTLINE PLUS, 2 pipettes of medium dog dose and one of large to correspond with the weights of the dogs. The doses were supposed to kill the fleas within 24 hours but they did not the dogs still had fleas. They also sold the owners husband a large aerosol can of FRONTLINE HOMEGARD. We have hoovered, washed and laundered the dogs bedding, our beds, floors, carpets, soft furnishings and surfaces, turned the home upside down and sprayed every room, liberally with the FRONTLINE HOMEGARD, but the owner and dog's were still being bitten. The products, used

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											exactly according to the instructions had zero effect. The owner had never used FRONTLINE products on our dogs before
22-Jun-2019	UAE; 19UK001937; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 4.5 - 5 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	Mar-2019*	08-Jun-2019	2 Week(s)	D-D	As reported by the animal owner, two Domestic Shorthair felines aged 8 years, Bowie a male weighing 5 kg and Layla a female weighing 4.5 kg (signalment otherwise unknown) were administered FRONTLINE PLUS SPOT ON CATS (batch S41306AW, expiry OCT 2021) topically to the base of the neck by the animal owner, at an unknown dose 2 weeks ago (08 JUN 2019) after they noticed that they had a few fleas. Prior to the treatment on 08 JUN 2019, the pets received previous treatments a few months ago (estimated MAR 2019). The animal owner reports that they now both have a lot more fleas than they did, which are definitely biting them as they are finding a lot of flea waste around the house as well as fleas on the cats. The animal owner reports that the not only has the product not worked to eliminate the fleas but has also not prevented it from getting worse. The animal owner reports that they treat the pets when they see fleas and then monthly or as instructed by the product details, they use the product all year round and as and when required. People in the home are not being bitten by fleas, the cats spend time indoors and outdoors, all animals that live in the home and in contact animals have been treated, the animal owner is seeing many fleas at a time, but they were only seeing occasional fleas when they treated the cats. They only started seeing many fleas two weeks later (assumed 22 JUN 2019). The animal owner combs the cats regularly and when they used the treatment on 08 JUN 2019 they were finding maybe 2 or 3 fleas on them, today (25 JUN 2019) they got 20 off the male cat and 10 off the female cat. The cats never get bathed or go swimming, the animal owner has not lived in the house for less than a year and all areas of the home are regularly vacuumed. The cats do not have pet bedding but the animal owner keeps their soft furnishings clean. The animal owner did not treat the home with a flea product because FRONTLINE PLUS states it prevents contamination of the
23-Jun-2019	UAE; 19UK001938; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, a male canine (signalment otherwise unknown) was administered FRONTLINE SPOT ON DOG (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown, details unknown) every 4 weeks for an unknown indication. The animal owner reports that they use FRONTLINE SPOT ON but their dog is still getting ticks. Start date added for submission purposes only.
22-Jun-2019	UAE; 19UK001949; -; United Kingdom	**Species:** Canine **Breed:** Rhodesian Ridgeback **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT	21-Jun-2019	22-Jun-2019	1 Day(s)	D-D	As reported by the animal owner, a male Lurcher, Border Collie cross Greyhound dog and another lurcher dog (signalment otherwise unknown) were administered FRONTLINE PLUS SPOT ON DOG M (batch and expiry unknown), 1 pipette, applied topically, frequency unknown, 26 hours ago (on 21 JUN 2019) by the animal owner as one of the dog's was scratching. The animal owner reported that it has had no effect. The dog's still had adult fleas, that were very much alive and visible in the coat. The product had completely failed. The owner had three dogs 2 lurchers (Case ID: 19UK001935) and a Rhodesian Ridgeback and usually relied upon natural preventatives. The owner first noticed

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						FLEA SPRAY; Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					one of the dogs scratching about two weeks ago. They could not find any evidence of fleas initially but the scratching worsened so as a precaution the owner bathed the dog with a flea shampoo. Then about a week ago the owner started to get flea bites. Around the same time, the other two dogs started scratching and midweek the owner started actually seeing fleas when grooming the dogs. The owner called the vet but was unable to transport all three dogs to the surgery and the vet could not give the owner Advocate without a consultation and prescription so the owner's husband went to the pet store. A member of staff there sold her husband 3 doses of FRONTLINE PLUS, 2 pipettes of medium dog dose and one of large to correspond with the weights of the dogs. The doses were supposed to kill the fleas within 24 hours but they did not the dogs still had fleas. They also sold the owners husband a large aerosol can of FRONTLINE HOMEGARD. We have hoovered, washed and laundered the dogs bedding, our beds, floors, carpets, soft furnishings and surfaces, turned the home upside down and sprayed every room, liberally with the FRONTLINE HOMEGARD, but the owner and dog's were still being bitten. The products, used exactly according to the instructions had zero effect . The owner had never used FRONTLINE products on our dogs
24-Jun-2019	UAE; 19UK001953; -; United Kingdom	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	03-Jun-2019*	24-Jun-2019*	3 Week(s)	D-D	As reported by the animal owner, a male Terrier dog (signalment otherwise unknown), was treated with FRONTLINE (estimated as FRONTLINE SPOT ON DOG M) batch number and expiry date unknown, route and frequency unknown, administered by the dog's owner 3 weeks ago, date of application estimated as 03 JUN 2019. The owner reported on 24 JUN 2019 that the dog was now riddled in ticks and wanted to know why it had not worked. No further information was supplied.
24-Jun-2019	UAE; 19UK001955; -; United Kingdom	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Week(s) **Weight:** 1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Jun-2019	16-Jun-2019*	0 Day(s)	D-D	As reported by the animal owner, a 9 week old male mixed breed feline weighing 1 kg (signalment otherwise unknown) was administered FRONTLINE PLUS SPOT ON CAT, batch number P40802 expiry date JUL 2019) on 16 JUN 2019 topically to the back of the neck, by the animal owner at an unknown dose, as a parasiticide. The animal owner reports that they are disappointed that over one week later they are still finding live fleas on the animal. The animal owner reports that the product cost a lot of money and appears to have done nothing. On 25 JUN 2019 the animal owner reported that they usually use the product once a month, they use the product all year round, they first noticed fleas on the kitten on 16 JUN 2019 and then used the product. The animal owner states that the kitten had fleas when they got him but they have treated him and he still has fleas one week later (assumed 23 JUN 2019). People in the home are not being bitten by fleas, the cat is indoors only, all animals in the home have been treated with a flea product, the animal owner is seeing occasional fleas, the kitten does not go swimming or get bathed, the animal owner has not lived in the home for less than one year, the home has been treated with an environmental flea spray and all areas the pets can access are regularly vacuumed. The animal owner reports that the kitten has been confined in a room with a solid floor and no soft furnishings other than a cushion he sleeps on

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											which has been sprayed with Staykill. The kitten has been in contact with no other animals and he can't come into the house until the fleas are gone.
25-Jun-2019	UAE; 19UK001960; -; United Kingdom	**Species:** Canine **Breed:** Collie **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 14.6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Jun-2019	21-Jun-2019	0 Day(s)	D-D	As reported by the animal owner, Pippa, a 12 year old female neutered Collie cross canine, weighing 14.6 kg and in good condition, was administered FRONTLINE PLUS SPOT ON DOG M (batch S60316AL expiry JAN 2021) topically to the back of the neck, by the animal owner at a dose of 1 pipette, on 21 JUN 2019 for an unknown indication. The animal owner has never used FRONTLINE before and the animal has never had ticks before. The animal owner noticed some ticks on the animal last Thursday and purchased FRONTLINE PLUS. They applied in on Friday and the ticks are still alive after 48 hours. The animal owner has seen about a dozen ticks and has had to remove them all with a tick hook. They were all still alive once removed and the animal owner is extremely unhappy and has no confidence in the product. They are now having to go to the vets to get a different product.
25-Jun-2019	UAE; 19UK001962; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 12.5 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Jun-2019	20-Jun-2019	1 Day(s)	D-B	As reported by the animal owner, Daro and Teide, two 7 year old male neutered Cocker Spaniel canines, weighing 12.5 kg and in good condition, were administered FRONTLINE PLUS SPOT ON DOG M (batch S60805AL expiry MAR 2021) topically to the back of the neck, by the animal owner at a dose of 1 pipette, on 19 JUN 2019 for an unknown indication. The animals were at a carer a week ago. The animal owner picked them up on 18 JUN 2019 and shampooed them that day with their normal shampoo. The animal owner applied the FRONTLINE PLUS on the Wednesday in the morning, and has never used it before. On the Thursday, both animals started sneezing and sniffing a lot. Over the weekend it developed into breathing problems - when they got over excited they found it difficult to breathe properly. The animals saw the vet yesterday who prescribed Loxicom and no investigations were done. The symptoms haven't got worse, but they haven't got better on the medication. On 01 JUL 2019 the animal owner reported that the animals were back to normal. They turned a corner on Thursday/Friday 27/28 JUN 2019, which was over a week of the animals sneezing, coughing and choking and having to calm the dogs down when they got excited as they would cause the breathing problems to become worse. The animal owner states that this was a really bad reaction.
26-Jun-2019	UAE; 19UK001967; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	12-Jun-2019	13-Jun-2019	within 1 day	D-D	5 year old 5 kg male neutered DSH cat had Frontline Plus Spot-on Cat applied on 12 June 2019. Within 24 hours had erratic hour of behaviour, no redness or soreness around treatment site but all hair around fell out. No further information.
25-Jun-2019	UAE; 19UK001971;	**Species:** Feline **Breed:** Domestic	1	1	0	**Product used:** FIPRONIL	Jan-2019*	Jun-2019*	N/A	D-D	As reported by the reporter, Panda, a 14 year 6 month old, 3kg, female neutered, feline in good condition, was administered

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	-; United Kingdom	Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.50 Year(s) **Weight:** 3 kg				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) at a dose of 1 dose monthly from JAN 2019 for fleas and a bad skin infection. The reporter helps to look after the animal that belongs to an elderly neighbour. In JAN 2019 the animal had fleas and a bad skin infection, which was initially thought to be leukaemia but turned out to be dermatitis caused by fleas. Both the reporter's house and the neighbours house were treated and FRONTLINE PLUS was applied monthly. They thought that the problem was resolved, but now nearly 5 months later the reporter noticed that the animal had infected skin again around her bottom and base of tail, where there was a wet area, and excessive grooming. They went to the vet yesterday (25 JUN 2019), the vet examined the skin and all was ok until they got to the rump area where the rash is, and much to the reporter's horror there was flea dirt. The cat was treated with a steroid injection and antibiotic injection. The reporter asks why 5 months later and despite regular FRONTLINE PLUS the animal has evidence of fleas again. Panda seems to spend a lot of time in the reporter's and other neighbours' houses. The reporter has treated the house with RIP spray, vacuumed everywhere and washed all bedding.
25-Jun-2019	UAE; 19UK001972; -; United Kingdom	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	20-May-2019	19-Jun-2019*	2 Week(s)	D-D	As reported by the animal owner, Maxie a male Terrier cross canine aged 4 months and weighing 2.5 kgs and of unknown reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG S (batch number S21906AL expiry date NOV 2021) on 20 MAY 2019 and again on 05 JUN 2019 topically to the back of the neck by the animal owner as a parasiticide. The dog also received FRONTLINE PLUS SPOT ON DOG S (batch number S62709BW expiry date SEP 2021) on 24 JUN 2019 topically to the back of the neck by the animal owner as a parasiticide. The animal owner reports that they got the dog on 06 MAY 2019 and despite using FRONTLINE and FRONTLINE PLUS as described above, the dog still has fleas. The animal owner has also treated the house with Staykil twice. The animal owner first noticed fleas on the dog on 19 JUN 2019, the dog was then combed on Monday before administration of FRONTLINE PLUS (24 JUN 2019) and removed 15 fleas from the dog in 5 minutes. The animal owner does not believe the dog is getting fleas from the environment as he still has fleas now despite it being over 24 hours since the last treatment. The animal owner intends to keep the dog in for 48 hours from 25 JUN 2019 to see if the fleas die. The animal owner also has two cats, Kizzy a female aged 9 years and weighing 3 kgs, and Rascal a male aged 9 years and weighing 3 kgs, condition and reproductive status unknown for both cats. Both cats have been treated with FRONTLINE products. The animal owner treats all pets in the house every month and the product is used all year round, people in the home are not being bitten by fleas, the pets spend time both indoors and outdoors, all animals in the house have been treated with a flea product, the animal owner is seeing many fleas (more than 5) at a time, the pets never go swimming or get bathed, the animal owner has not lived in the home for less than a year, the home has been treated with an environmental flea treatment, the pet's bedding has been washed at over
26-Jun-2019	UAE; 19UK001978; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown)	3	1	0	**Product used:** FIPRONIL SPOT ON DOG	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, three canines (signalment otherwise unknown) were given FRONTLINE (assumed FRONTLINE SPOT ON DOG S, batch and expiry unknown), no further details available. The animal owner reports that after 24

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		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				**Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					hours they found a couple of mobile fleas on one of the dogs.
26-Jun-2019	UAE; 19UK001984; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.50 Year(s) **Weight:** 4.3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	26-Jun-2019	0 Day(s)	D-D	As reported by the animal owner, Mini Me, a 5.5 year old female neutered Domestic Shorthair feline, weighing 4.3 kg and in good condition, was administered FRONTLINE SPOT ON CAT (batch and expiry unknown) topically to an unknown site, by the animal owner, at an unknown dose on 26 JUN 2019 for an unknown indication. The animal owner reports that when the product is applied the animal cringes and runs off and hides. It freaks the animal out. The animal also scrunches up her eyes and seems uncomfortable. It doesn't affect her skin at all. It takes about 24 hours for the animal to recover and act normally again and seem comfortable again. The animal owner says that the fumes affect the animal's eyes and the animal hates the smell. Start date added for submission purposes only.
26-Jun-2019	UAE; 19UK001986; -; United Kingdom	**Species:** Canine **Breed:** Airedale Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	Apr-2019*	Jun-2019*	N/A	D-D	As reported by the animal owner, a female Airedale Terrier canine (signalment otherwise unknown) was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M) (batch and expiry unknown) (details unknown) by the animal owner for 2 months for an unknown indication. The animal owner reports that it does not seem to be working as the fleas are still present and in abundance. The animal is licking her fur off leaving bald patches.
26-Jun-2019	UAE; 19UK001987; -; United Kingdom	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, 4 canines, Angel a Shih Tzu canine, two further Shih Tzu canines and a Pug canine, were given FRONTLINE (assumed FRONTLINE SPOT ON DOG S, batch number S20816AL expiry date MAY 2021) on an unknown date by the animal owner (no further information available). The animal owner also has 6 felines but it is unknown whether these animals were treated. The animal owner reports that FRONTLINE doesn't work because they keep seeing one flea a day on Angel. The animal owner usually uses apple cider vinegar on the animals. No one in the home is being bitten and there is definitely no infestation present. The animal owner spreads salt and cider vinegar over the floor once a week. They wash the yard with Jeyes fluid every single day. The animal owner is only every seeing one flea and the dogs only go out on concrete for 30 minutes a day.
27-Jun-2019	UAE; 19UK001995; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** -	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical /	N/A	15-Jun-2019	4 Day(s)	D-D	As reported by the animal owner, a male feline (signalment otherwise unknown) was administered FRONTLINE SPOT ON CAT (batch S20306AW and expiry FEB 2021) topically to the back of the neck by the animal owner on 11 JUN 2019 for an unknown indication. The animal owner reports that by 15 JUN 2019 it was causing the animal discomfort. The animal has lost fur where they put the spot on the back of the neck. The fur was falling out behind

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		Weight: Unknown				Cutaneous **Was the product used ok?:** Unknown to Company					his neck by the Monday. The animal is now scratching the area as much as he can reach and making it bleed. The animal owner states an allergic reaction. The animal owner is really not happy as now they need to make a vet appointment to treat what the product has caused. The animal owner states that they shouldn't be making their animal more uncomfortable by using the product. The animal owner enquired at their vets and the vet did not recommend FRONTLINE and said that it was total rubbish and doesn't even work. Start date added for submission purposes only
27-Jun-2019	UAE; 19UK001998; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, a female feline (signalment otherwise unknown) was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown, further details unknown) for an unknown indication. The animal owner reports that they purchased the product to treat their cat with. They noticed that she kept scratching herself on a regular basis and so thought that maybe she was moulting. So the started to brush her out and she is losing fur. The animal also has fleas and mess on her. The animal owner asked why the product is not working as it says that it does and states that the animal is being treated as per directions. Start date added for submission purposes only.
28-Jun-2019	UAE; 19UK002004; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** Bob Martin; FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jun-2019*	N/A	D-D	As reported by the animal owner, a canine (signalment otherwise unknown) was given FRONTLINE (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown) 2 weeks ago (14 JUN 2019) by the animal owner for parasite control. The animal owner also has two cats (see linked case 19UK002005). All of the pets are usually treated with Bob Martin. The animal owner reports that they are being bitten and they have 5 bites on their foot. There was a 5 to 6 week gap between the last flea treatments, and whilst the animal owner was away during this time, the dog was taken to someone else's house, where the animal owner thinks the dog may have picked up fleas. The animal owner has treated the whole house with FRONTLINE PETCARE HOUSEHOLD HOMEGARD FLEA SPRAY (batch and expiry unknown, they have washed literally everything and has sprayed everything.
28-Jun-2019	UAE; 19UK002005; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Bob Martin; FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown	14-Jun-2019	Jun-2019*	N/A	D-D	As reported by the animal owner, two felines (signalment otherwise unknown) were given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) 2 weeks ago (14 JUN 2019) by the animal owner for parasite control. The animal owner also has a dog (see linked case 19UK002004). All of the pets are usually treated with Bob Martin. The animal owner reports that they are being bitten and they have 5 bites on their foot. There was a 5 to 6 week gap between the last flea treatments, and whilst the animal owner was away during this time, the dog was taken to someone else's house, where the animal owner thinks the dog may have picked up fleas. The animal owner has treated the whole house with FRONTLINE PETCARE HOUSEHOLD HOMEGARD FLEA SPRAY (batch and expiry unknown, they have washed literally everything and have sprayed everything.

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						to Company					
29-Jun-2019	UAE; 19UK002013; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	08-Jun-2019*	29-Jun-2019	3 Week(s)	D-D	As reported by the animal owner, a female canine and approximately one other canine (signalment otherwise unknown) were administered FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown, details unknown) three weeks ago for parasite control. The animal owner states that they noticed one of the dogs had a tick embedded in her head today. The animal owner states that if it is not working then there is no point them buying more.
29-Jun-2019	UAE; 19UK002014; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** 8.00 Week(s) **Weight:** 0.85 - 6.6 kg	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; other brand of flea product; **Route:** unknown **Was the product used ok?:** Unknown to Company	27-Jun-2019	27-Jun-2019	0 Day(s)	D-D	As reported by the animal owner, six felines, Charlie a male aged 9 years and weighing 6.6 kg, Freddie a male aged 7 years and weighing approximately 5 kg, Areya a female aged 4 years and weighing approximately 3 to 4 kg, Mikey a male aged 2 years and weighing approximately 2 to 3 kg, were administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown, details unknown) by the animal owner 48 hours ago for an unknown indication. Sebastian a male and Poppie a female, both approximately 8 weeks old and approximately 0.85 kg were adminstered a different flea product. The animal owner reports that although there seems to be a big reduction in flea activity, when they check their pets they still have very large fleas running around their fur, which they are surprised by. The animal owner has also treated the entire house twice with FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY (batch and expiry unknown) and is at a loss as to why they still have fleas. The animal owner reports that they don't flea their cats as they are indoor cats, however Freddie is an escape artist and whenever he goes walkies the animal owner treats them all, and the current problem seems to have started since the last time Freddie got out. The animal owner does not use the product all year round, their current flea problem start 3 or 4 weeks ago and this is when they started using the product. They first noticed fleas a few days prior to treating the cats, and at that point people in the home were being bitten on the ankles and they could see fleas jumping in the lounge and the bedroom. The animal owner states that they followed the directions for use of the product, however as they have so many cats they can't split them apart. All animals in the house have been treated, many fleas are being seen on the pets at one time, the pets do not go swimming or get bathed, the home has been treated, the pets' bedding has been thrown away and all areas that the pets can access are hoovered every day. The
29-Jun-2019	UAE; 19UK002018; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 1.3 - 1.5 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** Topical /	18-Apr-2019	18-Apr-2019	N/A	D-D	As reported by the animal owner, Spirit and Sparkle, 2 female kittens aged 5 months and weighing 1.3 kg and 1.5 kg respectively (signalments otherwise unknown), were treated with FRONTLINE SPOT ON CAT (batch number S21204AW and expiry date AUG 2021) from 18 APR 2019, administered monthly (other dates of administration were 23 MAY 2019 and 27 JUN 2019) administered by the cat's owner, following the instructions carefully and properly, applying the product to the base of the neck, just above the shoulder blades at the base of the head. The kittens are reported to have had fleas when they were purchased and the owner reported that the cats still have fleas. Over the last month the owner had also bought FRONTLINE HOMEGARD HOUSE

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						Cutaneous **Was the product used ok?:** Yes					SPRAY (three cans, batch number of one can 8373-500 A expiry date SEP 2020, batch number and expiry of other two cans unknown) and had treated the whole house every week, but still they were finding fleas on the cats. The treatments were not working. The animal owner reports that no one in the home is being bitten, the pets spend time indoors only, all animals in the house have been treated with a flea product, the animal owner is seeing 6 to 10 fleas at a time on the cats only, the pets never get bathed or go swimming, the animal owner has not lived in the home for less than a year, the home has been treated with an environmental flea spray, the pets' bedding has been washed at over 60 degrees celsius and all areas the pets can access are regularly vacuumed. The animal owner further states that the cats still have fleas after three months of treatment. The animal owner states that they do not have a flea infestation. They have treated the whole house with FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY 3 times in the last 6 weeks. They have been hoovering every day since they first noticed the fleas. Their dog is completely clear of fleas, but their two 5 month old kittens still have fleas even though the animal owner treated them both three
24-Jun-2019	UAE; 19UK002069; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	Jul-2019*	N/A	D-D	As reported by the animal owner an unknown number (estimated to be 2) of dogs of unknown signalment and condition were treated with FRONTLINE PLUS (assumed FRONTLINE PLUS DOGS M) batch number S60615AR (expiry unknown, product unsubstantiated) on an unknown date. The animal owner reported they have purchased a box of 6 pipettes of FRONTLINE PLUS for their dogs and so far have used 2 on each of them and they still have fleas. They have also treated the house and their bedding (product unknown). The out come is unknown. Start date added for submission purposes only.
25-Apr-2019	UAE; 19US002577; FL; U.S.A	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Jan-2019	16-Mar-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 4 Mar 2019 the pet owner reported the following event for 4 felines, signalment unknown. Unknown date: An untreated kitten was brought into the home that had fleas. 4 Jan 2019: It was observed that fleas were on the pets in the home and cats were treated with FRONTLINE PLUS CATS (lot unknown) (FL) topically between the shoulder blades. It is unclear how long fleas were present prior to the use of FL. 17 Jan 2019: The veterinarian was contacted and the owner was instructed to provide an additional dose to the cats. 15 Feb 2019: Cats received a third dose of FL. 4 Mar 2019: Pet owner stated that he is still having issues and finding fleas on 2 of the cats. The cats are indoor only. No further medical information expected. Update 13 Mar 2019: Case changed to inquiry due to treatment program not respected. UPDATE 25 Apr 2019: The owner reported the following information. 31 Dec 2018: two 6 packs were purchased. 15 Mar 2019: Another dose was applied to all of the cats 16 Apr 2019: The owner continued seeing a few fleas on all 4 of the cats. No further medical information expected.

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03-Jun-2019	UAE; 19US004536; PA; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 11 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Jan-2019	03-Jun-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Jun 2018, the owner reported the following event for 2, 11 pound*, Domestic Mediumhair felines (all other signalments unknown). 25 Jan 2018: The owner noticed a small number of fleas on the cats. One vial of FRONTLINE PLUS CATS (P40203BW) was applied between the shoulder blades for the very first time. 28 Jan 2018: The owner continued to note fleas on the pets. The cats also experienced itching. The owner treated the home. 25 Feb 2019, 25 Mar 2019, 25 Apr 2019, 25 May 2019: Another vial was applied and the flea issue persisted. The owner gradually noticed an increase in the number of fleas on the cats. No fleas have been noted in the household. 3 Jun 2019: The flea issue and itching are still ongoing. The cats are stictly indoor. No further medical information is expected
10-Apr-2019	UAE; 19US006298; TX; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 45 - 88 lbs	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Dec-2018*	26-Jan-2019*	N/A	D-D	Frontline - Internet:(Amazon-third party) owner seeing fleas - x4 dogs and x1 cat, one cat ,mostly indoor pets, fleas seen on the inside of the home, owner has been buying individsuals, owner noticed differnece when he ordered from a new. One pet is older and has dry skin.Owner was bathing the pets in Dawn. UPDATE: 10 APR 2019: Suspected Lack of Efficacy Claim: On 10 Apr 2019 the pet owner reported the following event for 4 unknown canines weighing between 45-88 pounds and 2-11 years old. All other signalments are unknown *1 Oct 2018: The owner began noticing fleas on the dogs. *25 Dec 2018: The owner purchased 4 single dose vials from Amazon of FRONTLINE PLUS DOG 43-88 LBS (S61314AR). The owner applied 1 vial to each of the dogs. No fleas were seen after application. *25 Jan 2019: The owner purchased a 6 pack from Amazon and applied it to the dogs. *26 Jan 2019-*25 Feb 2019: The owner still noticed large amounts of fleas. *25 Feb 2019: The owner purchased another 6 pack from Amazon and applied it to the dogs. *26 Feb 2019-25 Mar 2019: the owner continues to notice large amounts of fleas. 25 Mar 2019: The owner purchased another 6 pack from Petsmart and applied it to the dogs. 26 Mar 2019: The owner still sees large amounts of fleas each day. There is 1 indoor only cat in the home with case number 19US018616. The owner is still noticing indoor flea activity. The dogs have access to a fenced in yard when outside. No further medical information expected.
24-Apr-2019	UAE; 19US006382; MI; U.S.A	**Species:** Feline **Breed:** Russian Blue **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	24-Dec-2018	07-Feb-2019	N/A	D-D	UPDATE 24 2019: Suspected Lack of Efficacy Claim: On 24 Apr 2019 the pet owner reported the following event after receipt of new information for Kitters a 5year old 14 pound, female spayed Russian Blue. 24 Oct 2018: The owner noticed the cat began scratching and pulling fur out due to fleas being on the cat. 24 Dec 2018: the owner applied 1 vial of FRONTLINE PLUS CATS (S40101BW) to the skin between the shoulder blades for the first time and continued on a monthly basis thereafter. 24 Jan 2019: The owner applied another dose. 7 Feb 2019: The owner began noticing a small amount of fleas on the cat. 24 Mar 2019: The most recent dose was applied.

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						ok?: Yes					24 Mar 2019: The owner was still noticing fleas on the cat. 23 Apr 2019: The owner noticed the cat scratched scabs and was bleeding at the application site, owner did not repeat the dose due to open wounds. There are no other pets in the home. The cat is an indoor mainly cat and does go outside on occasion. The owner is not noticing any flea activity inside the home. No further medical information expected.
16-May-2019	UAE; 19US014473; TX; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Mar-2019	11-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 22 Mar 2019, the owner reported the following event for Campbell, 1 year old, 60 pound, intact male, German Shepherd canine. 10 Mar 2019: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (R61513AR) was applied between the shoulder blades. The dog has access to an open yard. 11 Mar 2019: The flea issue persisted. The owner found fleas in the household. 22 Mar 2019: The owner is still finding fleas on the pet daily. There is one other dog in the household also receiving FRONTLINE and experiencing an issue with fleas (see case 19US014475). No further medical information is expected. UPDATE 04 Apr 2019: Case changed to an inquiry due to preexisting fleas and only one dose administered. UPDATE 15 May 2019: Per the owner, FRONTLINE was applied on 10 Apr 2019 and 10 May 2019 and she is still seeing fleas. No further medical information expected.
16-May-2019	UAE; 19US014475; TX; U.S.A	**Species:** Canine **Breed:** Pointer (German Short-Haired) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Mar-2019	11-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 22 Mar 2019, the owner reported the following event for Scout, 4 year old, 70 pound, neutered male, German Shorthair Pointer canine. 10 Mar 2019: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (R61513AR) was applied between the shoulder blades. The dog has access to an open yard. 11 Mar 2019: The flea issue persisted. The owner found fleas in the household. 22 Mar 2019: The owner is still finding fleas on the pet daily. There is one other dog in the household also receiving FRONTLINE and experiencing an issue with fleas (see case 19US014473). No further medical information is expected. UPDATE 04 Apr 2019: Case changed to an inquiry due to preexisting fleas and only one dose administered. UPDATE 15 May 2019: Per the owner, FRONTLINE was applied on 10 Apr 2019 and 10 May 2019 and she is still seeing fleas. No further medical information expected.
01-Apr-2019	UAE; 19US015984; NC; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	28-Mar-2019*	01-Apr-2019*	4 Day(s)	D-D	Suspected Adverse Event: On 1 Apr 2019, the pet owner reported the following event for a feline, all signalments unknown. 28 Mar 2019*: 1 vial of FRONTLINE PLUS FOR CATS was applied to the cat between the shoulder blades. 1 Apr 2019*: The cat has hair loss at the application site. No further information available.

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						ok?: Unknown to Company					
01-Apr-2019	UAE; 19US016054; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	27-Mar-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 Apr 2019, the pet owner reported the following event for an unknown canine. Unknown date: Dog received treatment with FRONTLINE PLUS DOG 5-22 LBS (lot unknown) (FL), product unsubstantiated. The pet owner stated that the dog was scratching prior to application and continued to scratch after application and found fleas. The pet owner stated that she is finding sand fleas on her dog. The dog is treated every other month, but the application dates were not clarified. The home is vacuumed daily. The pet owner also stated that there is another pet in the home, a cat, that is not treated, and feral cats that occupy the front yard. When the dog goes out, it only goes into the back yard. No further medical information expected.
01-Apr-2019	UAE; 19US016110; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Mar-2019*	29-Mar-2019	1 Day(s)	D-D	Suspected Adverse Event: On 1 Apr 2019, the pet owner reported the following event for Rooster, a 3 year old, 11 lb, neutered male Domestic Shorthair. 28 Mar 2019: Owner applied 1 dose of FRONTLINE PLUS CATS (lot unknown) (FL) topically between the shoulder blades. 29 Mar 2019: The cat began scratching at the site of application. The scratching continued and the fur at the site began to fall out as well. The veterinary clinic was contacted and the cat was given Benadryl, hydrocortisone and Neosporin to treat the site. The cat is in good health outside of the symptoms noted. The symptoms are ongoing at this time. No further medical information expected.
01-Apr-2019	UAE; 19US016172; CA; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Dec-2018*	31-Jan-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 Apr 2019, the pet owner reported the following event for a 17 pound, male neutered, Terrier (Jack Russell) all other signalments unknown. Nov 2018: Fleas were present on the dog. 31 Dec 2018*: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60808AL) was applied to the dog between the shoulder blades in one area for the very first time. 31 Jan 2019*: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60808AL) was applied to the dog between the shoulder blades in one area. 1-2 fleas were seen on the dog. 28 Feb 2019*: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60808AL) was applied to the dog between the shoulder blades in one area. 1-2 fleas were seen on the dog. 31 Mar 2019: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60808AL) was applied to the dog between the shoulder blades in one area. 1-2 fleas were seen on the dog. 1 Apr 2019: 1 flea was seen on the dog. The dog goes out for potty breaks and recreation in the back yard, urban wildlife present. Owner treats seasonally using different products. The dog does not have a history of skin issues. No further information available.
01-Apr-2019	UAE; 19US016292; IL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:**	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Feb-2016*	02-Feb-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 Apr 2019, the owner reported the following event for 4 canines that were all between 6-12 pounds (all other signalments unknown). 1 Feb 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades.

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		Unknown **Age:** - **Weight:** 6 - 12 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					2 Feb 2018: A large number of fleas were still found on the pets. The dogs have access to an open yard. 1 Apr 2019: The owner continued to dose the pets monthly and fleas were noted daily up to the time of the report. No fleas were noted in the household. The dogs have received the product monthly since 1 Feb 2016*. There are 7 other dogs in the household being treated with the product and also having an issue with fleas (see case 19US016293, 19US016417, 19US016418). There are also 5 cats in the household being treated and having an issue (see case 19US016419). No further medical information is expected.
01-Apr-2019	UAE; 19US016293; IL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Feb-2016*	01-Feb-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 Apr 2019, the owner reported the following event for 4 canines (all other signalments unknown). 1 Feb 2018: Fleas were noted on the pets. One vial of FRONTLINE PLUS DOG 23-44 LBS (M6702AL) was applied between the shoulder blades. 2 Feb 2018: A large number of fleas were still found on the pets. 1 Apr 2019: The owner has continued to find fleas daily up to the time of the report. No fleas were noted in the household. The dogs have reeived the product monthly since 1 Feb 2016*. There are 7 other dogs in the household being treated with the product and also having an issue with fleas (see case 19US016292, 19US016418, 19US016417). There are also 5 cats in the household being treated and having an issue (see case 19US016419). No further medical information is expected.
01-Apr-2019	UAE; 19US016325; TX; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** - **Age:** 8.00 Month(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Mar-2019*	25-Mar-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 1 April 2019, the owner reported the following event for Bubba, an 8 month old, 6 pound, intact male Domestic Mediumhair. *18 March 2019: One vial of FRONTLINE PLUS CATS (S40901AW) was topically applied to the cat's skin between the shoulder blades for the first time. *25 March 2019: The owner screen in her porch and let the cat out on the porch. The owner start to notice the cat scratching and seen fleas. The owner isn't seeing fleas in the home, but noticed two fleas jumped on her (reporter cannot remember if the cat was or wasn't around). No further information available.
01-Apr-2019	UAE; 19US016417; IL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2016	02-Feb-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 Apr 2019, the owner reported the following event for 2 canines (all other signalments unknown). 1 Feb 2018: Fleas were noted on the pets. One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. 2 Feb 2018: A large number of fleas were still found on the pets. 1 Apr 2019: The owner continued to dose the pets monthly and fleas were noted daily up to the time of the report. No fleas were noted in the household. The dogs have received the product monthly since 1 Feb 2016*. There are 7 other dogs in the household being treated with the product and also having an issue with fleas (see case 19US016293, 19US016292, 19US0). There are also 5 cats in the household being treated and having an issue (see case 19US0). No further medical information is expected.

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01-Apr-2019	UAE; 19US016418; IL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Feb-2016*	02-Feb-2018	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 Apr 2019, the owner reported the following event for 1 canine (all other signalments unknown). 1 Feb 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was applied between the shoulder blades. 2 Feb 2018: A large number of fleas were still found on the pets. 1 Apr 2019: The owner continued to dose the pets monthly and fleas were noted daily up to the time of the report. No fleas were noted in the household. The dogs have received the product monthly since 1 Feb 2016*. There are 7 other dogs in the household being treated with the product and also having an issue with fleas (see case 19US016293, 19US016417, 19US016292). There are also 5 cats in the household being treated and having an issue (see case 19US016419). No further medical information is expected.
01-Apr-2019	UAE; 19US016419; IL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	5	5	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2016*	02-Feb-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 Apr 2019, the owner reported the following event for 5 felines (all other signalments unknown). 1 Feb 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was applied between the shoulder blades. 2 Feb 2018: A large number of fleas were still found on the pets. The cats are indoor/outdoor. 1 Apr 2019: The owner continued to dose the pets monthly and fleas were noted daily up to the time of the report. No fleas were noted in the household. The cats have received the product monthly since 1 Feb 2016*. There are 7 other dogs in the household being treated with the product and also having an issue with fleas (see case 19US016293, 19US016417, 19US016418, 19US016292). No further medical information is expected.
02-Apr-2019	UAE; 19US016564; FL; U.S.A	**Species:** Canine **Breed:** Havanese **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 12 - 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2016*	11-Mar-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 2 Apr 2019, the owner reported the following event for a 12-13 pound, 3 year old, female, and Havanese and Poodle Mix, other signalment unknown. 4 Mar 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (S60401AX) was applied topically in between the pets' shoulder blades by the owner. Mar 2019: Later that month, the owner noticed flea dirt and 2 fleas on the pet while combing and took the pet to the groomer and vet clinic. The pet was bathed in Dawn soap, given a Capstar, and Bravecto. 2 Apr 2019: The pet is an only pet within the home and is mostly indoor. The owner treats the yard and the home, and no fleas have been seen within the home. No wildlife seen in the area. The pet has been on FRONTLINE PLUS since Jan 2016*. No fleas have been seen on the pet since new treatment began. No further medical information expected.
02-Apr-2019	UAE; 19US016582; MN; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 55 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Apr-2019	01-Apr-2019	0 Day(s)	D-C	Suspected Adverse Event: On 2 Apr 2019, the owner reported the following event for Buster, 1 year old, 55 pound, neutered male, Golden Retriever Poodle mix canine. 1 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (S61313AR) was applied between the shoulder blades. After 1 hour the dog experienced vomiting. 2 Apr 2019: The dog experienced bloody diarrhea. The owner presented the dog to the clinic. The attending veterinarian treated with Cerenia and Benadryl injection. The symptoms have improved but are still ongoing.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					There is one other dog in the household that also received the product and is asymptomatic. No further medical information is expected.
02-Apr-2019	UAE; 19US016584; SC; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 11 lbs	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea medication; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Mar-2018*	26-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 April 2019, the owner reported the following event for three 11 pound dogs (signalment unknown). 26 March 2019: The dogs have been battling fleas since Feb 2018, the owner tried two other flea medications since the time of the issue with no success, and applied one vial of FRONTLINE PLUS DOG 5-22 LBS (S61017AL) topically to the skin between the shoulder blades to each dog. 27 March 2019: The dog continued to have a large quantity of fleas and scratch. The dogs do have doggy door to access a grass backyard for potty breaks and leisure time. There are no fleas in the home. The dog have been on FL for the past year seasonally as needed with no issues. No further information available.
02-Apr-2019	UAE; 19US016618; IA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	27-Mar-2019	02-Apr-2019	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 Apr 2019, the pet owner reported the following event for a cat of unknown signalment. 27 Mar 2019: The first treatment was applied; with the cat receiving, the contents of 1 vial of FRONTLINE PLUS CAT (Unknown) topically between the shoulder blades, with an unknown quantity of doses purchased at an unknown date. 2 Apr 2019: The owner saw an unknown amount of fleas on the cat. It is unknown if the cat is indoors only. It is unknown if the cat is bathed or has a history of skin problems. The cat's health at the time of the application is unknown and it is unknown receiving other medications. It is unknown if the cat has been on any other flea preventatives. It is unknown if the owner is seeing fleas in the home or has treated the yard or the home. The owner did contact the Veterinarian. No further medical information expected.
02-Apr-2019	UAE; 19US016720; MI; U.S.A	**Species:** Canine **Breed:** Basenji **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 19 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2016	02-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 April 2019, the owner reported the following event for Gigit, a 3 year old, 19 pound, spayed female Basenji mix breed dog. 1 April 2019: One vial of FRONTLINE PLUS DOG (FL) (lot unknown) was topically applied to the dog's skin between the shoulder blades. 2 April 2019: The dog was taken to the vet and diagnosed with Lyme disease. The dog has been on FL all her life and is treated the 1st of each month year round. The dog is exposed to woods for hikes, the beach, and a grass backyard. The owner only noticed one tick on the dog over a year ago. No treatment has been given at this time, but is anticipated. No further information available.
03-Apr-2019	UAE; 19US016746; CA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dawn; Unknown flea collar;	03-Feb-2015*	03-Feb-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Apr 2019, the pet owner reported the following event for Elvis, a 10 year old, 22 lb neutered male Maltese/Poodle mix. 3 Feb 2015*: Dog began receiving doses of FRONTLINE PLUS DOG 5-22 LBS (lot unknown). 3 Dec 2018*: Dog received 1 dose of FRONTLINE PLUS DOG 5-22 LBS (S61017AL) (FL) topically between the shoulder blades. 3 Feb 2019*: Dog received most recent dose of FL. Fleas were seen at the time of application. The pet has been receiving

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					applications approximately every 2 months. Pet owner did not clarify when fleas were first seen on the pet. The dog goes out into the yard. Urban wildlife and other neighboring animals are in close proximity. The pet owner has also used a flea collar and has been bathing the dog once a week in Dawn. No further medical information expected.
03-Apr-2019	UAE; 19US016787; KS; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 8.9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2018	25-Mar-2019*	16 Day(s)	D-D	Suspected Adverse Event: On 3 Apr 2019, the clinic staff reported the following event for Murphy, an 8.9 pound, 2 year old (Born 26 Jul 2016), spayed female Domestic Shorthair. 1 Sep 2018: The cat began receiving monthly dose of FRONTLINE PLUS CAT (M41207) between the shoulder blades. 25 Mar 2019*: The owner noticed that Murphy experienced alopecia and a little scab in the area of application. The cat was presented to the clinic and is in clinic with an ongoing reaction. No further medical information expected.
03-Apr-2019	UAE; 19US016827; CA; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2018*	02-Apr-2019	2 Day(s)	D-D	Suspected Adverse Event: On 3 Apr 2019, the pet owner reported the following event for Molly a female spayed, 11 year old, 70 pound, Large crossbred. 31 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades on year round basis every month to Molly. 31 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S61202AX) topically between the shoulder blades of Molly. 2 Apr 2019: Molly experienced symptoms of diarrhea after application. 3 Apr 2019: At the time of the report, Molly is good health. Molly is currently at home with ongoing issue. Molly has no history of vaccine or drug reactions. Molly does take TruProfen for inflammation. Molly also takes unknown probiotics daily. Molly has not been presented to veterinarian. Molly does share FRONTLINE PLUS DOG 45-88 LBS with one other dog in the home with case number 19US016831. No further medical information.
03-Apr-2019	UAE; 19US016831; CA; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Probiotics; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019	01-Apr-2019	2 Day(s)	D-D	Suspected Adverse Event: On 3 Apr 2019, the pet owner reported the following event for Max a male neutered, 6 year old, 70 pound, Large crossbred (Labrador mixed breed). 1 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S61202AX) topically between the shoulder blades of Max. Max experienced symptoms of diarrhea after application. 3 Apr 2019: At the time of the report, Max is good health. Max is currently at home with ongoing issue. Max has no history of vaccine or drug reactions Max also takes unknown probiotics daily. Max has not been presented to veterinarian. Max does share FRONTLINE PLUS DOG 45-88 LBS with one other dog in the home with case number 19US016827. No further medical information.
03-Apr-2019	UAE; 19US016851; FL; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	20-Mar-2017*	03-Apr-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Apr 2019, the pet owner reported the following event for Dawn, a 2 year old*, 90 pound*, neutered male Labrador Retriever dog. 20 Mar 2017*: The first treatment was applied, with the dog

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		Sex qualifier: Neutered **Age:** 2.00 Year(s) **Weight:** 90 lbs				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					receiving the contents of 1 vial of FRONTLINE PLUS DOG 89-132 LBS (Unknown) topically between the shoulder blades. 27 Mar 2019: The dog received the contents of 1 vial of FRONTLINE PLUS DOG 89-132 LBS (Unknown) topically between the shoulder blades, with 6 doses purchased on an unknown date. 3 Apr 2019: The owner continues to see a moderate amount of fleas on the dog daily. The dog is indoors and goes outside for potty breaks in the back yard where owner says there is no wildlife access. The dog was bathed by a three weeks prior to the 20 Mar 2019 dose and does not have a history of skin problems. The dog was in good health at the time of the application and is not receiving other medications. The dog has not been on any other flea preventatives. The owner is not seeing fleas in the home, but treated the yard with a flea spray and washes the cover of the dog bed on a daily basis. The owner did not contact the Veterinarian. No further medical information expected.
03-Apr-2019	UAE; 19US016882; MA; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 24 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Oatmeal Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Mar-2016*	03-Apr-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Apr 2019, the pet owner reported the following event for Puggy, 13 year old, 24 pound, male neutered, Pug. 20 Feb 2019: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (R61020AL) was applied to the dog between the shoulder blades in one area. 20 Mar 2019: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (R61020AL) was applied to the dog between the shoulder blades in one area. 24 Mar 2019: The dog was bathed in an unknown oatmeal pet shampoo. 3 Apr 2019: The owner found 1 live engorged tick on the pets chest. The tick was removed. The dog recovered. The owner treats seasonally with FRONTLINE since 2016*. The dog goes out for potty breaks and recreation in yard that is close to the woods not fenced in. The dog likes to walk around the wooded areas. The owner has seen live ticks on the dog in the past crawling around, owner is unsure when exactly she has seen ticks in the past. The dog does not have a history of skin issues. No further information is available.
03-Apr-2019	UAE; 19US016908; FL; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 14.9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Mar-2019*	01-Mar-2019*	0 Day(s)	D-B	Suspected Adverse Event: On 3 Apr 2019, the clinic staff reported the following event for Princess Sophia, a 13 year old (25 May 2005), 14.9 pound, spayed female, Bichon Frise. 1 Mar 2019*: She received FRONTLINE PLUS DOG (0-22 LBS) (lot unknown). Right after application patient would stare off and be almost unreponsive. No treatment was given and the owner did not go to the clinic. Current status is unknown. It is unknown if this is first reaction to FRONTLINE PLUS, but the clniic has no history of it or history of prior use of FRONTLINE PLUS. No further medical information expected. UPDATE 05 Apr 2019: Per conversation with clinic, the symptoms vary and are chronic. Seems to be ongoing and when pet lays down she will start twitching, but then it stops. It is unknown how long the pet twitches or how long it takes to recover. Per clinic pet seems healthy and all symptoms resolve and come back intermittently. Clinic does not feel this behavior is directly related to the application of the FRONTLINE PLUS. No further medical information expected.

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03-Apr-2019	UAE; 19US016936; UT; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** - **Age:** - **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown lyme vaccine; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-Mar-2019	30-Mar-2019	0 Day(s)	D-C	Suspected Adverse Event: On 3 Apr 2019, the veterinarian reported the following event for a canine, 20 pound, female intact, Retriever (Golden) Poodle mix. All other signalments unknown. 30 Mar 2019: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog in an unknown area for the time. The lot is unknown because the reporter was not queried. 3 Apr 2019: The Veterinarian reported that the dog has been ataxic since FRONTLINE was applied, and wanted to speak with a staff Veterinarian. It is unknown if the dog was seen by the Veterinarian and if any diagnostics, or treatments were provided. No further medical information expected. UPDATE 3 Apr 2019: Per veterinarian, the pet also received an unknown lyme vaccine on 30 Mar 2019. No further medical information expected.
03-Apr-2019	UAE; 19US016940; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 3 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2018*	29-Mar-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Apr 2019 the pet owner reported the following event for Dotty a 7 year old, 3 pound, female spayed feline (unknown). *15 Oct 2018: The owner applied FRONTLINE PLUS CATS (UNKNOWN) between the shoulder blades for the first time. Doses were repeated on *15 Nov 2018 and *15 Dec 2018. *15 Mar 2019: The owner applied the most recent dose after skipping 2 months of applications. *29 Mar 2019: The owner began seeing a large amount of fleas on the cats face and the cat began scratching a lot all over. There is 1 other cat in the home sharing the FRONTLINE PLUS with case number 19US016944. The cat is an indoor only cat. The owner just began noticing active fleas inside of the home. No further medical information is expected.
03-Apr-2019	UAE; 19US016942; MA; U.S.A	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** M **Sex qualifier:** - **Age:** 9.00 Month(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Nature's Miracle Skin and Coat Shampoo; Iverhart Max; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Mar-2019	03-Apr-2019	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Apr 2019, the pet owner reported the following event for Yogi, a 9 month old (Born 10 Jun 2018), 50 pound*, intact male Goldendoodle dog. 26 Mar 2019: The first treatment was applied; with the dog receiving, the contents of 1 vial of FRONTLINE PLUS DOG 44-88 LBS (P61708AR) topically between the shoulder blades, with 3 doses purchased in February of 2019. 3 Apr 2019: The owner saw 4 ticks on the dog, all alive, 3 attached and 1 unattached. The dog is indoors and goes outside for walks in fields and woods. The dog was bathed in the middle of Mar with Nature's Miracle Skin and Coat and does not have a history of skin problems. The dog was in good health at the time of the application and is receiving Iverhart Max. The dog has not been on any other flea/tick preventatives. The owner is not seeing fleas in the home and has not treated the yard or the home. The owner did not contact the Veterinarian. No further medical information expected.
03-Apr-2019	UAE; 19US016944; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 17.00 Year(s) **Weight:** 12.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	15-Oct-2018*	29-Mar-2019*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Apr 2019 the pet owner reported the following event for Tigger a 17 year old, 12 pound, male neutered feline (unknown). *15 Oct 2018: The owner applied FRONTLINE PLUS CATS (UNKNOWN) between the shoulder blades for the first time. Doses were repeated on *15 Nov 2018 and *15 Dec 2018. *15 Mar 2019: The owner applied the most recent dose after skipping 2 months of applications. *29 Mar 2019: The owner began seeing more than 50 fleas mainly

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						Cutaneous **Was the product used ok?:** Yes					on the cats face and the cat began scratching a lot all over. There is 1 other cat in the home sharing the FRONTLINE PLUS with case number 19US016940. The cat is an indoor only cat. The owner just began noticing active fleas inside of the home. No further medical information is expected.
03-Apr-2019	UAE; 19US016985; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2017*	01-Jun-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On the 3 Apr 2019, the pet owner emailed the following event for a canine of unknown signalment. 2017*: The owner started her dog on FRONTLINE PLUS (unsubstantiated) (lot and expiry unknown). Jun 2018*: The dog tested Lyme positive via an unknown test. It is unknown if the dog was symptomatic or if this was an annual physical. It is unknown what treatment the dog received. No further details are known as the owner did not include this in her e-mail. The owner also mentioned in the e-mail that she found a tick on her dog, it is unknown if the dog is currently on FRONTLINE PLUS. No further medical information expected.
03-Apr-2019	UAE; 19US017008; GA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Mar-2019	03-Apr-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Apr 2019, the pet owner reported the following event for Jaxon, a 2 year old (Born 1 Apr 2017*), 10 pound*, neutered male Domestic Shorthair cat. 24 Mar 2019: The first treatment was applied; with the cat receiving, the contents of 1 vial of FRONTLINE PLUS CAT (S40502AX) topically between the shoulder blades, with 8 doses purchased in February of 2019. 3 Apr 2019: The owner saw 2 fleas on the cat. The cat is indoors only. The cat is not bathed and does not have a history of skin problems. The cat was in good health at the time of the application and is not receiving other medications. The cat has not been on any other flea preventatives. The owner is not seeing fleas in the home and has treated the yard or the home, vacuuming multiple times a day. The owner did contact the Veterinarian. There is another cat in the household that is having the same issue. See case 19US017014. No further medical information expected.
03-Apr-2019	UAE; 19US017014; GA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Month(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Mar-2019	03-Apr-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 3 Apr 2019, the pet owner reported the following event for Laina, a 14 month old (Born 1 Feb 2018*), 6 pound*, spayed female Domestic Shorthair cat. 24 Mar 2019: The first treatment was applied; with the cat receiving, the contents of 1 vial of FRONTLINE PLUS CAT (S40502AX) topically between the shoulder blades, with 8 doses purchased in February of 2019. 3 Apr 2019: The owner saw 2 fleas on the cat. The cat is indoors only. The cat is not bathed and does not have a history of skin problems. The cat was in good health at the time of the application and is not receiving other medications. The cat has not been on any other flea preventatives. The owner is not seeing fleas in the home and has treated the yard or the home, vacuuming multiple times a day. The owner did contact the Veterinarian. There is another cat in the household that is having the same issue. See case 19US017008. No further medical information expected.
03-Apr-2019	UAE; 19US017034; IL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair	1	1	0	**Product used:** FIPRONIL 10%/S	01-Sep-2004*	03-Apr-2019	0 Day(s)	D-B	Suspected Adverse Event: On 3 Apr 2019, the owner reported the following event for Poodie, a 12 pound*, 14 year old*, neutered male Domestic Shorthair.

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		(Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 12 lbs				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					1 Sep 2004: The cat began receiving monthly dose of FRONTLINE PLUS CAT (Unknown) between the shoulder blades. 2 Apr 2019: One dose of FRONTLINE PLUS CAT (Unknown) applied between the shoulder blades at 11pm. 3 Apr 2019: At 5pm the owner noticed that Poodie was drooling, shaking and can barely walk. The cat was presented to the clinic and is in clinic with an ongoing reaction. The cat was given a bath at the clinic and IV fluids, blood work has also been run at the clinic. No further medical information expected.
03-Apr-2019	UAE; 19US017059; MD; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 14 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL 9.8% / S-METHOPRENE 11.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION; Clindamed; Unknown rabies vaccine; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2018*	03-Apr-2019	3 Day(s)	D-D	Suspected Adverse Event: On 3 Apr 2019, the pet owner reported the following event for Rambo a feline, male neutered, 14 pound, 8 year old, other signalment unknown. 2 Apr 2018*: The pet owner applies FRONTLINE PLUS CATS (lot number unknown) topically between shoulder blades to Rambo. 27 Mar 2019*: The pet owner presented Rambo to veterinarian after a fight with fox and was treated with Clindamed. The veterinarian also administered an unknown rabies vaccine. 31 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades to Rambo. 2 Apr 2019: The pet owner applied FRONTLINE GOLD FOR CATS (lot number unknown) topically between the shoulder blades of Rambo for the first time. 3 Apr 2019: At the time of the report, Rambo has no history of drug or vaccine reactions. Rambo does share the home with one other dog with no health issues. The pet owner noticed Rambo was lethargic after recent application of FRONTLINE GOLD FOR CATS. Rambo is currently at home with ongoing lethargy issue. Rambo was in good health at tihe time of application. No further medical information.
04-Apr-2019	UAE; 19US017133; VA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Oster Flea and Tick shampoo with oatmeal; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Jan-2018*	02-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 4 Apr 2019 the pet owner reported the following event for an unknown 70 pound male canine. All other signalments unknown. *15 Jan 2018: Owner began applying FRONTLINE PLUS DOG 45-88 LBS (UNKNOWN) to the dog on a monthly and year round basis. *28 Mar 2019: Owner bathed pet with Oster Flea and Tick shampoo with oatmeal. 1 Apr 2019: Owner realized she was 15 days late applying product and dog had begun scratching and owner started seeing large amounts of fleas. Owner applied most recent dose. 2 Apr 2019: Owner continues to see large amounts of fleas and begins treating her home with powders on the rugs and various all natural product in the house. The owner is not noticing any indoor flea activity inside the home. There are no other pets in the home. Dog goes for walks through the apartment complex. Owner sees stray cats, foxes and Canadian geese on a regular basis during walks. No further medical information expected.
04-Apr-2019	UAE; 19US017150; MO; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	01-Jun-2017*	02-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 4 Apr 2019, the owner reported the following event for Siggy, 2 years old, 65 pounds, female spayed, Siberian Husky. 1 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS

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		Sex qualifier: Neutered **Age:** 2.00 Year(s) **Weight:** 65 lbs				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(S61601AX) was applied between the shoulder blades, by the pet owners. 2 Apr 2019: The groomer noticed irritation around the neck area of the dog while it was getting bathed. 3 Apr 2019: The dog present to clinic. At the clinic the following services were provided to treat application area: Physical exam, dexamethasone treatment, hospital hot spot treatment, and antibiotics oral and topical. The vet also prescribed Bravecto for pet owner to use in the future. 4 Apr 2019: The dog's application area is still irritated but healing. No further medical information is expected.
04-Apr-2019	UAE; 19US017225; CA; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 12 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2019	04-Apr-2019	2 Day(s)	D-D	Suspected Adverse Event: On 4 Apr 2019, the pet owner reported the following event for Ryan a male neutered, 7 year old, 12 pound, Siamese. 2 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40603AW) topically between the shoulder blades to the body of Ryan. 4 Apr 2019: At the time of the report, Ryan vomited a hairball early morning. Ryan is strictly indoors. Ryan has no history of drug or vaccine reactions. Ryan has not been presented to veterinarinan. Ryan has not received any other products at the same time as the FRONTLINE PLUS CATS application. The pet owner is unsure if adverse event is ongoing.The pet owner has seen fleas jumping and biting her spouse in the home. The pet owner is unsure if fleas were seen on Ryan, but suspects fleas as the cat continued itching, see case 19US018403. Ryan does share FRONTLINE PLUS CATS with one other cat in the home who does not have an issue. No further medical information.
04-Apr-2019	UAE; 19US017255; FL; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 9 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Feb-2019	01-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 4 Apr 2019, the pet owner reported the following event for Toby, 3 year old, 9 pound, male neutered Yorkshire Terrier. 17 Feb 2019*: 1 vial of FRONTLINE PLUS DOG 5-22 (R62514BL) was applied to the dog for the first time of the season. 17 Mar 2019: 1 vial of FRONTLINE PLUS DOG 5-22 (R62514BL) was applied to the dog for the second time of the season, in one area between the shoulder blades. 1 Apr 2019*: Fleas and flea dirt present on the dog. 4 Apr 2019*: 6 fleas and flea dirt present on the dog. The owner treats seasonally, first application of the season Feb 2019. The dog goes out for potty breaks and recreation in small fenced in yard. There are no fleas in the home. The dog goes to the groomer once a month, it is unknown what shampoo is used to bathe the dog. There is one other dog in the home that is not having an issue with fleas. No further information is expected.
04-Apr-2019	UAE; 19US017263; VA; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 55 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Feb-2019	03-Apr-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 4 Apr 2019, the owner reported the following event for Bella, 2 years old*, 55 pounds*, spayed female, Boxer. 1 Feb 2019: The dog started to receive FRONTLINE PLUS DOG 45-88 LBS(S62202AX) on a monthly basis. 1 Apr 2019: The most recent dose of the FRONTLINE PLUS was administered topically between the shoulder blades to the dog by the pet owner. The pet owner stated that fleas were seen at the time of application. 3 Apr 2019: The dog had a large amount of fleas. The dog has access to a fenced in back yard. The pet owner stated that no one in the home was getting bit by fleas.

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						ok?: Yes					4 Apr 2019: The dog still has fleas. No further medical information is expected.
04-Apr-2019	UAE; 19US017301; WI; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK LYME - 2126.R0; AFOXOLANER 28.3 MG CHEWABLE TABLETS; **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	04-Apr-2019	20 Month(s)	D-C	Suspected Lack of Efficacy Claim: On 4 Apr 2019, the receptionist reported the following event for Fenway, an 8 year old (born 15 Jun 2010), 17 pound, neutered male, Shih Tzu. Unknown dates: The patient received unknown FRONTLINE (lot unknown) (product unsubstantiated), administered seasonally. The routes, locations, and date of the most recent product administration couldn't be confirmed. Fenway was vaccinated by unknown clinic staff members with RECOMBITEK LYME (42187B, 26 Jul 2014), 1 mL, SC, in the left hind leg on 14 Mar 2013, (42183, 1 May 2014) 15 Apr 2013, (42193A, 19 Jun 2015) 14 Apr 2014, (42201, 6 Oct 2016) 25 Mar 2015, (42209, 24 Aug 2017) 11 Mar 2016, (42215, 24 May 2018) in the right hind leg on 30 May 2017, and (42222, 21 Sep 2019) 14 Jun 2018. 6 Jul 2018*: He began receiving one chew of NEXGARD (28.3 mg) (lot and expiration unknown) PO, seasonally on unknown dates and the purchase history is as follows: 1 dose on 6 Jul 2018, 1 dose on 23 Aug 2018, and 1 dose on 25 Mar 2019. 4 Apr 2019: Fenway tested positive for Lyme disease via routine 4Dx test and due to financial constraints, neither treatment nor further diagnostics has been performed. The patient has no prior Lyme testing history. There is a second dog in the home who does not share the NEXGARD purchase history as it is an approximately 65 pound Siberian Husky. No further medical information expected. UPDATE 8 Apr 2019: Lyme quantitative C6 antibody test result is 10 U/mL, antibody level less than 30 U/mL is considered clinically insignificant, no treatment initiated
04-Apr-2019	UAE; 19US017309; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Neutered **Age:** - **Weight:** Unknown	6	6	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Mar-2019*	30-Mar-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 4 Apr, the owner reported the following event for 6 neutered, average weights, Domestic Shorthair(crossbreeds) (all other signalments unknown). 14 March 2019*: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by the pet owner to all cats individually. 30 March 2019*: The cats had a moderate amount of fleas. The cats have access to a screened catio. The pet owner stated that she not getting bit by fleas. The cats did not present to clinic. 3 Apr 2019: The pet owner applied Advantage to the cats. 4 Apr 2019: The flea amount has decreased but still present. No further medical information is expected.
04-Apr-2019	UAE; 19US017325; MI; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	N/A	07-Apr-2018*	3 Day(s)	D-A	Suspected Adverse Event: On 4 Apr 2019 the pet owner reported the following event for an unknown canine. Unknown date 2018*: Pet owner applied 1 dose of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) in an unknown manner. At an unknown time following the application, the pet owner stated that the pet died from an unknown medical condition. The general health of the dog is unknown. No further medical information available.

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						to Company					
04-Apr-2019	UAE; 19US017326; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** adult **Weight:** 9.52 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Apr-2019	04-Apr-2019	0 Day(s)	D-D	Suspected adverse event: Veterinarian reported the following event in a 9.52 pound adult dog of unknown sex or breed. 4 Apr 2019: Pet owner applied FRONTLINE PLUS DOG 5-22 LBS (product unsubstantiated, pet owner disposed of packaging). Approximately 6-7 hours after administration, pet developed whole body tremors. No treatment has been performed at this time, but treatment is planned. No further medical information is expected.
04-Apr-2019	UAE; 19US017346; MA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Apr-2009*	04-Apr-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 4 Apr 2019, the pet owner reported the following event for 3 unknown canines. 2 Apr 2009*: Dogs began receiving treatments with unknown FRONTLINE PLUS. 2 Apr 2019*: Owners applied FRONTLINE PLUS DOG 45-88 LBS (lot unknown) (FL) in an unknown manner. Fleas were seen and the dogs were scratching at the time of application. 4 Apr 2019*: Pet owner found 1 fleas and stated that the dogs continue to scratch. FL has been used with no issue in the past. The frequency of use is unknown. The environment that the pet regularly visits is unknown.Pet owner mentioned that she may have received a bad batch of product. No further medical information available.
04-Apr-2019	UAE; 19US017353; MA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Feb-2019	02-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 4 Apr 2019 the pet owner reported the following event for an unknown 15 year old, 10 pound female spayed feline. *20 Jan 2019: The pet owner noticed the cat was scratching and assumed the cat had fleas. 3 Feb 2019: The pet owner applied 1 vial FRONTLINE PLUS CATS (S40404AW) to the skin between the shoulder blades. 3 Mar 2019: The pet owner applied another dose. 1 Apr 2019: The most recent dose was applied. 2 Apr 2019: The owner continues to see the cat scratching the same amount and assumes it is still fleas. The cat has not presented to the vet clinic. There are no other pets in the home. The owner reports no flea activity inside the home. The cat is mainly indoors but does go out daily with the owner on a concrete patio. The cat does not wander off patio. No further medical information expected.
04-Apr-2019	UAE; 19US017387; FL; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 92 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	16-Apr-2018*	28-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 4 Apr 2019 the pet owner reported the following event for Luke a 7 year old, 92 pound male neutered Retriever (Golden). *16 Apr 2018: The dog was started on FRONTLINE PLUS DOG 89-132 LBS (M62204AR) on a year round and monthly basis on the 16th thereafter. 16 Feb 2019: Another dose was applied to the skin between the shoulder blades. 16 Mar 2019: The most recent dose was applied to the dog. *21 Mar 2019: The owner bathed the dog in dawn dish soap per

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						Was the product used ok?: Yes					the advice of his vet. The dog did not present to the vet clinic but was started in capstar to kill the fleas on the pet. 3 Apr 2019: The owner bathed the dog in dawn dish soap again. *28 Feb 2019 – 4 Apr 2019: The pet owner continuously noticed an unknown amounts of fleas on the dog. The dog did not present to the vet clinic. The dog has access to a fenced in yard in front of townhouse. The owner is noticing small amounts of flea activity inside the home. The owner has fogged the house on 2 separate occasions. No other pets are in the home. No further medical information expected.
05-Apr-2019	UAE; 19US017468; FL; U.S.A	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 9.4 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Mar-2018	01-Mar-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 5 Apr 2019 the pet owner reported the following event via mail for Buffy, a 3 year old (born 17 Apr 2015), 9.4 pound, male Toy Poodle mix. 15 Mar 2018: Started on FRONTLINE PLUS DOG 5-22 LBS (lot and expiration unknown) once monthly. 15 Feb 2019: The pet owner applied an unknown volume of the product to an unknown application site. 1 Mar 2019: The pet owner began noticing an unknown number of fleas on the canine. It is unknown if fleas are being seen in the environment. It is unknown if there were complicating application factors, if the canine had experienced this problem previously, or if the canine was receiving other topicals or medications. It is also unknown if there are any other pets in the household. No further information is available at this time. UPDATE 12 APR 2019: The pet owner called to report the following information for Buffy an intact male Toy poodle yorkshire terrier mix. *15 Mar 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R62514RL) to the skin between the shoulder blades on 15th of each month thereafter. 15 Feb 2019: The most recent dose was applied. 1 Mar 2019: The pet owner began seeing a large amount of fleas all over the dog. The dog began pulling the fur out of the back of the legs from the fleas. The dog became itchy all over. Owner began treating with daily flea and tick shampoo baths. 6 Mar 2019: The dog presented to the vet clinic and was started on Medrol 4mg tablets, Sentinel, and Simparica to treat the fleas and itchiness from the fleas. *8 Mar 2019: The dog recovered. There are no other pets in the home. The owner did not see any flea activity inside the home but treated the home as a precautionary. The dog is leash walked through the neighborhood. No further medical information expected.
05-Apr-2019	UAE; 19US017496; IL; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 19 lbs	4	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	31-Mar-2019	01-Apr-2019	1 Day(s)	D-C	Suspected Adverse Event: On 5 Apr 2019 the pet owner reported the following event for Lolly a 9 year old, 19 pound, female spayed Beagle. 31 Mar 2019: Owner applied approximately half a vial of FRONTLINE PLUS DOG 5-22 LBS (S61017AL) to the shoulder blades for the first time. 1 Apr 2019: The dog stopped drinking water. The dog was otherwise normal. 2 Apr 2019: The dog stopped eating food became sluggish and uncoordinated. Owner believes dog is scared to walk. The dog had occasional tremors. Dog began laying around all of the time. The dog has not presented to the vet clinic. There are 3 other dogs in the home that were treated with the same amount and product

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						ok?: No (Low dose)					and are not showing any symptoms. The symptoms are ongoing. No further medical information expected.
05-Apr-2019	UAE; 19US017560; CA; U.S.A	**Species:** Canine **Breed:** Welsh Corgi **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2019	05-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 5 Apr 2019, the pet owner reported the following event for Hunter, 5 year old, 25 pound, male neutered, Welsh Corgi. 1 Jan 2019: 1 vial of FRONTLINE PLUS DOG 23-44 LBS(F60402AX) was applied to the dog in one area between the shoulder blades for the first time. 1 Feb 2019: 1 vial of FRONTLINE PLUS DOG 23-44 LBS(F60402AX) was applied to the dog in one area between the shoulder blades. 5 Mar 2019: The owner saw 3-4 fleas on the dog. 28 Mar 2019: 1 vial of FRONTLINE PLUS DOG 23-44 LBS(F60402AX) was applied to the dog in one area between the shoulder blades. The dog goes out for potty breaks and recreation in fenced in yard. No wildlife present. The dog has no history of skin issues. The owner bathes the dog frequently in an unknown pet shampoo. No further information is expected.
05-Apr-2019	UAE; 19US017655; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Apr-2019	04-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 5 Apr 2018, the pet owner reported the following event for a canine all signalments unknown. 4 Apr 2019: 1 vial of FRONTLINE PLUS DOG (product unsubstantiated, lot unknown) was applied to the dog in one are between the shoulder blades. During the night the owner saw 1 flea jump off of the dog onto the bed. No further information is available.
08-Apr-2019	UAE; 19US017738; TX; U.S.A	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 20 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz flea and tick shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2018*	31-Mar-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the pet owner reported the following event for Smash a female spayed, 8 year old, 20 pound, Pinscher (Miniature). 31 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (R62514BL) topically between the shoulder blades to the body of Smash on year round basis every month. 31 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Smash with live 4-10 fleas present. The pet owner bathed Smash with Hartz flea and tick shampoo. 8 Apr 2019: At the time of the report, Smash was in good health at time of application. Smash was not presented to veterinarian. The home environment has been treated by pet owner. Smash has no history of skin problems or any other issues with topical treatments. Smash is indoors and outside for potty breaks. Smash is currently at home with ongoing flea issue. Smash does share the home with one cat in the home that does not have a flea issue. No further medical information. UPDATE 12 Apr 2019: Per the pet owner, 3 doses of FRONTLINE PLUS DOG 5-22 LBS were purchased online on 13 Dec 2018 and 13 Mar 2019. No further medical information expected.

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08-Apr-2019	UAE; 19US017775; VA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** - **Age:** 9.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown oatmeal shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Mar-2018*	29-Mar-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the pet owner reported the following event for Nhala a female intact, non-pregnant non-lactating, 9 year old, 10 pound, Yorkshire Terrier. 29 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (R62412AL) topically between the shoulder blades on year round basis every month to Nhala. 28 Mar 2019: The pet owner bathed Nhala with unknown oatmeal shampoo. 29 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades of Nhala with live ticks and fleas present on her body. 1 Apr 2019: The pet owner continues to see live fleas and 1-2 ticks on dog. 8 Apr 2019: At the time of the report, Nhala is mainly indoors and outside for potty breaks. The home environment has not been treated by pet owner. Nhala has no history of skin problems or any other issues with medications. Nhala has not been presented to veterinarian. Nhala is currently at home with ongoing flea and tick issue. Nhala was in good health at time of application. No further medical information.
08-Apr-2019	UAE; 19US017786; NY; U.S.A	**Species:** Canine **Breed:** Havanese **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Feb-2019	24-Mar-2019	1 Day(s)	D-B	Suspected Adverse Event: On 8 Apr 2019 the pet owner reported via mail the following event for A 6 pound canine of unknown further signalment. 23 Mar 2019: The pet owner applied FRONTLINE PLUS DOG 5-22 LBS (product unsubstantiated) (lot and expiration unknown), unknown volume, route, or application site. At an unknown time following application the pet owner reported the canine experienced 3 seizures of unknown duration with unknown symptoms. The current health status of the canine is unknown and it is unknown if treatment was administered. No further information is available at this time. UPDATE 11 April 2018: On 11 April 2019, the owner reported the following event for Rocky, a 7 year old, 6 pound, neutered male Havanese. 23 March 2019: Rocky received one vial of FRONTLINE PLUS DOG 5-22 (S60302AL) to the skin between the shoulder blades. 24 March 2019: At midnight Rocky had 3 seizures 15 minutes apart. Rocky recovered without vet assistance. Rocky had FL in Feb with no issues. No further medical information available.
08-Apr-2019	UAE; 19US017831; OH; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Adam's Flea and tick shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	01-Jan-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the owner reported the following event for a 15 lbs., 5 year old, Yorkshire Terrier, all other signalment unknown. 1 Mar 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60525) was applied topically in between the pets' shoulder blades by the owner. Mar 2019*: The owner noticed a moderate amount of fleas on the pets and no change since Jan 2019 in the amount of fleas present. The dog is mostly indoor and go outside for potty breaks. There is no wildlife in the area, but a colony of stray cats in the area. No fleas noticed in the home at this time but previously noticed back in January by the owner's wife. The owner uses FRONTLINE year round since 2015*and started noticing fleas on the pets in January. The pets are also bathe in Adam's Flea and Tick shampoo when taken to the groomers, unknown how often the dog is bathed. There is one other dog and a cat in the home using

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											FRONTLINE, see additional cases 19US017935 and 19US017944. No further medical information expected.
08-Apr-2019	UAE; 19US017916; MA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 12.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Mar-2019	18-Mar-2019	0 Day(s)	D-D	Suspected Lack Of Efficacy Claim: On 8 Apr 2019, the pet owner reported the following event for T Bone, a 4 year old, 12.5 lb neutered male feline, breed unknown. 18 Mar 2019: Cat received one dose of FRONTLINE PLUS CATS (S40717AW) (FL) topically between the shoulder blades. The pet owner stated that she was seeing ticks before the application. This was the first application of FL and the cat goes outside regularly. At the time of the report, the pet owner stated that she has continued to find ticks on the cat and is continually pulling them off. The pet owner is finding at least 1 tick a day. Please see case 19US018654 for another cat in the household that continues to pick up ticks after FL application. No further medical information expected.
08-Apr-2019	UAE; 19US017918; NC; U.S.A	**Species:** Canine **Breed:** Doberman **Sex:** F **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 46 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Apr-2019	07-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 8 April 2019, the owner reported the following event for Emma, a 2 year old, 46 pound, intact Doberman/Husky mix. 7 April 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60913AR) (FL)was applied to the skin between the shoulder blades for the first time around 7:30 p.m.. Within one hour the dog was anxious, lethargic, vomiting, and she developed a rash at the site of application and around her eyes. 8 April 2019: The dog was taken to the emergency clinic. She received IV fluids, Benadryl, and another unknown antibiotic. The dog's blood platelet count were high and diagnostic testing was performed. The dog only suffers from environmental allergies and was in good health before the FL application. There are two other FL treated dogs in the home who did not have any issues after receiving treatment. No further information available
08-Apr-2019	UAE; 19US017927; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 45 - 70 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Feb-2019	06-Apr-2019*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 08 April 2019, a pet owner reported the following event for two canines weighing between 45 and 70 pounds (all other signalments unknown). 26 Feb and 26 Mar 2019: 1 vial from an 8 pack of FRONTLINE PLUS DOG 45-88 LBS (S60719AX) was applied between the shoulder blades of each dog. 06 Apr 2019*: An unknown number of embedded ticks were found embedded in the dogs' skin on the head, ears, tail head, and between the toes. A groomer removed the ticks who were live but not identified. It is not known how long the ticks had been there. The dogs have access to a small backyard. No further medical information expected.
08-Apr-2019	UAE; 19US017935; OH; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** U **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Adam's Flea and Tick Shampoo; **Route:** Topical /	01-Jan-2011*	01-Jan-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the owner reported the following event for a 80 lbs., 8 year old, Labrador Retriever, all other signalment unknown. 1 Mar 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (P61201) was applied topically in between the pet's shoulder blades by the owner. Mar 2019*: The owner noticed a moderate amount of fleas on the pets and no change since Jan 2019 in the amount of fleas present. The dogs are mostly indoor and go outside for potty breaks. There is no wildlife in the area, but a colony of stray cats in the area. No fleas noticed in the home at this time but previously noticed back in

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						Cutaneous **Was the product used ok?:** Yes					January by the owner's wife. The owner uses FRONTLINE year round since 2011* and started noticing fleas on the pets in January. The pets are also bathe in Adam's Flea and Tick shampoo when taken to the groomers, unknown how often the dog is bathed. There is one other dog and a cat in the home using FRONTLINE, see additional cases 19US017831 and 19US017944 No further medical information expected.
08-Apr-2019	UAE; 19US017939; FL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Mar-2019	29-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the pet owner reported the following event for Nyla, 7 year old, 5 pound, female spayed Chihuahua. 28 Mar 2019*: 1 vial of FRONTLINE PLUS DOG 5-22 LBS(lot unknown) was applied to the dog in one area between the shoulder blades for the very first time,a 3 pack was purchased. Lot is unknown because reporter was not querierd. The owner has continued to see 1-3 fleas on the dog every other day. 4 Apr 2019: The dog was bathed in Jax n Daisy pet shampoo. There is one other pet in the home, a feline treated with a different flea product. The dog goes out for potty breaks and recreation in the fenced in yard. The dog has no history of skin issues. No fleas are seen in the home. No further information is available.
08-Apr-2019	UAE; 19US017944; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Adam's Flea and Tick Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Jan-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the owner reported the following event for a 10 lbs., 2 year old, Feline, all other signalment unknown. 1 Mar 2019: One vial of FRONTLINE PLUS CATS (S40117) was applied topically in between the pets' shoulder blades by the owner. Mar 2019*: The owner noticed a moderate amount of fleas on the pets and no change since Jan 2019 in the amount of fleas present. The cat is strictly indoor. There is no wildlife in the area, but a colony of stray cats in the area. No fleas noticed in the home at this time but previously noticed back in January by the owner's wife. The owner uses FRONTLINE year round since 2017* and started noticing fleas on the pets in January. The pets are also bathe in Adam's Flea and Tick shampoo when taken to the groomers , it is unknown how often the cat is groomed. There are two dogs in the home using FRONTLINE, see additional cases 19US017831 and 19US017935 No further medical information expected.
08-Apr-2019	UAE; 19US017972; IN; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 4.50 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	04-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019 the pet owner reported the following event for Harley, a 4.5 year old, 60 lb spayed female German Shepherd mix. 1 Apr 2019: Dog received one dose of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) topically between the shoulder blades. The product is used ona year round basis. 4 Apr 2019*: Owner found a tick on the dog. The pet owner has only seen 1 tick and she removed it. The dog is outside on a daily basis. The owner stated that she has never had a problem with ticks and recently moved to the suburbs. No further medical information expected.
08-Apr-2019	UAE; 19US017977; MI; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Neutered	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	30-Apr-2011*	06-Apr-2019	5 Week(s) 2 Day(s)	D-C	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the owner reported the following event for Mikey, 9 years old, 20.4 pounds, neutered male, Pug. 2011*:The dog started to receive FRONTLINE PLUS DOG 5-22 LBS on a monthly seasonal basis.

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		Age: 9.00 Year(s) **Weight:** 20.4 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					28 Feb 2019*:The most recent vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades, by the pet owner. 6 Apr 2019: The dog was diagnosed with Lyme disease .The dog presented to clinic for routine checkup. No treatment was provided at that moment. The pet owner stated that last summer she did noticed deer ticks on her dog. 8 Apr 2019: The dog is not displaying symptoms. The pet owner has an appointment scheduled with a specialist on 10 Apr 2019. There are 2 dogs in the household that are both using the FRONTLINE PLUS, but only one was diagnose with Lyme. No further medical information is expected. UPDATE 10 Apr 2019: Per the pet owner, ticks got onto the pet on an unknown date, and they were not dead after an unknown period of time. The owner removed the ticks. It is unknown if they were identified. No further medical information expected.
08-Apr-2019	UAE; 19US017992; CT; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2014*	04-Apr-2019*	3 Day(s)	D-D	Suspected Adverse Event: On 8 Apr 2019, the pet owner reported the following event for Jake, a 9 year old, 13 lb neutered male Domestic Longhair. 1 Apr 2014*: Cat began receiving doses of FRONTLINE PLUS CATS (lot unknown). 1 Apr 2019: Cat received most recent dose of FRONTLINE PLUS CATS (S40717AW) (FL) topically between the shoulder blades. 4 Apr 2019*: The cat began to scratch non-stop. The cat has received FL before with no adverse symptoms presenting. It is unknown if the veterinary clinic was contacted. The general health of the pet is unknown. The symptoms are ongoing at this time. No further medical information expected.
08-Apr-2019	UAE; 19US018009; GA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Mar-2018	26-Mar-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the owner reported the following event for Gooby, 3 year old, 10 pound, neutered male, Domestic Shorthair feline. 25 Mar 2019: One vial of FRONTLINE PLUS CATS (S40117AW) was applied between the shoulder blades. 26 Mar 2019: The owner found 1 flea on cat. The cat is strictly indoor. There are untreated feral cats that roam around and under the house. The owner also noted fleas present in the household. 8 Apr 2019: The owner continued to find fleas on the cat daily up to the time of the report. The owner counted about 20 fleas total. The cat has received the product monthly since 25 Mar 2018 with no issues. No further medical information is expected.
08-Apr-2019	UAE; 19US018030; VA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Contraindication	08-Apr-2019	08-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 8 Apr 2019, the pet owner reported the following event for 6 lb, Yorkshire Terrier. All other signalments unknown. 8 Apr 2019: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was given to the dog by mouth. The dog is vomiting and has diarrhea. The dog has not been seen by the Veterinarian. No further medical information is expected.

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						per label)					
08-Apr-2019	UAE; 19US018053; NH; U.S.A	**Species:** Canine **Breed:** Bernese Mountain Dog **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 97 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018	03-Apr-2019	2 Day(s)	D-D	Suspected Lack of efficacy Claim: On 8 Apr 2019 the pet owner reported the following event for an unknown 97 pound male Bernese Mountain Dog. All other signalments are unknown 1 Apr 2018: The dog was started on FRONTLINE PLUS DOG 89-132 LBS (M61301AR) on a monthly and year round basis. 1 Apr 2019: The most recent dose was applied. 3 Apr 2019: The owner noticed a few ticks were attached to the dog and engorged and alive. Owner removed the ticks. 7 Apr 2019: The owner noticed 1 tick was attached to the dog, alive and engorged. The owner removed the tick. Owner believes she received a bad batch as she did not have this problem prior to this month. Dog has access to a large wooded area and goes for walks with the owner through the woods. Owner was receptive to product education. No further medical information expected.
08-Apr-2019	UAE; 19US018075; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Apr-2019	08-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 8 Apr 2019, the owner reported the following event for a canine (all other signalments unknown). 8 Apr 2019: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was applied between the shoulder blades for the first time. Immediately after, the dog experienced hyperactivity which included rolling on the ground like the product was burning. It is unknown if the pet presented to the clinic or if any treatment was provided. The status of the pet is unknown. The dog has a preexisting history of dry skin. No further medical information is expected.
08-Apr-2019	UAE; 19US018083; MI; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 54 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2015	07-Apr-2019	0 Day(s)	D-C	Suspected Adverse Event: On the 8 Apr 2019, a veterinarian reported the following event for Abby , a 54 pound, 4 year old (born 8 Feb 2015), spayed female, German Shepherd Mix. 1 Apr 2015: The dog started on monthly FRONTLINE PLUS DOG 45-88 LBS (M64104), without any issues. 7 Apr 2019: The most recent application was applied topically between the shoulder blades. Shortly after the dog had dilated pupils, her whole body was painful, she was ataxic and not wanting to lift her head up. 8 Apr 2019: The dog presented to the clinic with ongoing issues. The veterinarian performed an in-house CBC/Chemistry with unknown results. The dog has not been treated with anything as of yet. The veterinarian has a low level of suspicion that the FRONTLINE PLUS caused this reaction as she believes that the dog got into something that the owner was not aware of prior to applying the FRONTLINE PLUS. No further medical information expected.
08-Apr-2019	UAE; 19US018114; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown vaccination;	N/A	07-Apr-2019	0 Day(s)	D-B	Suspected Adverse Event: On 8 Apr 2019, the veterinarian reported the following event for a 4 year old, 50lb female canine, additional signalment details unknown. 6 Apr 2019: Dog received unknown vaccination. 7 Apr 2019: Dog received an unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) (FL) topically in an unknown manner. Two hours after the application the dog had a seizure . Within an hour later, the dog presented with a second seizure.

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						Route: Topical / Cutaneous **Was the product used ok?:** Unknown to Company					Details of the seizures were not provided. The pet owner bathed the dog at the site of application. The dog was presented to the veterinary clinic and has fine muscle tremors. No further medical information available. UPDATE 09 Apr 2019: The veterinarian reported that the dog is doing well. The owner has multiple dogs of the same weight range so there are two different boxes that this dog's dose could have come from, S62111AL or P62104AR.
08-Apr-2019	UAE; 19US018137; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	27-Mar-2019	28-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the pet owner reported the following even for a Domestic Shorthair (Crossbreed), all other signalments unknown. 27 Mar 2019: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat in one area between the shoulder blades. The owner has been seeing 2-4 fleas and flea dirt on the cat since application. The cat is primarily indoors. There is one dog that lives down stairs and is treated with flea prevention. There are no fleas seen in the home. The cat does not have a history of skin issues. Owner treats year round with different flea prevention. No further medical information is expected.
08-Apr-2019	UAE; 19US018140; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Apr-2019	08-Apr-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 8 Apr 2019, the pet owner reported the following event for a canine, all signalments unknown. 1 Apr 2019*: 1 vial of FRONTLINE PLUS DOG(unknown) (lot unknown) was applied to the dog in an unknown area. Lot is unknown because the reporter was not queried. 8 Apr 2019: The owner removed 1 live engorged tick from the dog. No further information available.
09-Apr-2019	UAE; 19US018163; MI; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Oatmeal shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2010*	09-Apr-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 9 Apr 2019, the pet owner reported the following event for Precious, a 9 year old*, 9 pound*, Chihuahua dog of unknown signalments. 26 Feb 2019: The first treatment of the season was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 5-22 LBS (Unknown) topically between the shoulder blades, with 6 doses purchased in February of 2019. 26 Mar 2019: The dog received 1 vial of FRONTLINE PLUS DOG 5-22 LBS (Unknown) topically between the shoulder blades. 9 Apr 2019: The owner saw an unknown amount of fleas on the dog. New kittens were brought into the home that had fleas. The dog is mostly indoors but goes outside in to the yard which is grassy for potty breaks. The dog is bathed every 3 weeks with an oatmeal based shampoo and does get dry skin in the winter months. The dog's health at the time of the application was good and it is unknown if the dog is receiving other medications. The dog has been on FRONTLINE PLUS DOG 5-22 LBS seasonally since 2010 which has been successful in treating fleas. It is unknown if the owner is seeing fleas in the home or if the owner has treated the

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											home. It is unknown if the owner contacted the Veterinarian. See case 19US018198 and 19US018205 for additional pets in the home. No further medical information expected.
09-Apr-2019	UAE; 19US018198; MI; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Oatmeal Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Feb-2019	09-Apr-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 9 Apr 2019, the pet owner reported the following event for Lucy, a 8 year old*, 20 pound*, Chihuahua dog of unknown signalments. 26 Feb 2019: The first treatment of the season was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 5-22 LBS (Unknown) topically between the shoulder blades, with 6 doses purchased in February of 2019. 26 Mar 2019: The dog received 1 vial of FRONTLINE PLUS DOG 5-22 LBS (Unknown) topically between the shoulder blades. 9 Apr 2019: The owner saw an unknown amount of fleas on the dog. New kittens were brought into the home that had fleas. The dog is mostly indoors but goes outside in to the yard, which is grassy for potty breaks. The dog is bathed every 3 weeks with an oatmeal-based shampoo and does get dry skin in the winter months. The dog's health at the time of the application was good and it is unknown if the dog is receiving other medications. The dog has been on FRONTLINE PLUS DOG 5-22 LBS previously, which has been successful in treating fleas. It is unknown if the owner is seeing fleas in the home or if the owner has treated the home. It is unknown if the owner contacted the Veterinarian. See case 19US018163 & 19US018205 for additional pets in the home. No further medical information expected.
09-Apr-2019	UAE; 19US018205; MI; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** U **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Oatmeal Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Apr-2018*	09-Apr-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 9 Apr 2019, the pet owner reported the following event for Tiny, a 1 year old*, 11 pound*, Dachshund dog of unknown signalments. 26 Feb 2019: The first treatment of the season was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 5-22 LBS (Unknown) topically between the shoulder blades, with 6 doses purchased in February of 2019. 26 Mar 2019: The dog received 1 vial of FRONTLINE PLUS DOG 5-22 LBS (Unknown) topically between the shoulder blades. 9 Apr 2019: The owner saw an unknown amount of fleas on the dog. New kittens were brought into the home that had fleas. The dog is mostly indoors but goes outside in to the yard, which is grassy for potty breaks. The dog is bathed every 3 weeks with an oatmeal-based shampoo and does get dry skin in the winter months. The dog's health at the time of the application was good and it is unknown if the dog is receiving other medications. The dog has been on FRONTLINE PLUS DOG 5-22 LBS previously, which has been successful in treating fleas. It is unknown if the owner is seeing fleas in the home or if the owner has treated the home. It is unknown if the owner contacted the Veterinarian. See case 19US018163 & 19US018198 for additional pets in the home. No further medical information expected.
09-Apr-2019	UAE; 19US018232; LA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	05-Apr-2019	08-Apr-2019	3 Day(s)	D-D	Suspected Adverse Event: On 9 Apr 2019 the pet owner reported the following event for Ollie a 9 year old (27 Apr 2009), 25 pound, male neutered, feline (unknown). 5 Apr 2019: The owner applied 1 vial FRONTLINE PLUS CATS (S41103AW) to the skin between the shoulder blades for the first time.

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		Age: 9.00 Year(s) **Weight:** 25 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					8 Apr 2019: The owner noticed a bald spot at the application site and the skin appears red. The owner applied some Neosporin to the application site. The redness appears a little better this morning but symptoms are ongoing. The cat did not present to the clinic. The cat has a history of neurological issues since he was a kitten. No further medical information expected.
09-Apr-2019	UAE; 19US018259; ND; U.S.A	**Species:** Canine **Breed:** Blue Heeler **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 62 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Dec-2016*	20-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 Apr 2019, the receptionist reported the following event for Lok, an 11 year old (born 4 Apr 2007) 62 pound male neutered Blue Heeler. 19 Oct 2018: The pet owner has been noticing ticks on the dog and applied a dose of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) down to the skin between the shoulder blades. 20 Oct 2019*: The pet owner noticed there were still ticks on the dog. It is unknown if they were alive or dead. There are no other dogs in the home. The dog was not wet at application. He has been receiving FRONTLINE on and off since Dec 2016*. No further medical information expected.
09-Apr-2019	UAE; 19US018295; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 70 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Mar-2015*	27-Jan-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 9 Apr 2019 the pet owner reported the following event for two 70 pound canine (unknown). All other signalments are unknown. *25 Mar 2015: The owner applied 1 vial FRONTLINE PLUS DOG 45-88 LBS (UNKNOWN) to each of the dogs on a monthly and year round basis thereafter. *25 Jan 2019: The owner applied another dose. *27 Jan 2019: The owner began seeing an unknown amount of fleas on the dogs daily. *25 Feb 2019: The owner applied another dose. *21 Mar 2019: The owner discovered fleas in the home and bathed the dogs in Dawn dish soap and bombed the house. 25 Mar 2019: The most recent dose was applied. 9 Apr 2019: The owner continues to see an unknown amount of fleas on the dogs daily. There are no other pets in the home. The owner treated the dogs with Capstar on an unknown date. The owner reported no fleas are currently seen in the home. No further medical information expected.
09-Apr-2019	UAE; 19US018306; SC; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dawn Liquid Soap; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Jan-2016*	02-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 Apr 2019, the pet owner reported the following event for Chloe, 12 year old, 16 pound, female spayed, Bichon Frise. 2 Apr 2019*: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (F6106AL) was applied to the dog in one area between the shoulder blades. The owner has been seeing a large amount of fleas on the dog every day since application. 8 Apr 2019: The dog was bathed in dawn dish soap. The dog goes out for potty breaks and recreation on the island where they are visiting. There is a lot of vegetation and sand, urban wildlife possible. There are no fleas seen in the home, but the owner is having the home exterminated just in case. The dog has a history of skin issues, was given an unknown steroid injection at an unknown date for itchy skin. Owner treats year round with FRONTLINE. No further information available.

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09-Apr-2019	UAE; 19US018332; CA; U.S.A	**Species:** Feline **Breed:** Russian Blue **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Feb-2019	09-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 Apr 2019, the pet owner reported the following event for Eoobie, a 10 year old*, 16 pound*, neutered male Russian Blue cat. 8 Feb 2019: The first treatment was applied; with the cat receiving, the contents of 1 vial of FRONTLINE PLUS CAT (Unknown) topically between the shoulder blades, with 8 doses purchased in January of 2019. 8 Mar 2019: The cat received 1 vial of FRONTLINE PLUS CAT (Unknown) topically between the shoulder blades. 8 Apr 2019: The cat received 1 vial of FRONTLINE PLUS CAT (Unknown) topically between the shoulder blades. 9 Apr 2019: The owner saw a small amount of fleas on the cat. The cat is indoors only. The cat is not bathed and does not have a history of skin problems. The cat's health at the time of the application is good and it is not receiving other medications. The cat has been on Advantage II previously. The owner is not seeing fleas in the home but a family member does have flea bites. The owner has treated the home. The owner did not contact the Veterinarian. No further medical information expected.
09-Apr-2019	UAE; 19US018341; FL; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 68 - 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2019	02-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 9 Apr 2019, the owner reported the following event for the Luke, a 68-70 pound, 11 year old, male, neutered, Yellow Labrador Retriever. 1 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (S61101AR) was applied topically in one location in-between the shoulder blades by the pet owner. 2 Apr 2019: The owner noticed the pet skin irritation at the application site and around the neck where the pet was scratching. The pet was not presented to the clinic. The owner began applying an unknown ointment to the area. 4 Apr 2019: The pet's symptoms have stopped and he recovered. The pet has used FRONTLINE PLUS DOG 45-88 LBS in the past with no reactions on a year round basis. No further medical information expected at this time.
04-Apr-2019	UAE; 19US018403; CA; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 12 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2019	04-Apr-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 4 Apr 2019, the pet owner reported the following event for Ryan a male neutered, 7 year old, 12 pound, Siamese. 2 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40603AW) topically between the shoulder blades to the body of Ryan. 4 Apr 2019: At the time of the report,the pet owner has seen fleas jumping and biting her spouse in the home. The pet owner is unsure if fleas were seen on Ryan as the cat continued itching. Ryan has vomited a hairball early morning. Ryan is strictly indoors. Ryan has no history of drug or vaccine reactions. Ryan has not been presented to veterinarinan. Ryan has not received any other products at the same time as the FRONTLINE PLUS CATS application. The pet owner is unsure if Ryan has ongoing issue. Ryan has another case number 19US017225 in reference to adverse event. Ryan does share FRONTLINE PLUS CATS with one other cat in the home who does not have an issue. No further medical information. UPDATE 17 Apr 2019: After further review, the reason for assessment was revised.
09-Apr-2019	UAE; 19US018430;	**Species:** Feline **Breed:** Feline	5	1	0	**Product used:** FIPRONIL	19-Mar-2018*	19-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 9 Apr 2019, the pet owner reported the following event for Pudden a female spayed, 3 year

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	AL; U.S.A	Other **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 9 lbs				10%/S METHOPRENE 12% SPOT ON **Other products used:** unknown pet shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					old, 9 pound, Tabby. 19 Mar 2018*: The pet owner applied FRONTLINE PLUS CATS (R41201AW) topically between the shoulder blades to Pudden on year round basis every month. 19 Feb 2019*: The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades to Pudden with 15+ fleas on her body. 19 Mar 2019*: Pudden was bathed with unknown pet shampoo. The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades to Pudden with 15+ fleas on her body. 9 Apr 2019: At the time of the report, Pudden was in good health at time of application. Pudden was not presented to veterinarian. The home environment carpet has been treated by pet owner. Pudden has no history of skin problems or any other issues with topical treatments. Pudden is strictly indoors. After unknown period of time, the pet owner has noticed scabs on skin and chest of Pudden. The pet owner has seen fleas bite and jump on her family members in the home. Pudden is currently at home with ongoing flea issue. Pudden does share the home with three other cats and one dog that have no flea issues. No further medical information.
10-Apr-2019	UAE; 19US018551; TX; U.S.A	**Species:** Canine **Breed:** Hound Breeds (200 Series) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 82 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Sentinel; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	01-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019, the pet owner reported the following event for Molly a female spayed, 82 pound, 8 year old, Hound Breeds (Tennessee Train Hound). 1 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to Molly on year round basis every month. 1 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60913AR) topically between the shoulder blades to Molly with 15+ live fleas. 10 Apr 2019: At the time of the report, Molly was in good health at time of application. The pet owner administers a heartworm preventative called Sentinel every month approximately on the 19th day. Molly has not been bathed. The home environment carpet and furniture has been treated by pet owner. Molly goes outside for bathroom breaks in fenced yard. The pet owner has seen fleas jumping on herself in the home. Molly was not presented to veterinarian. Molly has no history of skin problems or any other issues with topical treatments. Molly is currently at home with ongoing flea issue. Molly does share the home with three other cats in the home that have case numbers 19US018575, 19US018578. No further medical information. UPDATE (11 Apr 2019): Attempted callback to follow up on lack of efficacy concerns with pet owner. The pet owner was unavailable. No further information.
10-Apr-2019	UAE; 19US018573; ID; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	22-Nov-2018*	23-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019, the owner reported the following event for 3 felines (signalments unknown). Nov 2018:The cats started to received FRONTLINE PLUS CATS on a monthly basis year round. 22 Mar 2019: The most recent vial of FRONTLINE PLUS CATS (Lot unknown) was applied between the shoulder blades, the pet owner. 23 Mar 2019*: The pet owner stated that there is a unknown parasite or insect on his cats. He further stated that he does not think that it is fleas. The cats did not present to clinic. The pet owner is treating his home with a unknown spray. The cats are indoor/outdoor with access to 50 acres of land.

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						product used ok?: Yes					10 Apr 2019: The cats still have this unknown parasite. No further medical information is expected.
10-Apr-2019	UAE; 19US018575; TX; U.S.A	**Species:** Canine **Breed:** Basset Hound **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 54 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Sentinel; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	01-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019, the pet owner reported the following event for Gipsy a female spayed, 54 pound, 10 year old, Basset hound/ lab crossbreed). 1 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to Gipsy on year round basis every month. 1 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60913AR) topically between the shoulder blades to Gipsy with 15+ live fleas. 10 Apr 2019: At the time of the report, Gipsy was in good health at time of application. The pet owner administers a heartworm preventative called Sentinel every month approximately on the 19th day. Gipsy has not been bathed. The home environment carpet and furniture has been treated by pet owner. Gipsy goes outside for bathroom breaks in fenced yard. The pet owner has seen fleas jumping on herself in the home. Gipsy was not presented to veterinarian. Gipsy has no history of skin problems or any other issues with topical treatments. Gipsy is currently at home with ongoing flea issue. Gipsy does share the home with three other dogs in the home that have case numbers 19US018551, 19US018578. No further medical information. UPDATE (11 Apr 2019): Attempted callback to follow up on lack of efficacy concerns with pet owner. The pet owner was unavailable. No further information.
10-Apr-2019	UAE; 19US018578; TX; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 46 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Sentinel; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	01-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019, the pet owner reported the following event for Zoey a female spayed, 46 pound, 6 year old, Retriever Labrador/ crossbreed. 1 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to Zoey on year round basis every month. 1 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60913AR) topically between the shoulder blades to Zoey with 15+ live fleas. 10 Apr 2019: At the time of the report, Zoey was in good health at time of application. The pet owner administers a heartworm preventative called Sentinel every month approximately on the 19th day. Zoey has not been bathed. The home environment carpet and furniture has been treated by pet owner. Zoey goes outside for bathroom breaks in fenced yard. The pet owner has seen fleas jumping on herself in the home. Zoey was not presented to veterinarian. Zoey has no history of skin problems or any other issues with topical treatments. Zoey is currently at home with ongoing flea issue. Zoey does share the home with three other cats in the home that have case numbers 19US018575, 19US018551. No further medical information. UPDATE (11 Apr 2019): Attempted callback to follow up on lack of efficacy concerns with pet owner. The pet owner was unavailable. No further information.
10-Apr-2019	UAE; 19US018598; KS; U.S.A	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	06-Apr-2005*	09-Apr-2019	3 Day(s)	D-D	Suspected Adverse Event: On 10 April 2019, the owner reported the following event for Lady, a 14 year old, 15 pound, spayed female Poodle mix. 6 April 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (FL) (S61203) was topically applied to the skin between the shoulder blades and one chew of HEARTGARD PLUS (68 MCG/57 MG)

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		Age: 14.00 Year(s) **Weight:** 15 lbs				**used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(HG) (B30235, Oct 2021) was orally administered to Lady. 9 April 2019: Lady was itching, rolling, and scratching her back. 10 April 2019: Lady had a red and swollen welt at the Frontline Plus application site. The owner is monitoring her condition. Lady has been on FL and HG all her life without issues. No further medical information available.
10-Apr-2019	UAE; 19US018613; FL; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 60 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown flea shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	28-Feb-2019*	29-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019, the owner reported the following event for Lacy, 5 years old, 60 pounds*, spayed female, Retriever Labrador. Feb 2019*: The dog started to received the FRONTLINE PLUS DOG 89-132 (lot unknown) on a monthly basis. 28 March 2019*:The most recent vial of FRONTLINE PLUS DOG was applied between the shoulder blades, by the pet owner. 29 March 2019*: The dog had a moderate amount of fleas. The dog did not present to clinic. The pet owner stated that no fleas were biting her or her family. The dog goes on daily walks in the neighborhood. 9 Apr 2019: The dog was bathed with an unknown flea shampoo. The pet owner stated that she bathes the dog every other week started in Feb. 10 Apr 2019: The dog still has fleas. There are 2 other pet in the home that are on a different flea preventative. The pet owner also stated that dog had an unknown reaction to a OTC flea product in the past. No further medical information is expected.
10-Apr-2019	UAE; 19US018616; TX; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Dec-2018*	24-Jan-2019*	N/A	D-D	Frontline - Internet:(Amazon-third party) owner seeing fleas - x4 dogs and x1 cat, one cat ,mostly indoor pets, fleas seen on the inside of the home, owner has been buying individsuals, owner noticed differnece when he ordered from a new. One pet is older and has dry skin.Owner was bathing the pets in Dawn. UPDATE: 10 APR 2019: Suspected Lack of Efficacy Claim: On 10 Apr 2019 the pet owner reported the following event for an unknown male feline. All other signalments are unknown *1 Oct 2018: The owner began noticing fleas on the cat and the cat was biting fur out. *25 Dec 2018: The owner purchased 1 single dose vial from Amazon of FRONTLINE PLUS CAT (S40815BW). The owner applied 1 vial to the cat. No fleas were seen after application. *25 Jan 2019: The owner purchased a 6 pack from Amazon and applied it to the cat. *26 Jan 2019-*25 Feb 2019: The owner still noticed large amounts of fleas. *25 Feb 2019: The owner purchased another 6 pack from Amazon and applied it to the cat. *26 Feb 2019-25 Mar 2019: the owner continues to notice large amounts of fleas. 25 Mar 2019: The owner purchased another 6 pack from Petsmart and applied it to the cat. 26 Mar 2019: The owner still sees large amounts of fleas each day. There is 4 dogs in the home with case number 19US006298. The owner is still noticing indoor flea activity. The cat is indoor only and

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											still biting fur out. No further medical information expected.
10-Apr-2019	UAE; 19US018619; NJ; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 44 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Benadryl; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	03-Apr-2019*	12 Month(s) 1 Week(s)	D-D	Suspected Adverse Event: On 10 Apr 2019, the pet owner reported the following event for Emma a female neutered, 14 year old, 44 pound. Basset Hound/ crossbreed. 1 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS (R62420BL) topically between the shoulders to the body of Emma. 3 Apr 2019*: The pet owner noticed Emma not eating and being lethargic. 6 Apr 2019*: The pet owner administered Benadryl to Emma for itching. 10 Apr 2019: At the time of the report, Emma was in good health at time of application. Emma has not been presented to veterinarian. Emma has no history of skin problems or any other issues with topical treatments. Emma currently is at home with ongoing issue. No further medical information.
08-Apr-2019	UAE; 19US018654; MA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 12.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Mar-2019	18-Mar-2019	0 Day(s)	D-D	Suspected Lack Of Efficacy Claim: On 8 Apr 2019, the pet owner reported the following event for Coco, a 4 year old, 12.5 lb spayed female feline, breed unknown. 18 Mar 2019: Cat received one dose of FRONTLINE PLUS CATS (S40717AW) (FL) topically between the shoulder blades. The pet owner stated that she was seeing ticks before the application. This was the first application of FL and the cat goes outside regularly. At the time of the report, the pet owner stated that she has continued to find ticks on the cat and is continually pulling them off. The pet owner is finding at least 1 tick a day. Please see case 19US017916 for another cat in the household that continues to pick up ticks after FL application. No further medical information expected.
10-Apr-2019	UAE; 19US018661; NC; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	10-Apr-2019*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019, a veterinarian reported the following event for a feline of unknown signalment. On a unknown date the owner applied a dose of FRONTLINE PLUS CATS (Unsubstantiated) (Lot Unknown) in an unknown manner in an unknown location. An unknown amount of time later, the owner found a tick on the cat. It is unknown if it was attached or not. No further information known.
10-Apr-2019	UAE; 19US018699; MA; U.S.A	**Species:** Canine **Breed:** Spaniel (King Charles) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 23 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG;	01-Apr-2014*	10-Apr-2019	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019 the pet owner reported the following event for Cooper a 5 year old, 23 pound, male neutered, spaniel (king Charles) and Poodle (Miniature) mix. *1 Apr 2014: The dog was started on FRONTLINE PLUS DOG 23-44 LBS (UNKNOWN) and HEARTGARD PLUS (68 MCG/57 MG) (lot and expiration unknown) and was dosed on the 1st of every month thereafter. 1 Apr 2019: The most recent dose was administered. 10 Apr 2019: The owner noticed a tick on the dogs head. The tick was fully engorged and latched down. The owner removed the tick and the tick was dead. No other pets in the home. The owner does have wild turkey and coyotes in the area. The dog goes for walks through a bike trail on

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					the weekends. The owner has only noticed ticks walking through fur prior to today. No further medical information expected. UPDATE 18 Jun 2019: After further review, Expected? was selected no on the Heartgard Plus product screen.
10-Apr-2019	UAE; 19US018851; AR; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 40 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Feb-2019	10-Apr-2019	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019 the pet owner reported the following event for Bella Marie a 40 pound female canine. All other signalments are unknown. 20 Feb 2019: The pet owner applied the FRONTLINE PLUS DOG 23-44 LBS (UNKNOWN) on the dog. 20 Mar 2019: The dose was repeated. 10 Apr 2019: The owner noticed an unknown amount of fleas on the dog. There are no other pets in the home. It is unknown if there are is any indoor flea activity. The dog does go outside into an unknown environment. The owner was receptive to product education. No further medical information expected.
10-Apr-2019	UAE; 19US018855; FL; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Oatmeal Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Mar-2019	27-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 Apr 2019, the pet owner reported the following issue for a 20 pound, Yorkshire Terrier, all other signalments unknown. 26 Mar 2019: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog for the first time in one area between the shoulder blades for the very first time. The owner has been seeing fleas on the dog every day since application. 8 Apr 2019*: The dog was bathed with an unknown oatmeal shampoo. The owner treats seasonally with different product. The dog goes out for potty breaks and recreation in the grassy area of the yard. The owner bathes the dog once a week with oatmeal shampoo. No history of skin issues. No further information is available.
10-Apr-2019	UAE; 19US018863; CT; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Route not indicated / recommended)	10-Apr-2019	10-Apr-2019	0 Day(s)	D-C	Suspected Adverse Event: On 10 Apr 2019 a pet owner reported the following event for a male dog (all other signalments unknown). 10 Apr 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (unsubstantiated) (lot number unknown) was administered to the dog orally. Immediately following ingestion, the dog became slightly dizzy and began to salivate excessively. The owner gave the dog milk. At the time of the report, 2 to 3 hours after ingestion, the dog's condition had begun to improve. No further medical information expected.
11-Apr-2019	UAE; 19US018926; NC; U.S.A	**Species:** Canine **Breed:** Rottweiler **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 90 - 106 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Flea and tick Shampoo;	01-Jan-2019*	08-Apr-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 11 Apr 2019, the owner reported the following event for 2 unknown male canines, both Rottweilers, weighing between 90-106 pounds, other signalment unknown. 1 Jan 2019: One vial of FRONTLINE PLUS DOG 89-132 LBS (Unknown Lot) was applied topically in between the pet's shoulder blades by the owner. 1 Feb 2019: One vial of FRONTLINE PLUS DOG 89-132 LBS (Unknown Lot) was applied topically in between the pet's shoulder

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					blades by the owner. 1 Mar 2019: Another dose was applied. 1 Apr 2019: One vial of FRONTLINE PLUS DOG 89-132 LBS (Unknown Lot) was applied topically in between the pet's shoulder blades by the owner. 8 Apr 2019: The owner noticed a small amount of fleas on the pets after 3 months of use. The dogs are mostly indoor and goes outside for potty breaks and recreation in a fenced in yard. No indoor fleas seen indoors. The owner treats the yard as well and bathes the dogs in an unknown flea and tick shampoo at an unknown frequency. There are 3 other dogs in the home using FRONTLINE see cases 19US019438. No further medical information expected.
11-Apr-2019	UAE; 19US019005; PA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2007*	02-Feb-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 11 Apr 2019, the owner reported the following event for a Princess, a 13 pound, 12 year old, female, Domestic Longhair, other signalment unknown. 1 Feb 2019: One vial of FRONTLINE PLUS CATS (R40601AW) was applied topically in between the pets ' shoulder blades by the owner. Feb 2019*: The owner noticed a small amount of fleas on the pet after using year round since 2007* . The cat is an only pet and an indoor/outdoor cat. No fleas have been seen inside the home and this is the first incident the owner has seen any parasites on the pet. The owner switched to Advantage recently and noticed fleas on the pet with that product as well. No further medical information expected.
11-Apr-2019	UAE; 19US019043; TX; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 - 12 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	11-Apr-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 11 Apr 2019 the owner reported the following event for two felines weighing between 10 and 12 pounds (all other signalments unknown). April 2018* to 01 Apr 2019: 1 vial from an 8 pack of FRONTLINE PLUS CATS (lot number unknown) was applied between each of the cats' shoulder blades on the first of the month. 11 Apr 2019: Flea dirt and 6-8 fleas were seen on one cat's abdomen. The other cat is black so it's difficult to see fleas on that cat. The owner saw a flea on her desk last week but has not observed any other flea activity in the home. The cats are indoor/ outdoor. It is difficult to determine exactly where they go. No further medical information available.
11-Apr-2019	UAE; 19US019103; -; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Apr-2019	11-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 11 April 2019, the owner reported the following event for Nessa, a 3 year old, 70 pound, intact female Border Collie. 10 April 2019: Nessa was introduced to the home with attached ticks on her and one vial of FRONTLINE PLUS DOG 45-88 LBS (M64104AR) was topically applied. The ticks were left on her body. 11 April 2019: Nessa still had ticks attached on her, the ticks were still left on and it is unknown if they were alive or dead. No further information available.

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12-Apr-2019	UAE; 19US019115; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2019*	30-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 11 Apr 2019, the pet owner reported the following event for a canine all signalments unknown. Jan 2019*: The dog was started on FRONTLINE PLUS DOG (weight and lot unknown) monthly. Lot is unknown because the reporter was not queried. 30 Mar 2019: 1 vial of FRONTLINE PLUS DOG (weight and lot unknown) was applied to the dog in one area between the shoulder blades. The owner has been seeing fleas on the dog since application. 1 Apr 2019*: The dog was bathed in Hartz flea shampoo. There are two other dogs in the home not having an issue with fleas. The dog goes out for potty breaks and recreation on a small farm that has fenced in yard. No history of skin issues. No further information is available.
11-Apr-2019	UAE; 19US019185; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Mar-2018*	11-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 11 Apr 2019 the pet owner reported the following event for an unknown male canine. All other signalments are unknown. *10 Mar 2018: The pet owner started using FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) for the first time. *11 Mar 2018: The pet owner began seeing an unknown amount of fleas. *10 Apr 2018: The pet owner applied another dose and fleas were gone. Owner continued using through the summer and discontinued *10 Nov 2018. 10 Mar 2018: The pet owner applied the most recent dose and first dose of the season. *11 Mar 2019: The pet owner began seeing an unknown amount of fleas. There are no other pets in the home. The owner reports no indoor flea activity is present. The dog goes for walks through the yard and neighborhood on a leash. Owner treated fleas seen this year with an unknown flea bath at an unknown frequency. No further medical information available.
12-Apr-2019	UAE; 19US019262; NC; U.S.A	**Species:** Canine **Breed:** Whippet **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 21.3 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	10-Apr-2019	10-Apr-2019	0 Day(s)	D-B	Suspected Adverse Event:On 12 Apr 2019, the owner reported the following event for the Gabby, a 21.3 pound, 3 year old, female, spayed, Whippet. 10 Apr 2019: One vial of FRONTLINE PLUS DOG 23-44 LBS (M62016BL) was applied topically in between the shoulder blades of the pet by the owner. Approximately 90 minutes after application, the pet had a seizure, where she fell over and stiffened and shook violently per owner. Vet is thinking a Grand Mal Seizure. Patient also reportedly vomited several times over a couple of hours. The pet was presented to the ER clinic where Cerenia was given and bloodwork was performed with some unspecified abnormalities The pet was then taken to her primary vet where she is being observed. Bloodwork was taken and the abnormalities seen on the ER clinic bloodwork have resolved. The patient's HCT is increased, but thought to be due to breed variation. 12 Apr 2019: The pet's symptoms have stopped. Patient is hypertensive in clinic with a systolic blood pressure of 174-182 mmHg. Cause of hypertension is open at this time. No further medical information expected at this time. UPDATE 26 Apr 2019: The Local Assessment screen was completed.

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											UPDATE 18 Jun 2019: After further review, Expected? was selected no on the assessment screen.
12-Apr-2019	UAE; 19US019299; PA; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** M **Sex qualifier:** - **Age:** 2.50 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Mar-2019*	22-Mar-2019*	0 Day(s)	D-D	Suspect Adverse Event: On 12 Apr 2019 a pet owner reported the following event for a 2.5 year old, 15 pound, intact male Terrier mix named Diesel. Feb 2019*: Fleas were seen on the dog. An unknown flea treatment was applied to the dog. 22 Mar 2019*: An unknown amount of fleas were seen on the dog. 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S61017AL) was applied between the dog's shoulder blades. On an unknown date the dog's skin along the back and hind end became reddened and the hair began to fall out. At the time of the report on 12 April 2019, the dog's condition had not improved. The owner is financially unable to present the dog to a veterinarian. The dog does not have a history of drug reactions other than the aforementioned. There is one other dog in household. She shared FRONTLINE with this dog and experienced the same reaction (see case 19US019377). No further medical information expected.
12-Apr-2019	UAE; 19US019309; MD; U.S.A	**Species:** Canine **Breed:** Leonberger **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 106 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Apr-2019	11-Apr-2019	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 12 Apr 2019, the pet owner reported the following event for Gryphon a male intact, 106 pound, 3 year old, Leonberger. 7 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 89-132 LBS (R62309AR) topically between the shoulder blades of Gryphon. 11 Apr 2019: The pet owner noticed 1 live attached tick on the body of Gryphon. 12 Apr 2019: At the time of the report, Gryphon was in good health at time of application. Gryphon was not presented to veterinarian. Gryphon has no history of skin problems or any other issues with topical treatments. Gryphon is indoors and outdoors in invisible fenced yard. The pet owner is unsure if Gryphon has ongoing tick issue. Gryphon has not been bathed. Gryphon has not had contact with any other animals in the home. No further medical information.
12-Apr-2019	UAE; 19US019377; PA; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 10.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Mar-2019*	22-Mar-2019*	0 Day(s)	D-D	Suspect Adverse Event: On 12 Apr 2019 a pet owner reported the following event for a 5 year old, 10 pound, intact non-pregnant, non-lactating female Pomeranian named Squirt. Feb 2019*: Fleas were seen on the dog. An unknown flea treatment was applied to the dog. 22 Mar 2019*: An unknown amount of fleas were seen on the dog. 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S61017AL) was applied between the dog's shoulder blades. On an unknown date the dog's skin along the back and hind end became reddened and the hair began to fall out. At the time of the report on 12 April 2019, the dog's condition had not improved. The owner is financially unable to present the dog to a veterinarian. The dog does not have a history of drug reactions other than the aforementioned. There is one other dog in household. He shared FRONTLINE with this dog and experienced the same reaction (see case 19US019299). No further medical information expected.
12-Apr-2019	UAE; 19US019379; KY; U.S.A	**Species:** Canine **Breed:** Boston Terrier **Sex:** M **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Jan-2019*	02-Feb-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 12 Apr 2019, the owner reported the following event for Max, a 12 year old, 30 pound, Male, neutered, Boston Terrier. 1 Jan 2019*: One vial of the FRONTLINE PLUS DOG 23-44 LBS (R61020) was applied topically as directed by the owner. 1 Feb 2019*: One vial of the FRONTLINE PLUS DOG 23-44 LBS

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 12.00 Year(s) **Weight:** 30 lbs				**used:** AFOXOLANER 28.3 MG CHEWABLE TABLETS; Unknown Oatmeal Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(R61020) was applied topically as directed by the owner. Feb 2019*: Fleas notice on the pets groin and hind area. The pet was presented to the clinic and NEXGARD unknown concentration (product unsubstantiated, expiration and Lot unknown) was given. Mar 2019*: No fleas have been seen on the pet. 12 Apr 2019: The pet is indoor mostly and goes outside for potty breaks and recreation on a leash. Some wildlife in the area. Fleas have been seen continuously for about a month in Feb before switching to NEXGARD. Fleas were seen prior to FRONTLINE treatment for 2 days prior.The pet has dry skin via the owner. No fleas seen within the home. The owner has used a Oatmeal shampoo on the pet recently, unknown frequency of bathing. No further medical information is expected.
12-Apr-2019	UAE; 19US019432; TX; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Nov-2018	12-Apr-2019	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 12 Apr 2019, the pet owner reported the following event for Sully, a 13 year old, 15 pound*, neutered male Domestic Shorthair cat. 21 Nov 2018: The first treatment was applied; with the cat receiving the contents of 1 vial of FRONTLINE PLUS CAT (S40410AW) topically between the shoulder blades, with a 6 doses purchased on an unknown date. The cat is indoors only. The cat is not bathed and does not have any skin issues. The cat's health at the time of the application was good and the cat is not receiving other medications. 12 April 2019: The owner is seeing 10 fleas on the cat on a daily basis. The owner vacuumed the home thoroughly. No further medical information expected.
11-Apr-2019	UAE; 19US019438; NC; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 52 - 70 lbs	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown flea and tick shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2019*	08-Apr-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 11 Apr 2019, the owner reported the following event for 3 unknown canines, weighing between 52-70 pounds, other signalment unknown. 1 Feb 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (S61202AX) was applied topically in between the pet's shoulder blades by the owner. 1 Mar 2019:Another dose was applied. 1 Apr 2019:Another dose was applied. 8 Apr 2019: The owner noticed a small amount of fleas on the pets after 3 months of use. The dogs are mostly indoor and goes outside for potty breaks and recreation in a fenced in yard. No indoor fleas seen indoors. The owner treats the yard as well and bathes the dogs in an unknown flea and tick shampoo at an unknown frequency.The pets began FRONTLINE in Feb 2019*. There are 2 other dogs in the home using FRONTLINE see cases 19US018926. No further medical information expected.
12-Apr-2019	UAE; 19US019460; -; Germany	**Species:** Feline **Breed:** Feline Other **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Hartz Pet Shampoo; **Route:** Topical / Cutaneous **Was the**	20-Feb-2019	05-Apr-2019*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 12 Apr 2019, the pet owner reported the following event for a male neutered, Tabby, 12 year old, 12 pound, other signalment unknown. 20 Feb 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (R40202BW) topically between the shoulder blades of the cat. 17 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades of the cat. 28 Mar 2019*: The pet owner presented the cat to the veterinarian for check up and was the cat was not treated. 5 Apr 2019*: The pet owner noticed the cat with at least 1 tick present on his body.

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						product used ok?: Yes					12 Apr 2019: At the time of the report, the pet owner has bathed cat with Hartz pet shampoo on unknown dates. The cat is mainly indoors and goes outside on patio. The pet owner removed 3 live ticks that were attached to the body of the cat. The cat was in good health at the time of the application. The cat has no history of skin problems or any other issues with topical treatments. The current status of the cat is unknown. No further medical information.
15-Apr-2019	UAE; 19US019520; VA; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 117 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Mar-2019*	14-Apr-2019	5 Day(s)	D-C	Suspected Adverse Event: On 15 Apr 2019, the owner reported the following event for Mellow, 6 years, 117 pounds, neutered male , Pit Bull. March 2019*: The dog started on FRONTLINE PLUS DOG 89-132 LBS (lot unknown) on a monthly basis. 9 Apr 2019: The most recent vial of FRONTLINE PLUS was applied between the shoulder blades, by the pet owner. 12 Apr 2019:The dog was bathed with an unknown pet shampoo. 14 Apr 2019: The dog had a seizure. The pet owner stated that during the seizure the dog urinated on himself. The dog also did not eat or drink the whole day. The dog did not present to clinic and no treatment was done. 15 Apr 2019: The dog is lethargic. The pet owner made an appointment for the dog on Wed of this week. No further medical information is expected.
15-Apr-2019	UAE; 19US019525; PA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Apr-2007*	04-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 15 Apr 2019, the pet owner reported the following event for Myla, an approx. 13 year old, approx. 6 lb neutered female Chihuahua. 4 Apr 2007*: Dog began receiving treatment with FRONTLINE PLUS DOG 5-22 LBS (lot unknown). 4 Apr 2019: Dog received most recent dose of FRONTLINE PLUS DOG 5-22 LBS (S62106AL) (FL) topically between the shoulder blades. A few hours after application the dog began to have episodes of vomiting and diarrhea. No details provided on the number or severity of episodes. 7 Apr 2019: The symptoms resolved and the dog fully recovered. The veterinary clinic was contacted. The dog is in good health outside of the symptoms noted. The dog has received another FRONTLINE brand product in the past and presented with symptoms, see case 19US015976. No further medical information expected.
15-Apr-2019	UAE; 19US019528; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Jan-2019*	06-Mar-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019 the pet owner reported the following event for an unknown 9 year old 85 pound female canine. All other signalments are unknown. *5 Nov 2018: The pet owner noticed fleas on the pet for the first time. *5 Jan 2019: The pet owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S60104AR) to the skin between the shoulder blades for the first time. *5 Feb 2019: Another dose was applied. *5 Mar 2019: The most recent dose was applied. *6 Mar 2019: The owner is noticing over 100 fleas on the dog at any given moment mainly on the back end by the tail. There are no other pets in the home. The owner is noticing some indoor flea activity is present. The dog has access to a fenced in yard with a grassy area and cement area. The dog is still active and has not slowed down with age. No further medical information expected. UPDATE 10 May 2019: The owner reported the following

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											information. *5 Apr 2019: Another dose was applied and owner was still noticing fleas. *5 May 2019: The most recent dose was applied and owner is seeing over 100 fleas all over the pets bosy instead of just at the tail. No further medical information expected.
15-Apr-2019	UAE; 19US019532; CT; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Nov-2018*	20-Feb-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019, the pet owner reported the following event for Izzy a female spayed, 10 year old, 12 pound, Maine Coon Cat/ mixed breed. 1 Nov 2018*: The pet owner applied FRONTLINE PLUS CATS topically between the shoulder blades to the body of Izzy. 23 Jan 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40214AW) topically between the shoulder blades to the body of Izzy. 20 Feb 2019: The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades to the body of Izzy with live fleas. 13 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades to the body of Izzy with 10 fleas seen on her. 15 Apr 2019: At the time of report, Izzy was in good health at time of application. Izzy has not been bathed. Izzy was not presented to veterinarian. The home environment has not treated by pet owner. Izzy is both indoors and outside. The pet owner has not seen fleas in the home. Izzy has no history of skin problems or any other issues with topical treatments. Izzy current status is unknown. No further medical information.
15-Apr-2019	UAE; 19US019540; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Heartworm pills; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2010*	14-Apr-2019	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019 the pet owner reported the following event for an unknown 9 year old female canine. All other signalments are unknown. *1 Apr 2010: The pet owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (product unsubstantiated) (lot unknown) to the skin between the shoulder blades for the first time and continued on a monthly basis year round. *1 Apr 2018: The pet owner started the dog on an unknown heartworm pill on a monthly and year round basis. 1 Apr 2019: The most recent doses were administered. 14 Apr 2019: The pet owner noticed 1 tick alive and attached to the dog and not engorged. The owner removed the tick. The dog did not present to the vet clinic. There are no other pets inside the home. The dog has access to a fenced in area with some shrubbery and trees. No further medical information expected.
15-Apr-2019	UAE; 19US019600; SC; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** flea shampoo; **Route:** Topical / Cutaneous **Was the**	02-Apr-2014*	15-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019 the pet owner reported the following event for an unknown 15 year old female canine. All other signalments are unknown. *2 Apr 2014: The pet owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60714) to the skin between the shoulder blades and administered monthly around the 2nd thereafter. 2 Mar 2019: The owner applied another dose. No fleas were noticed. 15 Mar 2019: The owner began noticing a large amount of fleas each day. 2 Apr 2019: The owner continued seeing fleas and gave the dog a bath with flea shampoo. Owner applied the most recent dose.

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						product used ok?: Unknown to Company					11 Apr 2019: The owner continued seeing fleas and gave another bath. There is 1 indoor/outdoor cat in the home on Advantage with no issues with fleas. The owner is not noticing indoor flea activity. The dog has access to an unfenced front yard. The owner is spraying the dog does with a vinegar and water mix each time she sees a flea. No further medical information expected.
15-Apr-2019	UAE; 19US019617; CO; U.S.A	**Species:** Canine **Breed:** Australian Cattle Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 46 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Prednisone; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Mar-2019*	11-Mar-2019*	N/A	D-D	Suspected Adverse Event and Suspected Lack of Efficacy: On 15 April 2019, the owner reported the following event for Cori, a 7 year old, 46 pound, spayed female Australian Cattle mix breed dog. *11 March 2019: One vial of FRONTLINE PLUS DOG 45-88 (FL) (P61601AR) was applied to the skin between the shoulder blades for the first time. Unknown date:Following the treatment the dog had 1-2 ticks daily which were removed. *18 March 2019: The dog developed sores and hair loss at the application site. 11 April 2019: The dog continued to pick up ticks and one vial of FRONTLINE PLUS DOG 45-88 (FL) (P61601AR) was applied per label. The dog is still picking up 1-2 ticks a day and is exposed to a wooded environment. The dog has been on Prednisone for a year before the application, suffer from GI issues, and was in fair health before the FL application. No further information available.
15-Apr-2019	UAE; 19US019624; CA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 13 - 18 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2019*	09-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019, the owner reported the following event for 2, 6 years old, 13-80 pounds*, neutered males, Domestic Longhair (crossbred). 8 Apr 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by the pet owner to both cats 9 Apr 2019*: The cats had a moderate amount of fleas. The pet owner stated that she combs the cats on a daily basis with a flea comb. Their are no fleas biting the owner or her family. The pet owner did state that she saw fleas on the cats before application. The cats did not present to clinic and no treatment was provided. 15 Apr 2019: The cats still have fleas. No further medical information is expected.
13-Apr-2019	UAE; 19US019690; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Species not indicated / recommended)	13-Apr-2019	13-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 13 Apr 2019, the following event was reported to Safety Call International (SCI) by the veterinarian for Zyla, a 4 year old, 7 pound, spayed female Domestic Shorthair. 13 Apr 2019: The cat received 1/2 tube of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) and 35 minutes later began hypersalivating, having some ear twitching and blinking rapidly. The reporter bathed the cat with palmolive dish soap. It is unknown if the cat recovered. No further medical information expected.
15-Apr-2019	UAE; 19US019692; CA; U.S.A	**Species:** Canine **Breed:** Lhasa Apso	1	1	0	**Product used:** FIPRONIL 10%/S	12-Apr-2019	13-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019, the pet owner reported the following event for Akira, 1 year old, female spayed, Lhasa Apso.

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		Sex: F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					9 Apr 2019: The dog was bathed with an unknown pet shampoo. 12 Apr 2019: 1 vial of FRONTLINE PLUS DOG 45-88 (lot unknown) was applied to the dog in one area between the shoulder blades for the first time. 13 Apr 2019: The dog was scratching and the owner saw 1 flea on the dog and applied half a vial of FRONTLINE PLLUS DOG 45-88 LBS. The dog goes out for potty breaks and recreation in fenced in yard. There is a cat in the home treated with FL+FEL and is not having an issue with fleas. No fleas present in the indoor enviroment. The dog has no history of skin issues.
15-Apr-2019	UAE; 19US019707; CA; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Mar-2018*	15-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019, the pet owner reported the following event for Dougy a male neutered, 15 pound, 3 year old, Maltese/Poodle crossbreed. 15 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topical between the shoulder blades of Dougy on year round basis every month. 15 Mar 2019*: Dougy was bathed with unknown shampoo. An unknown time after the bath, the pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topical between the shoulder blades, it is unknown if pet was completely dry prior to application. The pet owner pulled off a few attached live ticks present on Dougy's body at unknown time later the same day. 15 Apr 2019: At the time of the report, Dougy was not taken to veterinarian. Dougy has no history of skin problems or any other issues with topical treatments. Owner removed 6 live attached ticks off the body of Dougy at unknown time. Dougy is mainly indoor and outside in fenced yard. No further medical information.
15-Apr-2019	UAE; 19US019708; CT; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2014	15-Apr-2019	3 Day(s)	D-D	Suspected Adverse Event: On 15 Apr 2019, the pet owner reported the following event for Henry, 5 year old, 12 pound, male neutered, Domestic Shorthair (Crossbreed). 12 Apr 2019: 1 vial of FRONTLINE PLUS CATS (S40603AW) was applied to the cat in one area between the shoulder blades. 15 Apr 2019: The owner noticed alopecia and a burn at the site of application. The cat has not been seen by the Veterinerian. The cat has been on FRONTLINE since 1 Jan 2014. No further medical information is available.
15-Apr-2019	UAE; 19US019822; MN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	09-Apr-2019*	09-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 April 2019, the owner reported the following event for a cat (signalment unknown). 9 April 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was topically to the cat. Since the application the cat has had 4 ticks that were engorged and removed by the pet owner. The cat has access to the outdoor environment daily. No further information available.

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15-Apr-2019	UAE; 19US019824; WV; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019	02-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019, the owner reported the following event for a feline (all other signalments unknown). 1 Apr 2019 : One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by the pet owner. 2 Apr 2019: The cat had a moderate amount of fleas. The cat did not present to clinic and no treatment was provided. The pet owner stated that fleas are biting her in the home. The cat is strictly indoors. 15 Apr 2019: The cat still has fleas. No further medical information is expected.
15-Apr-2019	UAE; 19US019867; FL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Jan-2019	03-Jan-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019, the owner reported the following event for Galeo, 5 year old, 16 pound, neutered male, Shih Tzu canine. 2 Jan 2019: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (S61412AL) was applied between the shoulder blades. 3 Jan 2019: The fleas issue persisted. The dog has access to fenced yard for short periods of time. 2 Feb 2019, 2 Mar 2019, Apr 2019: Another vial was applied and the fleas issue persisted. The owner found fleas present in the household. 15 Apr 2019: The owner has continued to find up to 2 dozens fleas on the pet daily. No further medical information is expected.
15-Apr-2019	UAE; 19US019892; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 28 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	07-Apr-2019*	09-Apr-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 April 2019, the owner reported the following event for a 28 pound dog (signalment unknown). 7 April 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was topically applied to the skin between the shoulder blades. The fleas went away. 9 April 2019: The fleas returned. The dog is exposed to a fenced in grass yard. The dog has been treated with FL seasonally for an unknown length of time . There is one other treated dog in the home who is also having a flea issue, see case 19US019686. No further information available.
16-Apr-2019	UAE; 19US019959; FL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Calming Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	16-Feb-2019	17-Feb-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 16 Apr 2019, the owner reported the following event for an unknown, 1 year old, male, Chihuahua, Dachshund Mix, all other signalment unknown. 16 Feb 2019: One vial of the FRONTLINE PLUS DOG 5-22 LBS (S61017AL) was applied topically as directed by the owner. 17 Feb 2019: The owner notied a small amount of fleas on the pet. 16 Mar 2019: Another dose was applied. Fleas still present. 16 Apr 2019: Another dose was applied.An increase of fleas still present. The pet is indoor mostly and goes outside for potty breaks and recreation on a leash, Fleas have been seen continuously for about a month, small to moderate amount seen. No fleas seen within the home. The owner has used a Soothing/Calming shampoo on the pet recently, unknown frequency of bathing. No further medical information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						to Company					
16-Apr-2019	UAE; 19US020062; MA; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2018*	09-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 16 Apr 2019, the pet owner reported the following event for Bailey a male neutered, 70 pound, 12 year old, Retriever (Labrador, Yellow) mixed crossbreed. 2 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS topically between shoulder blades of Bailey on seasonal basis during spring and summer months. 2 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60104AR) topically between the shoulder blades to Bailey for first time of season. 9 Apr 2019*: The pet owner noticed 1 live engorged tick and 1 tick that was crawling on the body of Bailey. 16 Apr 2019: At the time of the report,the pet owner has removed one tick off the body of Bailey. Bailey was in good health at time of application. Bailey was not presented to veterinarian. Bailey has no history of skin problems or any other issues with topical treatments. Bailey has not been bathed by pet owner. Bailey is mainly outside for recreational time. The current status of Bailey is unknown. No further medical information.
15-Apr-2019	UAE; 19US020093; WA; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Apr-2019	13-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 Apr 2019, the owner reported the following event for an unknown, male, 80lb canine, all other signalment unknown. 12 Apr 2019: One vial of the FRONTLINE PLUS DOG 45-88 LBS (L64703AR) was applied topically as directed by the owner. Apr 2019*: The Owner noticed a small amount of ticks on the pet.The ticks were embedded and still alive but not engorged. The pet is indoor mostly and goes outside for potty breaks and recreation .The pet has access to a fenced in yard and a rural area where deer have been seen. The owner uses FRONTLINE seasonally, this is the first treatment for the year. No further medical information is expected.
16-Apr-2019	UAE; 19US020094; IL; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 50 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2016*	10-Apr-2019*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 16 Apr 2019 the pet owner reported the following event for Lacy an 11 year old, 50 pound, female spayed Retriever Labrador mix. *1 Apr 2016: The owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (UNKNOWN) to the dog for the first time and repeated on a seasonal basis thereafter. 1 Apr 2019: The pet owner applied the most recent dose for the first time this season. *10 Apr 2019: The owner noticed a tick embedded in her dog's skin, owner brushed the tick out of the skin. The tick was engorged and alive. The owner believes the tick was only on the dog for 1 hour. There is one other pet in the home sharing the FRONTLINE PLUS with no issues or ticks seen. The dog has access to a yard with a large wooded area. The owner has noticed an increase in the tick population in her area over the last year. No further medical information expected.
16-Apr-2019	UAE; 19US020183; FL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Feb-2019	16-Apr-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 16 Apr 2019, the pet owner reported the following event for Duke, a 5-year-old (Born 14 Jan 2014), 27 pound, neutered male Shih Tzu-Miniature Poodle mixed dog. 1 Feb 2019: The first treatment was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 23-44 LBS

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		Weight: 27 lbs				**used:** Natural Flea and Tick Shampoo; unknown product; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(S61401AL) topically between the shoulder blades every month for three months, with 3 doses purchased on an unknown date. The dog is indoors mostly and goes outside for walks and to the dog park only. The dog was bathed using Natural Flea and Tick Shampoo and does not have any skin issues. The dog's health at the time of the application was good and the dog is not receiving other medications. The owner is seeing 1-5 fleas on the dog on a daily basis. The owner vacuumed the home thoroughly and flea bombed the home. No further medical information expected. UPDATE 29 Apr 2019: Upon internal review: Unknown dates: It was noted that the pet owner had noticed fleas on the dog for an unknown period of time prior to FRONTLINE PLUS application. The dog was also dipped in an unknown product prior to receiving FRONTLINE PLUS. The owner also occasionally noticed fleas on the dog. The dog would also scratch and bite, but fleas were not always noticed when the owner examined the dog after the scratching and biting was observed. It's also unknown if the biting and scratching occurred before or after FRONTLINE PLUS was applied; however, an unknown duration following FRONTLINE PLUS application, the pet owner continued to observe fleas on the dog. No further medical information expected.
16-Apr-2019	UAE; 19US020193; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 8 - 10 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Jan-2017*	01-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 16 Apr 2019, the owner reported the following event for 2 female, felines, between the ages of 4 and 18 years*, weighing 8-10 pounds, other signalment unknown. 31 Mar 2019: One vial of FRONTLINE PLUS CATS (S40503AX) was applied topically in between the pets' shoulder blades by the owner. Apr 2019*: The owner noticed a large amount of fleas on the pets. After using the product seasonally, starting this season in January 2019*. The cats are strictly indoor pets. No fleas have been seen inside the home and this is the first incident the owner has seen any parasites on the pet, after using the product seasonally since 2017*. No further medical information expected.
17-Apr-2019	UAE; 19US020220; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Apr-2019*	01-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 17 Apr 2019 the pet owner reported the following event for an unknown 11 year old, 7 pound female canine. All other signalments are unknown. *1 Apr 2019: The pet owner applied ½ vial of FRONTLINE PLUS 5-22 LBS (UNKNOWN) to an unknown location 2-3 times per year for an unknown amount of time. An unknown amount of time before the application the dog gets sick. It lasts for an unknown amount of time after application without getting worse. It is unknown if the dog reports to the vet clinic. It is unknown if the dog recovers. It is unknown if the event occured with the first dose. All other information is unknown as the owner refused to complete the report. No further medical information expected.
17-Apr-2019	UAE; 19US020239;	**Species:** Canine **Breed:** Australian	2	1	0	**Product used:** FIPRONIL	10-Apr-2019*	17-Apr-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 17 Apr 2019, the pet owner reported the following event for Mac a male neutered, 4 year old,

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	MS; U.S.A	Shepherd **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 85 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)					85 pound, Australian Shepherd. 10 Apr 2019*: The pet owner did notice one tick present on the dog's body before application of FRONTLINE PLUS DOG 89-132 LBS (R62309AR) that was removed. It is unknown whether the tick was alive, dead, attached or unattached to the body of Mac. The pet owner applied one dose of FRONTLINE PLUS DOG 89-132 LBS topically between the shoulder blades to Mac. 17 Apr 2019: At the time of the report, Mac was in good health at time of application. Mac was not presented to veterinarian. Mac has no history of skin problems or any other issues with topical treatments. Mac is indoors and outside in fenced yard. The pet owner removed one live attached tick at time of report. Mac does share FRONTLINE PLUS DOG 89-132 LBS with one other dog in the home who does not have tick issue. The current status of Mac is unknown. No further medical information.
17-Apr-2019	UAE; 19US020310; CA; U.S.A	**Species:** Feline **Breed:** Feline Other **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Oct-2018*	10-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 Apr 2019, the pet owner reported the following event for Maggie a female neutered, 4 year old, 10 pound, Feline (Other), Gray Tabby. 1 Oct 2018*: The pet owner applied one dose of FRONTLINE PLUS CATS (R40801AW) topically between the shoulder blades to the body of Maggie. 1 Nov 2018*: The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades to the body of Maggie. 14 Mar 2019*: The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades to the body of Maggie. 10 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS CATS topically between the shoulder blades to the body of Maggie with 20 fleas. 17 Apr 2019: At the time of the report, Maggie was in good health at time of application. Maggie was not presented to veterinarian. The home environment has been treated by pet owner. Maggie has no history of skin problems or any other issues with topical treatments. Maggie is strictly indoors only. The pet owner has seen fleas jumping on her and biting her in the home. Maggie has not been treated with any other products. The current status of Maggie is unknown. No further medical information.
17-Apr-2019	UAE; 19US020375; PA; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	04-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 Apr 2019 the pet owner reported the following event for an unknown 50 pound female Border Collie. All other signalments are unknown. *1 Oct 2018: The pet owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S60620AR) for the first time with no issues. Owner repeated applications on *1 Nov 2018 and *3 Apr 2019. *4 Apr 2019: The owner was still noticing fleas, it is unknown when the owner started seeing fleas for the first time. The owner picked one tick off of the dog that was crawling through the fur and skin . *5 Apr 2019: The owner picked another tick off of the dog that was also crawling through the fur and skin. There are no other pets known in the house. It is unknown if there are any fleas inside the home. The outdoor environment is unknown for the dog. No further medical information expected.
17-Apr-2019	UAE; 19US020378; VA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	17-Apr-2019	17-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 17 Apr 2019, the pet owner reported the following event for Milo, 11 year old, 13 pound, male neutered, Domestic Shorthair (Crossbreed). 17 Apr 2019: FRONTLINE PLUS DOG 45-88 LBS (lot unknown)

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		Sex: M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 13 lbs				9% SPOT ON **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Species not indicated / recommended)					was applied to a dog in the home. The dog shook after the application and the cat was near by and FRONTLINE PLUS got into the cats eyes and mouth. The cats eyes are watering but not excessively. The cat has not been seen by the Veterinerian. No further medical information is available.
17-Apr-2019	UAE; 19US020471; FL; U.S.A	**Species:** Canine **Breed:** Greyhound **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	07-Feb-2019*	07-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 Apr 2019, the pet owner reported the following event for two unknown Greyhounds. Feb 2019*: Owner began using FRONTLINE PLUS 45-88 LBS (lot unknown) (FL), product unsubstantiated. 7 Apr 2019: Fleas were seen on the dogs. Dogs received most recent dose of FL in an unknown manner. On an unknown date following application the dogs were taken to the groomer where flea dirt and 1 fleas was found on each dog. The outdoor habits of the dogs are unknown. Prior to FL the dogs were being treated with Advantix. The pet owner expressed concern with immunity of dogs to the FL product. No further medical information expected.
17-Apr-2019	UAE; 19US020499; NC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 8.4 lbs	11	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Aug-2018*	13-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event:On 17 Apr 2019, the owner reported the following event for the Trouble, an 8.4 pound, male neutered, 1 year old, Domestic Short Hair. 13 Apr 2019: One vial of FRONTLINE PLUS CATS (S41003AW) was applied topically in one location in-between the shoulder blades by the pet owner. The cat had a blister develop the site of application. 16 Apr 2019: The pet's blister had lanced fluid per the owner looks normal again. The pet has been using the product since Aug 2018. No further medical information expected at this time.
18-Apr-2019	UAE; 19US020607; -; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	17-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 18 Apr 2019, a pet owner reported the following event for Belladonna, a 6 year old, 85 pound, female spayed Pit Bull. 1 Jan 2017*: Belladonna began receiving monthly applications of FRONTLINE PLUS DOG (Unknown lot) 1 dose, applied topically to the skin in between her shoulder blades. 16 Apr 2019: The most recent dose was applied. 17 Apr 2019: The owner went to pet Belladonna and noticed a large amount of hair coming off at the application site. She used a babywipe to wipe at the area, and all of the hair started falling out at the site. The skin was red and irritated but did not seem itchy or painful to Belladonna. The patient did not present to the clinic as owner sent a photograph to her DVM and the DVM recommended monitoring and applying Neosporin to the area. Per the owner, Belladonna was in good health at the time of application. She has no history of vaccine reactions. Her current status is ongoing. No further

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											medical information expected.
18-Apr-2019	UAE; 19US020617; CA; U.S.A	**Species:** Feline **Breed:** Ragdoll **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2010*	08-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 18 Apr 2019, the owner reported the following event for Joey, 9 year old, 11 pound, neutered male, Ragdoll feline. 8 Apr 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades by the DVM. Once the pet got home, the cat experienced lethargy, anorexia, and a dazed look. The pet did not present back to the clinic and no treatment was provided. 17 Apr 2019: The cat recovered. The cat also had the same reaction with Advantage on an unknown date. The pet has received FRONTLINE since 8 Apr 2010* with no issue. No further medical information is expected. UPDATE 18 Apr 2019: Per the owner, she also experienced a human reaction to the product 19US020893. No further medical information is expected.
18-Apr-2019	UAE; 19US020652; CA; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 8 - 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Jan-2014*	06-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy: On 18 Apr 2019, the pet owner reported the following event for Uma, 4 year old, 8-10 pound*, female spayed, Siamese. 6 Apr 2019: 1 vial of FRONTLINE PLUS CATS (S40601AX) was applied to the cat in one area between the shoulder blades. The owner has been seeing fleas on the cat everyday since the application. The cat is indoors only. The owner has been treating the cat monthly year round since 2014*. The cat has no history of skin issues and does not get bathed. The owner occasionally wipes the cat down with an unknown cat wipe. There is one other cat in the home having an issue with fleas, see case 19US21830. No further information is expected.
18-Apr-2019	UAE; 19US020697; VT; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 12.4 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Prednisolone 5mg; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2007*	15-Apr-2019	4 Day(s)	D-D	Product Quality: On 18 Apr 2019 the pet owner reported the following issue with a 3 pack of FRONTLINE PLUS CATS (S41108AW). The owner purchased the FRONTLINE PLUS from Amazon Services Inc., order number 1139022211-0894653 on 4 Apr 2019. The owner believes the product is counterfeit because the cat had a reaction for the first time in 12 years of use. The owner applied 1 vial to the cats shoulder blades on 11 Apr 2019 with no obvious defects in the vial. The owner said the product may have been a little greasier than normal but the wet spot seemed the same. The owner reported the product smelled correctly and the vial appeared normal. The owner confirmed the lot number on the blister packaging and green vials was S41108. The owner stated the lot number on the second vial appeared smaller than on the third vial. Owner was unable to compare to the first vial as she disposed of the product. Owner believes the second vial is slightly larger than the third vial. Owner did not remove the vials from the blister packaging. Owner will send in pictures of the invoice, all sides of the packaging, and all sides of the vials inside the blister packaging. The original mailing label and package was disposed of so no return of those items are expected. Owner will send in the invoice and product via a call tag. No further information expected. Suspected Adverse Event: On 18 Apr 2019 the pet owner reported the following event for Elsie a 13 year old 12.4 pound female spayed Feline (unknown). *1 Mar 2007: The owner applied 1 vial of FRONTLINE PLUS CATS (S42208AW) to the skin between the shoulder blades for the first time. The owner repeated monthly doses each season from

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											*Mar through *Nov. 22 Feb 2019: The cat was started on prednisolone 5mg once per day. 4 Apr 2019: The owner ordered a 3 pack from Amazon Services Inc. 11 Apr 2019: The pet owner applied the most recent dose to the cat for the first time this season. 15 Apr 2019: The owner noticed the cat developed a bald spot
18-Apr-2019	UAE; 19US020814; VA; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** - **Age:** 14.00 Month(s) **Weight:** 52 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hylyt; Unknown Rabies; Unknown Distemper; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Jan-2019	18-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 18 Apr 2019, the owner reported the following event for Gabby, 1 year old, 52 pound, intact female, German Shepherd canine. 17 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61608AR) was applied between the shoulder blades. 18 Apr 2019: The dog's fur turned white at the application site. The pet did not present to the clinic and no treatment was provided. The symptoms are still ongoing. Due to a preexisting skin rash, the owner bathed the dog in a medicated shampoo (Hylyt) 15 Apr 2018. The dog has received the FRONTLINE since 17 Jan 2019 with no issue. The dog also received unknown Rabies and Distemper vaccinations on 17 Apr 2019. No further medical information is expected.
18-Apr-2019	UAE; 19US020821; NC; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 6 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019*	01-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 18 Apr 2019, the owner reported the following event for Skylo, a 3 year old, 6 pound, female, spayed, Chihuahua. 1 Apr 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (S61902AL) was applied topically in one location in-between the shoulder blades by the pet owner. Within hours the owner noticed the pet running around and scratching its back on the grass. The pet was not presented to the clinic. 18 Apr 2019*: The pet's symptoms have stopped. The owner uses the product on a seasonal basis. The pet has received the product previously and an unknown date but this is the first time the owner has noticed a reaction. There is another pet in the home using the same dose with no reactions noted per owner. No further medical information expected at this time.
19-Apr-2019	UAE; 19US020824; NY; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 100 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	23-Mar-2019	19-Apr-2019	27 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 19 Apr 2019, the pet owner reported the following event for a 100 pound, male, German Shepherd, all other signalments unknown. 23 Mar 2019: 1 vial of FRONTLINE PLUS DOG 45-88 LBS(lot unknown) was applied to the dog in one area between the shoulder blades. The owner applied a low dose of FRONTLINE PLUS DOG. 19 Apr 2019: The dog is scratching and the owner saw 1-2 fleas on the floor. The owner treats year round monthly with FRONTLINE. The dog has no history of skin issues and has not been bathed recently. No further information expected.

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19-Apr-2019	UAE; 19US020862; IL; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 62.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	03-Apr-2015	18-Apr-2019	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 19 April 2019, the owner reported the following event for Blue, a 4 year old, 62 pound, neutered male Pit Bull. 3 April 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (S62111) was applied to the Blue. 18 April 2019: Blue had one attached tick. Blue has been on FL all his life, he lives in the country and has ticks often. No further information available.
18-Apr-2019	UAE; 19US021003; FL; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** F **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 25 lbs	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Interceptor; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	25-Jan-2019	27-Mar-2019	8 Week(s) 5 Day(s)	D-C	Suspected Adverse Event: On 18 Apr 2019, the owner reported the following event for Dolly, 3 year old, 25 pound, pregnant lactating female Shetland Shepherd (Sheltie). Unknown: The dog started receiving Interceptor on the first monthly and unknown dose of Interceptor. 25 Jan 2019: A little less than a full vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied to the dog in one area between the shoulder blades. Lot is unknown because the package is unavailable. 27 Mar 2019: The dog gave birth to 4 puppies. 1 puppy was born with its brain outside of its skull, 1 puppy was still born and was full of fluid. Both are deceased. The other two puppies are doing well. The mother dog is doing well at the time of the report. The owner had a total of 7 pregnant females who received FRONTLINE. The owner has two other dogs whose puppies had birth defects, see cases 19US021004 19US021005 No further medical information is expected.
18-Apr-2019	UAE; 19US021004; FL; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** U **Sex qualifier:** Unknown **Age:** 0.00 Day(s) **Weight:** Unknown	2	2	2	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Interceptor; **Route:** unknown **Was the product used ok?:** Unknown to Company	25-Jan-2019	29-Mar-2019	9 Week(s)	D-A	Suspected Adverse Event: On 18 Apr 2019, the owner reported the following event for 2 unknown canines Shetland Sheep Dog (Sheltie) (all signalments unknown). 25 Jan 2019: The owner applied an a little less than half of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) to Breezy, 3 year old, 22 pound, pregnant female. 29 Mar 2019: The dog gave birth to a litter. 2 of the puppies from that litter had facial deformities. Both puppies were bloated. The puppies were taken to the emergency clinic and passed away naturally. The owner reported issues with other litters (see cases 19US021003 and 19US021005).The mother dog also received Interceptor once monthly, on the first of the month, year-round for an unknown number of years. No further medical information expected. UPDATE 28Jun2019: On further review of case, changed route of administration to unknown.
18-Apr-2019	UAE; 19US021005; FL; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** U **Sex qualifier:** Unknown **Age:** 0.00 Day(s)	3	3	3	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Interceptor;	25-Jan-2019	16-Apr-2019	11 Week(s) 4 Day(s)	D-A	Suspected Adverse Event: On 18 Apr 2019, the owner reported the following event for 3 canines Sheltland Sheep Dog (Sheltie) (all signalments unknown). 25 Jan 2019: The owner applied a little less than a full vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) to Wish, 4.5 year old, 21 pound, pregnant lactating female, Shetland Shepherd (Sheltie) 1 Apr 2019: The owner gave the mother an unknown dose of

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		Weight: Unknown				**Route:** unknown **Was the product used ok?:** Unknown to Company					INTERCEPTOR. 16 Apr 2019: The dog gave birth. 3 of the puppies from that dog's litter had deformities. Their jaws were not formed properly and had severe cleft palates. They were euthanized. The owner reported issues with other litters (see cases 19US021003 and 19US021004). No further medical information expected. UPDATE 28Jun2019: On further review of case, changed route of administration to unknown.
19-Apr-2019	UAE; 19US021061; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	17-Apr-2019	19-Apr-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 19 Apr 2019, the pet owner reported the following event for a canine , all signalments unknown. 14 Apr 2019: The dog was bathed in dawn dish soap. 17 Apr 2019: 1 vial of FRONTLINE PLUS DOG (product unsubstantiated)(lot unknown) was applied to the dog in one area between the shoulder blades. 19 Apr 2019: 1 flea was seen on the dog. No futher information is available.
19-Apr-2019	UAE; 19US021089; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2018*	01-Apr-2019*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 19 Apr 2019, the owner reported the following event for Delilah, a 1 year old, 7 pound, female, spayed, Domestic Shorthair. 1 Dec 2018*: One vial of FRONTLINE PLUS CATS (S40117AW) was applied topically in between the pets ' shoulder blades by the owner. The owner was gifted this purchase and started treatment in Dec 2018*. 1 Jan 2019*: Another Dose was applied. 1 Feb 2019*: Another Dose was applied. 1 Mar 2019*: Another Dose was applied. Apr 2019*: The owner noticed a small amount of fleas on the pets. After using the product consistently for 4 months. The cat is strictly indoor. No fleas have been seen inside the home. The owner has noticed any wildlife in the area and the cat has no access to the outside. No further medical information expected.
22-Apr-2019	UAE; 19US021107; NY; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2019	18-Apr-2019*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the owner reported the following event for Ralph, a 12 pound, 1 year old, male, neutered, Domestic Shorthair. 8 Apr 2019: One vial of FRONTLINE PLUS CATS (Lot unknown) was applied topically in between the pets ' shoulder blades by the owner. 18 Apr 2019*: The owner noticed 3 ticks on the pet 1 very small and crawling, 1 large and engorged, and the other engorged and still attached on the pet's eyelid. The cat is an indoor/outdoor pets. Ticks have been seen for the past month only. Owner uses FRONTLINE on a year round basis. The last purchase was made 3 months ago. No further medical information expected.
22-Apr-2019	UAE; 19US021117; FL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M	2	1	0	**Product used:** FIPRONIL 10%/S	01-Jan-2015*	23-Mar-2019*	1 Day(s)	D-D	Suspected Adverse Event: On 22 Apr 2019, the owner reported the following event for the Jin, a 14 pound, 13 year old, male, neutered, Shih Tzu and Lhasa Apso Mix.

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		Sex qualifier: Neutered **Age:** 13.00 Year(s) **Weight:** 14 lbs				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					22 Mar 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (Lot Unknown) was applied topically in between the shoulder blades of the pet by the owner. 23 Mar 2019*: The owner noticed skin irritation at the application site similar to a hot spot no hair loss was noted. The pet was presented to the clinic where Neo-Predef with Tetracaine Powder was prescribed. It was also discovered that the pet had an underlying ear infection that was treated with an ear flush and an unknown antibiotic. 27 Mar 2019: The pet has recovered. The pet was diagnosed with Kidney Disease at an unknown date. The pet has used FRONTLINE since he was adopted in 2015*.No further medical information expected at this time.
22-Apr-2019	UAE; 19US021126; CA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** - **Age:** 16.00 Week(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Apr-2019	20-Apr-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the pet owner reported the following event for Gerbin, a 16 week old, approx. 20 lb, intact male Golden Retriever mix. 14 Apr 2019: Dog received one dose of FRONTLINE PLUS DOG 5-22 LBS (S61718AL) (FL) topically between the shoulder blades. On an unknown date the pet owner found 2 live ticks on the dog. The ticks were not attached and were found on the whiskers and on the dog's ear. The dog is out for potty breaks and to play twice a day. The pet owner removed the ticks. No further medical information expected.
22-Apr-2019	UAE; 19US021163; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Jun-2011*	14-Apr-2019	2 Day(s)	D-D	Suspected Adverse Event: On the 22 Apr 2019, a veterinarian reported the following event for Nala, a 14 pound, 8 year old (born 14 Apr 2011), spayed female, Domestic Shorthair. 12 Jun 2011*: The cat started on monthly FRONTLINE PLUS CATS (unknown lot number) with 1 dose applied topically between the shoulder blades without any issues. 12 Apr 2019: The most recent dose was applied topically. 14 Apr 2019:; The pet owner noticed alopecia and very light erythema between the shoulder blades where the FRONTLINE PLUS was applied. 16 Apr 2019: The cat presented to the clinic for an annual physical and the owner mentioned the symptoms. The veterinarian performed a physical exam but did not administer any treatment. The symptoms are ongoing. No further information available at this time.
21-Apr-2019	UAE; 19US021237; -; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Advantix; **Route:** unknown **Was the product used ok?:** Yes	18-Mar-2019	16-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 21 Apr 2019, the pet owner reported the following event via e-mail for a male canine of further unknown signalment. Unknown dates: Unknown FRONTLINE PLUS (lot unknown) (product unsubstantiated) was administered by the reporter on several occasions. The doses, routes, and locations of administration cannot be confirmed; the most recent purchase of unknown FRONTLINE PLUS was a 3 pack, but the place and date of purchase cannot be confirmed. The canine also received other unknown flea control products on various unknown dates. 18 Mar 2019*: The reporter applied an unknown dose of unknown FRONTLINE PLUS to the canine. Like before, the dose, route, and location of administration is unknown. 18 Apr 2019: A second monthly dose of unknown FRONTLINE PLUS was administered to the canine. Likewise, the dose, route,

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											and location of administration is unknown. 19 Apr 2019*: An unknown duration following unknown FRONTLINE PLUS application, the reporter began seeing fleas in her home. The canine is an indoor dog. It's unknown if there are any other pets in the home. No further medical information expected. UPDATE 23 Apr 2019: Per the owner: Louie, a 80 pound, 15 year old*, neutered male Border Collie. 17 Mar 2019: The owner purchased a 3 pack of FRONTLINE PLUS DOG 45-88 (F61101AR) from PetsMart. Louie was administrered 1 dose of FRONTLINE, topically in between the shoulder blades and a spot at the base of the tail on 18 Mar 2019 and 18 Apr 2019. 16 Apr 2019: The owner noticed Louie started itching and licking himself more frequently. She also noticed an unknown amount of fleas in the home and a couple on her pant leg. Louie is an indoor dog that goes out for routine walks and potty breaks. Louie was previously on Advantix prior to starting FRONTLINE. There are no other pets in the home. No other information at this time.
22-Apr-2019	UAE; 19US021240; VA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.50 Year(s) **Weight:** 10.2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	18-Apr-2018*	18-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 22 Apr 2019, the pet owner reported the following event for Cole, a 12.5 year old, 10.2 lb neutered male Domestic Shorthair. Unknown date: The cat began to receive monthly doses of FROTNLINE PLUS CATS (lot unknown). Following the application, the pet owner states that the cat cries. The duration of the event is unknown. The cat received subsequent doses of the FRONTLINE PLUS CATS and the symptom happened each time. 18 Apr 2019: Cat received most recent monthly dose of FROTLINE PLUS CATS (R41206AW) (FL) topically between the shoulder blades. At an unknown time following the application, the cat cried. 20 Apr 2019: The pet owner observed hair around the home and saw that the cat lost fur at the application site. The pet owner stated that the skin in the area looks healthy aside from what looks to be a scratch in the middle. The veterinary clinic was contacted. The general health of the cat is unknown. No further medical information available.
22-Apr-2019	UAE; 19US021252; CA; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Espree flea and tick shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2018*	09-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 April 2019, the owner reported the following event for Luna, a 3 year old, 50 pound, spayed female Siberian Husky. *8 April 2019: The dog fleas and was bathed with Espree flea and tick shampoo, she was allowed to dry, and one vial of FRONTLINE PLUS DOG 45-88 LBS (S60719AX) was applied to the skin between the shoulder blades. *9 April 2019: The dog continued to have fleas in a large quantity. The dog is exposed to cement and to the outdoor environment for walks and leisure time. Luna is treated with FL monthly year round and has been for the past year. No further information available.
22-Apr-2019	UAE; 19US021254; SC; U.S.A	**Species:** Feline **Breed:** Feline (unknown)	1	1	0	**Product used:** FIPRONIL 10%/S	22-Apr-2019*	22-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 22 Apr 2019, the pet owner reported the following event for an unknown feline. 22 Apr 2019*: Cat received an unknown amount of FRONTLINE

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		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					PLUS CATS (lot unknown) (FL) topically in an unknown manner. Following the application, the cat went outside and came back in the home with a red eye. The pet owner was unsure if FL got in the cat's eye or what could have happened. The general health of the cat is unknown. There are 3 other cats in the home. The symptoms are ongoing at this time, no further information.
22-Apr-2019	UAE; 19US021271; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 16.50 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the pet owner reported the following event for Milo, a 16.5 year old, 9 lb male Domestic Shorthair, additional signalment unknown. 29 Mar 2019*: The pet owner applied one dose of FRONTLINE PLUS CATS (lot unknown) (FL) topically in an unknown manner. Week of 15 Apr 2019: Cat was bathed 3 times in an unknown shampoo. The pet owner stated that she has never had a problem with the product in the past, but the date is unknown. The product was applied to prevent the cat from scratching. The pet owner was unsure when fleas were first noticed on the pet. At the time of the report, fleas were on the pet, but not in the home. The cat is indoor only, but lounges near a glass sliding door in the home. The pet owner stated that the home and yard are scheduled to be treated and she has been vacuuming in the home. There is one other cat in the household that still has fleas following application, see case 19US022210. No further medical information expected.
22-Apr-2019	UAE; 19US021275; MD; U.S.A	**Species:** Canine **Breed:** Rat Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 24 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown antibiotic; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	22-Apr-2019*	22-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the pet owner reported the following event for Pie a male neutered, 3 year old, 24 pound,Rat Terrier/Jack Russell crossbreed. 22 Apr 2019: At the time of the report, the pet owner stated that she applied unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown). The pet owner perceived to see 1 deer tick on the body of Pie post application of the FRONTLINE PLUS DOG 5-22 LBS. The pet owner stated that she applied product 2/3 to one spot and applied the remaining 1/3 of product down to base of Pie's tail. It is unknown whether this is first time Pie has recieved FRONTLINE PLUS DOG 5-22 LBS product or has been applied to Pie previously. It is unknown if tick was dead, alive, attached or unattached. The current status of Pie is unknown. The pet owner stated that Pie has been lyme positive since 6 months old and he has received unknown antibiotic on unknown dates. No further medical information.
22-Apr-2019	UAE; 19US021349; AR; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	19-Apr-2019*	20-Apr-2019*	1 Day(s)	D-D	Suspected Adverse Event: On 22 Apr 2019, the owner reported the following event for a feline (all other signalments unknown). 19 Apr 2019*: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 20 Apr 2019*: The cat became lethargic and unalert. The pet did not present to the clinic and no treatment was provided. 22 Apr 2019: Symptoms are still ongoing. The dog also experienced a lack of efficacy with the product (see case 19US022055). No further medical information is expected.

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						Was the product used ok?: Yes					
22-Apr-2019	UAE; 19US021351; CA; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	18-Apr-2012*	18-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 22 Apr 2019, the pet owner reported the following event for Chance a male neutered, 8 year old, 14 pound, Shih Tzu. 18 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 89-132 LBS (G62201AR) topically between the shoulder blades of Chance. 18 Apr 2019*: The pet owner noticed that Chance vomited twice after application. 22 Apr 2019: At the time of the report, Chance was in good health at time of application. Chance was not presented to veterinarian. Chance has no history of skin problems or any other issues with topical treatments. Chance has not received any other products at the same time as the FRONTLINE PLUS DOG 89-132 application. The pet owner reported that Chance has had FRONTLINE PLUS DOG 89-132 previously in 2012. The pet owner reported that Chance vomited four times today. Chance is currently at home with ongoing issue. No further medical information.
22-Apr-2019	UAE; 19US021363; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Earthbath Shampoo; Flea Rid Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Mar-2019	23-Mar-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the pet owner reported the following event for Payla a female neutered, 11 year old, 8 pound, Chihuahua. 22 Mar 2019: The pet owner bathed Payla with Earthbath Shampoo and Flea Rid Pet Shampoo. The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61203AX) topically between the shoulder blades of Payla. 23 Mar 2019: The pet owner continued to see 1-5 live fleas on the body of Payla. 22 Apr 2019: At the time of the report, Payla was in good health at time of application. Payla was not presented to veterinarian. The pet owner has seen fleas jumping on her spouse in the home. The home environment has been treated by pet owner. Payla has no history of skin problems or any other issues with topical treatments. Payla is indoors and outside for bathroom breaks. No further medical information.
22-Apr-2019	UAE; 19US021377; OR; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 16.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Apr-2019	17-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the owner reported the following event for Vergil, a 10 pound, male, neutered, 16 year old, Domestic Shorthair. 16 Apr 2019: One vial of FRONTLINE PLUS CATS (S41110BW) was applied topically in between the pets ' shoulder blades by the owner. Apr 2019*: The owner noticed a large amount of fleas on the pets. After moving in to a new apartment where the landlord previously had pets that were untreated. The cat is strictly indoor. Fleas have been seen inside of the home and an increasing amount has been seen. This is the first incident the owner has seen any fleas on the pet. The owner was gifted FRONTLINE by his landlord due to the fleas being seen in the home prior to the owner renting the apartment. No further medical information expected.
22-Apr-2019	UAE; 19US021380; ME; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	01-Oct-2018*	15-Apr-2019*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the pet owner reported the following event for Brady a male neutered, 79 pound, 3 year old, Retriever (Labrador, Yellow). 1 Oct 2018*: The pet owner applies FRONTLINE PLUS DOG

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Neutered **Age:** 3.00 Year(s) **Weight:** 79 lbs				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					45-88 LBS topically between the shoulder blades of Brady on seasonal basis from March through October. 29 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S62202AX) topically between the shoulder blades of Brady. 15 Apr 2019*: The pet owner found 1 live tick crawling on the body of Brady. 22 Apr 2019: The pet owner continued to see 1 live tick that was engorged on the body of Brady. At the time of the report, Brady was in good health at time of application. Brady was not presented to veterinarian. Brady has not been bathed. The home environment has been treated by pet owner. Brady is indoors and go outside for recreational time. Brady has no history of skin problems or any other issues with topical treatments. The current status of Brady is unknown. No further medical information.
22-Apr-2019	UAE; 19US021395; HI; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** Neutered **Age:** 5.50 Year(s) **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN CHEWABLE 272 MCG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Apr-2018*	18-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the pet owner reported the following event for Pili a male neutered, 5.5 year old, 65 pound, Boxer. 18 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS (S60502AX) topically between the shoulder blades of Pili on a year round basis every month. 11 Apr 2019: The pet owner bathed Pili with Johnson Baby Shampoo. 18 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades of Pili with 5-10 live fleas on his body. 19 Apr 2019: The pet owner continued to see 5-10 live fleas on the body of Pili. 22 Apr 2019: At the time of the report, Pili was in good health at time of application. Pili was not presented to veterinarian. The home environment has been treated by pet owner. Pili has no history of skin problems or any other issues with topical treatments. Pili is indoors and outside for walks at the park. The pet owner stated that Pili has had issue in the past with unknown heartworm preventative on unknown dates. The pet owner aslo administers unknown amount of HEARTGARD CHEWABLE (lot number unknown, expiration unknown) orally to Pili on the 18th of every month. The current status of Pili is unknown. The pet owner has not seen fleas in the home. No further medical information.
22-Apr-2019	UAE; 19US021399; NJ; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 54 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	30-Nov-2018*	22-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 22 Apr 2019, the pet owner reported the following event for Chacha, a 54 pound, 9 month old, intact female, Golden Retriever. 21 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) was applied in a line down the pet's back. 22 Apr 2019: The pet began coughing and dry heaving upon waking up from sleeping. The pet was examined by the attending veterinarian. The veterinarian recommended using Pepto-Bismol for treatment of the symptoms, but the pet has not received any treatment. The pet experienced coughing and dry heaving after being examined by the veterinarian. The pet was treated with FRONTLINE PLUS on a previous unknown date in Nov 2018 with no adverse symptoms. The pet previously experienced itching after receiving an unknown vaccination on an unknown date. No further medical information available at this time.

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22-Apr-2019	UAE; 19US021403; FL; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Nov-2018*	22-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 April 2019, the owner reported the following event for Jackson, a 14 year old, 18 pound, neutered male Poodle (miniature). 19 April 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (S6178AL) was topically applied to the skin between the shoulder blades. 22 April 2019: The dog had five fleas. Jackson has been on FL for the past 6 months and has experienced fleas since starting FL. He does have access to the grass daily and there are no fleas in the home. There are two cats treated with Advantage. No further information available.
22-Apr-2019	UAE; 19US021405; FL; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Nov-2018*	22-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019 the pet owner reported the following event for Logan a 9 year old, 50 pound, male neutered Large crossbred (>20 Kg). *20 Nov 2018: The owner applied 1 vial FRONTLINE PLUS DOG 45-88 LBS (S61810AX) to the skin between the shoulder blades for the first time. Owner is unsure what dates of application were for Nov, Dec, and Jan but knows she was not on time each month. *22 Feb 2019: The owner noticed fleas on the dog and realized she was late applying the FRONTLINE PLUS. 24 Feb 2019: The owner purchased a 3 pack and applied another dose. 24 Mar 2019: The owner applied the most recent dose. 25 Mar 2019: The owner was still noticing 10-20 fleas. There is 1 other dog in the home using FRONTLINE PLUS with case 19US021402. The owner has noticed indoor flea activity inside the home. The dog is leash walked through the grass at the apartment complex. No further medical information expected. UPDATE 30 Apr 2019: Per owner another vial was applied on 23 Apr 2019 and the fleas issue is still ongoing. No further medical information expected.
24-Apr-2019	UAE; 19US021409; WY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	15-Apr-2019	15-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the pet owner reported the following event for an unknown number of canines. 15 Apr 2018: Dogs received one dose of unknown FRONTLINE PLUS DOG (lot unknown) (FL), product unsubstantiated. Since the application the pet owner as continued to find fleas on the dogs. This is the first application of FL, but another unknown product is used 6 months out of the year. The dogs go out into an unknown environment and come in with fleas. There are a total of 12 animals in the household, species unknown, and it is unknown if they are all treated. No further medical information expected.
22-Apr-2019	UAE; 19US021448; OH; U.S.A	**Species:** Canine **Breed:** Bernese Mountain Dog **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 105 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	01-Apr-2018*	02-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 April 2019, the owner reported the following event for a 105 pound female Bernese Mountain Dog, all other signalment unknown. *1 April 2019: One vial of FRONTLINE PLUS DOG 89-132 LBS (M62512AR) was topically applied to the skin between the shoulder blades. On an unknown date, the dog started having engorged ticks that the owner removed. The dog is exposed to a high tick population environment and has had FL in the past. No further information

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					available.
22-Apr-2019	UAE; 19US021455; MI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	18-Apr-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019 the pet owner reported the following event for Chloe an 11 year old, 11 pound, female spayed Domestic Shorthair (Crossbreed). *1 Mar 2018: The owner applied 1 vial of FRONTLINE PLUS CATS (S40901AW) to the skin between the shoulder blades for 6 months then discontinued use for winter. *28 Dec 2019: The owner had an untreated visiting dog spend the day at her house *25 Jan 2019: The owner noticed the cat began scratching and noticed fleas on the cat. 8 Feb 2019: The owner applied the first dose of the season and continued on 8 Mar 2019 and 8 Apr 2019. 18 Apr 2019: The owner noticed the cat began scratching again and owner notice an unknown amount of fleas. There are no other pets in the home. The cat is an indoor only cat. The owner noticed some flea activity inside of the home. No further medical information expected.
22-Apr-2019	UAE; 19US021457; MI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	22-Apr-2019*	22-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 22 April 2019, the owner reported the following for a cat (signalment unknown). 22 April 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat. After the application the cat licked the site of application and started to drool. The owner declined the report. No further information available.
20-Apr-2019	UAE; 19US021460; ME; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 7.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Methimazole 7.5 mg; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2018*	20-Apr-2019	1 Day(s)	D-C	Suspected Adverse Event: On 20 Apr 2019 the following event was reported to Safety Call International (SCI) by the pet owner for Blacat a 14 year old, 7.5 pound, female spayed, Domestic Longhair (Crossbreed) mixed with Maine coon cat. *1 Oct 2018: The owner applied an unknown amount of FRONTLINE PLUS CATS (S40410AW) to the cat for the first time with no issues. *2019: The cat was started on Methimazole 7.5 mg once a day on an unknown date. 19 Apr 2019: The owner applied another dose around 8 pm EST. 20 Apr 2019: The cat had a seizure at 7 am EST that lasted 1 minute. The cat's post ictal period lasted no more than 10 minutes and included hypersalivation. The cat did not present to the vet clinic. It is unknown if the cat recovered. Two weeks prior to this incident the cat had a complete blood count and chemistry performed that were within normal limits. No further medical information expected.
22-Apr-2019	UAE; 19US021474;	**Species:** Canine **Breed:** Retriever	1	1	0	**Product used:** FIPRONIL	16-Apr-2014*	18-Apr-2019	2 Day(s)	D-C	Suspected Adverse Event: On 22 Apr 2019, the owner reported the following event for Lady, 5 year old, 56 pound, spayed female,

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	PA; U.S.A	(Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 56 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Golden Retriever mix canine. 16 Apr 2014*: One vial of FRONTLINE PLUS 45-88 LBS (lot unknown) was applied between the shoulder blades. The dog experienced whelps over the body. The dog recovered after an unknown period of time. 16 Apr 2019*: One vial of FRONTLINE PLUS DOG ("Lot #"-delete) was applied between the shoulder blades. 18 Apr 2019: The dog's face and eyes became slightly swollen. 22 Apr 2019: The pet's face was completely swollen. The owner presented the pet to the clinic and the attending veterinarian adminstered Benadryl and a steroid injection. 22 Apr 2019: Symptoms have improved but are still ongoing. No further medical information is expected.
23-Apr-2019	UAE; 19US021485; MN; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Apr-2019	22-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 23 Apr 2019, the pet owner reported the following event for Mason, 11 pound, 5 year old, male neutered Maltese. 21 Apr 2019: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) to the dog in one area between the shoulder blades for the first time. 22 Apr 2019: The dog vomited once and recovered. The owner bathed the dog in Hartz shampoo to remove FRONTLINE. 23 Apr 2019: The dog is lethargic. The dog is licking and salivating excessively. The dog is eating and drinking. The dog has not been seen by the Veterinarian. No further medical information is available at this time.
23-Apr-2019	UAE; 19US021545; TX; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	04-Apr-2018*	23-Apr-2019	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019, the pet owner reported the following event for Smoochy a male neutered, 11 year old, 22 pound, Dachshund/Spaniel mix. 4 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 23-44 LBS (S62308AW) topically between the shoulder blades of Smoochy on year round basis every month. 4 Apr 2019: The pet owner applies FRONTLINE PLUS DOG 23-44 LBS topically between the shoulder blades of Smoochy. 23 Apr 2019: At the time of the report, Smoochy was in good health at the time of application. The pet owner stated that Smoochy has sensitive skin. The pet owner reported that unknown amount of fleas were still being seen on the body of Smoochy. It is unknown when fleas were first seen on the body of Smoochy. The pet owner has not treated the home environment. The pet owner stated that Smoochy is bathed once a week every Sunday with unknown shampoo. Smoochy has no history of skin problems or any other issues with topical treatments. Smoochy has no problems with other medications. The current status of Smoochy is unknown. No further medical information.
23-Apr-2019	UAE; 19US021580; NY; U.S.A	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used**	23-Apr-2019*	23-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 23 Apr 2019, the pet owner reported the following event for a feline, other signalment unknown. Unknown dates: It is unknown whether FRONTLINE PLUS CATS was used prior to adverse event or after adverse event. 23 Apr 2019: At the time of the report, the pet owner stated that his cat had skin irritation at application site with approximately 1 inch of hair loss. The current status of the cat is unknown. No further medical information.

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						ok?: Unknown to Company					
23-Apr-2019	UAE; 19US021593; OR; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 65 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2018*	23-Apr-2019	8 Day(s)	D-D	Product quality: On 23 Apr 2019 the pet owner reported the following event for two 6 packs of FRONTLINE PLUS DOG 45-88 LBS (S62202AX). Owner purchased the product from Amazon.com, seller was Amazon.com Services Inc. The product was ordered on 12 Apr 2019 and delivered 15 Apr 2019. The owner applied 1 vial on her 2 dogs and believes the product is counterfeit due to finding ticks on the dogs. The product looked like the product she normally purchases. The lot numbers on the box and blister packaging do match. The owner does not have the packaging that the product arrived in as it was disposed of on the day of the shipment. Owner will send in pictures of the box, blister packaging and vials. Owner will send product via call tag. Owner has 2 other products affected with case number 19US021599 and 19US21601. No further information expected. Suspected Lack of Efficacy: On 23 Apr 2019 the pet owner reported the following event for two unknown 65 pound Large crossbred (>20 kg). All other signalments are unknown. *15 Apr 2018: The pet owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S62202AX) to the skin between the shoulder blades and repeated each month thereafter. 12 Apr 2019: The pet owner ordered two 6 packs from Amazon.com services Inc. 15 Apr 2019: The pet owner received the order and applied the most recent dose. 23 Apr 2019: The pet owner found 1 tick on each of the dog's ears. The tick was alive and embedded but not engorged. The owner removed the tick. The owner is unsure if there are more ticks. There are 2 other dogs in the home using FRONTLINE PLUS with case number 19US021599 and 19US021601. The dogs have access to property in the country. No further medical information expected. UPDATE 24 Apr 2019: Received and attached photos. 28-May-19 QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 9% SPOT ON Lot # S62202AX, expiry UNKNOWN. Case investigated by USA - Duluth. Gotrack complaint closed on 2019-05-28. A product
23-Apr-2019	UAE; 19US021599; OR; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 100 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2018*	23-Apr-2019	8 Day(s)	D-D	Product quality: On 23 Apr 2019 the pet owner reported the following event for a 6 pack of FRONTLINE PLUS DOG 89-132 LBS (R62114AR). Owner purchased the product from Amazon.com, seller was Amazon.com Services Inc. The product was ordered on 12 Apr 2019 and delivered 15 Apr 2019. The owner applied 1 vial on her dog and believes the product is counterfeit due to finding ticks on the dog. The product looked like the product she normally purchases. The lot numbers on the box and blister packaging do match. The owner does not have the packaging that the product arrived in as it was disposed of on the day of the shipment. Owner will send in pictures of the box, blister packaging and vials. Owner will send product via call tag. Owner has 2 other products affected with case number 19US021593 and 19US21601. No further information expected. Suspected Lack of Efficacy: On 23 Apr 2019 the pet owner reported the following event for an unknown 100 pound Large

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											crossbred (>20 kg). All other signalments are unknown. *15 Apr 2018: The pet owner applied 1 vial of FRONTLINE PLUS DOG 89-132 LBS (R62114AR) to the skin between the shoulder blades and repeated each month thereafter. 12 Apr 2019: The pet owner ordered a 6 pack from Amazon.com services Inc. 15 Apr 2019: The pet owner received the order and applied the most recent dose. 23 Apr 2019: The pet owner found 1 tick on the dog's ears. The tick was alive, embedded and engorged. The owner removed the tick. The owner is unsure if there are more ticks. There are 3 other dogs in the home using FRONTLINE PLUS with case number 19US021593 and 19US021601. The dogs have access to property in the country. No further medical information expected. 31-May-19 QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 9% SPOT ON Lot # R62114AR, expiry UNKNOWN. Case investigated by USA - Duluth. Gotrack complaint closed by on 2019-05-31. This is the first complaint for suspected counterfeit product for Frontline Plus Dog
23-Apr-2019	UAE; 19US021601; OR; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 40 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2018*	23-Apr-2019	8 Day(s)	D-D	Product quality: On 23 Apr 2019 the pet owner reported the following event for a 3 pack of FRONTLINE PLUS DOG 23-44 LBS (S61009AL). Owner purchased the product from Amazon.com, seller was Amazon.com Services Inc. The product was ordered on 12 Apr 2019 and delivered 15 Apr 2019. The owner applied 1 vial on her dog and believes the product is counterfeit due to finding ticks on the dog. The product looked like the product she normally purchases. The lot numbers on the box and blister packaging do match. The owner does not have the packaging that the product arrived in as it was disposed of on the day of the shipment. Owner will send in pictures of the box, blister packaging and vials. Owner will send product via call tag. Owner has 2 other products affected with case number 19US021593 and 19US21599. No further information expected. Suspected Lack of Efficacy: On 23 Apr 2019 the pet owner reported the following event for an unknown 40 pound Medium crossbred (10 - 20 kg). All other signalments are unknown. *15 Apr 2018: The pet owner applied 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S61009AL) to the skin between the shoulder blades and repeated each month thereafter. 12 Apr 2019: The pet owner ordered a 3 pack from Amazon.com services Inc. 15 Apr 2019: The pet owner received the order and applied the most recent dose. 23 Apr 2019: The pet owner found 1 tick on the dog's ears. The tick was alive, embedded and engorged. The owner removed the tick. The owner is unsure if there are more ticks. There are 3 other dogs in the home using FRONTLINE PLUS with case number 19US021593 and 19US021599. The dogs have access to property in the country. No further medical information expected. 28-May-19 QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 9% SPOT ON Lot # S61009AL, expiry UNKNOWN. Case investigated by USA - Duluth. Gotrack complaint closed on 2019-05-28.

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											A product quality complaint for FRONTLINE PLUS DOG M batch was received by BIAH QA
23-Apr-2019	UAE; 19US021603; OH; U.S.A	**Species:** Canine **Breed:** Boston Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 31 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Waho Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019	23-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 23 Apr 2019, the pet owner reported the following event for Sannie a female spayed, 6 year old, 31 pound, Boston Terrier. 23 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS (S61009AL) topically between the shoulders blades of Sannie. At the time of the report, Sannie was in good health at time of application. The pet owner stated that vomiting, diarrhea, and shaking started around 2:30am* today. Sannie has no history of skin problems or any other issues with topical treatments. Sannie was not presented to veterinarian. Sannie has no history of drug or vaccine reactions. Sannie has been bathed with Waho shampoo. Sannie has not received any other products at the same time as the FRONTLINE PLUS DOG 23-44 LBS application. Sannie is currently at home recovered. No further medical information.
23-Apr-2019	UAE; 19US021620; WV; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 70 lbs	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown allergy medication; fish oil; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Apr-2019*	10-Apr-2019	0 Day(s)	D-C	Suspected Adverse Event: On 23 April 2019, the owner reported the following event for Tank, a 4 year old, 70 pound, neutered male Pit Bull/ Bull Dog mix. 10 April 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was topically applied to the skin between the shoulder blades for the first time. Within 15-20 minutes the dog was trembling and couldn't walk or stand. The owner called the emergency clinic and was told to wash the dog with Dawn and she did. 11 April 2019: Tank condition remained the same, the owner took him to the vet where he received a steroid shot and other steroids to take home. 21 April 2019: Tanks eye duct is protruding out. He hasn't been seen by the vet in regards to his latest symptoms and the owner is monitoring his condition. Tank has been on fish oil and an unknown all natural allergy medication for a month with no issues. There are 4 other treated dogs in the home who did not have a reaction. No further information available.
23-Apr-2019	UAE; 19US021642; FL; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 3 - 5 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Flea and Tick Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Mar-2018*	03-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019 the pet owner reported the following event for 2 unknown 3-5 pound, Yorkshire Terriers. All other signalments are unknown. *27 Mar 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (P61525AL) to the skin between the shoulder blades of each dog and continued on a monthly and year round basis thereafter. 27 Mar 2019: The owner applied the most recent dose. No fleas were seen. *3 Apr 2019: The owner discovered hundreds of fleas on each dog and in the home and gave an unknown flea and tick bath. *17 Apr 2019: The owner continued to see hundreds of fleas and gave another bath. There are 6 other dogs in the home using FRONTLINE PLUS and seeing fleas with case numbers 19US022214, 19US022215, 19US022216, and 19US022219. The dogs are mostly indoors and have access to acres of land with a fence. There is large amounts of flea activity present inside of the home despite the house being bombed at an unknown date. No further medical information expected.

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23-Apr-2019	UAE; 19US021694; CA; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 35 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown flea shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2019*	18-Apr-2019	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019, the owner reported the following event for the unknown canine, 35 pounds, female, spayed, 11 year old, Poodle. 1 Apr 2019: One vial of FRONTLINE PLUS DOG 23-44 LBS (S61202) was applied topically in between the pets' shoulder blades by the owner. 18 Apr 2019: The owner noticed a small amount of fleas on the pet by her hind end. The pet is indoor/outdoor and has access to a fenced in yard. No wildlife is seen in within the area. No fleas have been seen inside the home and no visiting pets. The owner is also bathing the pets in an unknown flea shampoo and groomed every other week. No further medical information expected.
23-Apr-2019	UAE; 19US021705; CA; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 43 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Mar-2018*	16-Apr-2019	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019, the pet owner reported the following event for Kenda, a 10 year old, 43 lb, neutered male Australian Shepherd mix Mar 2018*-28 Mar 2019*: Pet received monthly doses of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) (FL) topically between the shoulder blades. 16 Apr 2019: Pet owner stated to notice fleas on the dog and in the home. The pet owner also stated the members in the household have been getting bites as well. The dogs are mostly indoors. The amount of flea activity on the dog is unknown. There is another dog in the household that continued to have fleas after FL application, see case 19US022727. No further medical information expected.
23-Apr-2019	UAE; 19US021722; VA; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 12.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	20-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 23 Apr 2019 the owner reported the following event for Sammie, 8 year old, 12.5 pound, neutered male, Shih Tzu mix canine. 19 Apr 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (S62502AW) was applied between the shoulder blades. 20 Apr 2019: The dog experienced vomiting and anorexia. 21 Apr 2019: The dog experienced loose stool. The pet has not presented to the clinic and no treatment was provided. No further medical information is expected.
23-Apr-2019	UAE; 19US021737; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Dog shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	11-Apr-2019*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019 a pet owner reported the following event with a male canine between 45 and 88 pounds and unknown other signalment. 30 Mar 2019*: The dog was bathed in dog shampoo. 1 Apr 2019*: Owner applied 1 vial FRONTLINE PLUS DOG 45-88 LBS (lot unknown) topically between the shoulder blades. 11 Apr 2019*: Owner started seeing fleas on the dog. Reports she saw one at first, but then the amount increased as the days passed. The owner has also seen fleas jumping onto the humans in the home. 17 Apr 2019*: Owner used a flea bomb in the home, but is still seeing fleas. The owner reports she has been using the product for at least a year monthly and has never seen fleas before. The dog goes outside for bathroom breaks. There are three indoor only cats in

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											the home who also have fleas, are on FRONTLINE PLUS, and have their own case: 19US021800. No further medical information expected.
23-Apr-2019	UAE; 19US021757; OR; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 12 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Espreenatural Shampoo; Unknown conditioning rinse; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Route not indicated / recommended)	25-Mar-2018*	25-Mar-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019, the pet owner reported the following event for Toby a male neutered, 8 year, 12 pound, Shih Tzu/ small crossbreed. 25 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topically between the shoulder blades and at the base of the tail to Toby on year round basis every month. 25 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades and at the base of the tail to Toby with 1-5 live fleas. 27 Mar 2019*: Toby was bathed with Espreenatural Shampoo. Toby receives unknown conditioning rinse following bath. 23 Apr 2019: At the time of the report, Toby was in good health at time of application. Toby was not presented to veterinarian. The pet owner stated that FRONTLINE PLUS DOG 5-22 LBS application only last about 3 weeks. The home environment has not been treated by pet owner. The pet owner has been bitten by fleas in the home. Toby has no history of skin problems or any other issues with topical treatments. Toby is indoors and outside for walks. The current status of Toby is unknown. Toby does share FRONTLINE PLUS DOG 5-22 LBS with one other dog in the home with case number 19US021816. No further medical information.
23-Apr-2019	UAE; 19US021774; AR; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 14.5 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Apr-2014*	16-Apr-2019*	4 Week(s) 6 Day(s)	D-D	Suspected Adverse Event: On 23 Apr 2019, the owner reported the following event for Martin, 6 years old, 14.5 pounds, male neutered, Yorkshire Terrier. 2014*: The dog started using FRONTLINE PLUS DOG (lot unknown) on a monthly basis year round. 13 March 2019: One vial of FRONTLINE PLUS DOG 5-22 (R60525) was applied between the shoulder blades, by the pet owner 16 Apr 2019*: The dog had fur lost at the application site. 23 Apr 2019*: The dog present to clinic and an unknown amount of a steroid injection was given to the dog. There is another dog in the household that is on the same product and weight category but did not have a reaction to the product. No further medical information is expected.
22-Apr-2019	UAE; 19US021775; NY; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2018*	01-Dec-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 22 Apr 2019, the owner reported the following event for Logan, 3 year old, 5 pound, neutered male, Maltese canine. 1 Nov 2018*: One vial of FRONTLINE PLUS DOG 5-22 LBS (Lot unknown) was applied between the shoulder blades. The dog experienced a burn at the application site. 2 Nov 2018*: The dog recovered. 1 Dec 2018*: Another vial was applied. The same symptoms presented. The pet did not present to the clinic and no treatment was provided. 2 Dec 2018*: The dog recovered. No further medical information is expected.
23-Apr-2019	UAE; 19US021800; -; U.S.A	**Species:** Feline **Breed:** Feline (unknown)	3	3	0	**Product used:** FIPRONIL 10%/S	02-May-2004*	12-Apr-2019*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019 a pet owner reported the following event for three cats of unknown signalment. 1 Apr 2019*: Owner applied 1 vial FRONTLINE PLUS CATS (lot

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		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					unknown) topically between the shoulder blades. 12 Apr 2019*: Owner started seeing fleas on the cats. Reports she saw one at first, but then the amount increased as the days passed. The owner has also seen fleas jumping onto the humans in the home. 17 Apr 2019*: Owner used a flea bomb in the home, but is still seeing fleas. The owner reports she has been using the product for at least a year monthly and has never seen fleas before. There is one dog in the home that goes outside for bathroom breaks, is on FRONTLINE PLUS and has fleas, and has his own case: 19US021737. No further medical information expected. UPDATE 2 May 2019: Upon internal review, it was found that case 19US021714 is a duplicate of this report and the additional information reported in case 19US021714 is as follows: Unknown dates: The cats have previously received FRONTLINE PLUS CATS monthly on unknown dates for 15 years. No further medical information expected.
23-Apr-2019	UAE; 19US021816; OR; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Espreenatural Shampoo; Unknown conditioning rinse; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Route not indicated / recommended)	25-Mar-2018*	25-Mar-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019, the pet owner reported the following event for Tassy a female neutered, 4 year, 12 pound, Shih Tzu. 25 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topically between the shoulder blades and at the base of the tail to Tassy on year round basis every month. 25 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades and at the base of the tail to Tassy with 1-5 live fleas. 27 Mar 2019*: Tassy was bathed with Espreenatural Shampoo. Tassy receives unknown conditioning rinse following bath. 23 Apr 2019: At the time of the report, Tassy was in good health at time of application. Tassy was not presented to veterinarian. The pet owner stated that FRONTLINE PLUS DOG 5-22 LBS application only last about 3 weeks. The home environment has not been treated by pet owner. The pet owner has been bitten by fleas in the home. Tassy has no history of skin problems or any other issues with topical treatments. Tassy is indoors and outside for walks. The current status of Tassy is unknown. Tassy does share FRONTLINE PLUS DOG 5-22 LBS with one other dog in the home with case number 19US021757. No further medical information.
05-Jun-2019	UAE; 19US021828; FL; U.S.A	**Species:** Canine **Breed:** Lakeland Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 24 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Mar-2019	02-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 Apr 2019, the pet owner reported the following event for Tova, a 10-year-old*, 24 pound, neutered male Lakeland Terrier dog. 2 Mar 2019: The first treatment was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S62308AW) topically between the shoulder blades, with an unknown amount of doses purchased on an unknown date. 2 Apr 2019: A second treatment was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S62308AW) topically between the shoulder blades. The dog is indoors mostly and goes outside for potty breaks, recreation time, and goes to the dog-park. The dog was bathed on 13 Apr 2019 with Head and Shoulders, and does have skin issues. The dog's health at the time of the application was good and the dog is not receiving other medications. The owner is seeing 5 fleas on the dog on a daily basis. The owner has not treated the home

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											and did not contact the Veterinary Clinic. It is unknown if these are the first doses of FRONTLINE ever for the dog. No further medical information expected. UPDATE 06 May 2019: Case updated to inquiry due to treatment program not respected. UPDATE 5 Jun 2019: The last 2 doses were given on 30 Apr 2019 and 21 May 2019. A six pack was purchased on an unknown date. No further medical information expected.
18-Apr-2019	UAE; 19US021830; CA; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Jan-2014*	06-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy: On 18 Apr 2019, the pet owner reported the following event for Indy, 5 year old, 11 pound, male neutered Siamese. 6 Apr 2019: 1 vial of FRONTLINE PLUS CATS (S40601AX) was applied to the cat in one area between the shoulder blades. The owner has been seeing fleas on the cat everyday since the application. The cat goes outdoors thought the day and spend all night inside. The owner has been treating the cat monthly year round since 2014*. The cat has no history of skin issues and does not get bathed. The owner occasionally wipes the cat down with an unknown cat wipe. There is one other cat in the home having an issue with fleas, see case 19US20652. No further information is expected.
24-Apr-2019	UAE; 19US021844; MI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 21 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Apr-2019*	18-Apr-2019*	1 Day(s)	D-D	Suspected Adverse Event: On 24 Apr 2019, the pet owner the following issue for Lucas a male neutered, 7 year old, 21 pound, Domestic Shorthair (Crossbreed). 17 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS CATS (P40801BW) topically according to the label instructions to the body of Lucas. 18 Apr 2019*: The pet owner noticed small spot of hair loss and burnt skin that appeared to grow larger. The pet owner presented Lucas to veterinarian. Lucas was treated with one low dose of unknown steroid, unknown antibiotic, and wound was cleaned with soap and water. 22 Apr 2019*: Lucas has recovered from the reaction. 23 Apr 2019: Lucas was presented to veterinarian for follow up and was not treated at this time because Lucas had recovered. 24 Apr 2019: At the time of the report, Lucas was in good health at time of application. Lucas has had FRONTLINE PLUS CATS on unknown dates previously before reaction. Lucas does not have a history of drug or vaccine reactions. The pet owner did not see fleas on the body of Lucas. No further information.
24-Apr-2019	UAE; 19US021886; NJ; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 13 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Johnson-Johnson Baby Shampoo; **Route:** Topical / Cutaneous **Was the product used**	01-Apr-2018*	23-Apr-2019	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 Apr 2019, the pet owner reported the following event for Riley a male neutered, 6 year old, 13 pounds, Maltese/Poodle crossbreed. 1 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (R62412AL) topically according to label instructions on a year round basis every month to the body of Riley. 29 Mar 2019: The pet owner bathed Riley with Johnson-Johnson Baby Shampoo. 1 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of Riley. 23 Apr 2019: The pet owner noticed 1 attached tick on the body of Riley and was not sure if the tick was alive or dead when it was removed. 24 Apr 2019: At the time of the report, Riley was in good health at

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					time of application. Riley is mainly indoors and go outside for bathroom breaks in fenced yard. Riley has no history of skin problems or any other issues with topical treatments. Riley has not received any other medications. Riley does share FRONTLINE PLUS DOG 5-22 LBS with one other dog in the home with case number 19US021912. The current status of Riley is unknown. No further medical information.
24-Apr-2019	UAE; 19US021912; NJ; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Johnson Johnson Baby Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	23-Apr-2019	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 Apr 2019, the pet owner reported the following event for Brandy a female neutered, 6 year old, 8 pounds, Chihuahua/Pomeranian crossbreed. 1 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (R62412AL) topically according to label instructions on a year round basis every month to the body of Brandy . 29 Mar 2019: The pet owner bathed Brandy with Johnson-Johnson Baby Shampoo. 1 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of Brandy. 23 Apr 2019: The pet owner noticed 1 alive unattached tick on the body of Brandy. 24 Apr 2019: At the time of the report, Brandy was in good health at time of application. Brandy is mainly indoors and go outside for bathroom breaks in fenced yard. Brandy has no history of skin problems or any other issues with topical treatments. Brandy has not received any other medications. Brandy does share FRONTLINE PLUS DOG 5-22 LBS with one other dog in the home with case number 19US021886. The current status of Brandy is unknown. No further medical information.
24-Apr-2019	UAE; 19US021981; MN; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Month(s) **Weight:** 39 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Apr-2019	24-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy: On 24 Apr 2019 the pet owner reported the following event for an unknown 10 month old, 39 pound, male, retriever Labrador mix. All other signalments are unknown. 21 Apr 2019: The owner applied 1 vial of FRONTLINE PLUS DOG 23-44 LBS (UNKNOWN) to the skin between the shoulder blades for the first time. 24 Apr 2019: The owner found 6-7 ticks, all engorged, attached and alive. The owner removed all of the ticks. There are no other pets in the home. The dog has access to a large amount of country/national forest area. No further medical information expected.
24-Apr-2019	UAE; 19US021986; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 14 lbs	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** burt bees shampoo bath; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2018*	20-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 24 April 2019, the owner reported the following event for a 14 pound dog (signalment unknown). 19 April 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (R62514AL) was applied to the skin between the shoulder blades. 20 April 2019: The dog continued to have fleas. The owner is finding 1-2 fleas on the dog. The dog is exposed to grass daily for potty breaks and leisure time. The dog is treated monthly year round, and has been battling fleas for the past two months. There are no fleas in the home. The dog was last bathed a few weeks ago with Burt Bees shampoo or Earth There are three other treated dogs in the home who also have fleas. See cases 19US021987, 19US021989, and 19US021990. There is one strictly outdoor dog that is treated, but isn't having an issue with

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											fleas. No further information available.
24-Apr-2019	UAE; 19US021987; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** bath with unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2018*	19-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 April 2019, the owner reported the following event for a 10 pound dog (signalment unknown). 19 April 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (R62514AL) was applied to the skin between the shoulder blades. 20 April 2019: The dog continued to have fleas. The owner is finding 1-2 fleas on the dog. The dog is exposed to grass daily for potty breaks and leisure time. The dog is treated monthly year round, and has been battling fleas for the past two months. There are no fleas in the home. The dog was last bathed a few weeks ago with Burt Bees shampoo or Earth shampoo. There are three other treated dogs in the home who also have fleas. See cases 19US021986, 19US021989, and 19US021990. There is one strictly outdoor dog that is treated, but isn't having an issue with fleas. No further information available. UPDATE 07 May 2019: The correct reason for assessment was entered.
24-Apr-2019	UAE; 19US021989; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 11 lbs	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** bath with unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2018*	19-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 April 2019, the owner reported the following event for a 11 pound dog (signalment unknown). 19 April 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (R62514AL) was applied to the skin between the shoulder blades. 20 April 2019: The dog continued to have fleas. The owner is finding 1-2 fleas on the dog. The dog is exposed to grass daily for potty breaks and leisure time. The dog is treated monthly year round, and has been battling fleas for the past two months. There are no fleas in the home. The dog was last bathed a few weeks ago with Burt Bees shampoo or Earth There are three other treated dogs in the home who also have fleas. See cases 19US021986, 19US021987, and 19US021990. There is one strictly outdoor dog that is treated, but isn't having an issue with fleas. No further information available.
24-Apr-2019	UAE; 19US021990; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 11.10 lbs	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** bath with unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2018*	20-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 24 April 2019, the owner reported the following event for a 11.10 pound dog (signalment unknown). 19 April 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (R62514AL) was applied to the skin between the shoulder blades. 20 April 2019: The dog continued to have fleas. The owner is finding 1-2 fleas on the dog. The dog is exposed to grass daily for potty breaks and leisure time. The dog is treated monthly year round, and has been battling fleas for the past two months. There are no fleas in the home. The dog was last bathed a few weeks ago with Burt Bees shampoo or Earth shampoo. There are three other treated dogs in the home who also have fleas. See cases 19US021986, 19US021987, 19US021989. There is one strictly outdoor dog that is treated, but isn't having an issue with fleas. No further information available.
24-Apr-2019	UAE; 19US022038; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE	N/A	02-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 Apr 2019, the pet owner reported the following event for an unknown number of canines. 1 Apr 2019: Dogs received most recent dose of unknown FRONTLINE PLUS DOGS (lot unknown) (FL), product

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** - **Weight:** Unknown				9% SPOT ON **Other products used:** Dawn; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					unsubstantiated, topically in an unknown manner. The pet owner stated that he has been using the product for a long time, but no specification of previous applications. The dogs continue to pick up fleas and the pet owner mentioned that the packaging notes that the product should repel fleas. Unknown date: Dogs were bathed in Dawn. No further medical information expected.
22-Apr-2019	UAE; 19US022055; AR; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019*	22-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the owner reported the following event for a feline (all other signalments unknown). 19 Apr 2019*: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 22 Apr 2019*: The owner found a tick on the pet. The cat's environmental factors are unknown. The status of the tick is unknown The cat also experienced symptoms after using the product (see case 19US021349). No further medical information is expected.
24-Apr-2019	UAE; 19US022059; CA; U.S.A	**Species:** Canine **Breed:** Belgian Malinois **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 68 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Burt's Bees Shampoo; Veterinary Formula Hotspot Anti-Itch Medicated Spray; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2019	10-Apr-2019*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 Apr 2019, the pet owner reported the following event for Little Bear a female neutered, 5 year old, 68 pound, Belgian Malinois/German Shepherd crossbreed. 31 Mar 2019*: The pet owner bathed Little Bear with Burt's Bee Shampoo. 2 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60719AX) topically according to the label instructions to the body of Little Bear for the first time. 10 Apr 2019*: The pet owner noticed Little Bear had 5-10 live fleas present on her body. 24 Apr 2019: At the time of the report, Little Bear was in good health at time of application. Little Bear was not presented to veterinarian. The home environment has been treated by pet owner. Little Bear has no history of skin problems or any other issues with topical treatments. Little Bear has not received any other medications. The pet owner has been bitten by fleas in the home. The pet owner has previously used Veterinary Formula Hotspot and Anti-Itch Medicated Spray on unknown dates. The current status of Little Bear is unknown. No further medical information.
24-Apr-2019	UAE; 19US022081; CA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	18-Jan-2019	24-Apr-2019	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 Apr 2019 the pet owner reported the following event for an unknown 13 pound female small crossbred (<10 Kg) canine. All other signalments are unknown. 18 Jan 2019: The pet owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60808AL) to the skin between the shoulder blades for the first time and repeated on the 18th thereafter. 20 Apr 2019: The owner applied the most recent dose and the dog started rubbing the application site on furniture. 24 Apr 2019: The owner found 2 fleas on the dog for the first time and bathed her with a regular dog shampoo. There are no other pets in the home. The owner is not noticing any

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						ok?: Yes					flea activity inside the home. The dog has access to a fenced in yard. No further medical information expected.
24-Apr-2019	UAE; 19US022122; ME; U.S.A	**Species:** Canine **Breed:** Spaniel (English Springer) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Apr-2019	24-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 24 Apr 2019 the pet owner reported the following event for Quinn a 1.5 year old, 50 pound, male neutered, Spaniel (English Springer). 24 Apr 2019: The owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S60705AR) to the skin between the shoulder blades. The dog is brown and white colored and the product was applied to the white patch. A couple hours later the owner noticed a brown spot where the product was applied. The symptoms are ongoing. The dog has not presented to the vet. No further medical information is expected.
24-Apr-2019	UAE; 19US022125; ID; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Apr-2018*	22-Apr-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 Apr 2019 the pet owner reported the following event for Riseekie a 4 year old, 60 pound, male neutered retriever Labrador and Doberman pinscher mix. *12 Apr 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (R60601BR) to the skin between the shoulder blades for the first time on a seasonal basis. 12 Apr 2019: The owner applied the most recent dose. 22 Apr 2019: The owner found 1 tick that was dead, attached and slightly engorged. The owner removed the tick 24 Apr 2019: The owner found another tick that was alive and crawling through the fur. The owner brushed off the tick There are no other pets in the home. The dog has regular access to a grassy back yard with a creek and a trail through a wooded area. No further medical information expected.
25-Apr-2019	UAE; 19US022135; OH; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 45 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Apr-2019	08-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 25 Apr 2019, the owner reported the following event for Harley, 4 year old, 45 pound, spayed female, Black Labrador Retriever canine. 1 Apr 2019: The owner started to find ticks on the pet. 7 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. 8 Apr 2019: The owner continued to find ticks on the pet after she came in from potty breaks. The dog has access to 2 acres in the country. 25 Apr 2019: The owner continued to find ticks daily up to the time of the report. The owner removed each tick but unsure if they were dead or alive. There is one other dog in the household that also received the FRONTLINE and experienced an issue with ticks (see case 19US022136). No further medical information is expected.
25-Apr-2019	UAE; 19US022143; MA; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Month(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	22-Apr-2019	23-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 25 Apr 2019, the pet owner reported the following event for Troy, an 8-month-old (Born 25 Aug 2018), 25 pound, neutered male Australian Labradoodle mixed dog. 22 Apr 2019: The first treatment was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 23-44 LBS (Unknown) topically between the shoulder blades, with a 3 pk of doses purchased on 21 Apr 2019 and 3pk purchased on 22 Apr 2019. The dog is indoors mostly and goes outside for potty breaks and recreation time. The dog was not bathed and does have skin

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						product used ok?: Yes					issues. The dog's health at the time of the application was good and the dog is not receiving other medications. 23 Apr 2019: The owner is seeing 1-5 ticks on the dog on a daily basis. The owner has treated the home and did not contact the Veterinary Clinic. No further medical information expected. UPDATE 8 May 2019: The breed of the dog is Retriever labrador, poodle (standard) and Australian Shepherd mix.
25-Apr-2019	UAE; 19US022203; NY; U.S.A	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 10 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Mar-2019	01-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 25 Apr 2019, the pet owner reported the following event for Grumpy a male neutered, 3 year old, 10 pound, Persian. 22 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40717AW) topically according to label instructions to the body of Grumpy. 1 Apr 2019*: The pet owner removed two unattached ticks that were crawling on the body of Grumpy. 22 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS topically according to label instructions to the body of Grumpy. 25 Apr 2019: The pet owner removed one attached live tick off the body of Grumpy. At the time of the report, Grumpy was in good health at the time of administration. Grumpy has not been presented to the veterinarian. Grumpy has not been bathed by the pet owner. Grumpy has had this problem before in the past but it was resolved. Grumpy has not received any other medications or topical treatments. The current status of Grumpy is unknown. Grumpy is both indoors and outdoors. Grumpy has no history of drug or vaccine reactions. Grumpy shares the home with one other dog in the home who does not have any issues. No further medical information.
22-Apr-2019	UAE; 19US022210; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 Apr 2019, the pet owner reported the following event for Celeste, an 8 year old, 12 lb spayed female Domestic Shorthair Ringtail. 29 Mar 2019*: The pet owner applied one dose of FRONTLINE PLUS CATS (lot unknown) (FL) topically in an unknown manner. The pet owner stated that she has never had a problem with the product in the past, but the dates of use are unknown. The product was applied to prevent the cat from scratching. The pet owner was unsure when fleas were first noticed on the pet. At the time of the report, fleas were on the pet, but not in the home. The cat is indoor only, but lounges near a glass sliding door in the home. The pet owner stated that the home and yard are scheduled to be treated. There is one other cat in the household that still has fleas following application, see case 19US021271. No further medical information expected.
23-Apr-2019	UAE; 19US022214; FL; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5 - 7 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Flea and Tick Shampoo; **Route:** Topical /	27-Mar-2018*	03-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019 the pet owner reported the following event for an unknown 5-7 pound, Yorkshire Terrier. All other signalments are unknown. *27 Mar 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (P61525AL) to the skin between the shoulder blades and continued on a monthly and year round basis thereafter. 27 Mar 2019: The owner applied the most recent dose. No fleas were seen. *3 Apr 2019: The owner discovered hundreds of fleas on the dog and in the home and gave an unknown flea and tick bath.

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						Cutaneous **Was the product used ok?:** Yes					*17 Apr 2019: The owner continued to see hundreds of fleas and gave another bath. There are 7 other dogs in the home using FRONTLINE PLUS and seeing fleas with case numbers 19US021642, 19US022215, 19US022216, and 19US022219. The dogs are mostly indoors and have access to acres of land with a fence. There is large amounts of flea activity present inside of the home despite the house being bombed at an unknown date. No further medical information expected.
23-Apr-2019	UAE; 19US022215; FL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5 - 7 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Flea and Tick Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Mar-2018*	03-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019 the pet owner reported the following event for an unknown 5-7 pound, Chihuahua. All other signalments are unknown. *27 Mar 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (P61525AL) to the skin between the shoulder blades and continued on a monthly and year round basis thereafter. 27 Mar 2019: The owner applied the most recent dose. No fleas were seen. *3 Apr 2019: The owner discovered hundreds of fleas on the dog and in the home and gave an unknown flea and tick bath. *17 Apr 2019: The owner continued to see hundreds of fleas and gave another bath. There are 7 other dogs in the home using FRONTLINE PLUS and seeing fleas with case numbers 19US021642, 19US022214, 19US022216, and 19US022219. The dogs are mostly indoors and have access to acres of land with a fence. There is large amounts of flea activity present inside of the home despite the house being bombed at an unknown date. No further medical information expected.
23-Apr-2019	UAE; 19US022216; FL; U.S.A	**Species:** Canine **Breed:** Wheaton Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Flea and Tick Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Mar-2018*	03-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019 the pet owner reported the following event for an unknown Wheaton Terrier. All other signalments are unknown. *27 Mar 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S60403AX) to the skin between the shoulder blades and continued on a monthly and year round basis thereafter. 27 Mar 2019: The owner applied the most recent dose. No fleas were seen. *3 Apr 2019: The owner discovered hundreds of fleas on the dog and in the home and gave an unknown flea and tick bath. *17 Apr 2019: The owner continued to see hundreds of fleas and gave another bath. There are 7 other dogs in the home using FRONTLINE PLUS and seeing fleas with case numbers 19US021642, 19US022214, 19US022215, and 19US022219. The dogs are mostly indoors and have access to acres of land with a fence. There is large amounts of flea activity present inside of the home despite the house being bombed at an unknown date. No further medical information expected.
23-Apr-2019	UAE; 19US022219; FL; U.S.A	**Species:** Canine **Breed:** Rhodesian Ridgeback **Sex:** U **Sex qualifier:** Unknown **Age:** -	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown	27-Mar-2018*	03-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019 the pet owner reported the following event for three unknown Rhodesian Ridgeback. All other signalments are unknown. *27 Mar 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 23-44 LBS (R60316AL) to the skin between the shoulder blades of each dog and continued on a monthly and year round basis thereafter.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: Unknown				Flea and Tick Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					27 Mar 2019: The owner applied the most recent dose. No fleas were seen. *3 Apr 2019: The owner discovered hundreds of fleas on each of the dogs and in the home. Then, gave an unknown flea and tick bath to each dog. *17 Apr 2019: The owner continued to see hundreds of fleas and gave another bath. There are 5 other dogs in the home using FRONTLINE PLUS and seeing fleas with case numbers 19US021642, 19US022214, 19US022215, and 19US022216. The dogs are mostly indoors and have access to acres of land with a fence. There is large amounts of flea activity present inside of the home despite the house being bombed at an unknown date. No further medical information expected.
25-Apr-2019	UAE; 19US022295; VA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	21-Apr-2019	2 Day(s)	D-D	Suspected Adverse Event: On 25 Apr 2019, the owner reported the following event for CC, an 18 pound, 4 year old (Born 31 Oct 2014), spayed female Domestic Longhaired cat. 19 Apr 2019: The cat began receiving monthly dose of FRONTLINE PLUS CAT (S40404AW) between the shoulder blades for the first time. 21 Apr 2019: The cat experienced increased severe itching and vomiting. The cat was presented to the clinic and is at home but the symptoms are ongoing. No further medical information expected.
25-Apr-2019	UAE; 19US022342; FL; U.S.A	**Species:** Canine **Breed:** Cockapoo **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Apr-2019	24-Apr-2019	2 Day(s)	D-C	Suspected Adverse Event: On 25 Apr 2019, veterinarian reported the following event in Moxie a 14 pound, 5 year old, spayed female Cockapoo. 1 Jan 2018*: Patient was diagnosed with a seizure disorder that was treated with phenobarbital. 1 Jan 2019*: Pet owners stopped administering phenobarbital without veteirnary advice. 22 Apr 2019: Patient was administered FRONTLINE PLUS DOG 5-22 LBS (product unsubstantiated, lot number and expiration unavailable). Patient has been regularly administered this product in the past. 24 Apr 2019: Patient developed neurological problems and presented to local emergency clinic. Patient displayed lethargy, ataxia, gait issues and nystagmus. Patient was treated with phenobarbital, keppra, gabapentin, buprenorphine, and carprofen and was on IV fluids overnight. Bloodwork had a high BUN with all other values unremarkable. Patient is eating and drinking and has normal bowel movements. Reporting veterinarian has a low index of suspicion that FRONTLINE is the cause of the clinical signs. No further medical information expected.
26-Apr-2019	UAE; 19US022367; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** Unknown	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	31-Mar-2019*	25-Apr-2019	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for four neutered male domestic shorthaired cats, ranging in age from 1 to 5-years-old* of unknown weights. 31 Mar 2019: A treatment was applied; with the cats receiving the contents of 1 vial of FRONTLINE PLUS CAT (S40603AW) topically between the shoulder blades, with an unknown amount of doses purchased on an unknown date. It is unknown if the cats are treated on a year round and monthly basis but the owner has used

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						Cutaneous **Was the product used ok?:** Yes					the product for 13 years on unknown pets. The cats are indoors only. The cats were not bathed and do not have skin issues. The cats health at the time of the application was good and the cats are not receiving other medications. 25 Apr 2019: The owner is seeing 1-5 fleas on the cats on a daily basis. The owner has vacuumed the home and did not contact the Veterinary Clinic. See also cases 19US022433 and 19US022436 for additional pets in the home experiencing the same issue. The owner believes this is a bad batch as it has not worked this way in the past. No further medical information expected.
25-Apr-2019	UAE; 19US022372; NC; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2018	03-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 25 Apr 2019, the owner reported the following event for Peekaboo, 3 year old, 7 pound, spayed female, Feline (Breed unknown). 2 Apr 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 5 Apr 2019: The owner started to notice the cat itching. A large amount of fleas were found on the pet. 25 Apr 2019: The issue is still ongoing. There is one other cat in the household that is also being treated with FRONTLINE and experiencing an issue (see case 19US024445). There is also another strictly oudoor cat that is being treated with another product and experiecing no issue. No further medical information is expected.
25-Apr-2019	UAE; 19US022373; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 9 - 16 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2019*	24-Apr-2019*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 25 Apr 2019, the owner reported the following event for the 2 unknown felines, weighing between 9-16 pounds*, both cats are 4 years old. 11 Apr 2019: One vial of FRONTLINE PLUS CATS (S40411A) was applied topically in between the pets' shoulder blades by the owner. Apr 2019*: The owner noticed a small amount of fleas on the pets. The cats are indoor only but have access to a screened in porch where stray cats wonder in the area. No indoor fleas seen, but the owner is treating the inside of the home. This is the first incident the owner has seen any fleas on the pets. The owner uses the product seasonally, purchased the product and started to apply the product in Feb 2019*. No further medical information expected.
25-Apr-2019	UAE; 19US022397; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	25-Apr-2019	25-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 25 Apr 2019, the pet owner reported the following event for feline other signalment unknown. Unknown dates: The pet owner applied FRONTLINE PLUS CATS topically to the body of her cats. 25 Apr 2019: At the time of the report, the pet owner reported that both her cats were shaking their heads after licking unknown amount of FRONTLINE PLUS CATS (lot number unknown) off each other at the application site. The current status of the cats are unknown. No further medical information.
25-Apr-2019	UAE; 19US022410; FL; U.S.A	**Species:** Canine **Breed:** Dachshund	1	1	0	**Product used:** FIPRONIL 10%/S	01-Feb-2019*	02-Feb-2019*	1 Day(s)	D-D	Suspected Adverse Event: On 25 Apr 2019, the owner reported the following event for Skittles, 14 years old, 18 pounds, neutered male, Dachshund.

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		Sex: M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 18 lbs				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					1 Feb 2019*: One vial of FRONTLINE PLUS DOG 5-22 LBS (S61412AL) was applied between the shoulder blades, by the pet owner. 2 Feb 2019*: The dog started to extremely itch. There were no evidence of fleas seen on the dog. 30 Mar 2019*: The dog present to clinic. The Vet prescribed Trifexis. 1 Apr 2019: The pet used the Trifexis on pet. 2 Apr 2019: The dog stopped itching. No further medical information is expected.
25-Apr-2019	UAE; 19US022423; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Apr-2015*	12-Apr-2019*	11 Day(s)	D-B	Suspected Adverse Event: On 25 Apr 2019 the pet owner reported the following event for Boots a 9 year old, 10 pound, male neutered Domestic shorthair (crossbreed). *1 Apr 2015: The owner applied 1 vial of FRONTLINE PLUS CATS (R40515AW) to the skin on the back of the neck on a seasonal basis each year. 1 Apr 2019: The owner applied the most recent application for the first time this year. The owner noticed at an unspecified time that day the cat licked the entire product off of the application site. *12 Apr 2019: The owner began noticing the cat had lost weight and was having difficulty with balance and jumping. *13 Apr 2019: The cat presented to the vet clinic. The cat normally weighs 16 pounds but had lost 6 pounds. The cat had blood work, owner reported high levels of poison on blood work. The cat was placed on unknown antibiotics and flushing with fluids. The symptoms are ongoing and owner believes the cat won't make it. The cat is an indoor only cat with no house mates. UPDATE 26 Apr 2019: Per a phone conversation with the veterinarian, the FRONTLINE PLUS was not purchased through the clinic. The patient was seen for lethargy and diarrhea on an unknown date. Abdominal radiographs were normal. Blood work showed high leukocyte and dehydration. The owner declined IV fluid therapy and augmentin was dispensed. UPDATE 26 Apr 2019: Per the patients medical records, on 17 Apr 2019 the patient was 5% dehydrated and emaciated at the time of examination. The CBC showed anemia (value not provided), elevated TP, amylase and globulin levels. The veterinarian has not had any follow up on the patient. No further medical information is available.
26-Apr-2019	UAE; 19US022433; CA; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 40 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2019	25-Apr-2019	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for a 5-year-old, 40 pound, spayed female PitBull-German Shepherd mixed dog. 31 Mar 2019: The first treatment was applied; with the cats receiving the contents of 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S61306AR) topically between the shoulder blades, with an unknown amount of doses purchased on an unknown date. The dog is treated year-round and monthly. The dog is outdoor only. The dog was not bathed and does not have skin issues. The dog's health at the time of the application was good and the dog is not receiving other medications. 25 Apr 2019:The owner is seeing 1-5 fleas on the dog on a daily basis. The owner has vacuumed the home and did not contact the Veterinary Clinic. See also cases 19US022367, and 19US022436 for additional pet in the home experiencing the same issue. No further medical information expected.

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26-Apr-2019	UAE; 19US022436; CA; U.S.A	**Species:** Canine **Breed:** Coonhound (Black And Tan) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 68.000 lbs*	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Mar-2019	25-Apr-2019	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for three 1-6 year-old, 68 pound*, neutered male Coonhound dogs. 31 Mar 2019: The first treatment was applied; with the dogs receiving the contents of 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S61306AR) topically between the shoulder blades, with an unknown amount of doses purchased on an unknown date. The dogs are treated year-round and monthly. The dogs are outdoor only. The dogs were not bathed and do not have skin issues. The dogs' health at the time of the application was good and the dogs are not receiving other medications. 25 Apr 2019: The owner is seeing 1-5 fleas on the dogs on a daily basis. The owner has vacuumed the home and did not contact the Veterinary Clinic. See also cases 19US022367 and 19US022433 for additional pet in the home experiencing the same issue. No further medical information expected.
26-Apr-2019	UAE; 19US022461; FL; U.S.A	**Species:** Canine **Breed:** American Bully **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Apr-2019*	13-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the owner reported the following event for Chance, 1 year old, 65 pounds*, Intact male, American Bully. 12 Apr 2019*: One vial of FRONTLINE PLUS DOG 45-88 LBS (S62202AX) was applied between the shoulder blades, by the pet owner. 13 Apr 2019*: The dog had a moderate amount of fleas. The dog did not present to clinic. The pet owner stated that she is bathing the dog 3 times a week with an unknown flea shampoo. The pet owner also stated that fleas are biting her and her family. 26 Apr 2019: The dog still has fleas. The pet owner is treating the home with a unknown flea spray and vacuuming on a daily basis. No further medical information is expected.
26-Apr-2019	UAE; 19US022477; TN; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Dawn dish soap; Adams topical treatment; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	20-Apr-2019	3 Day(s)	D-D	Suspected Adverse Event and Suspected Lack of Efficacy Claim: On 26 Apr 2019, the reported the following event for Dookitty a male neutered, 12 pound, 1 year old, Domestic Shorthair (Crossbreed). 17 Apr 2019*: The pet owner noticed 4-5 fleas on Dookitty. 18 Apr 2019: The pet owner bathed her cat with Dawn dish soap. 19 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40902AW) topically according to label instructions for the first time to the body Dookitty with live fleas present. 20 Apr 2019: The pet continued to see 4-5 live fleas present on body of Dookitty. 22 Apr 2019: The pet owner has noticed an increase in scratching from Dookitty. 26 Apr 2019: At the time of the report, Dookitty was in good health. Dookitty was not presented to veterinarian. The home environment has been treated by pet owner. Dookitty is strictly indoors. The pet owner stated that her cat was treated with a Adams topical treatment before in the past on unknown dates and it did not work. Dookitty has no history of skin problems or any other issues with topical treatments. The current status of Dookitty is unknown. Dookitty has not had this problem in the past. Dookitty does share home with one other cat with case number 19US022532. No further medical information. UPDATE 29 Apr 2019: Owner called to state the pet's scratching has gotten worse.No further medical information expected at this time. UPDATE 21 Jun 2019: After further review, lack of efficacy was

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											added to the VeDDRA.
26-Apr-2019	UAE; 19US022483; LA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	23-Apr-2019*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim and Adverse Event: On 26 Apr 2019, the pet owner reported the following event for Halloween, an approx. 11 year old, neutered male domestic Shorthair feline, additional details unknown. 5 Apr 2019: Cat received one dose of FRONTLINE PLUS CATS (S40410AW) (FL) topically between the shoulder blades. 23 Apr 2019*: Pet owner first started to notice fleas in the home. After finding the fleas, the home was sprayed. The pet owner stated that when the cat scratches hair falls out. The cat does not go outside and the amount of flea activity on the pet is unknown. There is an outside dog that has been receiving treatment with FRONTLINE that does not have fleas. No further medical information expected.
26-Apr-2019	UAE; 19US022512; -; Canada	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	19-Apr-2019*	25-Apr-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for an unknown canine. 19 Apr 2019: Dog received one dose of unknown FRONTLINE PLUS DOG (lot unknown) topically in an unknown manner. On an unknown date the pet owner found a tick on the dog that was able to feed. The tick on the dog was dead. The tick was removed. The dog's environment is unknown. No further medical information expected.
26-Apr-2019	UAE; 19US022515; CA; U.S.A	**Species:** Canine **Breed:** Boston Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 31.9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019	26-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for Cowgirl, a 12-year-old*, 31.9 pound, spayed female Boston Terrier dog. 23 Apr 2019: The first treatment was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S60713AX) topically between the shoulder blades, with an 8 pk of doses purchased on an unknown date. The dog is indoors mostly and goes outside for potty breaks and recreation time. The dog was bathed in flea shampoo on 21 Apr 2019 and does not have skin issues. The dog's health at the time of the application was good and the dog is not receiving other medications. 26 Apr 2019: The owner is seeing 15 or more fleas on the dog on a daily basis. The owner has treated the home and did not contact the Veterinary Clinic. See also case 19US022559 for additional pet in the home with the same issue. No further medical information expected.
26-Apr-2019	UAE; 19US022522; TN; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 5 lbs	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Adams Flea Shampoo; **Route:** Topical /	16-Apr-2019	17-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for Daisy a female intact, non-pregnant non lactating, 1 year old, 5 pound, Chihuahua. 16 Apr 2019*: The pet owner bathed the dog with Adams Flea Shampoo. The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61006AL) topically according to label instructions to the body of Daisy with severe amount of live fleas seen. 17 Apr 2019: The pet owner continued to see severe amount of live fleas on the body of Daisy. 26 Apr 2019: At the time of the report, Daisy was not presented to

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Cutaneous **Was the product used ok?:** Yes					veterinarian. Daisy was in good health at time of application. Daisy has no history of skin problems or any other issues with topical treatments. Daisy has been treated previously on a monthly basis on unknown dates with FRONTLINE PLUS DOG 5-22 LBS application. The pet owner noticed fleas jumping on her in the home. The current status of Daisy is unknown. Daisy share the home with 2 other dogs who case numbers 19US022555, 19US022564. No further medical information.
26-Apr-2019	UAE; 19US022532; TN; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Adams topical treatment; Dawn dish soap; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	20-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event and Suspected Lack of Efficacy Claim: On 26 Apr 2019, the reported the following event for Fatgirl a female neutered, 10 pound, 1 year old, Domestic Shorthair (Crossbreed). 17 Apr 2019*: The pet owner noticed 4-5 fleas on Fatgirl. 18 Apr 2019: The pet owner bathed her cat with Dawn dish soap. 19 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40902AW) topically according to label instructions for the first time to the body Fatgirl with live fleas present. 20 Apr 2019: The pet continued to see 4-5 live fleas present on body of Fatgirl. 22 Apr 2019: The pet owner has noticed an increase in scratching from Fatgirl. 26 Apr 2019: At the time of the report, Fatgirl was in good health. Fatgirl was not presented to veterinarian. The home environment has been treated by pet owner. Fatgirl is strictly indoors. The pet owner stated that her cat was treated with a Adams topical treatment before in the past on unknown dates and it did not work. Fatgirl has no history of skin problems or any other issues with topical treatments. The current status of Fatgirl is unknown. Fatgirl has not had this problem in the past. Fatgirl does share home with one other cat with case number 19US022477. No further medical information.
26-Apr-2019	UAE; 19US022545; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019*	02-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for PooPoo a male neutered, 8 year old, 9 pound, Domestic Shorthair (Crossbreed). 1 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS CATS (S41108AW) topically according to label instructions to the body of PooPoo with 1-2 fleas present on him. 2 Apr 2019: The pet owner continued to see 1-2 fleas present on the body of PooPoo. 26 Apr 2019: At the time of the report, PooPoo was in good health at time of application. PooPoo was not presented to veterinarian. The home environment has been treated by pet owner. PooPoo has not received any other medications or topical treatments. PooPoo has no history of skin problems or any other issues with topical treatments. PooPoo is both indoors and outdoors. PooPoo has not been bathed. The pet owner has not seen fleas in the home. The current status of PooPoo is unknown. PooPoo does share FRONTLINE PLUS CATS with one other cat in the home with case number 19US022496. No further medical information.
26-Apr-2019	UAE; 19US022555; TN; U.S.A	**Species:** Canine **Breed:** Chowchow **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Adams	16-Apr-2019*	17-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for Braylon a female spayed, 8 year old, 50 pound, Chowchow. 16 Apr 2019*: The pet owner bathed the dog with Adams Flea Shampoo. The pet owner applied one dose of FRONTLINE PLUS DOG 89-132 LBS (M63905AR) topically according to label instructions to the body of Braylon with severe amount of live fleas

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)					seen. 17 Apr 2019: The pet owner continued to see severe amount of live fleas on the body of Braylon. 26 Apr 2019: At the time of the report, Braylon was not presented to veterinarian. Braylon was in good health at time of application. Braylon has history of skin problems. Braylon does not have any other issues with topical treatments. Braylon has been treated previously on a monthly basis on unknown dates with FRONTLINE PLUS DOG 89-132 LBS application. The pet owner noticed fleas jumping on her in the home. The current status of Braylon is unknown. Braylon share the home with 2 other dogs who case numbers 19US022522, 19US022564. No further medical information.
26-Apr-2019	UAE; 19US022559; CA; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 28 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019	26-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for Eddie, an 8-year-old*, 28 pound, spayed female Wire Haired Terrier dog. 23 Apr 2019: The first treatment was applied; with the dog receiving the contents of 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S60713AX) topically between the shoulder blades, with an 8 pk of doses purchased on an unknown date. The dog is indoors mostly and goes outside for potty breaks and recreation time. The dog was bathed in flea shampoo on 21 Apr 2019 and does not have skin issues. The dog's health at the time of the application was good and the dog is not receiving other medications. 26 Apr 2019: The owner is seeing 15 or more fleas on the dog on a daily basis. The owner has treated the home and did not contact the Veterinary Clinic. See also case 19US022515 for additional pet in the home with the same issue. No further medical information expected.
26-Apr-2019	UAE; 19US022561; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 - 10 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	22-Apr-2015*	15-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019 the pet owner reported the following event for 2 unknown 4 year old 5-10 pound feline (Unknown). All other signalments are unknown. *22 Apr 2015: The owner started applying 1 vial of FRONTLINE PLUS CATS (UNKNOWN) to the skin between the shoulder blades every 4 weeks. *25 Mar 2019: The owner applied another dose. *15 Apr 2019: The owner noticed large amounts of fleas on the cats. 22 Apr 2019: The owner applied the most recent dose. 23 Apr 2019: The owner continues to notice large amounts of fleas on the cats. There is 1 dog in the home treated with FRONTLINE PLUS but not having an issue and 1 other indoor/outdoor cat with case number 19US022567. The cats are both indoor outdoor cats. The owner is noticing flea activity inside of the home. No further medical information is expected.
26-Apr-2019	UAE; 19US022564; TN; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** F **Sex qualifier:** Neutered **Age:** 17.00 Year(s) **Weight:** 76 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Adams Flea Shampoo;	16-Apr-2019*	17-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for Jazzy a female spayed, 17 year old, 76 pound, Boxer/Pitbull crossbreed. 16 Apr 2019*: The pet owner bathed the dog with Adams Flea Shampoo. The pet owner applied one dose of FRONTLINE PLUS DOG 89-132 LBS (M63905ARL) topically according to label instructions to the body of Jazzy with severe amount of live fleas seen. 17 Apr 2019: The pet owner continued to see severe amount of

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Route: Topical / Cutaneous **Was the product used ok?:** No (Overdose)					live fleas on the body of Jazzy. 26 Apr 2019: At the time of the report, Jazzy was not presented to veterinarian. Jazzy was in good health at time of application. Jazzy does not have history of skin problems or any other issues with topical treatments. Jazzy has been treated previously on a monthly basis on unknown dates with FRONTLINE PLUS DOG 89-132 LBS application. The pet owner noticed fleas jumping on her in the home. The current status of Jazzy is unknown. Jazzy share the home with 2 other dogs who case numbers 19US022522, 19US022555. No further medical information.
26-Apr-2019	UAE; 19US022567; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Apr-2018*	15-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019 the pet owner reported the following event for an unknown 1 year old 5 pound feline (Unknown). All other signalments are unknown. *22 Apr 2018: The owner started applying 1 vial of FRONTLINE PLUS CATS (UNKNOWN) to the skin between the shoulder blades every 4 weeks. *25 Mar 2019: The owner applied another dose. *15 Apr 2019: The owner noticed large amounts of fleas on the cat. 22 Apr 2019: The owner applied the most recent dose. 23 Apr 2019: The owner continues to notice large amounts of fleas on the cat. There is 1 dog in the home treated with FRONTLINE PLUS but not having an issue and 2 other indoor/outdoor cats with case number 19US022561. The cat is an indoor outdoor cat. The owner is noticing flea activity inside of the home. No further medical information is expected.
26-Apr-2019	UAE; 19US022587; FL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 6 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dawn Dish Soap; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Nov-2018*	19-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for Baby, 10 year old, 6 pound, male neutered Chihuahua. Nov 2018*: The dog was having an issue with fleas, the owner began applying FRONTLINE PLUS DOG 5-22 LBS (S60816AL) to the dog in one area between the shoulder blades, monthly. The owner also started bathing the dog once a week in Dawn. 19 Apr 2019*: The dog had a large amount of fleas and appeared to be uncomfortable. The owner bathed the dog in Dawn to get rid of the fleas. 24 Apr 2019: Fleas present on the dog. The dog goes out for potty breaks and recreation. There are fleas present in the home bitting the humans. There is one other dog in the home not having an issue with fleas and is treated with FRONTLINE. No further information is expected.
26-Apr-2019	UAE; 19US022601; CA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Feb-2019*	07-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019 the pet sitter reported the following event for an unknown *15 pound female small crossbreed (<10 kg). All other signalments are unknown. *24 Feb 2019: The owner applied 1 dose of FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades with no fleas seen. It is unknown if this was the first application. 24 Mar 2019: The pet sitter applied another dose but believes it went mainly in the fur. *7 Apr 2019: The pet sitter began seeing an unknown amount of fleas. 23 Apr 2019: The pet sitter applied another dose to the skin between the shoulder blades. 26 Apr 2019: The pet sitter continued to see more fleas this morning.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											There are no other pets in the home. The pet sitter is not seeing any flea activity inside the home. The dog goes for walks through the neighborhood 4 times a day. No further medical information expected.
26-Apr-2019	UAE; 19US022606; FL; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 16.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2018	02-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the owner reported the following event for Shiloh, 7 year old, 16 pound, neutered male, Pomeranian canine. 1 Apr 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (S61412) was applied between the shoulder blades. the dog goes out for potty breaks in a fenced in yard. 2 Apr 2019: The owner found 1 fleas on the dog along with flea dirt. The owner also noticed the pet scratching. Unknown date: The owner bathed the dog with Adams shampoo. The owner also treated the home. 26 Apr 2019: The owner finds 1-2 fleas on the dog sporadically. The dog has received the product monthly since 1 Aug 2018 with no issues. There are 2 cat in the household receiving the FRONTLINE and having an issue with fleas (see case 19US023405, 19US023415). No further medical information is expected.
26-Apr-2019	UAE; 19US022673; VA; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Sentry Flea and Tick Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Apr-2019	26-Apr-2019	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the pet owner reported the following event for Hope, 4 year old, 22 pound, female spayed, Shetland Sheep Dog (Sheltie). 17 Apr 2019: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S61412AL) was applied to the dog in one area between the shoulder blades for the first time. 22 Apr 2019*: The dog was bathed with Sentry flea and tick shampoo. 26 Apr 2019: 1 live, partially engorged tick was seen on the dog, the owner removed the tick. The dog goes out for potty breaks and recreation in a fenced in yard. The owner was treating with an oral medication previously. The dog has history of skin allergies. No further information expected.
23-Apr-2019	UAE; 19US022727; CA; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 100 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Mar-2018*	16-Apr-2019	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Apr 2019, the pet owner reported the following event for Nightly, a 5 year old, 100 lb, neutered male Australian Shepherd mix Mar 2018*-28 Mar 2019*: Pet received monthly doses of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) (FL) topically between the shoulder blades. 16 Apr 2019: Pet owner stated to notice fleas on the dog and in the home. The pet owner also stated the members in the household have been getting bites as well. The dogs are mostly indoors. The amount of flea activity on the dog is unknown. There is another dog in the household that continued to have fleas after FL application, see case 19US021705. No further medical information expected.
29-Apr-2019	UAE; 19US022756; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	25-Apr-2019	26-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 April 2019, the owner reported the following event for 3 pound cat (unknown signalment). 25 April 2019: The cat had ticks and one vial of FRONTLINE PLUS CATS (S40603AW) was topically applied to the skin between shoulder blades to the skin. Since the application of FL the cat continued to pick up 1-2 ticks a days. The cat is a barn cat and lives outside. No further information

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 3 lbs				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					available.
29-Apr-2019	UAE; 19US022785; NJ; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Apr-2014*	27-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 29 April 2019, the owner reported the following event for 2 cats (signalment unknown). 20 April 2019: The owner applied one vial of FRONTLINE PLUS CATS (FL) (S40502AX) to the skin between the shoulder blades to each cat. *27 April 2019: The owner noticed fleas on the cats. One indoor cat has a large quantity of fleas and the other cat (outdoor cat) has a low number of fleas. The cats have been treated with FL for 5 plus years and are treated monthly year round. There are fleas in the home as of this past weekend. The cats are not bathe.On an unknown date the indoor cat had a bayer flea collar applied. No further information available.
29-Apr-2019	UAE; 19US022795; NY; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 72 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Apr-2019*	22-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019 the pet owner reported the following event for a 72 pound male large crossbred (>20 kg). All other signalments are unknown. *21 Apr 2019: The owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S60913AR) to the skin between the shoulder blades for the first time because the dog had ticks. *22 Apr 2019: The owner continued to notice old ticks along with new ticks each day. All of the ticks are alive and attached. Some of the ticks are fully engorged and falls off of the dog . Owner is not sure how many ticks are on the pet just knows there are a lot on the head and ears and a couple on the body. The owner has not and will not remove any ticks from the dog. There is a cat in the home using another unknown product not having any issues. The dog has access to large grassy fields and wooded areas. No further medical information expected.
29-Apr-2019	UAE; 19US022805; -; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Mar-2019*	29-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019, the owner reported the following event for Angel, female, German Shepherd Dog (all other signalments unknown). March 2019: The dog started on the FRONTLINE PLUS DOG on a monthly basis. 26 Apr 2019: One vial of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was applied between the shoulder blades, by the pet owner. 29 Apr 2019: The dog had a small amount of fleas. The dog did not present to clinic and and no treatment was provided. The dog has chewed her tail raw as a result of fleas on her. The dog has access to a fenced in yard. There are 4 other dogs in the household using the FRONTLINE PLUS but are not having any issues with fleas. No further medical information is expected.
26-Apr-2019	UAE; 19US022818; MS; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:**	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	26-Apr-2019	26-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 26 Apr 2019, the following event was reported to Safety Call International (SCI) by the pet owner for Jack, a 12 pound, 7 year old, neutered male Domestic Shorthair. 26 Apr 2019: Owner applied 1 tube FRONTLINE PLUS CATS (540606)(invalid lot) on the skin between the shoulder blades and immediately, within 15 minutes, the cat started hypersalivating and

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		Neutered **Age:** 7.00 Year(s) **Weight:** 12 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					may have vomited once, but this is not confirmed in the report. The owner also applied the product in the same manner to the other cat and they were together after application. The owner did not witness ingestion of the product. The cat has a history of urinary tract infections and fleas per the SCI report, but it is not confirmed if the cat had fleas prior to starting the product or afterwards. It is unknown if the cat has received the product previously. The current status of the cat is unknown. The owner was instructed to give the cat a small meal to wash the bad taste our of his mouth if the issues were caused by him licking the product, but it is unknown if the owner did so. No further medical information expected. UPDATE 29 Apr 2019: Per conversation with the pet owner the cat recovered by 27 Apr 2019. The pet owner had no further information. No further medical information expected.
29-Apr-2019	UAE; 19US022869; NY; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 103 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Apr-2019	29-Apr-2019	0 Day(s)	D-C	Suspected Adverse Event: On 29 Apr 2019, the owner reported the following event for Cosmo, a 103 pound, 9 year old, male, neutered, Pit-bull and Lab Mix. 29 Apr 2019: One vial of FRONTLINE PLUS DOG 89-132 LBS (P62301AR) was applied topically in between the pet's shoulder blades by the owner at 10:30 AM. 45 minutes later the pet began to experience symptoms of ataxia of all 4 legs, anorexia, and lethargy. The pet was not presented to a clinic. This is the first does of FRONTLINE given.No further medical information expected.
29-Apr-2019	UAE; 19US022909; NY; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	24-Apr-2019	26-Apr-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019, the pet owner reported the following event for Romeo, a 1 year old, 30 lb intact male Australian Shepherd. 24 Apr 2019: Dog received one dose of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) (FL) topically in an unknown manner. Following the application, the pet owner stated that she was finding ticks on the dog. One tick was removed at the veterinary clinic and the following day another tick was found and removed by the pet owner. The ticks found were attached to the dog. The dog is primarily outside. No further medical information expected.
29-Apr-2019	UAE; 19US022925; LA; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** unknown flea spray; **Route:** Topical / Cutaneous **Was the product used**	22-Apr-2019	23-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim and Suspected Adverse Event: On 29 Apr, 2019, the pet owner reported the following event for Harvey a male intact, 2 year old, 20 pound, feline mixed breed. 22 Jan 2019*: The pet owner first noticed fleas on Harvey prior to first application. 9 Apr 2019*: The pet owner applied unknown flea spray to Harvey. 22 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (J40206AW) topically according to label instructions to the body of Harvey for first time with 15+ fleas present on his body. 23 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS topically to the body of Harvey with 15+ fleas present on his body. 29 Apr 2019: The pet owner also has noticed Harvey with diarrhea

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: No (Treatment / vaccination program not respected)					at time of report. Harvey was in good health at time of application. Harvey is strictly indoors. The pet owner has not seen fleas in the home. The home environment has been treated. Harvey was not presented to veterinarian. The current status of Harvey is unknown. No further medical information.
29-Apr-2019	UAE; 19US022934; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Apr-2014*	19-Apr-2019*	2 Day(s)	D-C	Suspected Adverse Event: On 29 April 2019, the owner reported the following event for Shadow, a 10 year old, 13 pound, spayed female Domestic Shorthair. *17 April 2019: One vial of FRONTLINE PLUS CATS (FL) (R40202AW) was topically applied to the skin between the shoulder blades. *19 April 2019: The cat developed nickel size hair loss at the application site. The owner is monitoring the cat's condition. Shadow has been on FL at least the past 5 years without issues. No further information available.
29-Apr-2019	UAE; 19US022961; CT; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 40 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Apr-2013*	28-Apr-2019	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019, the owner reported the following event for Molly,6 years old, 40 pounds, spayed female, Medium crossbred (10-20 kg). 2013*: The dog started on FRONTLINE PLUS DOG on a monthly basis year round. 22 Apr 2019: The most recent vial of FRONTLINE PLUS DOG 23-44 LBS (P60802BL) was applied between the shoulder blades, by the pet owner. 28 Apr 2019: The dog had 8 black legged ticks. The owner stated that the ticks were still alive upon removal of them from dog skin. 29 Apr 2019: The dog does not have anymore ticks on her. No further medical information is expected.
29-Apr-2019	UAE; 19US023007; CA; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Jan-2016*	27-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019 the pet owner reported the following event for GiGi a 3 year old female Pomeranian. All other signalments are unknown. *5 Jan 2016: The owner began treating the dog with 1 vial of FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades and repeated from Jan to Oct on the 5th thereafter each year. 5 Apr 2019: The owner applied another dose. 24 Apr 2019: The owner brought a puppy home with fleas and applied the most recent dose. 27 Apr 2019: The owner began noticing fleas on the dog. There is 1 other dog in the home with case 19US023125. The owner only notices any flea activity inside the home at night when sleeping with the dogs. The dog goes outside into a treated kenneled area for about 5 minutes per day. No further medical information expected.
29-Apr-2019	UAE; 19US023010; CA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Jan-2013*	09-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019, the owner reported the following event for an unknown Golden Retriever and Lab Mix*, weighing 88 pounds, 7 year old, female, other signalment unknown. 8 Apr 2019: One vial of FRONTLINE PLUS DOG 89-132 LBS (G68103AR) was applied topically in between the pets' shoulder

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		Age: 7.00 Year(s) **Weight:** 88 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)					blades by the owner. 9 Apr 2019*: The owner noticed a small amount of fleas seen. The pet is indoor/outdoor and have access to a fenced in yard. Wildlife is seen within the area. No fleas have been seen inside the home. The pet does have issues with dry skin. Fleas have been noticed for about a month.The pet has used FRONTLINE since Jan 2017*, unknown frequency of use. No further medical information expected.
29-Apr-2019	UAE; 19US023011; CA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dawn bath; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Apr-2018	29-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 April 2019, the owner reported the following event for Max, a 9 year old, 20 pound, neutered male mixed breed dog. 28 April 2019: Max had fleas, he was bathe with Dawn and one vial of FRONTLINE PLUS DOG 5-22 LBS (FL)(S60808AL) was applied to the skin between the shoulder blades. The dog continued to pick up fleas. Max has been dealing with fleas for the past 6 weeks and is treated with FL monthly for the past year. Max is exposed to a big open field daily and is picking up a large number of fleas. No further information available.
29-Apr-2019	UAE; 19US023039; OR; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	29-Apr-2019*	29-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 29 Apr 2019 the pet owner reported the following event for an unknown canine. All signalments are unknown. *29 Apr 2019: Owner applied an unknown amount of FRONTLINE PLUS DOG 5-22 LBS (PRODUCT UNSUBSTANTIATED) (UNKNOWN) to the skin between the shoulder blades for the first time. An unknown amount of time later the fur at the application site became waxy. The symptoms are ongoing. The dog did not present to the vet clinic. There are an unknown amount of other dogs in the home using an unknown amount of a smaller dose of FRONTLINE PLUS with no issues. Owner declined providing additional information. No further medical information expected.
29-Apr-2019	UAE; 19US023050; CA; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 9 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Apr-2018*	27-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 29 Apr 2019, the pet owner reported the following event for Milly a female spayed, 9 pound, 6 year old, Maltese/ Poodle crossbreed. Apr 2018*: The pet started receiving FRONTLINE PLUS DOG 5-22 LBS (lot unknown) previously on a seasonal basis during the spring and summer months with no history of reaction. 27 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61017AL) topically to the skin between the shoulder blades. The pet owner noticed Milly vomited 3 times approximately 10 hours post application. 28 Apr 2019: Milly was not seen by a veterinarian and recovered with no treatment provided. Milly was in good health at time of application and has no history of drug or vaccine reactions. There is one other dog in the household that also received the FRONTLINE PLUS with no reaction noted. No further medical information expected.
29-Apr-2019	UAE; 19US023063;	**Species:** Canine **Breed:** Pug	1	1	0	**Product used:** FIPRONIL	10-Apr-2019	22-Apr-2019*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019, the owner reported the following event for Stanley, an 8 pound, male

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	NH; U.S.A	**Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Month(s) **Weight:** 8 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					neutered, 5 month old, Pug. 10 Apr 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (Unknown lot number) was applied topically in between the pets' shoulder blades by the owner. 22 Apr 2019*: The owner noticed a tick on the pet attached but not engorged and still alive. This is the 3rd tick the owner has removed off of the pet this week. The pet is indoor/outdoor and have access to a fenced in yard and walked on a leash. No wildlife is seen within the area. The pet is newly adopted and the owner does not know if this is a previous issue. This the first dose for the pet. The owner is also bathed the pet in Burt's Bee Puppy shampoo twice since adopting, bathing frequency unknown. No further medical information expected.
29-Apr-2019	UAE; 19US023064; MD; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Apr-2019	29-Apr-2019	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019, the pet owner reported the following event a canine all signamlaments unknown. 20 Apr 2019: 1 vial of FRONTLINE PLUS DOG 23-44 LBS(lot unknown) was applied to the dog. Lot unknown package unavailable. 29 Apr 2019: The dog has tape worms. The owner treats year round with FRONTLINE. The dog has access to 18 acres and he runs freely for potty breaks and recreation. No fleas seen on the dog. No futher information is available at this time.
29-Apr-2019	UAE; 19US023092; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 24 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	16-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 Apr 2019, the owner reported the following event for Hitttie, 11 year old, 24 pound, neutered male, Domestic Shorthair Feline. 16 Apr 2019: Fleas were found on the indoor pet. One vial of FRONTLINE PLUS CAT (lot unknown) was applied between the shoulder blades. 17 Apr 2019*: The owner found a small number of fleas. Fleas were found in the household 25 Apr 2019: The owner had the household and outdoor environment treated. 29 Apr 2019: The owner is continuing to find fleas on the pet. There are 3 other cats in the household having an issue with fleas (see case 19US023095). the cat has received the product in the past on an unknown date with no issue. No further medical information is expected.
30-Apr-2019	UAE; 19US023121; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment /	27-Mar-2019*	27-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019 the pet owner reported the following event for an unknown male feline. All other signalments are unknown. *27 Feb 2019: The owner noticed the cat was chewing holes in the tail and presented him to the vet clinic. The cat was covered with fleas and the vet clinic applied an unknown flea prevention. *27 Mar 2019: The owner applied 1 vial of FRONTLINE PLUS CATS (UNKNOWN) to the back of the head and between the shoulder blades. 27 Apr 2019: The owner began seeing about 10 fleas on the cat again and applied another dose. 30 Apr 2019: The owner noticed the cat has a rash on the belly. The owner believes it is from the fleas not the product. There is 1 other cat in the home sharing the FRONTLINE PLUS

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						vaccination program not respected)					that is not having an ongoing issue with fleas. The owner is not seeing any flea activity in the home. The cat does go outside on a screened in pool deck. No further medical information expected.
30-Apr-2019	UAE; 19US023205; NC; U.S.A	**Species:** Canine **Breed:** Great Dane **Sex:** F **Sex qualifier:** - **Age:** 11.00 Month(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019*	01-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 30 Apr 2019, the pet owner reported the following event for Bella a female intact, non-pregnant non-lactating, 11 month old, 80 pound, Great Dane. 1 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60211AR) topically to Bella for first time according to label instructions. The pet owner stated during the first week of April that dog started losing hair and the hairloss spread all over Bella's back and to her legs. The pet owner also stated that Bella has skin discoloration on her belly, and noticed more spots gradually over the whole month of April. 30 Apr 2019: Bella was in good health at time of the application. Bella has no history of drug or vaccine reactions. The pet owner has taken Bella to veterinarian on unknown dates and she was not treated. Bella has not received any other products at the same time as the FRONTLINE PLUS application. Bella is currently at home with ongoing reaction.
30-Apr-2019	UAE; 19US023219; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 22.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Feb-2019*	27-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019, the owner reported the following event for 1 canine weighing 22 pounds, other signalment unknown. 26 Apr 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (Lot Unknown) was applied topically in between the pets' shoulder blades by the owner. The owner noticed a small amount of fleas and flea dirt mostly seen on the pets after 3 months of consistent use. The pets are indoor/outdoor and have access to a fenced in yard. Wildlife is seen within the area. No fleas have been seen inside the home. The owner uses the product seasonally starting in January but he owner started late this year in February. Fleas have been seen for about a week. There are other pets in the home see additional cases 19US024125 and 19US024126. No further medical information expected.
30-Apr-2019	UAE; 19US023247; FL; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Chocolate) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Feb-2019*	16-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019 the pet owner reported the following event for Angel an 11 year old 85 pound female spayed retriever (Labrador, Chocolate). *6 Feb 2019: The owner began noticing the dog chewing like she had fleas. *18 Feb 2019: The owner applied 1 vial FRONTLINE PLUS DOG 45-88 LBS (UNKNOWN) to the skin between the shoulder blades and repeated the doses on 15 Mar 2019 and 15 Apr 2019. 16 Apr 2019: The owner was still seeing the dog chewing like she had fleas. The owner was noticing some flea dirt on the dog but did not see any fleas. *19 Apr 2019: The dog presented to the vet clinic and the vet found a small amount of fleas on the dog. The dog was switched to NEXGARD and has had no issues since. There are no other pets in the home. The owner was not noticing any flea activity inside the home. The dog goes into the yard to go potty and right back inside. No further medical information expected.
30-Apr-2019	UAE; 19US023263;	**Species:** Feline **Breed:** Feline	16	16	0	**Product used:** FIPRONIL	26-Mar-2019*	27-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 April 2019, the owner reported the following event for 16 indoor cats weight ranges from

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	-; U.S.A	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 - 30 lbs*				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					10-30 pounds (all other signalment unknown). 26 April 2019: One vial of FRONTLINE PLUS CATS (S40603AW) was topically applied to the skin between the shoulder blades to each cat. On an unknown date the cats started picking up fleas. The owner is not seeing any fleas in the home and the cats don't have any skin issues. The cats are treated monthly year round and starting having an issue with fleas in April 2019. There are 3 treated dogs in the home as well. No further information available.
30-Apr-2019	UAE; 19US023315; NY; U.S.A	**Species:** Canine **Breed:** Havanese **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Apr-2019*	24-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019, the pet owner reported the following event for Pickles, a 3 year old, 13 lb neutered male Havanese. 17 Apr 2019: Dog received 1 dose of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) (FL) topically between the shoulder blades. 24 Apr 2019*: The dog went on a series of hikes and would return with ticks on the top layer of fur. 29 Apr 2019: Most recent tick was found on the dog. The pet owner removed the ticks. The pet owner thought FL would prevent that from happening . No further medical information expected.
30-Apr-2019	UAE; 19US023351; LA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Mar-2019*	22-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 30 April 2019, the owner reported the following event for a 30 pound dog (signalment unknown). *21 March 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 23-44 LBS (FL) (lot unknown) was topically applied to the skin between the shoulder blades. 21 April 2019: The dog continued to have fleas and one vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was topically applied to the skin between the shoulder blades. The dog continued to pick up fleas after the application. The dog has been having flea issues for the past 2 months, it is unknown the length of time the dog has been treated with FL. The owner is finding a large number of fleas. There is one other treated dog in the home who is also having a flea issue. See case 19US023431. No further information available.
30-Apr-2019	UAE; 19US023362; TN; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 34 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Apr-2006*	01-Jan-2017*	N/A	D-C	Suspected Adverse Event: On 30 Apr 2019 the pet owner reported the following event for McKenzie a 13 year old 34 lb spayed female Terrier mix. Unknown date 2006*: Dog began receiving doses of unknown FRONTLINE PLUS. Unknown date 2017*: Pet owner applied the unknown FRONTLINE PLUS topically between the shoulder blades. Following the application the pet starting losing fur. The pet owner noticed hair loss at the tail, the back of her front legs, face and underbelly. Unknown date 2018*: Pet continued to receive subsequent doses of unknown FRONTLINE PLUS. Pet owner stated that the hair loss continued. After continued application the pet owner began to notice that the dog's leg would shake a week after receiving the treatment. The symptoms continued and the pet owner continued to give monthly doses of unknown FRONTLINE. The dog was presented to the veterinary clinic on various occasions and

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											numerous tests were run to determine what is causing the symptoms. The vet was unable to determine a cause or find any abnormalities in the bloodwork. March 2019*: Dog received one dose of FRONTLINE PLUS DOG 23-44 LBS (R62420AL) (FL) topically between the shoulder blades. On an unknown date the pet owner stated that they started to notice red blotches on the dog's underbelly and flaky skin all over her body. 6 Apr 2019: The dog received the most recent dose of FL. Following the application the dog had an unknown number of episodes of vomiting and bloody diarrhea. The dog was presented to the veterinary clinic again for various testing and a complete blood count was run and returned no abnormalities. The dog's diet was changed in an effort to resolve the diarrhea. Unknown date: Diarrhea stopped. The dog is in good health outside of the symptoms noted. No further medical information expected.
30-Apr-2019	UAE; 19US023379; NJ; U.S.A	**Species:** Canine **Breed:** Cockapoo **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 29.20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Apr-2019	22-Apr-2019*	1 Day(s)	D-C	Suspected Adverse Event: On 30 Apr 2019, the pet owner reported the following event for Stevie Nix, 6 year old, 29.2 pound, female spayed, Cackapoo. 21 Apr 2019: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied to the dog in one area between the shoulder blades. Lot unknown because the package was not available. 22 Apr 2019*: The owner states the dog would not let her touch the site of application and the skin was irritated and the dogs hair was coming out. 25 Apr 2019: The dog was seen by the Veterinarian and given a Dexamethasone S.P. 4 mg/ml Injectable. 26 Apr 2019: The reaction was ongoing, the dogs skin was not getting better. 29 Apr 2019: The dog was seen by the Veterinarian. The site of application was cleaned and flushed. The dog was prescribed Neo Predef Powder with Tetrcaine 15 gr to apply to the area, and Simplecef 100 mg tablets. The reaction is ongoing. The owner has applied FRONTLINE to the dog in the past at an unknown date, the owner treats as needed. No further information is available. UPDATE 6 May 2019: The pet owner reports the dog is still sore at the application site, but recovering. No further medical information is expected.
26-Apr-2019	UAE; 19US023405; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Adams Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2018	02-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the owner reported the following event for Hylee, 5 year old, 13 pound, neutered male, Feline (breed unknown). 1 Apr 2019: One vial of FRONTLINE PLUS CATS lot unknown) was applied between the shoulder blades. 2 Apr 2019: The owner found 4-5 fleas on the cat. The cat is indoor/outdoor and has access to a fenced in yard. unknown date: The owner bathed the pet with Adams shampoo. The owner also treated the home with Adams spray. 26 Apr 2019: The owner found fleas on the cat daily up to the time of the report. The cat has received the product monthly since 1 Aug 2018 and experienced an issue with fleas on unknown dates. There is one other cat and a dog in the household that also received FRONTLINE and is experiecning an issue (see case 19US023415, 19US022606). No further medical information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
26-Apr-2019	UAE; 19US023415; -; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Adams Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2018	02-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 26 Apr 2019, the owner reported the following event for LR, 5 year old, 18 pound, neutered male, Feline (breed unknown). 1 Apr 2019: One vial of FRONTLINE PLUS CATS lot unknown) was applied between the shoulder blades. 2 Apr 2019: The owner found 4-5 fleas on the cat. The cat is indoor/outdoor and has access to a fenced in yard. unknown date: The owner bathed the pet with Adams shampoo. The owner also treated the home with Adams spray. 26 Apr 2019: The owner found fleas on the cat daily up to the time of the report. The cat has received the product monthly since 1 Aug 2018 and experienced an issue with fleas on unknown dates. There is one other cat and a dog in the household that also received FRONTLINE and is experiecning an issue (see case 19US023405, 19US022606). No further medical information is expected.
30-Apr-2019	UAE; 19US023428; CA; U.S.A	**Species:** Feline **Breed:** British Shorthair **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Apr-2019	17-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019, the owner reported the following event for Sam, 14 year old, 15 pound, neutered male, British Shorthair feline. 30 Mar 2019: The owner purchased 8 pack of FRONTLINE PLUS CATS (S40502AX) 17 Apr 2019: Fleas were found on the pet. One vial was applied between the shoulder blades. 18 Apr 2019: The owner continued to find fleas on the cat. The owner also noticed the cat was itching. The cat is strictly indoor. The owner lives on the third floor of an apartment. 26 Apr 2019: Another vial was applied. 30 Apr 2019: The owner found 2 fleas on the cat. The cat has received the product monthly since 17 Apr 2009* with no issue. UPDATE 14 May 2019: There are no other pets in the household. No further medical information is expected.
30-Apr-2019	UAE; 19US023429; CA; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 55 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea collar; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	01-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019, the pet owner reported the following event for Charlie a male neutered, 8 year old, 55 pound, Large crossbred. 1 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS (S62202) topically according to label instructions to the body of Charlie on year round basis every month. 1 Mar 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically according to label instructions to the body of Charlie with 5-6 fleas and approximately 20 live attached ticks. 30 Apr 2019: At the time of the report, Charlie was in good health at time of application. Charlie has not had this problem before. Charlie has not been bathed by pet owner. Charlie has no history of skin problems or any other issues with topical treatments. The pet owner has treated her home environment. The pet owner has seen fleas jumping on her in the home and ticks attached to her body in the home. Charlie is mainly indoors and outsides in fenced yard. The pet owner has contacted her veterinarian and Charlie was treated with unknown flea collar on unknown dates. Charlie shares FRONTLINE PLUS DOG 45-88 LBS with one other dog in the home with case number 19US023575. Charlie is in home with 3 other dogs with flea and tick issues that have case numbers 19US023575, 19US023677, and 19US023684. The current status of Charlie is unknown. No further medical information.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
30-Apr-2019	UAE; 19US023431; LA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Mar-2019*	21-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 30 April 2019, the owner reported the following event for a 14 pound dog (signalment unknown). *21 March 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (FL) (lot unknown) was topically applied to the skin between the shoulder blades. 21 April 2019: The dog conitnued to have fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was topically applied to the skin between the shoulder blades. The dog continued to pick up fleas after the application. The dog has been having flea issues for the past 2 months, it is unknown the length of time the dog has been treated with FL. The owner is finding a large number of fleas. There is one other treated dog in the home who is also having a flea issue. See case 19US023351. No further information available.
01-May-2019	UAE; 19US023449; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2018*	24-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019 the pet owner reported the following event for 2 unknown canines. All other signalments are unknown. *1 May 2018: The owner applied 1 vial of FRONLTINE PLUS DOG 5-22 LBS (product unsubstantiated) (UNKNOWN) to the skin between the shoulder blades and repeated the dose monthly on the 1st thereafter. *24 Apr 2019: The owner noticed an unknown amount of fleas on the dogs for the first time. 1 May 2019: The most recent dose was applied and the owner continues to see fleas. There are no other pets in the home. The owner recently moved to a new home and believes the house was infested with fleas. The dogs have access to a new yard for recreational purposes. No further medical information expected.
01-May-2019	UAE; 19US023484; MN; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Apr-2019	29-Apr-2019	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for Stella, 65 pound, spayed female, German Shepherd canine. 24 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61600AR) was applied between the shoulder blades for the first time. 29 Apr 2019: The owner found a tick on the dog. The tick was removed and still alive. There is one other dog in the household also receiving FRONTLINE and experiencing an issue (See case 19US023494). No further medical information is expected.
01-May-2019	UAE; 19US023494; MN; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 95 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	24-Apr-2019	29-Apr-2019	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for Buck, 95 pound, neutered male, German Shepherd canine. 24 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61600AR) was applied between the shoulder blades for the first time. 29 Apr 2019: The owner found a tick on the dog. The tick was removed and still alive. There is one other dog in the household also receiving FRONTLINE and experiencing an issue (see case 19US023484). No further medical information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
01-May-2019	UAE; 19US023500; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	01-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On May 1 2019 the pet owner reported the following event for an unknown feline. All signalments are unknown. 1 May 2019: the owner applied 1 vial of FRONTLINE PLUS CATS (UNKNOWN) to the skin between the shoulder blades for the first time. The cat immediately started licking the product off and began foaming at the mouth. The symptoms are ongoing. The cat did not present to the vet clinic. There is 1 other cat in the home who also received FRONTLINE PLUS and licked off the product but did not exhibit signs. No further medical information expected.
01-May-2019	UAE; 19US023520; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-May-2019*	01-May-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 1 May 2019, the owner reported the following event for an Unknown Canine. Other signalment unknown. 1 May 2019*: One vial of FRONTLINE PLUS DOG (product unsubstantiated)(Lot unknown) was applied topically in in an unknown location by the owner. Unknown Date: The pet began acting lethargic, staring, and not acting normally. The pet was not presented to a clinic. This is the first does of FRONTLINE given. No further medical information expected.
01-May-2019	UAE; 19US023558; CA; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2019*	30-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy: On 1 May 2019, the pet owner reported the following event for Christy, 11 pound, female spayed, Bichon Frise. All other signalments unknown. 26 Apr 2019: The dog was bathed by the groomer in an unknown shampoo. 29 Apr 2019: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60714AX) was applied to the dog in one area between the should blades. 30 Apr 2019: The owner saw 1-2 fleas on the dog and removed them. The owner has not seen any more fleas on the dog since she removed them. The owner has been treating the dog year round with FRONTLINE PLUS for an unknown number of years. The dog goes out for potty breaks and recreation in yard where urban wildlife present. There a no fleas present in the home. The dog has no history of skin issues. There is one other dog in the home, unknown if it is having an issue with fleas. Owner declined to provide signalments. No further medical information is expected.
30-Apr-2019	UAE; 19US023575; CA; U.S.A	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea collar; **Route:** Topical / Cutaneous	01-Mar-2018*	01-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019, the pet owner reported the following event for Ana a female neutered, 5 year old, 50 pound, Poodle. 1 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS (S62202) topically according to label instructions to the body of Ana on year round basis every month. 1 Mar 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically according to label instructions to the body of Ana with 5-6 fleas and approximately 20 live attached ticks. 30 Apr 2019: At the time of the report, Ana was in good health at time of application. Ana has not had this problem before. Ana has

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					not been bathed by pet owner. Ana has no history of skin problems or any other issues with topical treatments. The pet owner has treated her home environment. The pet owner has seen fleas jumping on her in the home and ticks attached to her body in the home. Ana is mainly indoors and outsides in fenced yard. The pet owner has contacted her veterinarian and Ana was treated with unknown flea collar on unknown dates. Ana shares FRONTLINE PLUS DOG 45-88 LBS with one other dog in the home with case number 19US023429. Ana is in home with 3 other dogs with flea and tick issues that have case numbers 19US023429, 19US023677, and 19US023684. The current status of Ana is unknown. No further medical information.
01-May-2019	UAE; 19US023613; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Apr-2018*	15-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for a 10 pound cat (signalment unknown). 14 April 2019: One vial of FRONTLINE PLUS CATS (FL) (R41105AW) was applied to the skin between the shoulder blades. On an unknown date the owner noticed the cat had flea bites without the presence of fleas. The cat starting having an issue with flea bites a few weeks ago. The cat is strictly indoors and there are no fleas in the home. The cat is treated with FL monthly year round and hasn't had any issues in the past. There is one dog in the home that's on a Seresto collar. No further information available. UPDATE 24 May 2019: Per the pet owner, FRONTLINE PLUS CATS has been applied monthly on the fourteenth with vials having been applied (as described above) on 14 Feb 2019 and 14 Mar 2019. No further medical information expected.
01-May-2019	UAE; 19US023642; NY; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2019	01-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the pet owner reported the following event for a 6 pound, 5 year old, female spayed, Chihuahua. All other signalments unknown. 1 Mar 2019: The dog was having an issue with fleas. 1 vial of FRONTLINE PLUS DOG 5-22 LBS(M61520AL) was applied to the dog in one area between the shoulder blades. The owner was seeing small amount of fleas on the dog every day after the application. 1 Apr 2019: The owner applied the second dose of FRONTLINE PLUS DOG 5-22 LBS to the dog. The owner was seeing small amount of fleas on the dog every day since the application. 1 May 2019: The owner applied the third dose of FRONTLINE PLUS DOG 5-22 LBS to the dog. The owner has seen 1-3 fleas on the dog. The dog goes out for potty breaks on the sidewalk in a small grassy area. Some fleas are present in the home. The owner states he treats year round with FRONTLINE PLUS. The dog does not have a history of skin issues and has not had a bath recently. No further medical information is expected.
01-May-2019	UAE; 19US023650; PA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	20-Mar-2019	20-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the pet owner reported the following event for Coco, 13 year old, 14 pound, female spayed, Chihuahua. 20 Apr 2019: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (J62704AL) was applied to the dog in one area between the shoulder blades. The owner has seen five live and engorged ticks on the dog since the application. The owner treats seasonally with different products. First application of FRONTLINE was given Mar 2019,ticks were present on the dog after the first application. The dog goes out for potty

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						Was the product used ok?: Yes					breaks in large wooded yard, where there a lot of urban wildlife present. The dog has no history of skin issues and has not had a bath recently. No further medical information is expected.
30-Apr-2019	UAE; 19US023677; CA; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea collar; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	01-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019, the pet owner reported the following event for Trudy a female spayed, 6 year old, 15 pound, Dachshund. 1 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (S62106) topically according to label instructions to the body of Trudy on year round basis every month. 1 Mar 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of Trudy with 5-6 fleas and approximately 20 live attached ticks. 30 Apr 2019: At the time of the report, Trudy was in good health at time of application. Trudy has not had this problem before. Trudy has not been bathed by pet owner. The pet owner has treated her home environment. The pet owner has seen fleas jumping on her in the home and ticks attached to her body in the home. Trudy is mainly indoors and outsides in fenced yard. The pet owner has contacted her veterinarian and Trudy was treated with unknown flea collar on unknown dates. Trudy shares FRONTLINE PLUS DOG 5-22 LBS with one other dog in the home with case number 19US023684. Trudy is in home with 3 other dogs with flea and tick issues that have case numbers 19US023575, 19US023429, and 19US023684. The current status of Trudy is unknown. No further medical information.
30-Apr-2019	UAE; 19US023684; CA; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea collar; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2019*	01-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Apr 2019, the pet owner reported the following event for Gracie a female spayed, 8 year old, 14 pound, Dachshund 1 Mar 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (S62106) topically according to label instructions to the body of Gracie on year round basis every month. 1 Mar 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of Gracie with 5-6 fleas and approximately 20 live attached ticks. 30 Apr 2019: At the time of the report, Gracie was in good health at time of application. Gracie has not had this problem before. Gracie has not been bathed by pet owner. Gracie has no history of skin problems or any other issues with topical treatments. The pet owner has treated her home environment. The pet owner has seen fleas jumping on her in the home and ticks attached to her body in the home. Gracie is mainly indoors and outsides in fenced yard. The pet owner has contacted her veterinarian and Gracie was treated with unknown flea collar on unknown dates. Gracie shares FRONTLINE PLUS DOG 5-22 LBS with one other dog in the home with case number 19US023677. Gracie is in home with 3 other dogs with flea and tick issues that have case numbers 19US023575, 19US023677, and 19US023429. The current status of Gracie is unknown. No further medical information.
01-May-2019	UAE; 19US023691; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Jan-2017*	01-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for 3 canines weighing between 45-80 pounds, other signalment unknown. 1 May 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (R62301AR) was applied topically in between the pets' shoulder blades by the owner.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: - **Weight:** 45 - 80 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					The owner noticed a large amount of fleas on the pets after months of use. The pets are indoor/outdoor and have access to a fenced in yard and rural area with other animals. Wildlife is seen within the area. No fleas have been seen inside the home. The owner uses the product on a year round basis and treats the inside and the outside of the home. This is the first time the owner has noticed fleas on the pets. The owner purchases a 3 pack every month for pets since Jan 2017* No further medical information expected.
01-May-2019	UAE; 19US023695; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Apr-2007*	01-Mar-2019*	N/A	D-C	Suspected Adverse Event:: On 1 May 2019, the owner reported the following event for Blanch, 13 year old, 8 pound, spayed female, Domestic Shorthair feline. 1 Mar 2019: One vial of FRONTLINE PLUS CATS (R40101AW) was applied between the shoulder blades. The owner began to notice the cat losing weight and vomiting hair balls. 21 Apr 2019: The cat fell off the couch and hit the top of her head . The pet began spinning in circles and then running around the living room. The episode lasted for an unknown period of time and then the cat recovered. 22 Apr 2019*: The owner presented the cat to the clinic. The attending veterinarian ran a blood chemistry which came back WNL. No treatment was provided. 1 May 2019: The vomiting and weight loss are still ongoing. The cat has received the product year round since 27 Apr 2007* with no issues. The owner also reported a lack of efficacy with the product (19US023774). No further medical information is expected.
01-May-2019	UAE; 19US023717; LA; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 23 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2015*	01-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy: On 1 May 2019, the pet owner reported the following event for Linda, 23 pound, 7 year old, female spayed, Beagle mix. 1 Feb 2019*: The dog was having an issue with fleas, 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied to the dog. 1 Mar 2019*: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied to the dog. The owner was seeing fleas on the dog every day after the application. 17 Apr 2019*: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied to the dog in one area between the shoulder blades. The owner has been seeing 15 fleas on the dog every day since the application. Lot and expiration unknown because the package is unavailable. The dog goes out for potty breaks and recreation in area that is mostly concrete. There are a lot of fleas present in the home biting the humans. Owner treats year round with FRONTLINE. No further medical information is expected.
01-May-2019	UAE; 19US023728; CT; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 52.000 - 62.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	15-Apr-2019*	18-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy: On 1 May 2019, the veterinary clinic staff reported the following event for a 52 lb and 62 lb canine, additional signalment unknown. On an unknown date in Apr 2019: The dogs received a dose of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) (FL) topically in an unknown manner. Following the application the dogs were taken on a hike and an unknown number of ticks were found on the dogs at the completion of the hike. The pet owner declined to provide any further information. The dogs received a subsequent dose of FL and presented with

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Unknown to Company					adverse symptomsm see case 19US026862. No further medical information expected.
01-May-2019	UAE; 19US023742; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 20 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Dec-2018	28-Dec-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for two 20 pound canines (all other signalments unknown). 27 Dec 2018: The owner found fleas on the pets. One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied between the shoulder blades. 28 Dec 2018: The owner continued to see fleas on the pets. The dogs also began scratching and the owner noted flea dirt. The dogs have access to a fenced in yard for potty breaks. Unknown date: The owner started to notice flea activity in the household. 27 Jan 2019-27 Apr 2019: Another vial was applied. The flea issue persisted. 30 Apr 2019: An exterminator came to treat the home and yard. 1 May 2019: The flea issue is still ongoing. There are 3 other dogs and 2 cats in the household all receiving the FRONTLINE and experiencing an issue with fleas (see case 19US024870, 19US024873, 19US024876). No further medical information is expected.
01-May-2019	UAE; 19US023763; GA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Oster's Flea and Tick Shampoo; Unknown heartworm chewable; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Apr-2018*	01-Apr-2019	N/A	D-D	Suspected Lack of Efficacy: On 1 May 2019, the pet owner reported the following event for BitBit a female spayed, 12 years old, 13 pound, Chihuahua. Unknown dates: BitBit has received unknown chewable for heartworm from veterinarian. 1 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS on year round basis every month to the body of BitBit. 1 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61902) topically according to label instructions to the body of BitBit with 5-15 fleas on her body. 8 Apr 2019*: The pet owner one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of BitBit with 5-15 fleas on her body. 1 May 2019: The pet owner one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of BitBit with 5-15 fleas on her body. At the time of the report, BitBit was in good health at time of application. BitBit has not had this problem before in the past. The home environment has been treated by pet owner. BitBit has no history of skin problems or any other issues with topical treatments. BitBit is indoors and outside in fenced yard. The pet owner first noticed fleas over a month ago before 1 Apr 2019 application date. The pet owner stated that fleas are jumping on her in the home. The current status of BitBit is unknown. BitBit does share home with one other dog with case number 19US023773. No further medical information.
01-May-2019	UAE; 19US023764; NY; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	08-Apr-2013*	13-Apr-2019	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for Dager, 6 year old, 60 pound, neutered male, Siberian Husky canine. 8 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. 13 Apr 2019: The owner found 2 ticks on the dog. The owner removed the ticks, both were attached and alive. 15 Apr 2019: The pet presented to the clinic for a check up after ticks were found. The attending veterinarian started the pet on

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						Cutaneous **Was the product used ok?:** Yes					Amoxicillin. The dog has received the product seasonally since 8 Apr 2013* with no issue. There is also a cat in the household being treated with FRONTLINE and having no issue. No further medical information is expected.
01-May-2019	UAE; 19US023772; FL; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** - **Age:** 6.00 Year(s) **Weight:** 11 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Apr-2016*	11-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for Little Man, 6 year old, 11 pound, intact male, Maltese canine. 10 Apr 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (S61412AL) was applied between the shoulder blades. The dog has access to 3 acres of land. 11 Apr 2019*: The owner found up to 20 fleas on the pet. No fleas were found in the household. Unknown date: the owner bathed the pet with a shampoo form the veterinarian. 1 May 2019: The owner is continuing to find up to 20 fleas on the pet each week. The dog has received the product monthly since 10 Apr 2016* with no issue. There is one other dog in the household being treated with the product and having no issue. No further medical information is expected.
01-May-2019	UAE; 19US023773; GA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Month(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Oster's Flea and Tick Shampoo; Unknown heartworm chewable; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Apr-2018*	01-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the pet owner reported the following event for Bonnie a female spayed, 7 months old, 25 pound, Retriever (Golden). Unknown dates: Bonnie has received unknown chewable for heartworm from veterinarian. 1 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS on year round basis every month to the body of Bonnie. 1 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61902) topically according to label instructions to the body of Bonnie with 5-15 fleas on her body. 8 Apr 2019*: The pet owner one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of Bonnie with 5-15 fleas on her body. 1 May 2019: The pet owner one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of Bonnie with 5-15 fleas on her body. At the time of the report, Bonnie was in good health at time of application. Bonnie has not had this problem before in the past. The home environment has been treated by pet owner. Bonnie has no history of skin problems or any other issues with topical treatments. Bonnie is indoors and outside in fenced yard. The pet owner first noticed fleas over a month ago before 1 Apr 2019 application date. The current status of Bonnie is unknown. The pet owner stated that fleas are jumping on her in the home. Bonnie does share home with one other dog with case number 19US023763. No further medical information.
01-May-2019	UAE; 19US023774; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	27-Apr-2007*	02-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for Blanch, 13 year old, 8 pound, spayed female, Domestic Shorthair feline. 16 Jan 2019: A 6 pack of FRONTLINE PLUS CATS (R40101AW) was purchased. 1 Apr 2019: One vial was applied between the shoulder blades. 2 Apr 2019: The owner started to notice a small amount of fleas on the cat. The cat also began itching and pulling fur out. The cat is strictly indoor. 1 May 2019: The flea issue is still ongoing.

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						Was the product used ok?: Yes					The cat has received the product monthly since 27 APr 2007* with no issue.The cat also experienced symptoms after using the FRONTLINE (see case 19US024890). No further medical information is expected.
02-May-2019	UAE; 19US023802; MA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	02-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019 the pet owner reported the following event for 2 unknown canines. All other signalments are unknown. *1 May 2017: The owner applied 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S62704) to the skin between the shoulder blades for the first time and repeated on a monthly and year round basis on the 1st of each month. 1 May 2019: The owner applied the most recent dose. 2 May 2019: The owner found 1 tick on both of the dogs. 1 tick was embedded and alive. The other tick was crawling through the fur. It is unknown if owner removed the ticks. There is 1 other dog in the home sharing the FRONTLINE PLUS with no ticks. The dogs have access to a wooded area. No further medical information is expected.
02-May-2019	UAE; 19US023847; CA; U.S.A	**Species:** Feline **Breed:** Feline Other **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Month(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-Apr-2018*	02-May-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the pet owner reported the following event for BeeBee a male neutered, 11 month old, 8 pound, Feline mixed breed/ Orange Tabby. 30 Apr 2018*: The pet owner applied one dose of FRONTLINE PLUS CATS (M40901AW) topically according to label instructions on year round basis every month to BeeBee. 30 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS topically according to label instructions to BeeBee. 2 May 2019: The pet owner noticed 15+ fleas on the body of BeeBee. At the time of the report, BeeBee was in good health at time of application. BeeBee was not presented to veterinarian. The home environment has not been treated by pet owner. BeeBee has no history of skin problems or any other issues with topical treatments. BeeBee is indoors and outside for bathroom breaks. BeeBee has not been bathed by pet owner. BeeBee has not has this problem before in the past. The pet owner has not seen fleas in the home. The current status of BeeBee is unknown. No further medical information.
02-May-2019	UAE; 19US023849; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	30-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the pet owner reported the following event for a male canine, additional signalment details unknown. Unknown date: Pet owner applied 1 dose of FRONTLINE PLUS DOG 5-22 (lot unknown) (FL) in an unknown manner. An unknown time later the pet owner found 2 ticks on the dog. The ticks were removed by the pet owner. No additional information was provided about the ticks found nor the pet's environment. No further medical information expected.
02-May-2019	UAE; 19US023875; OK; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	01-Jan-2016*	01-Jan-2016*	0 Day(s)	D-D	Suspected Adverse Event: On 2 May 2019, the owner reported the following event for a Feline (all other signalments unknown). Unknown date: A few years ago, an unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. After an unknown period of time the cat

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		Unknown **Age:** - **Weight:** Unknown				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					experienced vomiting. It is unknown if the pet presented to the clinic or if any treatment was provided. The cat recovered on an unknown date. No further medical information is expected.
02-May-2019	UAE; 19US023901; NE; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 20.00 Month(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	01-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 2 May 2019, the pet owner reported the following event for Cooper, 60 pound, 20 month old, male neutered, Large crossbred (>20 kg). 30 Apr 2019: 1 vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied to the dog in one area between the shoulder blades for the first time. 1 May 2019: The dog was lethargic, not eating, not able to rest, and would not play or bark. The owner gave the dog and hour long bath with unknown shampoo to wash FRONTLINE off and immediately after the dog recovered. The dog was not seen by the Veterinarian. No further medical information is expected.
02-May-2019	UAE; 19US023915; MD; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 49 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Feb-2019	02-May-2019	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the pet owner reported the following event for Alice, 49 pound, 7 year old, female spayed, Medium crossbred (10-20 kg). 9 Apr 2019: Fleas were present on the dog. The dog was bathed with an unknown antibacterial pet shampoo. 23 Apr 2019: 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S61202AX) was applied to the dog in one area between the shoulder blades. 2 May 2019: 1-2 fleas seen on the dog. The dog goes out for potty breaks and walks where urban wildlife present. The dog visits a home where untreated cats who go outdoors live. The dog has no history of skin issues. No fleas seen in the home. The owner treats year round with FRONTLINE. No further information is available. UPDATE 29 MAY 2019: Per the owner 29 Feb 2019: 8 doses of FRONTLINE PLUS DOG 45-88 LBS (S61202AX) were purchased form Costco. 22 Mar 2019, 23 Apr 2019, 13 May 2019: A single dose was applied to the dog topically between the shoulder blades by the animal owner. There are no other dogs or cats in the home. No further medical information expected.
03-May-2019	UAE; 19US023928; TN; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	28-Apr-2019	02-May-2019	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the owner reported the following event for Sugar Bear, 5 year old, 60 pound, spayed female, Australian Shepherd canine. 28 Apr 2019: The owner found 2 ticks on the dog. One vial of FRONTLINE PLUS DOG 45-88 LBS (S62111AL) was applied between the shoulder blades. The dog has access to an open yard. 2 May 2019: The owner found 2 more ticks. Both were attached and engorged. The owner has treated the dog seasonally during the summer since 28 Apr 2018 with no issue. There are no other pets in the household. No further medical information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					
02-May-2019	UAE; 19US023929; TN; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Feb-2019*	08-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the pet owner reported the following event for Toby a male intact, 2 year old, 15 pound, Small Crossbred. 2 Dec 2018*: The pet owner first noticed 15+ fleas on the body of Toby. 8 Feb 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61017AL) topically according to label instructions to the body of Toby for the first time with 15+ fleas present. 8 Mar 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS according to label instructions to the body of Toby with 15+ fleas present. 8 Apr 2019*: Toby was bathed with unknown shampoo. The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS according to label instructions to the body of Toby with 15+ fleas present. 2 May 2019: At the time of the report, Toby was in good health at time of application. Toby was not presented to veterinarian. The home environment has been treated by pet owner. Toby has no history of skin problems or any other issues with topical treatments. Toby is indoors and outside for bathroom breaks. Toby has had this problem before in the past and it did not resolve. The pet owner has seen fleas jumping on her in the home. The current status of Toby is unknown. No further information.
02-May-2019	UAE; 19US023945; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** - **Weight:** 9 - 12 lbs	6	6	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Apr-2019	16-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019 the pet owner reported the following event for six 9-12 pound felines of mixed genders. All other signalments are unknown. 13 Apr 2019: The owner switched the cats from Advantage 2 to FRONTLINE PLUS CATS and applied 1 vial between the shoulder blades of each cat for the very first time. The owner was not seeing fleas. *16 Apr 2019: The owner began to notice approximately 3 fleas on each of the cats and the cats began itching. There are no other pets in the home. The cats are all indoor only but have access to an enclosed porch for recreational time. The cats were switched from Advantage 2 because they were beginning to have an unknown reaction. The cats had been on Advantage 2 for a couple years on a monthly and year round basis with no gap in coverage when switching to FRONTLINE PLUS. The owner is not noticing any flea activity inside the home. No further medical information is expected.
02-May-2019	UAE; 19US023969; TN; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 12 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz Rid Flea and Tick shampoo; **Route:** Topical / Cutaneous **Was the product used**	11-Apr-2019	02-May-2019	3 Week(s)	D-D	Suspected Adverse Event: On 2 May 2019, the pet owner reported the following event for Reeses a female spayed, 8 year old, 12 pound, Yorkshire Terrier). 16 Mar 2019: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (P60505AL) topically according to label instructions to the body of Reeses. 11 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Reeses. 2 May 2019: The pet owner bathed Reeses with Hartz Rid flea and tick shampoo. At the time of the report, Reeses was in good health at time of application. Reeses was not presented to veterinarian. The pet owner noticed an increase in scratching and itching. The home environment has been treated by pet owner. Reeses has no

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						ok?: No (Treatment / vaccination program not respected)					history of skin problems or any other issues with topical treatments. Reeses is indoors and outside for potty breaks in wooded area. Reeses has not had this problem in the past. The pet owner has noticed one flea jump on him in the home. The current status of Reeses is unknown. Reeses does share the home with one other dog in the home that has case number 19US024032. No further medical information.
02-May-2019	UAE; 19US024069; IL; U.S.A	**Species:** Canine **Breed:** Dachshund (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN CHEWABLE 136 MCG; Well Beginning Baby Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Mar-2019	02-May-2019	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the pet owner reported the following event for Tucker a male neutered, 1 year old, 13 pound, Dachshund (Miniature). 11 Apr 2018*: The pet owner adminsters unknown amount of HEARTGARD CHEWABLE (lot number unknown, expiration unknown) orally to Tucker on year round basis every month. 11 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topically according to label instructions to the body of Tucker. 11 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to the body of Tucker. 18 Apr 2019: The pet owner bathed Tucker with Well Beginning Baby Shampoo. 2 May 2019: At the time of the report, Tucker was in good health at time of application. Tucker was not presented to veterinarian. The pet owner noticed 1-5 fleas on the body of Tucker. The pet owner has noticed increase in scratching. The pet owner has not seen fleas in the home. The home environment has not been treated by pet owner.The pet owner contacted her veterinarian but Tucker was not treated. Tucker has no history of skin problems or any other issues with topical treatments. Tucker is mainly indoors and outdoors for walks. The current status of Tucker is unknown. No further medical information.
02-May-2019	UAE; 19US024075; FL; U.S.A	**Species:** Canine **Breed:** Bulldog **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Apr-2019	25-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the pet owner reported the following event for Minx a female spayed, 3 year old, 80 pound, American Bulldog. 9 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) topically according to label instructions to Minx for the first time. 20 Apr 2019: The pet owner bathed Minx with unknown shampoo. 25 Apr 2019*: The pet owner first noticed 5-15 fleas on the body of Minx. 2 May 2019: At the time of the report, Minx was in good health at time of application. Minx was not presented to veterinarian. The home environment has been treated by pet owner. Minx has no history of skin problems or any other issues with topical treatments. Minx is indoors and outside for potty breaks in fenced yard. The pet owner has not seen fleas in the home. Minx current status is unknown. Minx does share FRONTLINE PLUS DOG 45-88 LBS with 2 other dogs with case numbers 19US024085, 19US024086. No further medical information.
02-May-2019	UAE; 19US024085; FL; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown	09-Apr-2019	25-Apr-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the pet owner reported the following event for Oliver a male neutered, 7 year old, 40 pound, Yorkshire Terrier. Unknown dates: The pet owner applied unknown amount of Advantix on unknown dates to Oliver. 9 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) topically according to label

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		Weight: 40 lbs				shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)					instructions to Oliver for the first time. 20 Apr 2019: The pet owner bathed Oliver with unknown shampoo. 25 Apr 2019*: The pet owner first noticed 15+ fleas on the body of Oliver. 2 May 2019: At the time of the report, Oliver was in good health at time of application. Oliver was not presented to veterinarian. The home environment has been treated by pet owner. Oliver has no history of skin problems or any other issues with topical treatments. Oliver is indoors and outside for potty breaks in fenced yard. The pet owner has not seen fleas in the home. Oliver current status is unknown. Oliver does share FRONTLINE PLUS DOG 45-88 LBS with 2 other dogs with case numbers 19US024075, 19US024086. No further medical information.
03-May-2019	UAE; 19US024100; MN; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown estrogen pill; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	02-May-2019*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, pet owner reported the following event for Maggie a female neutered, 9 year old, 70 pound, Retriever Labrador. 19 Apr 2018*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (P63007) topically between the shoulder blades to the body of Maggie on year round basis every month. 19 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to the body of Maggie. 2 May 2019*: The pet owner first noticed the 1 alive attached tick. Maggie has taken unknown estrogen pill. Maggie was in good health at time of application. Maggie is mainly indoors and outside for recreational time. Maggie did not have this problem in the past. Maggie has not taken any other topical treatments. The pet owner has contacted her veterinarian but Maggie was not treated. The current status of Maggie is unknown. No further medical information.
03-May-2019	UAE; 19US024123; CT; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	01-May-2019	N/A	D-D	Suspected Adverse Event: On 2 May 2019, the owner reported the following event for Mamma Mia, 2 year old, 9 pound, spayed female, Domestic Shorthair. 1 Apr 2019: One vial of FRONTLINE PLUS CATS (S40815BW) was applied between the shoulder blades. 1 May 2019: Another vial was applied. The cat became hyperactive and started biting her skin. 2 Apr 2019: The cat vomited all day. The owner also noticed the cat was warm. The pet did not present to the clinic and no treatment was provided. No further medical information is expected.
30-Apr-2019	UAE; 19US024125; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 80.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Feb-2019*	27-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim:On 30 Apr 2019, the owner reported the following event for 1 canine weighing 80 pounds, other signalment unknown. 26 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (Lot Unknown) was applied topically in between the pets ' shoulder blades by the owner. The owner noticed a small amount of fleas and flea dirt mostly seen on the pets after 3 months of consistent use. The pets are indoor/outdoor and have access to a fenced in yard. Wildlife is seen within the area. No fleas have been seen inside the home. The owner uses the product seasonally starting in January but he owner started late this year in February. Fleas have been seen for

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											about a week. There are other pets in the home see additional cases 19US024126 and 19US023219. No further medical information expected.
03-May-2019	UAE; 19US024155; TN; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 12 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Route not indicated / recommended)	02-May-2019	02-May-2019	0 Day(s)	D-C	Suspected Adverse Event: On 3 May 2019, the owner reported the following event for GG, an 11 year old, 12 pound, spayed female Dachshund. 2 May 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (S62502AW) was put in the GG's dog food for the first time. Once the food was consumed, that night the dog started to breathe hard, pant, she was disoriented, and drinking a lot of water. 3 May 2019: GG stopped panting, but is still drinking a lot and disoriented. GG has not been seen by the vet and the owner is monitoring her at this time. There is one other dog in the home. No further information available.
03-May-2019	UAE; 19US024198; MI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Miralax; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2019	02-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 3 May 2019, the pet owner reported the following event for Pooky a 15 year old 12 pound male neutered Domestic Shorthair (Crossbreed). *3 May 2017: The cat was started on Miralax 1.5 teaspoons dissolved in food by mouth every other day for constipation. 2 May 2019: The owner applied 1 dose of FRONTLINE PLUS CATS (S40404AW) to the skin between the shoulder blades for the first time. 2 hours later the owner noticed the cat was scratching at the application site. 3 May 2019: The owner woke up and discovered the cat had a bald spot at the application site about 1 inch long and ½ an inch wide. There were no wounds at the application site just missing fur. The symptoms are ongoing. The cat has not presented to the vet clinic. Prior to the FRONTLINE PLUS application the cat had been on Revolution with no issues. No further medical information expected.
03-May-2019	UAE; 19US024209; FL; U.S.A	**Species:** Canine **Breed:** Pointer (German Short-Haired) **Sex:** M **Sex qualifier:** - **Age:** 13.00 Year(s) **Weight:** 75 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Tropiclean pet shampoo; Vaseline; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019*	01-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 3 May 2019, the pet owner reported the following event for Shaman a male intact, 13 year old, 75 pound, Pointer (German Short-Haired). Unknown dates: The pet owner applied vaseline prior to application to kill fleas on the body of Shaman. The pet owner also bathed Shaman with Tropiclean pet shampoo. 1 May 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) topically according to label instructions on a year round basis every month. 1 May 2019: The pet owner first noticed around 15* fleas on the body of Shaman. The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically according to label instructions to the body of Shaman. 3 May 2019: At the time of the report, Shaman was in good health at time of application. Shaman was not presented to veterinarian. The home environment has been treated by pet owner. Shaman has skin tag on eyelids. Shaman has no other issues with topical treatments. Shaman is indoors and outside for bathroom breaks. The pet owner has not seen fleas in the home. Shaman has not had this problem before in the past. The current status of Shaman is unknown. No further medical information.

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03-May-2019	UAE; 19US024234; NJ; U.S.A	**Species:** Canine **Breed:** Scottish Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 26 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Ursodiol; Denamarin; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	02-May-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 3 May 2019, the pet owner reported the following event for Jada a female spayed, 11 year old, 26 pound, Scottish Terrier. Unknown dates: Jada does take unknown amount of Ursodiol and Denamarin for liver. 30 Apr 2018*: The pet owner applied FRONTLINE PLUS DOG 23-44 LBS (lot number unknown) topically according to label instructions on year round basis every month. 30 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS topically according to label instructions to Jada. 2 May 2019: The pet owner noticed and removed 1 alive attached tick present on the body of Jada. 3 May 2019: At the time of the report, Jada was in good health at the time of the application. Jada was not presented to veterinarian.Jada has not been bathed by pet owner. Jada has no history of skin problems or any other issues with topical treatments. Jada is both indoors and outdoors. Jada has not had this problem before in the past. Jada is in contact with one other dog in the home that is treated and has no issues. The current status of Jada is unknown. No further medical information.
03-May-2019	UAE; 19US024249; PA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2019*	02-Jan-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 3 May 2019 the pet owner reported the following event for an unknown 6 year old 20 pound male small crossbred (<10 kg). All other signalments are unknown. *1 Mar 2016: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R62412) to the skin between the shoulder blades for the first time and continued around the beginning of each month thereafter. *1 Jan 2019: The owner applied another dose. *2 Jan 2019: The owner started seeing about 12 fleas on the dog each day. *1 Mar 2019: The owner continued seeing fleas and applied the most recent dose. There are no other pets inside the home. The owner reports no flea activity is present inside the home. The dog has access to the front yard and goes for walks with the owner. The owner discontinued the FRONTLINE PLUS in Mar 2019 and is not currently using any product. No further medical information is expected.
02-May-2019	UAE; 19US024285; -; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Oct-2018*	01-Mar-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 02 May 2019, the animal owner reported the following via email for a feline of unknown signalment. Mar 2019*: The feline received FRONTLINE PLUS CATS (S40117AW) an unknown volume, via an unknown route, at an unknown location of the body. The owner purchased an unknown quantity from an unknown source in Oct 2018. The owner has noted 3 to 5 ticks on the feline an unknown time post application. It is unknown if the ticks were dead or alive. It is unknown if the feline has presented to the veterinary clinic or if any treatments have been administered. The current condition of the feline is unknown. It is unknown if there are any other pets in the household. The feline did receive FRONTLINE PLUS CATS for an unknown length of time in 2018 with no adverse effects or lack of efficacy noted. This is the extend of information known via email received. No further medical information expected.

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03-May-2019	UAE; 19US024339; NJ; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019*	02-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 3 May 2019, the owner reported the following event for a feline named Vinyard (all other signalments unknown). The pet owner stated that his cat has been on the FRONTLINE PLUS CATS for some time but did indicate how long. 1 May 2019*: The most recent vial of FRONTLINE PLUS CATS was applied between the shoulder blades, by the pet owner. 2 May 2019*: The cat had discoloration of the skin where the product was applied. 3 May 2019: The pet owner contacted his Vet about the spot. The Vet recommended that he call us. No further medical information is expected.
03-May-2019	UAE; 19US024394; -; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	22-Apr-2019	22-Apr-2019*	0 Day(s)	D-C	Suspected Adverse Event: On 3 May 2019, the pet owner reported the following event for a 10 pound female Yorkshire Terrier. 22 Apr 2019: The owner applied FRONTLINE PLUS (lot and expiration unknown) (product unsubstantiated). After an unknown amount of time, the dog began to experience vomiting and diarrhea. The owner treated with a bland diet and unknown anti diarrheal medication. The current status of the dog is unknown. No further medical information at this time.
25-Apr-2019	UAE; 19US024445; NC; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2018	05-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 25 Apr 2019, the owner reported the following event for Cowgirl, 3 year old, 7 pound, spayed female, Feline (Breed unknown). 2 Apr 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The cat is treated monthly year round since Apr 2018. 5 Apr 2019: The owner started to notice the cat itching. A large amount of fleas were found on the pet. 25 Apr 2019: The issue is still ongoing. There is one other cat in the household that is also being treated with FRONTLINE and experiencing an issue (see case 19US022372). There is also another strictly outdoor cat that is being treated with another product and experiencing no issue. No further medical information is expected.
02-May-2019	UAE; 19US024446; -; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Mar-2019	16-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 2 May 2019, the pet owner reported the following event for a canine 20 lb, 10 year old, male neutered, Terrier (Jack Russell). 17 Mar 2019: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (P62719BL) was applied to the dog for the first time in one area between the shoulder blades. Two 3 packs were purchased. 16 Apr 2019: There were two ticks present on the dog. 1 vial of FRONTLINE PLUS DOG 5-22 (P62719BL) was applied to the dog. The owner did not remove the ticks. The dog goes out for potty breaks and recreation in fenced in yard, in desert area. No history of skin issues, no bath recently. No further medical information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
06-May-2019	UAE; 19US024449; -; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 24 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	01-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 6 May 2019, a pet owner reported the following event for Jack, a 9 year old, 24 pound, male neutered Sheltie. Unknown Date: The dog started using FRONTLINE (product unsubstantiated)(lot unknown) without issue. Unknown Date: The owner purchased FRONTLINE PLUS (P62719BL) from Amazon and applied 1 dose in the Spring and said the dog got nervous, could not settle down, and was like that for 2-3 weeks then recovered. No further medical information expected. Product quality: On 6 May 2019, a pet owner reported the following issue with FRONTLINE PLUS 5-22 LBS (P62719BL). The owner reported purchasing the product from Amazon and the dog began having issues. The owner also stated the vial did not have the same lot number (P62719). The owner does not have the mailing package the product arrived in. Product return expected. No further details available as the owner hesitant to answer further questions, she wanted answers if the product was counterfeit. No further information. 28-JUN-19 QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 9% SPOT ON Lot# P62719BL, expiry . Case investigated by France - Toulouse. Gotrack complaint closed by on 2019-06-28. Final complaint evaluation A product quality complaint for FRONTLINE PLUS DOG, lot number P62719BL was received by BIAH QA on the 06 May 2019. The complaint description is : adverse event and suspicion of counterfeit. This is the first complaint regarding this defect for this batch. The retention sample is conform. The complaint sample was not receive. Pictures not received too. The owner has declared that this batch number corresponds to a six pack Frontline product and in reality this batch corresponds to a three pack Frontline product. Batch record review : The batch P62719BL exists and has been manufactured at Toulouse : P62719BL – Frontline Plus Dog S – 3-pack Manufacturing date : 26 oct 2016 Quantity : 183160 boxes of 3 pipettes bulk batch
06-May-2019	UAE; 19US024459; IN; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Apr-2019	13-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the pet owner reported the following event for Scruffy a female neutered, 8 year old, 10 pound, Terrier (Jack Russell). 6 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (S60302AL) topically according to label instructions on year round basis every month to Scruffy. 6 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically according to label instructions to Scruffy. 13 Apr 2019*: The pet owner noticed 3 attached alive ticks on the body of Scruffy. 6 May 2019: At the time of the report, Scruffy was in good health at time of application. Scruffy was not presented to veterinarian. Scruffy has no history of skin problems or any other issues with topical treatments. Scuffy had this problem before in the past that

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											was not resolved. The pet owner did not bathed Scuffy. Scruffy has not had any other medications or topical treatments. Scruffy is mainly indoors and go outside with pet owner. The pet owner has not treated problem with anything else. The current status of Scruffy is unknown. Scruffy does share home with one 2 other dogs in the home in which one has case number 19US024467. No further medical information.
06-May-2019	UAE; 19US024467; IN; U.S.A	**Species:** Canine **Breed:** Belgian Sheep Dog **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Apr-2019	13-Apr-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the pet owner reported the following event for Bryce a male neutered, 65 pound, Belgian Sheep Dog, other signalment unknown. 6 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) topically according to label instructions on year round basis every month to Bryce. 6 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically according to label instructions to Bryce. 13 Apr 2019*: The pet owner noticed 2 attached alive ticks on the body of Bryce. 6 May 2019: At the time of the report, Bryce was in good health at time of application. Bryce was not presented to veterinarian. Bryce has no history of skin problems or any other issues with topical treatments. Bryce had this problem before in the past that was not resolved. The pet owner did not bathed Bryce. Bryce has not had any other medications or topical treatments. Bryce is mainly indoors and go outside with pet owner. The pet owner has not treated problem with anything else. The current status of Bryce is unknown.Bryce does share home with one 2 other dogs in the home in which one has case number 19US024459. No further medical information.
06-May-2019	UAE; 19US024468; CT; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Apr-2019	06-May-2019	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019 the pet owner reported the following event for Max, a 12 year old (born 1 Jan 2007), 14 pound, neutered male Shi Tzu. 18 Apr 2019: The pet owner applied 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot and expiration unknown), topically, intrascapular for the first time. 28 Apr 2019: The pet owner removed one live tick from the canine. 3 May 2019 and 6 May 2019: The pet owner noted 1 engorged dead tick on the ground on each date. Currently, the canine has received no additional treatment. It is unknown what outdoor areas the pet has access to or where he spends the majority of the time. There are no other animals in the household. No further medical information is expected.
06-May-2019	UAE; 19US024471; -; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Month(s) **Weight:** 45 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-May-2019*	01-May-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 6 May 2019, a pet owner reported the following event for Benny, a 9 month old 45 pound, male neutered Border Collie. Unknown Date: The owner applied 1 dose of FRONTLINE PLUS DOG 23-44 (lot unknown) between the shoulder blades and the dog became scared of owner right after application but was fine the next day. The owner reported stating this to the RDVM and the RDVM said it may have burned skin but the skin was not red or irritated. No further medical information expected.

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06-May-2019	UAE; 19US024497; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	29-Apr-2019*	06-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the owner reported the following event for a cat (signalment unknown). *29 April 2019: One vial of FRONTLINE (product unsubstantiated) was applied per label to the pet. On an unknown date, the cat had two dead ticks engorged and attached. The owner removed the ticks. There are 5 other cats in the home. No further information available.
06-May-2019	UAE; 19US024537; CA; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2018*	01-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the pet owner reported the following event for Teddy, 10 pound, male neutered, Maltese. All other signalments unknown. Nov. 2018*: A 6 pack of FRONTLINE PLUS DOG 5-22 LBS was purchased and 1 vial (P61525AL) was applied to the dog in one area between the shoulder blades for the first time. The owner applied 1 vial monthly. 29 Apr 2019*: The dog was bathed in Paul Michell Pet Shampoo. 1 May 2019*: 1 vial of FRONTLINE PLUS was applied to the dog. The owner has been seeing 1-2 fleas since the application. The dog goes out for potty breaks and walks. The dog has no history of skin issues. Owner treats as needed throughout the year with different flea products. No further medical information is expected.
06-May-2019	UAE; 19US024611; -; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	03-Dec-2018*	06-May-2019	5 Month(s)	D-C	Suspected Adverse Event: On 6 May 2019, the pet owner reported the following event for a 15 year old, female spayed, Spaniel (Cocker). All other signalments unknown. 3 Dec 2018*: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R61013AL) was applied to the dog. 6 May 2019: The owner reports the dog was diagnosed with a form of cell tumor. The owner has been treating the dog with FRONTLINE PLUS seasonally for 15 years. No further medical information is available at the moment.
06-May-2019	UAE; 19US024627; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Month(s) **Weight:** 8 - 10 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2019*	05-May-2019	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the pet owner reported the following event for two 10 month old, 8-10 pound*,male neutered, Domestic Shorthair (Crossbreed). 1 May 2019: 1 vial of FRONTLINE PLUS CATS (S40603AW) was applied to the cat in one area between the should blades. 5 May 2019: The owner combed 10 fleas off of the cats. First application of FRONTLINE applied Feb. 2019*. The cats were having an issue with fleas prior to the first application. The cats are primarily indoors, have access to garage and screened in porch. The owner has treated the yard. No fleas seen in the home. No history of skin issues or baths. No further medical information is expected.

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06-May-2019	UAE; 19US024637; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	06-May-2019	06-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the pet owner reported the following event for a canine unknown, other signalment unknown. 6 May 2019: At the time of the report, the pet owner reported that her dog was still experiencing fleas. It is unknown whether FRONTLINE PLUS DOG 5-22 LBS was given prior or after pet owner started noticing fleas. The current status of the dog is unknown. No further information.
06-May-2019	UAE; 19US024641; NJ; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 45 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Apr-2019	02-Apr-2019	0 Day(s)	D-C	Suspected Adverse Event: On 6 May 2019 the pet owner reported the following event for Moxie, a 9 year old (born *1 Jan 2010), 45 pound, spayed female Siberian Husky. 7 Jul 2014*: Started on FRONTLINE PLUS DOG 45-88 LBS (lot and expiration unknown) once monthly. 2 Apr 2019: The pet owner applied FRONTLINE PLUS DOG 45-88 LBS (lot and expiration unknown), 1 vial topically, intrascapular. At an unknown time the same date following application the canine became lethargic, ataxic, collapsed, and experienced loss of bladder control and temporary blindness. The patient recovered 30 minutes later and presented to the clinic where a blood panel indicated elevated liver enzymes. The patient was treated with metronidazole and Denamarin. Currently, the canine is experiencing lethargy. Moxie has been on FRONTLINE PLUS once monthly since *7 Jul 2014 without issue. Moxie experienced pruritus previously on an unknown date after the application of Advantix. No further medical information is expected.
06-May-2019	UAE; 19US024649; -; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5 - 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Apr-2019	04-May-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019 a pet owner reported the following event for a Dachshund that is between 5 and 22 pounds and unknown other signalment. 7 Apr 2019: The owner noticed the dog was itching and washed it with a flea shampoo. She saw fleas during the bath. 8 Apr 2019: Owner applied FRONTLINE PLUS DOG 0-22 LBS (S60401) 1 entire tube to the skin between the shoulder blades for the first time this season. 4 May 2019: Owner noticed dog scratching a lot and washed the dog in a flea shampoo. It is unknown if she saw fleas during this bath. 5 May 2019: Owner applied FRONTLINE PLUS as described previously. There are 2 other dogs in the home and 1 cat who lives outside. The cat is not experiencing fleas or itching. All the animals in the home are treated with FRONTLINE PLUS seasonally. The dogs go outside to potty and sometimes lay in the sun. Owner states she is not seeing fleas in the home, but when the dogs sleep in the bed with her, she has had a flea jump onto her. Owner has used a flea preventative granule on the yard on an unknown date. The cases for the other two dogs are 19US24651 and 19US024653. No further medical information expected.
06-May-2019	UAE; 19US024650; TX; U.S.A	**Species:** Canine **Breed:** Border Collie	2	1	0	**Product used:** FIPRONIL 10%/S	05-May-2019	06-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the pet owner reported the following event for Bella a female spayed, 2.5 year old, 42 pound, Border Collie.

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		Sex: F **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 42 lbs				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Unknown dates: The pet owner used FRONTLINE PLUS DOG 23-44 LBS previously before. 5 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS (lot number unknown) topically according to label instructions to the body of Bella. 6 May 2019: The pet owner noticed 1-5 live fleas on the body of Bella. At the time of the report, Bella was Smash was in good health at time of application.The pet owner has not seen fleas in the home. Bella was not presented to veterinarian. The home environment has not been treated by pet owner. Bella has no history of skin problems or any other issues with topical treatments. Bella has not had this problem before in the past. Bella is indoors and outside in fenced yard for bathroom breaks. Bella does share home with one other dog that has no flea issue. The current status of Bella is unknown. No further information.
06-May-2019	UAE; 19US024651; -; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5 - 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2019	04-May-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019 a pet owner reported the following event for a Dachshund that is between 5 and 22 pounds and unknown other signalment. 7 Apr 2019: The owner noticed the dog was itching and washed it with a flea shampoo. She saw fleas during the bath. 8 Apr 2019: Owner applied FRONTLINE PLUS DOG 0-22 LBS (S60401) 1 entire tube to the skin between the shoulder blades for the first time this season. 4 May 2019: Owner noticed dog scratching a lot and washed the dog in a flea shampoo. It is unknown if she saw fleas during this bath. 5 May 2019: Owner applied FRONTLINE PLUS as described previously. There are 2 other dogs in the home and 1 cat who lives outside. The cat is not experiencing fleas or itching. All the animals in the home are treated with FRONTLINE PLUS seasonally. The dogs go outside to potty and sometimes lay in the sun. Owner states she is not seeing fleas in the home, but when the dogs sleep in the bed with her, she has had a flea jump onto her. Owner has used a flea preventative granule on the yard on an unknown date. The cases for the other two dogs are 19US024649 and 19US053. No further medical information expected.
06-May-2019	UAE; 19US024653; -; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5 - 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2019	04-May-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019 a pet owner reported the following event for a Dachshund/Chihuahua that is between 5 and 22 pounds and unknown other signalment. 7 Apr 2019: The owner noticed the dog was itching and washed it with a flea shampoo. She saw fleas during the bath. 8 Apr 2019: Owner applied FRONTLINE PLUS DOG 0-22 LBS (S60401) 1 entire tube to the skin between the shoulder blades for the first time this season. 4 May 2019: Owner noticed dog scratching a lot and washed the dog in a flea shampoo. It is unknown if she saw fleas during this bath. 5 May 2019: Owner applied FRONTLINE PLUS as described previously. There are 2 other dogs in the home and 1 cat who lives outside. The cat is not experiencing fleas or itching. All the animals in the home are treated with FRONTLINE PLUS seasonally. The dogs go outside to potty and sometimes lay in the sun. Owner states she is not seeing fleas in the home, but when the dogs sleep in the bed with her, she has had a flea jump onto her. Owner has used a flea preventative granule on the yard on an unknown date. The cases

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											for the other two dogs are 19US024649 and 19US024651. No further medical information expected.
06-May-2019	UAE; 19US024707; LA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Apr-2019	01-May-2019*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the pet owner reported the following event for Skittles a male neutered,10 pound feline, other signalment unknown. 13 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40815BW) topically according to label instructions to the body of Skittles for the first time. 1 May 2019*: The pet owner noticed 1-5 live fleas on the body of Skittles. 6 May 2019: At the time of the report, Skittles was in good health at time of application. Skittles was not presented to veterinarian. The home environment has not been treated by pet owner. The pet owner has not seen fleas in the home.Skittleshas not been bathed by pet owner. Skittles has no history of skin problems or any other issues with topical treatments.Skittles has had problem before in the past but it was resolved. Skittles is not receiving any other medications or topical treatments. Skittles is mainly outdoors. Skittles does share FRONTLINE PLUS CATS with one other cat in the home with case number 19US024710. The current status of Skittles is unknown. No further medical information.
06-May-2019	UAE; 19US024733; WI; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Apr-2019	01-May-2019	5 Day(s)	D-D	Suspected Adverse Event: On 6 May 2019, the owner reported the following event for Toby, 13 year old, 10 pound, neutered male, Domestic Mediumhair Feline. 26 Apr 2019: One vial of FRONTLINE PLUS CATS (S40606AW) was applied between the shoulder blades. 1 May 2019: The cat experienced alopecia localized at the application site. There was no irritation noted at the site. The pet did not present to the clinic and no treatment was provided. 6 May 2019: The symptoms are still ongoing. The cat has received the product sporadically since 26 Apr 2006* with no issue. The pet has previously reacted to Revolution which included pruritus. The cat has a preexisting condition of kidney failure. There is one other cat in the household that received the product and experienced symptoms (see case 19US024748). No further medical information is expected.
06-May-2019	UAE; 19US024748; WI; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Apr-2019	27-Apr-2019	1 Day(s)	D-A	Suspected Adverse Event: On 6 May 2019, the owner reported the following event for Blackie, 10 pound, male, mixed Feline (all other signalments unknown). 26 Apr 2019: One vial of FRONTLINE PLUS CATS (S40606AW) was applied between the shoulder blades of a stray cat. 27 Apr 2019: The cat became more vostrous than normal. The pet did not present to the clinic and no treatment was provided. 3 May 2019: The cat passed away. The cat received the prodcut once before on 1 Oct 2018* with no issue. There is on other cat in the household that received the product and experienced symptoms (see case 19US024733). No further medical information is expected.
06-May-2019	UAE; 19US024766; MA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	06-May-2019	06-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 6 May 2019, the pet owner reported the following event for Pearl, 9 pound, 10 year old, female spayed, Domestic Shorthair (Crossbreed). 6 May 2019: 1 vial of FRONTLINE PLUS CATS (S41103AW) was applied to the cat in one area between the shoulder blades for the first time. 10-15 min. after the application the owner noticed red

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Neutered **Age:** 10.00 Year(s) **Weight:** 9 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					bumps on the pets ears. The cat has not been seen by the Veterinarian. The owner has treated the cat in the past with other flea and tick control products with no adverse events. No further medical information is expected.
06-May-2019	UAE; 19US024772; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 14 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Apr-2019	13-Apr-2019*	1 Week(s)	D-D	Suspected Adverse Event: On 6 May 2019, the owner reported the following event for Bug, 7 years old, 14 pounds, spayed female, Domestic Shorthair (crossbred). 2014*: The cat started FRONTLINE PLUS CATS on a monthly basis year round. 6 Apr 2019:The most recent vial of FRONTLINE PLUS CATS (S40717AW) was applied between the shoulder blades, by the pet owner. 13 Apr 2019*: The cat had fur lost around the application site.The cat did not present to clinic and no treatment provided. The cat has had a reaction in the past to an unknown prescription flea preventative. The reaction was a rash on the application site. 6 May 2019: The cat fur has grown back. There are 2 other cats in the household using the FRONTLINE, but did not react to the product. No further medical information is expected.
06-May-2019	UAE; 19US024778; -; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** - **Was the product used ok?:** Unknown to Company	01-Jan-2018*	01-Jan-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 May 2019, a pet owner reported the following event for his feline of unknown signalment. 1 Jan 2018*: The pet owner reports that approximately a year ago (this date used for reporting), he applied FRONTLINE PLUS CATS (Unsubstantiated) (Lot unknown) 1 dose, topically to his cat and the cat experienced hair loss at the application site an unknown time after application. There are no further details available as the purpose of call was not to report this event. No further medical information expected.
03-May-2019	UAE; 19US024785; NJ; U.S.A	**Species:** Feline **Breed:** Russian Blue **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 10 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2019	03-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 3 May 2019, the following event was reported to Safety Call International (SCI) by the reporter for Ruby a female spayed, 9 year old, 10 pound, Russian Blue. 2 May 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (lot number unknown) topically to the body of Ruby. 3 May 2019: The pet owner noticed Ruby is missing hair where the product was applied. The skin is pink but does not appear irritated. Ruby does share home with one other cat in the home who does not have any issues following product application. No further medical information.
06-May-2019	UAE; 19US024807; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	15-Apr-2019	06-May-2019	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the owner reported the following event for a male canine of unknown signalment. 15 Apr 2019: The owner administered one dose of FRONTLINE PLUS DOG 0-22 (lot and expiration unknown) topically between the shoulder blades.

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		Age: - **Weight:** Unknown				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					6 May 2019: The owner reports seeing fleas on her dog after taking him for a walk outside. She does not believe the fleas have been on him for more than 18 hours and has not seen any in the house. The dog does not seem to be itchy or experiencing any discomfort per the owner. The current status of the dog is unknown and no additional treatment have been performed. No further medical infomration expected.
06-May-2019	UAE; 19US024811; GA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2019*	01-Feb-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 6 May 2019 the pet owner reported the following event for Pixie, a 3 year old (born *1 Nov 2015), 65 pound, spayed female Golden Retriever mix. 1 Feb 2019*: The pet owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) topically intrascapular. At an unknown time following application on the same date the canine developed pruritus. 2 Feb 2019*: The canine recovered without treatment. Pixie has received the product once monthly since *1 Feb 2018 without issue. No further medical information is expected.
06-May-2019	UAE; 19US024829; MD; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 8.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-May-2019	05-May-2019*	2 Day(s)	D-B	Suspected Adverse Event: On 6 May 2019, the pet owner reported the following event for Macey, an 8 year old. 8.5 lb intact female Pomeranian. 3 May 2019: The dog received 1 dose of FRONTLINE PLUS DOG 5-22 LBS (S61006AL) (FL) topically, between the shoulder blades. 5 May 2019*: Within 48 hours of application, the dog began to have seizures. 6 May 2019: The dog was presented to the emergency clinic and has had several episodes at the facility. The pet owner reported that the dog has had over 10 seizures with each episode lasting 1-2 minutes. The symptoms are ongoing at this time. The dog is in good health outside of the symptoms noted. No further medical information expected.
06-May-2019	UAE; 19US024841; FL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	15-Dec-2018	03-May-2019*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019 the pet owner reported the following event for an unknown 9 year old, 25 pound male neutered Shih Tzu poodle (miniature) mix. 15 Dec 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades for the first time to prevent fleas from getting on the pet. The owner applied each month on the 15th thereafter. 15 Apr 2019: The owner applied the most recent dose. The owner had not seen any fleas. *3 May 2019: The owner began noticing 15-20 fleas on the dog. 5 May 2019: The owner treated the fleas by bathing the dog in water, apple cider vinegar and baby shampoo. There are no other pets in the home. The dog has sensitive skin and has developed rashes after using other topical flea and tick products in the past. The dog is becoming arthritic and slowing down some in old age but still active at home. There is no flea activity inside of the home. The dog has free access to the front yard with no fence, but doesn't go far due to arthritis. No further medical information expected.

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24-Jun-2019	UAE; 19US024859; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	14-May-2019*	24-Jun-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 Jun 2019, the owner reported the following event for a female feline with remaining unknown signalment. May 2019*: The feline started using the FRONTLINE PLUS CATS (Lot and Expiration Unknown) applied via an unknown route and location by the owner. It was the cat's first dose of the season. 14 Jun 2019: The most recent dose of FRONTLINE was applied via an unknown route and location. 24 Jun 2019: The owner reports still seeing fleas. The owner states that the cat is an indoor cat and that fleas were not seen prior to product use. There are no other pets in the home. No further information at this time.
06-May-2019	UAE; 19US024861; TX; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Mar-2019	07-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 6 May 2019, the owner reported the following event for 2 felines (all other signalments unknown). 6 March 2019: One cat started using the FRONTLINE PLUS CATS on a monthly basis. 6 Apr 2019: The most recent vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by the pet owner to both cats. 7 Apr 2019*: The cats had a large amount of fleas. The cats did not present to clinic and no treatment was provided. It is unknown if the cats had fleas before or on the day of application. 6 May 2019: The cats still have fleas. No further medical information is expected.
01-May-2019	UAE; 19US024870; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 60 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Dec-2018	28-Dec-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for two 60 pound canines (all other signalments unknown). 27 Dec 2018: The owner found fleas on the pets. One vial of FRONTLINE PLUS DOG 45-88 LBS (S62202AX) was applied between the shoulder blades. 28 Dec 2019: The owner continued to see fleas on the pets. The dogs also began scratching and the owner noted flea dirt. The dogs have access to a fenced in yard for potty breaks. Unknown date: The owner started to notice flea activity in the household. 27 Jan 2019-27 Apr 2019: Another vial was applied. The flea issue persisted. 30 Apr 2019: An exterminator came to treat the home and yard. 1 May 2019: The flea issue is still ongoing. There are 3 other dogs and 2 cats in the household all receiveing the FRONTLINE and experiencing an issue with fleas (see case 19US023742, 19US024873, 19US024876). No further medical information is expected.
01-May-2019	UAE; 19US024873; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 100 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	27-Dec-2018	28-Dec-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for a 100 pound canines (all other signalments unknown). 27 Dec 2018: The owner found fleas on the pets. One vial of FRONTLINE PLUS DOG 89-132 LBS (R62309AR) was applied between the shoulder blades. 28 Dec 2018: The owner continued to see fleas on the pets. The dogs also began scratching and the owner noted flea dirt. The dogs have access to a fenced in yard for potty breaks. Unknown date: The owner started to notice flea activity in the household.

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						Was the product used ok?: Yes					27 Jan 2019-27 Apr 2019: Another vial was applied. The flea issue persisted. 30 Apr 2019: An exterminator came to treat the home and yard. 1 May 2019: The flea issue is still ongoing. There are 4 other dogs and 2 cats in the household all receiving the FRONTLINE and experiencing an issue with fleas (see case 19US024870, 19US023742, 19US024876). No further medical information is expected.
01-May-2019	UAE; 19US024876; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Dec-2018	28-Dec-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 1 May 2019, the owner reported the following event for two Felines (all other signalments unknown). 27 Dec 2018: The owner found fleas on the pets. One vial of FRONTLINE PLUS CATS (R40601AW) was applied between the shoulder blades. 28 Dec 2018: The owner continued to see fleas on the pets. The cats also began scratching and the owner noted flea dirt. The cats have access to a fenced in yard for potty breaks. Unknown date: The owner started to notice flea activity in the household. 27 Jan 2019-27 Apr 2019: Another vial was applied. The flea issue persisted. 30 Apr 2019: An exterminator came to treat the home and yard. 1 May 2019: The flea issue is still ongoing. There are 5 other dogs in the household all receiveing the FRONTLINE and experiencing an issue with fleas (see case 19US024870, 19US024873, 19US023742). No further medical information is expected.
07-May-2019	UAE; 19US024879; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Apr-2019	06-May-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the pet owner reported the following event for Rainbow a male intact, 1 year old, 11 pound, other signalment unknown. Unknown dates: The pet owner has used unknown amount of FRONTLINE previously. 22 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40815AW) topically according to label instructions to the body of Rainbow. 6 May 2019: The pet owner noticed 1 attached alive tick on the face of Rainbow. 7 May 2019: At the time of the report, Rainbow was in good health at time of application. Rainbow was not presented to veterinarian. Rainbow has no history of skin problems or any other issues with topical treatments. Rainbow is strictly outdoors. Rainbow has had this problem in the past and it resolved. Rainbow has not been bathed. Rainbow does share FRONTLINE PLUS CATS with one other cat with case number 19US024883. The current status of Rainbow is unknown. No further medical information.
07-May-2019	UAE; 19US024883; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	22-Apr-2019	06-May-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the pet owner reported the following event for Lightning a feline, 1 year old, 10 pound, other signalment unknown. Unknown dates: The pet owner has used unknown amount of FRONTLINE previously. 22 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40815AW) topically according to label instructions to the body of Lightning. 6 May 2019: The pet owner noticed 1 attached alive tick on the body of Lightning. 7 May 2019: At the time of the report, Lightning was in good health

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						product used ok?: Yes					at time of application. Lightning was not presented to veterinarian. Rainbow has no history of skin problems or any other issues with topical treatments. Lightning is strictly outdoors. Rainbow has had this problem in the past and it resolved. Lightning has not been bathed. Lightning does share FRONTLINE PLUS CATS with one other cat with case number 19US024879. The current status of Lightning is unknown. No further medical information.
07-May-2019	UAE; 19US024887; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 12 - 13 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Apr-2009*	07-May-2019	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the owner reported the following event for two canines between 12-13 pounds (all other signalments unknown). 11 Feb 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS(S60401AX) was applied between the shoulder blades. The purchase history is unknown. The dogs have acces to a fenced yard that gets treated on a regular basis. 7 Mar 2019: The owner found one flea on the dogs. The flea was eliminated. 11 Mar 2019 and 11 Apr 2019: Another vial was applied. 13 Apr 2019: The pets were bathed at the groomer. 3 May 2019: The owner found 1 flea on the pets. The owner removed the flea. 7 May 2019: Another flea was found on the dogs. No fleas were found in the home. The issue is still ongoing. The dogs have received the product year round since 11 Apr 2009* with no issue. No further medical information is expected.
01-May-2019	UAE; 19US024890; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Apr-2007*	01-Mar-2019	N/A	D-C	Suspected Adverse Event: On 1 May 2019, the owner reported the following event for Blanch, 13 year old, 8 pound, spayed female, Domestic Shorthair feline. 1 Mar 2019: One vial of FRONTLINE PLUS CATS (R40101AW) was applied between the shoulder blades. The owner started to notice the cat experiencing weight loss and vomiting (hair balls). 21 Apr 2019: The cat fell off the couch and hit the back of her head. The pet became hyperactive and started spinning in circles. 22 Apr 2019*: The cat presented to the clinic. The attending veterinarian ran a blood chemistry which came back WNL. No treatment was provided. 27 Apr 2019:Another vial was applied. 1 May 2019: The weight loss and vomiting hair balls are still ongoing. The cat has received the product monthly since 27 Apr 2007* with no issue.The owner also reported a lack of efficacy with the FRONTLINE (see case 19US023774). No further medical information is expected.
07-May-2019	UAE; 19US024958; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019*	07-May-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the pet owner reported the following event for a canine of unknown signalment. Jan 2019*: The dog began receiving FRONTLINE PLUS DOG 0-22 LBS (unsubstantiated) (lot unknown) monthly with unknown purchase history. The dog has no negative Lyme test history. 7 May 2019*: The dog was diagnosed Lyme antigen positive via an unknown test. It is unknown if a Quant C6 has been performed. It is unknown if any treatments have been initiated. The dog's current condition is ongoing. No further medical information expected.

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07-May-2019	UAE; 19US024961; GA; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 34 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	01-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the owner reported the following event for Gracie, 5 year old, 34 pound, spayed female, Mixed breed canine. 1 Mar 2019*: The owner purchased a 8 pack of FRONTLINE PLUS DOG 23-44 LBS (S60402AX). 30 Apr 2019: The owner and dog went to a new environment for vacation. The dog has access to a wooded area with alot of feral cats. One vial was applied between the shoulder blades. 1 May 2019*: The owner found fleas on the dog. The dog also experienced itching. 5 May 2019: The owner applied a natural flea spray to the pet. 7 May 2019: The flea issue is still ongoing. The dog has received the FRONTLINE seasonally for the past few years (1 Jan 2016*). The owner has found ticks on a rare occasion. No further medical information is expected.
07-May-2019	UAE; 19US024982; FL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 10.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Aug-2018*	22-Apr-2019	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: On the 7 May 2019, a pet owner reported the following event for Dexter, a 10.5 pound, 8 year old, neutered male, Chihuahua Mix. 11 Aug 2018*: The dog started on monthly topical FRONTLINE PLUS DOG 5-22 LBS (S61017AL) with 1 dose applied between the shoulder blades. The product is applied year round. There are a total of 2 dogs in the home. 28 Mar 2019: The owner moved to a new home. 11 Apr 2019: The most recent dose of FRONTLINE PLUS was applied to the dog. 22 Apr 2019: The owner started seeing a small amount of fleas on the dog (about 1-5 fleas). The dog is mostly outdoors and he does go on walks around the home. The dog has access to a fenced in backyard. The pet owner is not seeing fleas in the home only on the dog. The issue is ongoing. The owner reported a case for the housemate see case 19US024983. No further medical information expected. UPDATE 30 May 2019: The oet owner called to advise that he is still seeing fleas on his dogs but not in his home. No further medical information expected.
07-May-2019	UAE; 19US024983; FL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 6 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Aug-2018*	22-Apr-2019	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: On the 7 May 2019, a pet owner reported the following event for Sophia, a 6 pound, 5 year old, intact female, Chihuahua and Miniature Poodle Mix. 11 Aug 2018*: The dog started on monthly topical FRONTLINE PLUS DOG 5-22 LBS (S61017AL) with 1 dose applied between the shoulder blades. The product is applied year round. There are a total of 2 dogs in the home. 28 Mar 2019: The owner moved to a new home. 11 Apr 2019: The most recent dose of FRONTLINE PLUS was applied to the dog. 22 Apr 2019: The owner started seeing a small amount of fleas on the dog (about 1-5 fleas). The dog is mostly outdoors and he does go on walks around the home. The dog has access to a fenced in backyard. The pet owner is not seeing fleas in the home only on the dog. The issue is ongoing. The owner reported a case for the housemate see case 19US024982. No further medical information expected. UPDATE 30 May 2019: The oet owner called to advise that he is still seeing fleas on his dogs but not in his home. No further

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											medical information expected.
07-May-2019	UAE; 19US025047; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 16.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	30-Mar-2019	16-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the owner reported the following event for Atthena , 16 year old, 20 pound, spayed female, Domestic Shorthair Feline. 30 Mar 2019: The owner purchased a 3 pack of FRONTLINE PLUS CATS (S41103AW). One vial was applied between the shoulder blades for the first time. The cat is mainly indoor but has occasional access to a fenced in yard. 16 Apr 2019: The owner started to find fleas on the cat. The cat also experienced itching. 30 Apr 2019: Another vial was applied 5 May 2019: The owner gave the pet a bath with flea shampoo. 7 May 2019: Another vial was applied. The owner noted fleas in the household. The owner has continued to find fleas on the pet daily. There is a dog in the household receiving Advantage . It is unknown to the pet owner if the dog has fleas. No further medical information is expected.
07-May-2019	UAE; 19US025049; ME; U.S.A	**Species:** Feline **Breed:** Bengal **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Dawn; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Mar-2019*	02-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the pet owner reported the following event for Riley, 6 year old, 9 pound, male neutered, Bengal. 1 Mar 2019*: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat in one area between the shoulder blades for the first time of the season. The owner has been seeing medium amount of fleas on the cat since the application. 30 Apr 2019*: 1 vial of FRONTLINE PLUS CATS was applied to the cat. The cat was bathed in dawn dish soap to kill fleas on the cat. 1 May 2019: 1 vial of FRONTLINE PLUS CATS was applied to the cat. The owner treats seasonally. No fleas seen in the home. The cat has no history of skin issues. The cat lives indoor only. There is one other cat in the home having an issue with fleas, see case 19US25053.
07-May-2019	UAE; 19US025053; ME; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Dawn; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Mar-2019*	02-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the pet owner reported the following event for Dee, 6 year old, 6 pound, female spayed, Maine Coon Cat. 1 Mar 2019*: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat in one area between the shoulder blades for the first time of the season. The owner has been seeing medium amount of fleas on the cat since the application. The owner was not seeing fleas on the pet prior to the application. 30 Apr 2019*: 1 vial of FRONTLINE PLUS CATS was applied to the cat. The cat was bathed in dawn dish soap to kill fleas present on the cat. 1 May 2019*: 1 vial of FRONTLINE PLUS CATS was applied to the cat. Medium amount of fleas on the cat. The owner treats seasonally. No fleas seen in the home. The cat has no history of skin issues. The cat lives indoors only. There is one other cat in the home having an issue with fleas, see case 19US25049. No further medical information is expected.
07-May-2019	UAE; 19US025089; ID; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500	1	1	0	**Product used:** FIPRONIL 10%/S	05-May-2019	05-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 7 May 2019, the owner reported the following event for Sparky, 2 years old, 10 pounds, Male neutered, Terrier Breed.

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		Series) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 10 lbs				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					5 May 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (S63009BL) was applied between the shoulder blades, by the pet owner. Later on the same day the dog became lethargic and refused to eat. 7 May 2019: The dog had started to consume some water, but still not eating and lethargic. The dog did not present to clinic and no treatment was provided. No further medical information is expected.
07-May-2019	UAE; 19US025120; LA; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 68 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Mar-2018	16-Apr-2019*	27 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019 the pet owner reported the following event for Rosco a 1.5 year old 68 pound, male large crossbreed (>20 kg). All other signalments are unknown. *20 Nov 2017: The owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (UNKNOWN) to the skin between the shoulder blades for the first time. The owner continued applying on the 20th of each month thereafter. 20 Mar 2019: The owner applied another dose. *16 Apr 2019: The owner began noticing about 10 fleas on the dog. The owner began treating with Coconut oil mixed with cedar oil. *18 Apr 2019: The owner bathed the dog with a dog shampoo to treat the fleas on the dog. 20 Apr 2019: Owner applied the most recent dose. 21 Apr 2019: The owner continued seeing fleas on the dog. There is 1 indoor only cat in the home being treated with a Bayer flea and tick product and 1 other dog in the house sharing the FRONTLINE PLUS with case number 19US025124. There is no flea activity inside the home. The owner treated the home with an unknown product on an unknown date. The dog has access to a fenced in yard that is treated with an unknown product. No further medical information expected.
07-May-2019	UAE; 19US025124; LA; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 72 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Mar-2019*	16-Apr-2019*	27 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019 the pet owner reported the following event for Lexa a 6 year old 72 pound, female German shepherd dog. All other signalments are unknown. *20 Apr 2013: The owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (UNKNOWN) to the skin between the shoulder blades for the first time. The owner continued applying on the 20th of each month thereafter. 20 Mar 2019: The owner applied another dose. *16 Apr 2019: The owner began noticing about 1 flea on the dog. The owner began treating with Coconut oil mixed with cedar oil. *18 Apr 2019: The owner bathed the dog with a dog shampoo to treat the fleas on the dog. 20 Apr 2019: Owner applied the most recent dose. 21 Apr 2019: The owner continued seeing fleas on the dog. There is 1 indoor only cat in the home being treated with a Bayer flea and tick product and 1 other dog in the house sharing the FRONTLINE PLUS with case number 19US025120. There is no flea activity inside the home. The owner treated the home with an unknown product on an unknown date. The dog has access to a fenced in yard that is treated with an unknown product. No further medical information expected.
07-May-2019	UAE; 19US025135;	**Species:** Canine **Breed:** Retriever	1	1	0	**Product used:** FIPRONIL	28-Apr-2019	07-May-2019	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019 the pet owner reported the following event for Kenai a 7 year old, 85 pounds,

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	WA; U.S.A	Labrador **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 85 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Male neutered Retriever Labrador. 28 Feb 2019: The owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S60502AX) to the skin between the shoulder blades for the first time and continued on a monthly basis thereafter. 28 Apr 2019: The most recent dose was applied. 7 May 2019: The owner found 2 ticks on the dog. Both ticks were big and fat. It is unknown if the ticks were alive. The owner described the ticks as white in color and very engorged and still attached. The owner removed both ticks. There are no other pets in the house. The dog goes for daily jogs through tall grass. No further medical information expected.
07-May-2019	UAE; 19US025136; GA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	26-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 7 May 2019, the pet owner reported the following event for Rosie, an approx. 10 year old, approx. 13 lb spayed female canine. 26 Apr 2019*: Dog received 1 dose of FRONTLINE PLUS DOG 5-22 LBS (S62502AW) (FL) topically between the shoulder blades. A few hours after application the dog began to pull fur out at the base of her tail. The dog has continued to chew fur up her back making her way to her shoulder blades. There was no skin irritation reported at the application site. The pet owner stated that the dog has received FL before and had similar symptoms , and there have been other occasions where the FL was given and no symptoms presented, but no additional information was provided for when these applications were given. The veterinarian has not yet been contacted. The dog is in good health outside of the symptoms noted. No further medical information expected.
07-May-2019	UAE; 19US025195; LA; U.S.A	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 9.14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Jan-2018*	07-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On the 7 May 2019, a veterinary technician reported the following event for Olivia, a 9.14, 3 year old, spayed female, Persian (no further description). 4 Jan 2018*: The cat started on monthly FRONTLINE PLUS CATS(unsubstantiated) (unknown lot number), with 1 dose applied topically between the shoulder blades by the pet owner. The owner applies the product annually. There are 3 dogs in the home that are on NEXGARD. 4 May 2019: The most recent application of FRONTLINE was applied. 7 May 2019: The cat presented to the clinic for an annual exam. The clinic staff noticed the cat had flea dirt and passed a flea comb through the fur. The cat had a moderate amount of fleas (5-15). The cat is strictly indoors and only has access to the kitchen and the bedroom. The owner is not seeing fleas in the home. The 3 dogs in the house hold are mostly indoors, they are litter trained . The owner does take them out to the backyard once a day, but they do not have access to any grass or dirt as the backyard is covered in cement. The dogs are only out for an hour and they do not have fleas or flea dirt on them. The purchase history for the FRONTLINE is unknown. No further medical information expected.
07-May-2019	UAE; 19US025199; -; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	01-May-2019*	01-May-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 7 May 2019, a pet owner reported the following event for his feline of unknown signalment. 1 May 2019*: The pet owner applied FRONTLINE PLUS CATS (Unknown lot) to his cat to treat for fleas and the cat started to scratch more than before application. All other details are unknown as the pet owner declined reporting and disconnected the call. No further medical information expected.

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						Route: unknown **Was the product used ok?:** Unknown to Company					
07-May-2019	UAE; 19US025209; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 45 - 80 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2019*	01-May-2019*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 7 May 2019, the owner reported the following event for 2 dogs, weighing between 45-80 pounds, other signalment unknown. 15 April 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS. (Lot and Expiry Unknown) was applied per the label instructions by the pet owner. May 2019*: The pets had a small- moderate amount of fleas seen. The pets are indoors mostly and go out into a fenced in yard and swim on occasion in the pool. No wildlife has been seen in the area. Fleas were seen for an unknown amount of time prior to treatment. The owner has noticed a slight decrease on the two larger pets. No fleas have been seen within the home and the owner is treating the yard and the inside of the home.There are 2 smaller pets in the home see case 19US025385 FRONTLINE has been used since Mar 2019*.No further medical information is expected at this time. UPDATE 12 Jun 2019: Per owner another vial was applied on 15 May 2019* and the issue is still ongoing. No further medical information at this time.
08-May-2019	UAE; 19US025234; AL; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 18.00 Year(s) **Weight:** 4 lbs	3	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** unknown iron supplement; Dawn dish soap; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	27-Apr-2018*	28-Apr-2019	1 Day(s)	D-A	Suspected Lack of Efficacy Claim: On 8 May 2019, the pet owner reported the following event for Toby a male neutered, 18 year old, 4 pound, Maine Coon Cat. 8 May 2017*: The pet owner previously applied unknown amount of Revolution to the body of Toby. 27 Apr 2018*: The pet owner first noticed fleas on the body of Toby and jumping on her in the home. The pet owner applied FRONTLINE PLUS CATS (lot number unknown) topically to the body of Toby with 15-20+ fleas present on his body. 21 May 2018: Toby was taking Amoxicillin for urinary tract infection for 2* weeks. 27 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS CATS topically according to the label to body of Toby with 20+ fleas. 28 Apr 2019: The pet owner continued to see 20+ fleas on the body of Toby. 2 May 2019*: Toby was taking unknown amount of iron supplement for anemia. 5 May 2019: The pet owner bathed Toby with Dawn dish soap. 6 May 2019: Toby was presented to veterinarian and was euthanized. 8 May 2019: At time of report, Toby was in fair health at time of application. Toby has no history of skin problems. Toby has had flea problem before but it never resolved. Toby is strictly indoors. The pet owner stated that Toby is both blind and deaf. The home environment has been treated. Toby shared FRONTLINE PLUS CATS with two other cats in the home with no issues. No further information.
08-May-2019	UAE; 19US025239; NC; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	18-Apr-2013*	17-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019, the owner reported the following event for Sadie, 6 year old, 80 pound, spayed female, Boxer canine. 18 Mar 2019:One vial of FRONTLINE PLUS DOG 45-88 LBS (lot

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		Neutered **Age:** 6.00 Year(s) **Weight:** 80 lbs				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					unknown) was applied between the shoulder blades. The dog has access to a fenced in yard. 17 Apr 2019: Found fleas on the pet. The owner bathed the pet. 18 Apr 2019: The owner purchased a 3 pack of FRONTLINE PLUS DOG 45-88 LBS (S62111AL) Another vial was applied. 19 Apr 2019: The owner continued to find fleas on the pet. No fleas have been found in the household. 8 May 2019: The owner has continued to find fleas daily up to time of the report. There are no other pets in the household.The dog has received the product monthly since 18 Apr 2013* with no issue. No further medical information is expected.
08-May-2019	UAE; 19US025241; NY; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 98 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Interceptor; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019	08-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 8 May 2019, the pet owner reported the following event for Huckleberry, 4 year old, 98 pound, male neutered, Border Collie/Golden Retriever mix. 8 May 2019: 1 vial of FRONTLINE PLUS DOG 89-132 LBS (R62309AR) was applied to the dog in one area between the should blades for the very first time. 1 hour after the application, the dog is running back and forth as if he is trying to get the product off, and he is foaming at the mouth. The dog recovered. The dog has not been seen by the Veterinarian. No further medical information is available.
08-May-2019	UAE; 19US025247; NY; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** - **Age:** 10.00 Month(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	07-May-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019, the owner reported the following event for Kangston, a 10 pound, 10 month old, intact male miniature poodle. 30 Apr 2019: One dose of FRONTLINE PLUS 0-22 LBS (lot and expiration unknown) was applied topically between the shoulder blades. 7 May 2019: After going outside for a walk, the owner noticed multiple ticks on the dog which were not attached. The owner treated the dog by applying a second dose of FRONTLINE PLUS DOG 0-22 LBS topically between the shoulder blades. No further medicla information expected.
08-May-2019	UAE; 19US025334; LA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 4 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Dog shampoo; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-May-2019*	08-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019, the owner reported the following event for an unknown canine 1 May 2019*: One vial of FRONTLINE PLUS DOG (Lot unknown, product unsubstantiated) it is unknown if the product was applied correctly. May 2019*: The pets had a small amount of fleas seen on the pet. The owner bathe the pet in an unknown pet shampoo, frequency is unknown. It is unknown if this is the first treatment of FRONTLINE PLUS. No further medical information is expected at this time.
24-Jun-2019	UAE; 19US025338;	**Species:** Feline **Breed:** Feline	1	1	1	**Product used:** FIPRONIL	01-Jan-2018*	01-May-2019*	1 Day(s)	D-A	Suspected Lack of Efficacy Claim: On 8 May 2019, the pet owner reported the following event for Ms Kitty, a 16 year old, 10* pound,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	CA; U.S.A	(unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 16.00 Year(s) **Weight:** 10 lbs				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Unknown rescue feline. 1 Feb 2019*: Fleas and flea dirt were first noticed. 30 Mar 2019 and 30 Apr 2019: She began receiving her seasonal doses of FRONTLINE PLUS(S40815BW). 1 May 2019*: The owner noticed fleas and flea dirt on the animal still after a full month of use with the product, and has occasionally seen 1 a flea on her after holding the animal. The animal was itching occasionally as well. This is still ongoing as of this day. The cat has used Frontline seasonally before in 2018*, and the owner stated it worked well. Briefly covered No further medical information expected. UPDATE 16 May 2019: Case updated to inquiry due to treatment program not respected UPDATE 24 Jun 2019: Per the pet owner the cat died on an unknown date and was still covered in fleas. No further details as the owner disconnected the phone call.
08-May-2019	UAE; 19US025345; WI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Jan-2019	20-Jan-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019 a pet owner reported the following event for Babe, a female feline of unknown other signalment. 19 Jan 2019: Owner saw fleas and flea dirt on the cat and started applying FRONTLINE PLUS CATS (S40603AW) on the skin between the shoulder blades monthly on the 19th day of every month with a 6 pack purchase made this day. The owner is continuing to see fleas and flea dirt on the cat, in the house, and also collecting fleas in a bowl of dish soap under a night light in the home. The owner is treating the home with an unknown product and has bathed the cat in Hartz flea shampoo on unknown dates. Babe is an indoor only cat. There is another cat that is outdoors only, does not come in contact with Babe per owner as Babe does not go outside, but this cat is not being treated for fleas currently and the last time the cat received treatment was 31 Apr 2018*. No further medical information expected.
08-May-2019	UAE; 19US025389; WA; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 58 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2019	06-May-2019	1 Day(s)	D-C	Suspected Adverse Event: On the 8 May 2019, a pet owner reported the following event for Evey, a 58 pound, 2 year old (born 8 Feb 2017), spayed female, Black Labrador Retriever. 5 May 2019: The owner applied for the first time FRONTLINE PLUS DOG 45-88 LBS (F62202AX) (INVALID LOT), 1 dose, topically between the shoulder blades. 6 May 2019: The dog experienced emesis at 12:00 am. Later that day the owner gave the dog a g/i canned diet. 7 May 2019: The dog continued with the emesis so the owner gave the dog oral Benadryl 50 mg in the morning. Later that day the dog became anorexic, lethargic and his ears were swollen. The dog presented to the veterinarian later in the afternoon. The veterinarian performed a CBC/Chemistry with ALT: elevated, Eosinophils were slightly elevated and a radiograph of the abdomen and chest: revealed no gas present, no sign of obstruction, and thickening of the stomach lining. The veterinarian treated with injectable Famotidine and injectable Cerenia. Later that evening the dog stopped having emesis but the other symptoms persisted. 8 May 2019: The veterinarian plans on performing a fecal exam to send to an outside Lab for further analysis. No further medical information expected.

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08-May-2019	UAE; 19US025405; NE; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019	26-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019 the pet owner reported the following event for Ally a female Small crossbred (<10kg) canine. All other signalments are unknown. 23 Apr 2019: The pet owner applied FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades for the first time. 26 Apr 2019 – 28 Apr 2019: The dogs went camping with the owners and the owner found 4 ticks Alive, embedded and not engorged. Owner removed all of the ticks. There are 2 other dogs in the home sharing the product with ticks observed and case numbers 19US25406 and 19US025408. The dog was camping in the woods at the time of the tick exposure. Owner has not seen any ticks since. No further medical information expected.
08-May-2019	UAE; 19US025406; NE; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019	26-Apr-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019 the pet owner reported the following event for Harley a Small crossbred (<10kg) canine. All other signalments are unknown. 23 Apr 2019: The pet owner applied FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades for the first time. 26 Apr 2019 – 28 Apr 2019: The dogs went camping with the owners and the owner found 2 ticks alive, embedded and not engorged. Owner removed all of the ticks. There are 2 other dogs in the home sharing the product with ticks observed and case numbers 19US25405 and 19US025408. The dog was camping in the woods at the time of the tick exposure. Owner has not seen any ticks since. No further medical information expected.
08-May-2019	UAE; 19US025408; NE; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019	28-Apr-2019*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019 the pet owner reported the following event for Haley a female Small crossbred (<10kg) canine. All other signalments are unknown. 23 Apr 2019: The pet owner applied FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades for the first time. *28 Apr 2019: The dogs went camping with the owners and the owner found 1 ticks crawling through the fur. Owner removed all of the ticks. There are 2 other dogs in the home sharing the product with ticks observed and case numbers 19US25405 and 19US025406. The dog was camping in the woods at the time of the tick exposure. Owner has not seen any ticks since. No further medical information expected.
08-May-2019	UAE; 19US025412; MI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** - **Age:** 8.00 Month(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019	06-May-2019	0 Day(s)	D-C	Suspected Adverse Event: On 8 May 2019, the veterinary technician reported the following event for Cocoa, 8 month old, 7 pound, intact male, Domestic Shorthair Feline. 6 May 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. After an unknown period of time the cat began tremoring. 8 May 2019: The tremors worsened. The cat presented to the clinic. No treatment has been provided. The cat has an ongoing issue with ear mites. there are 2 other cats in the household that did not received FRONTLINE and are asymptomatic. No further medical information is expected.

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08-May-2019	UAE; 19US025429; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	01-May-2019*	5 Month(s)	D-B	Suspected Adverse Event: On 8 May 2019, the pet owner reported the following event for a 15 year old* canine with otherwise unknown signalment. Jan 2018*: The dog began receiving FRONTLINE PLUS DOG (unsubstantiated) (lot and expiration unknown) monthly. The product is given seasonally from Apr* through Nov each year. Nov 2018*: The last dose of administration. 1 May 2019*: The dog was diagnosed with a spindle cell tumor in an unknown location. It is unknown if a cytology or histopathology was performed, and further details about the tumor are unknown. Caller did not wish to answer any further questions. No further medical information expected.
08-May-2019	UAE; 19US025445; IL; U.S.A	**Species:** Canine **Breed:** Vizla **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 60.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2018*	02-May-2019	9 Month(s)	D-D	Suspected Adverse Event: On 08 May 2019, the animal owner reported the following event for Cody, a 12 year old*, 60.0 pound, neutered male Vizla Mix. May 2007* through 01 May 2019: He received HEARTGARD PLUS (272 MCG/227 MG) (8BC0006, Nov 2020) one chew administered orally monthly, seasonally. May 2007* through 01 Aug 2018: He received FRONTLINE PLUS DOG 45-88 LBS (lot unknown) one vial applied topically in between the shoulders monthly, seasonally. May 2016*: He began experiencing emesis and nausea within twenty four hours of each administration. He did not present to the veterinary clinic for the emesis and nausea. No treatments were initiated. He would recover within one two weeks of onset of clinical signs. This would occur after each administration monthly, seasonally on unknown dates. 01 May 2019: The most recent date of administration of HEARTGARD PLUS. He has not received FRONTLINE PLUS this year. 02 May 2019: He began experiencing emesis and nausea. He has not presented to the veterinary clinic. No treatments have been initiated. His current condition is ongoing. He previously received HEARTGARD PLUS monthly, seasonally from 2007* through 2016* with no adverse effects noted. He previously received FRONTLINE PLUS monthly, seasonally from 2007* through 2016* with no adverse effects noted. No further medical information expected.
08-May-2019	UAE; 19US025450; MN; U.S.A	**Species:** Canine **Breed:** Cairn Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-May-2019	07-May-2019	3 Day(s)	D-D	Suspected Adverse Event: On 8 May 2019, the pet owner reported the following event for Casey a male neutered, 13 year old, 20 pound, Cairn Terrier. 4 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61006AL) topically between the shoulder blades to the body of Casey. 7 May 2019: The pet owner noticed Casey vomited on his bed. The pet owner also noticed Casey exhibiting signs of lethargy and not wanting to eat his food. The pet owner also noticed Casey with diarrhea. 8 May 2019: The pet owner continued to see Casey vomit bile like substance and him being lethargic. Casey was in good health at time of application. The pet owner applies FRONTLINE PLUS DOG 5-22 LBS during the summer months only on seasonal basis. Casey has no history of drug or vaccine reactions. Casey has not taken any other products at the same time as FRONTLINE PLUS

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											DOG 5-22 LBS application. Casey has not been presented to veterinarian. Casey currently is at home with ongoing lethargy issue. No further medical information.
08-May-2019	UAE; 19US025472; CA; U.S.A	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Apr-2019*	01-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019 the pet owner reported via mail the following event for a canine of unknown signalment. Unknown dates: The pet owner applied FRONTLINE PLUS DOG 5-22 LBS (P62719AL), unknown volume and application site on two unknown dates. It is unknown if there were fleas present when the pet owner applied the product. Unknown date: The pet owner reported he is still seeing fleas on the canine. Currently, it is unknown if the pet owner is still seeing fleas or if the canine has received treatment. No further information is available at this time.
08-May-2019	UAE; 19US025497; MI; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 45.000 - 80.000 lbs*	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-Oct-2018*	01-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019, the owner reported the following event for 2 male Pit bulls, weighing between 45-80 pounds*, 8 months old, other signalment unknown. 30 April 2019*: One vial of FRONTLINE PLUS DOG 45-88 LBS. (Lot Unknown) was per the label instructions by the pet owner. May 2019*: The pets had a small-moderate amount of fleas seen. The pets are indoors mostly and go out into a fenced in yard . No wildlife has been seen in the area. This is the first time fleas have been seen on the pets. No fleas have been seen within the home. FRONTLINE has been used since Oct 2018*.The owner has not weighed the pets but thinks they are using the right weight range. No further medical information is expected at this time.
08-May-2019	UAE; 19US025498; PA; U.S.A	**Species:** Feline **Breed:** Burmese **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	May-2019*	May-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 8 May 2019 the pet owner reported the following event for an unknown male Burmese. All other signalments are unknown. *May 2019: The pet owner applied 1 vial of FRONTLINE PLUS CATS (UNKNOWN) to the skin between the shoulder blades and rubbed it in for the first time. An unknown amount of time later owner noticed a dime size spot at the application site that had a loss of fur and burn mark on the skin. The symptoms are ongoing. The cat has not presented to the vet clinic. Owner declined completing a report. No further medical information expected.
08-May-2019	UAE; 19US025507; CA; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 14 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Apr-2019*	01-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 8 May 2019, the owner reported the following event for a 14 pound Bichon Frise. *1 April 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was topically applied to the skin between the shoulder blades. 1 May 2019: The dog continued to have fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was topically applied to the skin between the shoulder blades. 8 May 2019: The dog was bathed with whitening shampoo. The dog is picking up a small quantity of fleas each day and has been each day since April. The dog is treated with FL monthly year round and there aren't any fleas in the home. The dog has access

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						ok?: Yes					to bark and yard daily. The dog doesn't suffer from any skin issues. There is one other treated dog and 3 treated cats who don't have fleas. No further information available.
08-May-2019	UAE; 19US025509; NJ; U.S.A	**Species:** Canine **Breed:** Boston Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 25.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019	07-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 8 May 2019 the pet owner reported the following event for an unknown 25 pound 6 year old, female Boston Terrier. All other signalments are unknown. *1 May 2013: The owner began applying 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S60308) to the skin between the shoulder blades for the first time. The owner applied the product on a monthly basis during the summer months. 6 May 2019: The owner applied the most recent dose. It is unknown if it was the first dose of the season. 7 May 2019: The owner noticed a light yellow spot where the product was applied. There seems to be no discomfort. There is another dog in the house sharing the product with case 19US025517. The dog has not presented to the vet clinic. The dog is not bathed regularly. The owner believes it is a bad batch because the dog has never experienced this before. No further medical information expected.
08-May-2019	UAE; 19US025517; NJ; U.S.A	**Species:** Canine **Breed:** Boston Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 28 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019	07-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 8 May 2019 the pet owner reported the following event for an unknown 28 pound 7 year old male Boston Terrier. All other signalments are unknown. *1 May 2012: The owner began applying 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S60308) to the skin between the shoulder blades for the first time. The owner applied the product on a monthly basis during the summer months. 6 May 2019: The owner applied the most recent dose. It is unknown if it was the first dose of the season. 7 May 2019: The owner noticed a dark yellow spot where the product was applied. There seems to be no discomfort. There is another dog in the house sharing the product with case 19US25509. The dog has not presented to the vet clinic. The dog is not bathed regularly. The owner believes it is a bad batch because the dog has never experienced this before. No further medical information expected.
08-May-2019	UAE; 19US025549; NV; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 15.1 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019	08-May-2019	0 Day(s)	D-C	Suspected Adverse Event: On 8 May 2019, the veterinarian reported the following event for Charlie, a 13 year old, 15.1 pound, neutered male Shih Tzu. 8 May 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (FL) (M6914AL) was applied per label for the first time. 20-30 minutes post administration, the dog's head was down and his front left leg was in discomfort. The dog was taken to the vet and examined; no treatment was given. Per the vet, it appears the dog has neck pain; his level of suspicion FL is the cause is low. No further information available.
09-May-2019	UAE; 19US025565; SC; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dawn;	02-Mar-2019*	02-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy: On 9 May 2019, the pet owner reported the following event for Kai, 7 year old, 80 pound, male neutered, Retriever (Golden) mix. 2 March 2019*: The dog was having and issue with fleas, there were fleas present in the home. A 3 pack of FRONTLINE was purchased, 1 vial of FRONTLINE PLUS DOG 45-88 LBS(S62111AL) was applied to the dog in one area between the

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 80 lbs				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					shoulder blades. The owner was seeing large amount of fleas on the dog everyday after the application 2 April 2019*: 1 vial of FRONTLINE PLUS DOG 45-88 LBS(S62111AL) was applied to the dog in one area between the shoulder blades. The owner was seeing large amount of fleas on the dog everyday after the application 29 May 2019: The dog was bathed in Dawn to kill fleas present on him. 2 May 2019: 1 vial of FRONTLINE PLUS DOG 45-88 LBS (S62111AL) was applied to the dog in one area between the shoulder blades. The owner was seeing large amount of fleas on the dog every day after the application. 8 May 2019: There were 60 fleas present on the dog. The dog was bathed in Dawn to kill fleas. The owner has been treating the dog with FRONTLINE since March 2019, a 3 pack was purchased. The owner treats year round. There are fleas present in the home biting the humans. The dog goes out for potty breaks and recreation in large grassy field. No history of skin issues. No further information is available.
09-May-2019	UAE; 19US025586; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019*	01-May-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 9 May 2019, the owner reported the following event for a canine of unknown signalment. Unknown date: The dog began receiving monthly doses of FRONTLINE PLUS (product unsubstantiated) (lot and expiration unknown) Unknown date: A single dose was applied by the animal owner topically between the dog's shoulder blades. Immediately after application, the owner noted the dog's white fur appeared to be discolored yellow, which resolved after the product dried. No further medical information expected.
09-May-2019	UAE; 19US025588; -; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	09-May-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019 the pet owner reported the following event for Jake, a 3 year old (born *1 Jan 2016), 16 pound, neutered male Chihuahua. 7 May 2019: The pet owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot and expiration unknown) topically, intrascapular. 9 May 2019: The pet owner found and removed one tick from an unknown location. No other ticks were noted. The canine has been receiving the product once monthly since *1 Jan 2017 with no issues. No further medical information is expected.
09-May-2019	UAE; 19US025591; LA; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Trifexis; **Route:** Topical /	02-May-2019	08-May-2019	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019, the pet owner reported the following event for Muggzy a male intact, 18 pound, 4 year old, Dachshund. Unknown dates: The pet owner used Trifexis prior to application of FRONTLINE PLUS DOG 5-22 LBS. 2 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61006AL) topically between the shoulder blades to the body of Muggzy for the first time. 8 May 2019: The pet owner noticed 3-4 fleas on the body of Muggzy.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Cutaneous **Was the product used ok?:** Yes					9 May 2019: Muggzy was in good health at time of application. Muggzy was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. Muggzy has no history of skin problems or any other issues with topical treatments. Muggy has not had flea problem before in the past. Muggzy has not received any other medications or topical treatments. Muggzy has not been bathed. Muggzy is indoors and outside for walks. The current status of Muggzy is unknown. Muggzy share home with 2 other cats that are treated with FRONTLINE PLUS CATS with no flea issues. No further medical information.
09-May-2019	UAE; 19US025631; MA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Oct-2018	07-Apr-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019, a pet owner reported the following event for Simba, a 9 year old, approximately 12 pound, neutered male Domestic Longhair. 3 Oct 2018: The cat received the contents of 1 vial of FRONTLINE PLUS FOR CATS (S40101BW) for the first time between the shoulder blades. 3 Apr 2019: Another dose of FRONTLINE was applied. 7 Apr 2019: The pet owner noticed several live ticks attached and engorged on the cat. The owner removed the ticks. The pet owner continued to find several live ticks on the cat almost daily that were attached and engorged. The ticks were removed. 3 May 2019: Another application of FRONTLINE was applied. 5 May 2019*: The pet owner found a couple of live ticks attached and engorged on the cat and removed them. This cat is predominantly an outside cat. This cat received the FRONTLINE in 2018 without issues. There is 1 other cat in the home that is indoor only and is not on any flea or tick prevention. No further medical information expected.
09-May-2019	UAE; 19US025634; TX; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** - **Age:** 11.00 Year(s) **Weight:** 5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019	07-May-2019	1 Day(s)	D-C	Suspected Adverse Event: On 9 May 2019 the pet owner reported the following event for Kaly Rose an 11 year old (born 1 Jan 2008*) 5 pound intact female, non-pregnant non-lactating Chihuahua. 6 May 2019: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (F62502AW) to the skin between the shoulder blades for the first time ever. 7 May 2019: The owner noticed the dog would not eat or drink anything. The dog became lethargic and wanted to sleep all the time. When the owner took the dog outside the dog would act confused and not know where it was. The dog was also walking sideways and backwards while outside. The owner also noticed the dog has a large red spot at the application site. The dog did not present to the vet clinic and the symptoms are ongoing. There is 1 other dog in the household that was sharing the product with case number 19US025639. No further medical information expected.
09-May-2019	UAE; 19US025639; TX; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	06-May-2019	06-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 9 May 2019 the pet owner reported the following event for an unknown male Chihuahua. All other signalments are unknown. 6 May 2019: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (F62502AW) to the skin between the shoulder blades for the first time ever. Later that night the dog vomited once. The dog recovered the same night. The dog did not present to the vet clinic. There is 1 other dog in the household that was sharing the product with case number 19US025634. No further medical information expected.

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						product used ok?: Yes					
09-May-2019	UAE; 19US025654; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 11.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Apr-2019*	22-Apr-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 09 May 2019, the animal owner reported the following for Clyde, a 7 year old*, 11.0 pound*, neutered male Domestic Shorthair. 22 Apr 2019: He received FRONTLINE PLUS FOR CATS (S41108AW) one vial applied topically between the shoulders. Unknown dates: On two separate unknown dates the owner removed one live tick from the cat each day. There is a canine in the household that has a Seresto collar on. The feline does go outdoors and the environment is rural. There are no other clinical signs. The patient does not get bathed. It is unknown if the feline has received FRONTLINE PLUS previously. No further information expected.
09-May-2019	UAE; 19US025663; TN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5 - 16 lbs	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2019*	04-May-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019 the pet owner reported the following event for 3 unknown 5-16 pound felines. All other signalements are unknown. *2 May 2019: The owner applied 1 vial of FRONTLINE PLUS CATS (UNKNOWN) to the skin between the shoulder blades of each cat for the first time ever. Owner was not seeing fleas prior to application. *4 May 2019: The owner began noticing an unknown amount of fleas on the cats. There are no other pets in the home. The cats are all indoor only cats. On an unknown day the cats presented to the vet clinic and were switched to Revolution. The owner reported a family member is being bit by fleas. Owner believes the fleas are immune to the FRONTLINE PLUS. No further medical information expected.
09-May-2019	UAE; 19US025704; WI; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 19 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Apr-2019	24-Apr-2019	3 Day(s)	D-A	Suspected Adverse Event: On 9 May 2019, a pet owner reported the following event for Moses, an approximately 11 year old, 19 pound, neutered male Domestic Longhair. 21 Apr 2019: The cat received 1 vial of FRONTLINE PLUS FOR CATS (Lot Unknown, packaging unavailable and not recorded by clinic) between the shoulder blades. 24 Apr 2019: The pet owner noticed that the cat was a little lethargic. 25 Apr 2019: The cat did not greet the owner when he came home. When the cat did finally walk to the owner, he was ataxic and could barely lift his head. 26 Apr 2019: The cat was still ataxic and barley able to lift his head and was lethargic. He presented to the clinic. On presentation, patient had ventroflexion of the neck and was in respiratory distress. Radiographs and bloodwork were unremarkable, though electrolytes were not evaluated. Patient was treated with IV fluids, steroid injection, and oxygen cage support. Pet owner declined emergency referral and euthanasia and pet died approximately three hours after presentation. Pet owner declined necropsy. This cat had been receiving FRONTLINE seasonally from Apr to Oct since 2009* without any adverse events noted. Patient purchased product from clinic annually. Patient was only pet in the household. No further medical information is expected.
09-May-2019	UAE; 19US025712;	**Species:** Canine **Breed:** Great	1	1	0	**Product used:** FIPRONIL	24-Apr-2019	28-Apr-2019*	4 Day(s)	D-D	Suspected Adverse Event: On 9 May 2019 a pet owner reported the following event for Sophia, a 47 pound, 4 year old, intact

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	MO; U.S.A	Pyrenees **Sex:** F **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 47 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown vaccines; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					female Great Pyrenees. 23 Apr 2019: Dog received unknown vaccines in an unknown location, but owner thinks that were administered in her hips or rear limbs. 24 Apr 2019: Owner applied 1 tube FRONTLINE PLUS DOG (45-88 LBS (R62301AR) to the skin between the dog's shoulder blades for the first time. 28 Apr 2019*: Owner was combing the dog and she cried out when owner combed over the area where she had previously applied the FRONTLINE. UNKNOWN DATE: Owner noticed dog's hair was falling out at the FRONTLINE application site. 9 May 2019: Dog presented to the clinic for hair loss and soreness between the shoulder blades and was treated with an unknown injection and antibiotics PO. The owner recently adopted the dog from the previous owner, the dog was thin, but pregnant when she was adopted, and had puppies 11 weeks ago. The owner mentioned her other dog who she used to use FRONTLINE on and died three months ago of unknown causes, see case 19US025732. No further medical information expected.
09-May-2019	UAE; 19US025714; NY; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Month(s) **Weight:** 15 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Apr-2019*	09-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019, the pet owner reported the following event for Salem a male neutered, 15 pound, 6 month old, Domestic Longhair (Crossbreed). 9 Apr 2019*: The pet owner applies FRONTLINE PLUS CATS topically to the skin between the shoulder blades of Salem on monthly basis. 9 May 2019: The pet owner removed 1 attached alive tick from the body of Salem. The pet owner applied one dose of FRONTLINE PLUS CATS (S40901AW) topically to the skin between the shoulder blades of Salem. Salem was in good health at time of application. The pet owner contacted veterinarian but Salem was not treated at that time.Salem has no history of skin problems or any other issues with topical treatments.Salem has not had tick problem before in the past. Salem has not received any other medications or topical treatments. Salem has not been bathed. Salem is indoors and outside. The current status of Salem is unknown. Salem share home with 2 other cats that are treated with FRONTLINE PLUS CATS with no tick issues. No further medical information.
09-May-2019	UAE; 19US025732; MO; U.S.A	**Species:** Canine **Breed:** Great Pyrenees **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2019*	01-Feb-2019*	31 Day(s)	D-A	Suspected Adverse Event: On 9 May 2019 a pet owner reported the following event for White Cloud, a male Great Pyrenees of unknown other signalment. Unknown date: The dog started receiving FRONTLINE TOP SPOT DOGS (unsubstantiated) (lot and expiration unknown) on an unknown schedule, 1 tube applied to the skin between the shoulder blades. Feb 2019* Dog died of an unknown acute illness. The owner mentioned this dog during reporting case 19US025712, but stated the dog's death was not related to the use of FRONTLINE. The owner said she used FRONTLINE that she bought over the counter on White Cloud, but said it was not FRONTLINE PLUS, so it is not clear which product was being used. No further medical information expected.
10-May-2019	UAE; 19US025842;	**Species:** Canine **Breed:** Large	1	1	0	**Product used:** FIPRONIL	04-Apr-2019	28-Apr-2019*	24 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019 the pet owner reported the following event for an unknown 90 pound male Large

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	CA; U.S.A	crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 90 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					crossbred (>20 kg). All other signalments are unknown. *4 May 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 89-132 LBS (UNKNOWN) to the skin between the shoulder blades for the first time and continued on a monthly and year round basis thereafter. 4 Apr 2019: The owner applied another dose. *28 Apr 2019: The owner began noticing an unknown amount of fleas for the first time. 4 May 2019: The owner applied the most recent dose. 5 May 2019: The owner continued to see an unknown amount of fleas. There is 1 indoor only cat in the home being treated with FRONTLINE PLUS CATS with case number 19US025869. The owner is not seeing any flea activity inside the apartment. The dog goes for walks to a dog park inside the neighborhood throughout the day. The dog is bathed on a monthly basis with an unknown pet shampoo. No further medical information is expected.
09-May-2019	UAE; 19US025852; CA; U.S.A	**Species:** Canine **Breed:** Havanese **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 21 - 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-May-2019	04-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 9 May 2019, the owner reported the following event for the Louis, a male neutered, 6 year old, 21-22 pound, Havanese and Poodle Mix. 3 May 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (M60709AL) was applied topically in one location in-between the shoulder blades by the pet owner. 4 May 2019: The dog had skin irritation and extreme itching over the entire body. The pet has not been presented to the vet clinic but the owner is using an unknown Hot Spot spray. The pet's symptoms are still on going. No further medical information expected at this time.
09-May-2019	UAE; 19US025855; MS; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Harts Flea shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2019*	02-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019, the owner reported the following event for 2 dogs under 10 pounds (signalment unknown). 2 May 2019: The dogs had a medium quantity of fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (FL) (lot unknown) was applied to the skin between the shoulder blades to each dog. The dogs continued to have a medium number of fleas following the treatment and they have been having fleas since Feb 2019 when the FL was started for the season. The dogs are treated seasonally (10 months out the year) and bathed once a week with Harts flea shampoo. The dogs are exposed to a yard environment for short potty breaks. The home and yard is treated. No further information available.
10-May-2019	UAE; 19US025864; TN; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 50 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	04-May-2019*	09-May-2019	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019, the pet owner reported the following event for Awa a female spayed, 50 pound, 7 year old, Beagle/Hound crossbreed. 10 May 2017*: The pet owner applied FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) topically to the skin between the shoulder blades of Awa on year round basis every month. 4 May 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically to the skin between the shoulder blades to the body of Awa. 9 May 2019: The pet owner noticed 15+ fleas on the body of Awa. 10 May 2019: Awa was in good health at time of application. Awa was not presented to veterinarian. The home environment has not

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						product used ok?: Yes					been treated by pet owner. The pet owner has seen fleas in the home. Awa has no history of skin problems or any other issues with topical treatments. Awa has had flea problem before in the past and it resolved with FRONTLINE PLUS . Awa has not received any other medications or topical treatments. Awa has not been bathed. Awa is indoors and outside for walks. The current status of Awa is unknown. Awa share home with 1 other cat that is treated with FRONTLINE PLUS CATS with no flea issues. No further medical information.
09-May-2019	UAE; 19US025869; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 4 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-May-2018*	28-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019 the pet owner reported the following event for an unknown 4 pound Feline (unknown). All other signalments are unknown. *4 May 2018: The owner applied 1 vial of FRONTLINE PLUS CATS (UNKNOWN) to the skin between the shoulder blades for the first time and continued on a monthly and year round basis thereafter. 4 Apr 2019: The owner applied another dose. *28 Apr 2019: The owner began noticing an unknown amount of fleas for the first time. 4 May 2019: The owner applied the most recent dose. 5 May 2019: The owner continued to see an unknown amount of fleas. There is 1 dog in the home being treated with FRONTLINE PLUS DOGS with case number 19US025842. The owner is not seeing any flea activity inside the apartment. The cat is indoor only and never goes outside. No further medical information is expected.
10-May-2019	UAE; 19US025871; TN; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2018*	09-May-2019*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the pet owner reported the following event for an 11 pound female Miniature Schnauzer. 2018*: The dog began receiving monthly doses of FRONTLINE PLUS DOG 0-22 LBS (lot and expiration unknown), topically between the shoulder blades. 1 May 2019: The most recent dose was applied. 9 May 2019*: An unknown number of live fleas were observed on the dog as well as in the home. Per the owner, the yard is regularly treated for fleas as there are a number of dogs in the neighborhood which do not receive flea preventation. No further medical infomration expected.
10-May-2019	UAE; 19US026001; SC; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	19-Apr-2019*	20-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the owner reported the following event for Kobe, 2 years old, male neutered, Siberian Husky/ Pit Bull Crossbred (weight unknown). 19 Apr 2019*: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades, by the pet owner. 20 Apr 2019*: The dog had large amount of fleas. The dog did not present to clinic and no treatment was provided. The pet owner stated that no one in the home is getting bit. The dog goes outside for potty breaks. 10 May 2019: The dog still has fleas. There is another pet in the home and the signalments are different . Please reference case 19US26005. No further medical information is expected.
10-May-2019	UAE; 19US026005;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL	19-Apr-2019*	20-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the owner reported the following event for Kitty-kitty, 3 years old, male

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	SC; U.S.A	(unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 18 lbs				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					neutered, 18 pounds, Feline (unknown). 19 Apr 2019*: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by the pet owner. 20 Apr 2019*: The cat had large amount of fleas. The cat did not present to clinic and no treatment was provided. The pet owner stated that no one in the home is getting bit. The cat is strictly indoors. 10 May 2019: The cat still has fleas. There is another pet in the home and the signalments are different . Please reference case 19US26001 No further medical information is expected.
09-May-2019	UAE; 19US026012; TX; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019	09-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 9 May 2019, the pet owner reported the following event for Punkin a female spayed, 8 pound, 5 years, feline mixed breed. 8 May 2018*: The pet owner applied FRONTLINE PLUS CATS (S41103AW) topically to the skin between the shoulder blades of Punkin on year round basis every month. 8 May 2019: The pet owner applied FRONTLINE PLUS CATS topically to the skin between the shoulder blades of Punkin. 9 May 2019: The pet owner noticed Punkin scratching herself raw all over body. 10 May 2019: Punkin was presented to veterinarian and treated with shot of cortisone. Punkin was in good health at time of application. Punkin has no history of drug or vaccine reactions. Punkin has not received any other product at the same time. Punkin currently at home with ongoing issue. Punkin shares FRONTLINE PLUS CATS with 2 other cats the home with case numbers 19US026046, 19US026050. No further medical information.
10-May-2019	UAE; 19US026025; OR; U.S.A	**Species:** Feline **Breed:** Ragdoll **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Feb-2019	03-May-2019	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the owner reported the following event for Sophia, 7 year old, 15 pound, spayed female, Ragdoll Feline. 1 Oct 2018*: The owner purchased a 6 pack of FRONTLINE PLUS CATS (M41702AW). 25 Feb 2019: The owner started noticing fleas. The first vial of FRONTLINE was applied. the flea issue resolved. 25 Mar 2019: Another vial was applied. 25 Apr 2019: The third vial was applied. 3 May 2019: The owner started to find a large amount of fleas on the pet. The cat is strictly indoor. The owner bathed the pet with flea shampoo. 10 May 2019: The flea issue is still ongoing. The owner bathed the pet again. There is a dog in the household receiving FRONTLINE and also experiencing an issue (see case 19US026006). No further medical information is expected.
09-May-2019	UAE; 19US026046; TX; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	08-May-2019	09-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 9 May 2019, the pet owner reported the following event for Dooley a male neutered, 15 pound, 5 years, feline mixed breed. 8 May 2018*: The pet owner began applying FRONTLINE PLUS CATS (S41103AW) topically to the skin between the shoulder blades of Dooley on year round basis every month. 8 May 2019: The pet owner applied FRONTLINE PLUS CATS topically to the skin between the shoulder blades of Dooley. 9 May 2019: The pet owner noticed Dooley scratching himself raw all over body.

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						Was the product used ok?: Yes					Dooley was in good health at time of application. Dooley has no history of drug or vaccine reactions.Dooley has not received any other product at the same time. Dooley currently at home with ongoing issue. Dooley shares FRONTLINE PLUS CATS with 2 other cats the home with case numbers 19US026012, 19US026050. No further medical information expected.
09-May-2019	UAE; 19US026050; TX; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019	09-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 9 May 2019, the pet owner reported the following event for Gabby a male neutered, 10 pound, 15 years, Maine Coon Cat/mixed breed. 8 May 2018*: The pet owner began applying FRONTLINE PLUS CATS (S41103AW) topically to the skin between the shoulder blades of Gabby on year round basis every month. 8 May 2019: The pet owner applied FRONTLINE PLUS CATS topically to the skin between the shoulder blades of Gabby. 9 May 2019: The pet owner noticed Gabby scratching himself raw all over body. Gabby was in good health at time of application. Gabby has no history of drug or vaccine reactions. Gabby has not received any other product at the same time. Gabby is currently at home with ongoing issue. Gabby shares FRONTLINE PLUS CATS with 2 other cats the home with case numbers 19US026012, 19US026046. No further medical information.
10-May-2019	UAE; 19US026091; HI; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz Ultraguard Rid Flea and Tick Shampoo; Vetapharm; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Feb-2019	03-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the pet owner reported the following event for Bane a male neutered, 4 year old, 85 pound, Large crossbred canine. Unknown dates: The pet owner first noticed fleas years ago. 3 Feb 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60502AX) topically between the shoulder blades to the body of Bane for the first time with 15+ fleas. 3 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to the body of Bane with 15+ fleas. 3 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to the body of Bane with 15+ fleas. 28 Apr 2019*: Bane was bathed with Hartz Ultraguard Rid Tick and Flea Shampoo. 3 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to the body of Bane with 15+ fleas. 13 May 2019: Bane was in good health at time of application. Bane was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. Bane has no history of skin problems or any other issues with topical treatments. Bane has had flea problem before in the past and it was not resolved. Bane has not received any other topical treatments. Bane does receive Vetapharm for heartworm preventative on the 15th of every month. Bane is strictly outdoors. Bane has no problems with other medications. Bane has come in contact with owners daughter's dog that is not treated. The current status of Bane is unknown. Bane shares FRONLINE PLUS DOG 45-88 LBS with 1 other dogs that have case numbers 19US026411. Bane also shares home with one dog that's treated with FRONTLINE PLUS DOG 23-44 with case number 19US026433. Bane also shares home with 2 other dogs in the home treated with FRONTLINE PLUS DOG 5-22 LBS with case numbers 19US026452, and 19US026454. No further medical

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											information.
10-May-2019	UAE; 19US026096; -; U.S.A	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** - **Age:** 11.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Feb-2019*	09-May-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the owner reported the following event for Otis, a 10 pound, 11 year old*, intact male Toy Poodle. Feb 2019*: Otis started monthly on FRONTLINE PLUS DOG 0-22 LBS (S61718AL) given topically in an unknown location. 9 May 2019*: The owner found and removed a tick from the dog's ear. The owner reports that 5 ticks have been found in total, but only mentioned the tick from yesterday. The pet lives indoors and only goes outside for walks. It is unknown if there are any other oets in the home. No further information expected.
10-May-2019	UAE; 19US026137; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Month(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-May-2019	10-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 10 May 2019, the owner reported the following event for No name, 6 months,7 pounds, female spayed, Domestic Shorthair (crossbred). 10 May 2019: One vial of FRONTLINE PLUS CATS (S40717AW) was applied between the shoulder blades, by the pet owner. Approximately 1 minute later the cat vomited. The cat did not present to clinic and not treatment was provided. No further medical information is expected.
11-May-2019	UAE; 19US026146; CA; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2018	01-Dec-2018	N/A	D-D	Suspected Lack of Efficacy Claim: On 11 May 2019, the owner reported the following event for Jerry, a 10 year old, 13 pound, neutered male Poodle (miniature). 1 May 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (S60401AX) was applied topically to the skin between the shoulder blades. The dog has been battling one to two fleas each day for the past 6 months. The dog has been treated with FL monthly for the past 6 months and has fleas for awhile. The dog is exposed to a small grass yard. The dog is bath once a week with a flea shampoo and he doesn't have any skin issues. No further information available.
13-May-2019	UAE; 19US026159; NY; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dasuquin; Vetoryl; Vetmedin pimobendan chewable 5 mg NP;	11-May-2019	12-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 13 May 2019, the owner reported the following event for Chloe Blue, a 15 year old, 17 pound, spayed female Shih Tzu. 11 May 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (FL) (P60814AL) was applied to the skin between the shoulder blades. 12 May 2019: The dog developed a huge red spot and a little bump at the site. 13 May 2019: The dog was taken to the vet and given a Benadryl shot but her symptoms continued. The dog has been on Dasuquin for her knee since she was a puppy, she takes Vetoryl for Cushings disease for the past two months and VETMEDIN (lot and expiration unknown) (product unsubstantiated) for a heart murmur for the past 3 years. The dog

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					has been on FL all her life with no issues. No further information available. UPDATE 3 July 2019: No new information received. No further information expected.
13-May-2019	UAE; 19US026166; MA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 5.6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019	10-May-2019	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019, Animal owner reported the following event for Cody, 14 year old, 5.6 pound, neutered male yorkshire terrier. Jun 2005: Started FRONTLINE PLUS DOG 0-22 LBS (861017AI) (Invalid lot) with the most recent purchase of a 3 pack on 16 Apr 2019. 19 Apr 2019: The pet owner applied the full contents topically between the shoulder blades and at the base of the tail. 21 Apr 2019: The pet was bathed. 10 May 2019: The pet owner noticed a tick attached the face of the dog and it was engorged. The tick was removed. The owner did not take the tick to the veterinarian for identification and has seen no further ticks on the dog. The dog is an indoor dog other than attending ballgames and is in overall good health. No further information expected.
13-May-2019	UAE; 19US026190; PA; U.S.A	**Species:** Canine **Breed:** West Highland White **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2017*	01-Dec-2017*	immediately after application	D-D	Suspected Adverse Event: On 13 May 2019, the pet owner reported the following event for Cassie, a 5 year old, 15 pound*, spayed female, West Highland White. 1 Dec 2017*: She received her monthly dose of FRONTLINE PLUS 0-22 LBS(lot and expiration unknown). Immediately after dosing she acted as though she were trying to get it off of herself. 2 Dec 2017: She became very hyperactive all day. 3 Dec 2017: She would return to her normal routine and seemed to fully recover. She previously received FRONTLINE PLUS, and had the same reaction as it has been ongoing monthly issue since her first usage of the product in 2014*. She has a pertinent medical history of digestive issues and is on hydrolyzed foods for it. No further medical information expected.
13-May-2019	UAE; 19US026198; IL; U.S.A	**Species:** Canine **Breed:** Collie **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 52 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2019	15-Apr-2019	0 Day(s)	D-D	Suspected Adverse Event: On 13 May 2019, the pet owner reported the following event for Jessie, a 3 year old*, 52 pound, spayed female Collie. 2017*: The dog began receiving FRONTLINE PLUS DOG 45-88 LBS (lot and expiration unknown) monthly, May through November seasonally. 15 Apr 2019: The most recent date of application. Immediately following application, the dog begins rolling around on her back and moaning. The dog stops approximately 10 minutes later. The pet owner is concerned that product is either burning her skin or making her itchy. The dog has never presented to the veterinary clinic for this issue. The pet owner mentions that this similar event happens each month after the dog receives product. No other adverse effects have been witnessed. No further medical information expected.
13-May-2019	UAE; 19US026236; TX; U.S.A	**Species:** Canine **Breed:** Rat Terrier **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	Jul-2018*	Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019, the pet owner reported the following event for Ziggy, a 1 year old, approximately 15 lb intact male Rat Terrier. Jul 2018*: Dog began to receive monthly doses of FRONTLINE. 1 Mar 2019*: Dog received one dose of FRONTLINE PLUS DOG 5-22 LBS (S60201AX) (FL) topically in an unknown manner.

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						used: no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					Owner began to notice fleas on the dog every time he returned from running around outside. 1 May 2019: Dog received most recent dose of FL. Pet owner continues to find a lot of fleas on the dog. There is no activity in the home. There are 3 cats in the home that are not having flea issues, it is unknown if the cats are treated. No further medical information expected.
13-May-2019	UAE; 19US026255; OH; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Feb-2019	06-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019 the pet owner reported the following event for Titus a 5 year old 8 pound male neutered Domestic Longhair (crossbreed). *Sep 2018: The owner began noticing fleas on the cat when she brought another cat into the home. 5 Feb 2019: The owner applied 1 vial of FRONTLINE PLUS CATS (UNKNOWN) to the skin between the shoulder blades for the first time and continued on a monthly basis thereafter. 5 May 2019: The owner applied the most recent dose. 6 May 2019: The owner continually seen 10 fleas on the cat each day since the first application. There is 1 other indoor only cat in the home sharing the FRONTLINE PLUS product with case number 19US026244. The owner thinks she can feel fleas in her hair, but has not seen any flea activity inside the home. The cat is indoor only. No further medical information expected.
13-May-2019	UAE; 19US026278; CA; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Advantix Flea and Tick shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Apr-2019*	11-May-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019, the pet owner reported the following event for Duke a male intact, 80 pound, 5 year old, German Shephard Dog. 26 Apr 2018*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) topically between the shoulder blades to the body of Duke on year round basis every month. 24 Apr 2019: The pet owner bathed Duke with Advantix Flea and Tick shampoo. 26 Apr 2019* : The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades of Duke. 11 May 2019*: The pet owner noticed 6-7* alive attached ticks on the body of Duke. The pet owner bathed Duke with Advantix Flea and Tick shampoo. 13 May 2019: Duke was in good health at time of application. Duke was not presented to veterinarian. Duke has no history of skin problems or any other issues with topical treatments. Duke has not had tick problem before in the past. Duke has not received any other medications or topical treatments. Duke is indoors and outside for walks. The current status of Duke is unknown. Duke share home with 1 other cats that is treated with FRONTLINE PLUS CATS with no flea issues or tick issue. The cat has case number 19US026492.No further medical information.
13-May-2019	UAE; 19US026303; CA; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Neutered **Age:** 9.50 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea shampoo;	22-Apr-2018*	13-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019, the pet owner reported the following event for Sunny a male neutered, 13 pound, 9.5 year old, Pomeranian. Unknown dates: Sunny has taken unknown amount of Denamarin for liver. 22 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Sunny on a year round basis every month.

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						Denamarin; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					13 Apr 2019*: The pet owner first noticed 8-10* fleas on the body of Sunny. 22 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topically between the shoulder blades to the body of Sunny with 8-10* fleas. 23 Apr 2019: The pet owner continues to see 8-10* fleas on the body of Sunny. 6 May 2019*: The pet owner bathed Sunny with unknown flea shampoo. 13 May 2019: Sunny was in good health at time of application. Sunny was presented to veterinarian but was not treated. The home environment has been treated by pet owner. The pet owner has seen fleas in the home. Sunny has no history of skin problems or any other issues with topical treatments. Sunny has not had flea problem before in the past. Sunny has not received any other topical treatments. Sunny is indoors and outside in fenced property. The current status of Sunny is unknown. Sunny shares FRONTLINE PLUS DOG 5-22 LBS with one other dog in home with case number 19US026484. No further medical information.
13-May-2019	UAE; 19US026331; WI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019	09-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 13 May 2019 the pet owner reported the following event for 2 unknown male neutered felines. All other signalments are unknown 8 April 2019: The owner applied 1 vial of FRONTLINE PLUS CATS (P41510DW) to the skin between the shoulder blades. The cats have used the product for an unknown amount of time on unknown dates prior with no issues. 9 April 2019: The owner noticed a bald spot at the application site of each cat. The size of the bald spot is unknown. Both cats recovered at an unknown amount of time later. 8 May 2019: The owner applied the most recent dose. 9 May 2019: The owner noticed a bald spot at the application site that was about 1 inch wide and 1.5 inches long. The cats have not presented to the vet clinic. The symptoms are ongoing. No further medical information expected.
10-May-2019	UAE; 19US026411; HI; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz Ultraguard Rid Flea and Tick Shampoo; Vetapharm; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Feb-2019	03-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the pet owner reported the following event for Juni a female spayed, 4 year old, 65 pound, Large crossbred. Unknown dates: The pet owner first noticed fleas years ago. Juni has bitten at the base of her tail to cause a bald spot. 3 Feb 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60502AX) topically between the shoulder blades to the body of Juni for the first time with 15+ fleas. 3 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to the body of Juni with 15+ fleas. 3 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to the body of Juni with 15+ fleas. 28 Apr 2019*: Juni was bathed with Hartz Ultraguard Rid Tick and Flea Shampoo. 3 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades to the body of Juni with 15+ fleas. 13 May 2019: Juni was in good health at time of application. Juni was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. Juni has no history of skin problems or any other

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											issues with topical treatments. Juni has had flea problem before in the past and it was not resolved. Juni has not received any other topical treatments. Juni does received Vetapharm for heartworm preventative on the 15th of every month. Juni is strictly outdoors. Juni has no problems with other medications. Juni has come in contact with owners daughter's dog that is not treated. The current status of Juni is unknown. Juni shares FRONTLINE PLUS DOG 45-88 LBS with 1 other dogs that have case numbers 19US026091. Juni also shares home with one dog that's treated with FRONTLINE PLUS DOG 23-44 with case number 19US026433. Juni also shares home with 2 other dogs in the home treated with FRONTLINE PLUS DOG 5-22 LBS with case numbers 19US026452,
13-May-2019	UAE; 19US026419; IL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5 - 6 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Mar-2019	14-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019, the owner reported the following event for 2 felines, 5-6 pounds (all other signalments unknown), indoor only. 13 Mar 2019: The cats started on FRONTLINE PLUS CATS on a monthly basis. 13 Apr 2019: The most recent vial of FRONTLINE PLUS CATS (PA1102AX) was applied between the shoulder blades, by the pet owner. 14 Apr 2019*: The cats had a moderate amount of fleas. 11 May 2019: One cat was presented to clinic and Revolution was prescribed. 13 May 2019: The most recent application of FRONTLINE PLUS was applied to both cats and one cat had Revolution applied. There is a dog in the household also on FRONTLINE PLUS. Please reference case 19US26571. No further medical information is expected
13-May-2019	UAE; 19US026432; GA; U.S.A	**Species:** Canine **Breed:** French Bulldog **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Month(s) **Weight:** 16.2 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Ivermectin; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-May-2019	13-May-2019	0 Day(s)	D-C	Suspected Adverse Event: On 13 May 2019, the veterinarian reported the following event for Jelly, a 7 month old (born 1 Oct 2018). 16.2 pound, spayed female, French Bulldog. 13 Mar 2019*: Started on monthly doses of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) topically by the owner. 29 Apr 2019*: The dog received a dose of Unknown Ivermectin. 13 May 2019: The dog received most recent dose of FRONTLINE. Later in the day, the dog developed ataxia. The dog was seen by the veterinarian but no treatment was given. The veterinarian has a low suspicion the symptoms are due to the product. The symptoms are ongoing. No further medical information expected.
10-May-2019	UAE; 19US026433; HI; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 37 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz UltraGuard Rid Flea and Tick Shampoo; Vetapharm; **Route:** Topical /	03-Feb-2019	03-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the pet owner reported the following event for BJ a male neutered, 12 year old, 37 pound, Medium crossbred. Unknown dates: The pet owner first noticed fleas years ago. 3 Feb 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS (S60402AX) topically between the shoulder blades to the body of BJ for the first time with 15+ fleas. 3 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS topically between the shoulder blades to the body of BJ with 15+ fleas. 3 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS topically between the shoulder blades to the body of BJ with 15+ fleas.

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						Cutaneous **Was the product used ok?:** Yes					28 Apr 2019*: BJ was bathed with Hartz Ultraguard Rid Tick and Flea Shampoo. 3 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS topically between the shoulder blades to the body of BJ with 15+ fleas. 13 May 2019: BJ was in good health at time of application. BJ was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. BJ has no history of skin problems or any other issues with topical treatments. BJ has had flea problem before in the past and it was not resolved. BJ has not received any other topical treatments. BJ does received Vetapharm for heartworm preventative on the 3rd of every month. BJ is strictly outdoors. BJ has no problems with other medications. BJ has come in contact with owners daughter dog that is not treated. The current status of BJ is unknown. BJ shares home with 2 other dogs that are treated with FRONTLINE PLUS DOG 45-88 LBS with case number 19US026411 and 19US26091. BJ also shares home with 2 other dogs in the home treated with FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) with case numbers 19US026454, and 19US026452. No further medical information.
10-May-2019	UAE; 19US026452; HI; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz Ultraguard Rid Flea and Tick Shampoo; Vetapharm; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Feb-2019	03-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the pet owner reported the following event for Dixon a male neutered, 5 year old, 20 pound, Dachshund. Unknown dates: The pet owner first noticed fleas years ago. 3 Feb 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topically between the shoulder blades to the body of Dixon for the first time with 15+ fleas. 3 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Dixon with 15+ fleas. 3 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Dixon with 15+ fleas. 28 Apr 2019*: Dixon was bathed with Hartz Ultraguard Rid Tick and Flea Shampoo. 3 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Dixon with 15+ fleas. 13 May 2019: Dixon was in good health at time of application. Dixon was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. Dixon has no history of skin problems or any other issues with topical treatments. Dixon has had flea problem before in the past and it was not resolved. Dixon has not received any other topical treatments. Dixon does received Vetapharm for heartworm preventative on the 3rd of every month. Dixon is strictly outdoors. Dixon has no problems with other medications. Dixon has come in contact with owners daughter dog that is not treated. The current status of Dixon is unknown. Dixon share FRONLINE PLUS DOG 5-22 LBS with 1 other dog that have case number 19US026454. Dixon also shares home with one dog that's treated with FRONTLINE PLUS DOG 23-44 with case number 19US026433. Dixon also shares home with 2 other dogs in the home treated with FRONTLINE PLUS DOG 45-88 LBS with case numbers 19US026411, and 19US026091. No further medical

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											information.
10-May-2019	UAE; 19US026454; HI; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz Ultraguard Rid Flea and Tick shampoo; Vetapharm; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Feb-2019	03-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 10 May 2019, the pet owner reported the following event forTyrion a male neutered, 3 year old, 14 pound, Dachshund. Unknown dates: The pet owner first noticed fleas years ago. 3 Feb 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topically between the shoulder blades to the body of Tyrion for the first time with 15+ fleas. 3 Mar 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Tyrion with 15+ fleas. 3 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Tyrion with 15+ fleas. 28 Apr 2019*: Tyrion was bathed with Hartz Ultraguard Rid Tick and Flea Shampoo. 3 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Tyrion with 15+ fleas. 13 May 2019: Tyrion was in good health at time of application. Tyrion was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home.Tyrion has no history of skin problems or any other issues with topical treatments. Tyrion has had flea problem before in the past and it was not resolved. Tyrion has not received any other topical treatments. Tyrion does received Vetapharm for heartworm preventative on the 3rd of every month. Tyrion is strictly outdoors. Tyrion has no problems with other medications. Tyrion has come in contact with owners daughter dog that is not treated. The current status of Tyrion is unknown. Tyrion share FRONLINE PLUS DOG 5-22 LBS with 1 other dog that have case number 19US026452. Tyrion also shares home with one dog that's treated with FRONTLINE PLUS DOG 23-44 with case number 19US026433. Tyrion also shares home with 2 other dogs in the home treated with FRONTLINE PLUS DOG 45-88 LBS with case numbers 19US026411, and 19US026091. No further
13-May-2019	UAE; 19US026455; IN; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** U **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 55 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jan-2019*	13-May-2019*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019, the pet owner reported the following event for a 1.5 year old*, 55 pound*, Labrador Retriever/Standard Poodle mix with otherwise unknown signalment. 1 Jan 2019*: The dog began receiving FRONTLINE PLUS DOG 45-88 LBS (lot unknown) monthly with unknown purchase history. 30 Apr 2019: The monthly dose was given. The pet owner mentioned that the dog was wriggly and only got half the product from the vial on its skin. 13 May 2019*: The owner noticed fleas. The dog's current condition is ongoing. The dog's excursion details are unknown. No further medical information expected.
10-May-2019	UAE; 19US026458; NY; U.S.A	**Species:** Canine **Breed:** Havanese **Sex:** M **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	03-May-2019*	10-May-2019	1 Week(s)	D-D	Suspected Adverse Event: On 10 May 2019, the following event was reported to Safety Call International (SCI) by the pet owner for Paco, a 13 year old, 20 pound, neutered male, Havanese. 10 May 2019: He received a HEARTGARD PLUS(68 MCG/57 MG) (8BC0082, Jan 2021). Two hours later he had loose stool, vomited,

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		Age: 13.00 Year(s) **Weight:** 20 lbs				**Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					and seemed paralyzed and lethargic as he would not move. The current condition of the animal is improved, but he still seems off. Owner stated Paco may have gone through this before in Mar 2019* but it is unconfirmed. No further medical information expected. UPDATE 13 May 2019: Per owner phone call. 3 May 2019*: The dog received its monthly dose of FRONTLINE PLUS DOG 0-22 LBS(P62719BL). 11 May 2019: The pet was taken into the veterinary clinic, but no treatments were provided. 13 May 20019: The dog seems to still be doing better, but owner states Paco does not seem fully recovered. No further information is expected. UPDATE 16 May 2019: Per owner phone call. 10 Mar 2019*: A chew was given to Paco. 11 Mar 2019*: He began to experience vomiting and explosive diarrhea. 13 Mar 2019*: He was not taken to a clinic, but did recover on his own after a few days. The owner stated Paco had been on HEARTGARD PLUS since 2007* with no adverse effects noted other than Mar 2019*. He also stated Paco has been on FRONTLINE PLUS since 2007* with no adverse effects noted, but he did see a tick twice. Please see case 19 US28038. No further information is expected.
13-May-2019	UAE; 19US026484; CA; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Neutered **Age:** 8.50 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Mar-2019*	13-Apr-2019*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019, the pet owner reported the following event for Bella a female spayed, 9 pound, 8.5 year old, Pomeranian. 22 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS topically between the shoulder blades to the body of Bella on a year round basis every month. 13 Apr 2019*: The pet owner first noticed 8-10* fleas on the body of Bella. 22 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topically between the shoulder blades to the body of Bella with 8-10* fleas. 23 Apr 2019: The pet owner continues to see 8-10* fleas on the body of Bella. 6 May 2019*: The pet owner bathed Bella with unknown flea shampoo. 13 May 2019: Bella was in good health at time of application. Bella was presented to veterinarian but was not treated. The home environment has been treated by pet owner. The pet owner has seen fleas in the home. Bella has no history of skin problems or any other issues with topical treatments. Bella has not had flea problem before in the past. Bella has not received any other topical treatments or medications. Bella is indoors and outside in fenced property. The current status of Bella is unknown. Bella shares FRONTLINE PLUS DOG 5-22 LBS with one other dog in home with case number 19US026303. No further medical information.
13-May-2019	UAE; 19US026492; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	13-May-2019	13-May-2019*	N/A	D-D	Suspected Adverse Event: On 13 May 2019, the pet owner reported the following event for a feline, other signalment unknown. 13 May 2019: The cat was scratching prior to application of FRONTLINE PLUS CATS. The pet owner applied one dose of FRONTLINE PLUS CATS (lot number unknown) topically to skin between the shoulder blades of the cat. Unknown Date: An unknown time after application, the feline had

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: Unknown				products **Route:** unknown **Was the product used ok?:** Unknown to Company					an increase in scratching.The cat shares home with one other dog in the home with a separate case, see case 19US026278. The current status of the feline is unknown. The pet owner refused to provide additional information on adverse event with the cat. No further medical information.
14-May-2019	UAE; 19US026521; -; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	13-May-2019	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019, animal owner reported the following event for Shoka, a 3 year old, 70 pound, spayed female large crossbreed. 01 May 2019: A 3 pack of FRONTLINE PLUS DOG 45-88 LBS (Lot:S60914AR) was purchased and the owner applied the full contents of 1 vial topically between the shoulder blades for the first time. 13 May 2019: The owner removed 15-20 crawling ticks and 2 attached ticks that were still alive. The owner noted the dog is mostly an indoor dog and has not been outside of the home or yard. The owner is still seeing ticks crawling. The tick was not taken to a veterinarian for species identification. The owner noted she had not seen ticks prior to application. The dog was not bathed. There is 1 other dog in the home and not in the same weight category as Shoka. No further information expected.
14-May-2019	UAE; 19US026543; FL; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	20-Apr-2019	20-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim/Adverse reaction: On 14 May 2019 an animal owner reported the following event in Elwood, an 11 year old, 25 pound, male neutered, terrier mix. 23 Mar 2019: The pet owner applied FRONTLINE PLUS 23-44 lb (S62704AW) between the shoulder blades for a pre existing flea infestation. 20 Apr 2019: The pet owner applied FRONTLINE PLUS. Still seeing fleas. 14 May 2019: The pet owner is still seeing fleas. No decrease in the number of fleas seen. Canine reported to have sores due to the scratching and biting. Animal owner uncomfortable using product due to this. There are no other pets in the home. No further information provided nor expected.
13-May-2019	UAE; 19US026571; IL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Mar-2019	14-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 13 May 2019, the owner reported the following event for a canine (all other signalments unknown). 13 Mar 2019: The dog started on FRONTLINE PLUS DOG 5-22 LBS on a monthly basis. 13 Apr 2019: The most recent vial of FRONTLINE PLUS DOG 5-22 LBS (S61006AL) was applied between the shoulder blades, by the pet owner. 14 Apr 2019*: The dog had a moderate amount of fleas. 13 May 2019: The most recent application of FRONTLINE PLUS was applied to the dog. There are 2 cats in the household also on FRONTLINE PLUS. Please reference case 19US26419. No further medical information is expected
14-May-2019	UAE; 19US026603; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	15-Mar-2019	10-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim/Adverse Reaction: On 14 May 2019, a pet owner reported the following event for Thunder , an approximately 3 year old, 10* pound, neutered male Domestic Shorthair. 15 Mar 2019: The cat began receiving FRONTLINE PLUS CATS

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		Sex qualifier: Neutered **Age:** 3.00 Year(s) **Weight:** 10 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(S41103AW) monthly with 3 vials purchased on the same day. 9 May 2019: The most recent dose was applied topically between the shoulder blades. 10 May 2019: The cat began biting and scratching itself. The pet owner noticed 5-8 live fleas on the cat. The pet owner has observed daily biting and scratching since the first application of the product on Apr 2019. The pet owner has also observed live fleas on the cat a couple of times a week for the past 3 months. There are no other pets in the home and the cat does have access to a fenced in back yard. There is no deck or crawl space in the back yard but there are trees. The pet owner has not noticed any fleas in the house. No further medical information expected. UPDATE 29 May 2019: Added Adverse Reaction to the product problem type on the product screen.
14-May-2019	UAE; 19US026607; OR; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Month(s) **Weight:** 32 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	08-May-2019	08-May-2019	0 Day(s)	D-C	Suspected Adverse Event: On 14 May 2019, Clinic staff reported the following event for Hank, 6 month old (26 Oct 2018), 32 pound, neutered male pit bull mix. 08 May 2019: Started on FRONTLINE PLUS DOG 23-44 LBS (S61902) and the pet owner applied the full contents of 1 vial topically in a line down the dog's back. The dogs skin became hyper-pigmented. 6 hours post, the dog had a seizure that lasted 1 minute and the dog was confused for about 4-5 minutes. 09 May 2019: The dog started shaking, frothing at the mouth, confused and unstable. The dog presented for an exam. Bloodwork was performed with GLU:133, Phos:6.8, CK:311. Attending veterinarian noted those values be due to being a puppy. All additional values were within normal limits. A urinalysis was normal. The dog was sent home with Diazepam to use rectally if another seizure occurs. There have been no reports of the dog having another seizure and is considered recovered. There is 1 other dog in the home who is in the same weight category as Hank. This dog received the same product on the same day with no issues. UPDATE 17 May 2019: Veterinarian has low suspicion for FRONTLINE PLUS causing neurological event. An underlying neurological disease is suspected. No further information expected.
14-May-2019	UAE; 19US026617; CA; U.S.A	**Species:** Canine **Breed:** Australian Cattle Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 63 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 9.8% / S-METHOPRENE 8.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION; **Route:** Topical / Cutaneous **Was the**	01-May-2019	07-May-2019*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019 a pet owner reported the following event for Snoopy, a 63 pound, 1 year old, spayed female Australian Cattle Dog/ Pit Bull cross. 1 Feb 2019, 1 Mar 2019, and 1 Apr 2019: Owner applied 1 vial FRONTLINE GOLD DOG 45-88 LBS (lot unknown) to the skin on the back of the neck to between the shoulder blades. 1 May 2019: Owner applied 1 vial FRONTLINE PLUS DOG 45-88 LBS (S61501AR) to the skin on the back of the neck to between the shoulder blades for the first time. 7 May 2019*: Owner noticed the dog chewing herself and saw live fleas on the dog which she quantified as mild. No treatment has been performed. The owner has seen no fleas in the home, on herself, and has not treated the home with any products. Snoopy in an inside and outside pet who spends time in a fenced yard, goes to dog parks, on walks, and outside for potty breaks. The dog has been diagnosed with flea allergy by a veterinarian and chews excessively if she gets bitten by a flea. The dog is bathed approximately monthly with a dog shampoo, but has not received a

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						product used ok?: Yes					bath in the last month. The dog has fleas approximately early Jan 2019 to late Feb 2019* and as started on FRONTLINE GOLD. There is one cat in the home who also goes outside and is treated with FRONTLINE PLUS CATS monthly since 1 Apr 2019 and does not have fleas.
14-May-2019	UAE; 19US026621; TX; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-May-2019	11-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 14 May 2019, the owner reported the following event for Yeller, 4 year old, 65 pound, neutered male, Labrador Retriever canine. 9 May 2019*: Fleas were found on the pet. The owner bathed the pet with a flea shampoo. 10 May 2019: The owner a 6 pack of FRONTLINE PLUS DOG 45-88 LBS (S62111AL). One vial was applied between the shoulder blades. 11 May 2019: The owner continued to find fleas. The owner also noticed the pet experienced intense itching and bleeding around the face. The pet did not present to the clinic and no treatment was provided. 14 May 2019: The symptoms and flea issue are still ongoing. The dog has access to a fenced in yard. There are 6 other dogs in the household being treated with FRONTLINE and one other dog was experiencing an issue (see case 19US026632). There are also an unknown number of outdoor cats being treated and experiencing no issue. No further medical information is expected.
14-May-2019	UAE; 19US026632; TX; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 21 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-May-2019	11-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 14 May 2019, the owner reported the following event for Mikey, 2 year old, 21 pound, neutered male, Medium crossbreed canine. 9 May 2019*: Fleas were found on the pet. The owner bathed the pet with a flea shampoo. 10 May 2019: The owner purchased a 6 pack of FRONTLINE PLUS DOG 5-22 LBS (S60808AL). One vial was applied between the shoulder blades. 11 May 2019: The owner continued to find fleas. The owner also noticed the pet experienced intense itching and bleeding around the rear. The pet did not present to the clinic and no treatment was provided. 14 May 2019: The symptoms and flea issue are still ongoing. There are 6 other dogs in the household being treated with FRONTLINE and 1 other dog is experiencing the same issue(see case 19US026621). There are also an unknown number of outdoor cats being treated and experiencing no issue. No further medical information is expected.
14-May-2019	UAE; 19US026639; LA; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Pet Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment /	23-Feb-2019	21-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019 the pet owner reported the following event for an unknown 12 year old, 10 pound, female Maltese. All other signalments are unknown. *1 Aug 2007: The owner began applying 1 vial of FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades in Aug and Sep seasonally each year. *22 Feb 2019: The owner began bathing the dog in an unknown pet shampoo once per week. It is unknown if the dog was bathed prior to this. 23 Feb 2019, 23 Mar 2019, 20 Apr 2019: The owner applied the first doses of the season every 4 weeks. *21 Apr 2019: Owner started seeing about 8 fleas each day. It is unknown if the owner was seeing fleas prior to this date. There are no other pets in the home. The dog goes for short leash walks only. The dog does not have any skin issues. There is no

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						vaccination program not respected)					flea activity present in the home. No further medical information is expected.
14-May-2019	UAE; 19US026642; MD; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Simperica; Capstar; Tropiclean pet shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019	08-May-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019, the pet owner reported the following event for April a female spayed, 7 year old, 13 pound, Shih Tzu. 6 May 2018*: The pet owner applies FRONTLINE PLUS DOG 5-22 LBS (R61421AL) topically to skin between shoulder blades of April on year round basis every month. 6 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically to the skin between the shoulder blades of April. 8 May 2019*: The pet owner first noticed 5-15* fleas on the body of April. The pet bathed April with Tropiclean pet shampoo. 9 May 2019: April was presented to veterinarian and prescribed unknown amount of Simperica and Capstar. 14 May 2019: April was in good health at time of application. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. April has no history of skin problems or any other issues with topical treatments. April has not had flea problem before in the past. April is indoors and outside for walks. The current status of April is unknown. No further medical information.
14-May-2019	UAE; 19US026645; MO; U.S.A	**Species:** Canine **Breed:** Rottweiler **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 120 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Deflea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Apr-2019	08-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019, the pet owner reported the following event for a 120 lb male Rottweiler, additional signalment unknown. History: The dog receives FRONTLINE treatment on a year round basis for an unknown amount of time. 6 May 2019: Dog was bathed with an unknown shampoo. 7 May 2019: Dog received an unknown amount of FRONTLINE PLUS DOG 89-132 LBS (S60606AR) (FL) topically in an known manner. The dog has access to a pen area that is treated with sevin dust. The pet owner is continuing to find fleas on the dog. There is one other dog in the home that has continued to have fleas after the application of FL, see case 19US027518. No further medical information expected. UPDATE 19 JUN 2019: The pet owner reported the following information. 7 Apr 2019: The owner applied the first dose to the skin between the shoulder blades for the first time ever. No fleas were seen. 6 May 2019: The dog was bathed with a deflea concentrate. 1 Jun 2019: The most recent dose was applied. 2 Jun 2019 The owner continued to see about 20 fleas on the dog each day. There are 2 indoor only cats in the home being treated with FRONTLINE PLUS with case number 19US035659. The owner is bathing every other day. The owner is bombing the house every week for an unknown amount of time. No further medical information expected.
14-May-2019	UAE; 19US026653; SC; U.S.A	**Species:** Canine **Breed:** Catahoula **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	11-Apr-2019	13-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: 14 May 2019: An owner reported the following event in Cajun, a 10 year old, 75 pounds*, neutered, male, Catahoula, strictly outdoor dog. 11 Apr 2019: The owner applied FRONTLINE PLUS FOR DOGS 45-88 LBS (653315, 07 Jun 2019) (product was purchased on ebay) for the first time this year. There were no fleas seen at the

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		Weight: 75 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					time of application. 10 May 2019: The owner applied FRONTLINE PLUS FOR DOGS 45-88 LBS (653315, 07 Jun 2019). 13 May 2019: The owner saw hundreds of fleas on the dog and washed the dog in dawn dish soap. The owner treated the yard with an unknown spray. There are 4 dogs and 3 cats with different life styles in the home. No further information expected.
14-May-2019	UAE; 19US026662; IL; U.S.A	**Species:** Canine **Breed:** Spaniel (King Charles) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019*	11-May-2019*	10 Day(s)	D-D	Suspected Adverse Event: On 14 May 2019, the pet owner reported the following event for Rosie, a 4 year old, 25 pound, spayed female, King Charles Spaniel. 1 Jan 2017*: The dog started on HEARTGARD PLUS(68 MCG/57 MG)(lot and expiration unknown). 2 Jan 2017*: She began to have unknown reactions, at this time the doctor took the dog off meat products due to allergic reactions . 25 Apr 2019: She started to receive HEARTGARD PLUS(68 MCG/57 MG)(lot and expiration unknown) again. 1 May 2019*: The dog received FRONTLINE PLUS 22-43 LBS(lot unknown). 11 May 2019*: She began experiencing vomiting. Currently her status is ongoing. No further medical information expected.
14-May-2019	UAE; 19US026669; SC; U.S.A	**Species:** Canine **Breed:** Catahoula **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 60 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	11-Apr-2019	13-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: 14 May 2019: An owner reported the following event in Sophie, a 5 year old, 60 pounds*, spayed female, Catahoula, strictly outdoor dog. 11 Apr 2019: The owner applied FRONTLINE PLUS FOR DOGS 45-88 LBS (653315, 07 Jun 2019) (product was purchased on ebay) for the first time this year. There were no fleas seen at the time of application. 10 May 2019: The owner applied FRONTLINE PLUS FOR DOGS 45-88 LBS (653315, 07 Jun 2019). 13 May 2019: The owner saw hundreds of fleas on the dog and washed the dog in dawn dish soap. The owner treated the yard with an unknown spray. There are 4 dogs and 3 cats with different life styles in the home. No further information expected.
14-May-2019	UAE; 19US026680; NM; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	23-Apr-2019	14-May-2019	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019, the owner reported the following event for Junior, 8 year, 12 pound, neutered male, Chihuahua canine. 1 Aug 2018*: The owner purchased a year supply of FRONTLINE. 23 Apr 2019: One vial of FRONLTINE PLUS DOG 5-22 LBS (R62529AL) was applied between the shoulder blades. The pet has received the FRONTLINE monthly since 2011* with no issue. 14 May 2019: The owner found 1 dead tick on the pet. The species of the tick is unknown. The tick was still attached at the time of the

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						Cutaneous **Was the product used ok?:** Yes					report. The dog has access to an open yard for potty breaks. There are no other pets in the household. No further medical information is expected.
17-Jun-2019	UAE; 19US026694; SC; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 45 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	11-Apr-2019	13-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: 14 May 2019: An owner reported the following event in Candy, a 6 year old, 45 pounds*, spayed, female, Border Collie mix, indoor-outdoor dog. 11 Apr 2019: The owner applied FRONTLINE PLUS FOR DOGS 45-88 LBS (653315, 07 Jun 2019) (product was purchased on ebay) for the first time this year. There were no fleas seen at the time of application. 10 May 2019: The owner applied FRONTLINE PLUS FOR DOGS 45-88 LBS (653315, 07 Jun 2019). 13 May 2019: The owner saw hundreds of fleas on the dog and washed the dog in dawn dish soap. The owner treated the yard with an unknown spray. There are 4 dogs and 3 cats with different life styles in the home. No further information expected.
14-May-2019	UAE; 19US026707; FL; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 75 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	07-Nov-2018*	08-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim:On 14 May 2019, the owner reported the following event for Axel, 2 years old, 75 pounds, Intact male, Pit Bull. Oct 2018: The pet owner noticed that the dog had fleas and was scratching. Nov 2018: The pet owner noticed that the dog still have fleas and was still scratching so she purchased a 8 pack of FRONTLINE PLUS DOG 89-132 LBS (R60706AR) and applied an overdose of the product for the first time to the skin between the shoulder blades. No other purchase history. 7 May 2019*: The most recent dose was applied. 8 May 2019*: The owner is still noticing live fleas on the dog. It is unknown if the dog has been bathed or goes swimming. The dog does not have any skin issues. The owner is noticing flea activity in the home. The home has been treated with an unknown spray. The dog is mostly indoor and goes out for potty breaks and recreational time. 14 May 2019: The dog still has fleas and fleas are still in the home biting the owners. There is 1 other dog in the home using the FRONTLINE PLUS as well with case 19US26738 No further medical information is expected
14-May-2019	UAE; 19US026738; FL; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 75 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No	07-May-2019	08-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim:On 14 May 2019, the owner reported the following event for Zia, 3 years old*, 75 pounds, spayed female, Pit Bull. Oct 2018: The pet owner noticed that the dog had fleas and was scratching. Nov 2018: The pet owner noticed that the dog still have fleas and was still scratching so she purchased a 8 pack of FRONTLINE PLUS DOG 89-132 LBS (R60706AR) and applied an overdose of the product for the first time to the skin between the shoulder blades. No other purchase history. This was the first dose applied for the season. 7 May 2019*: The most recent dose was applied. 8 May 2019*: The owner is still noticing live fleas on the dog. It is

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						(Overdose)					unknown if the dog has been bathed or goes swimming. The dog does not have any skin issues. The owner is noticing flea activity in the home. The home has been treated with an unknown spray. The dog is mostly indoor and goes out for potty breaks and recreational time. 14 May 2019: The dog still has fleas and fleas are still in the home biting the owners. There is 1 other dog in the home using the FRONTLINE PLUS as well with case 19US26707. No further medical information is expected
14-May-2019	UAE; 19US026752; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Feb-2019*	14-May-2019*	6 Week(s) 1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019, a pet owner reported the following event for Gizmo, a male Domestic Shorthair of further unknown signalment. Feb 2019: The owner purchased a 3 pack of FRONTLINE PLUS CATS (lot unknown) from Walmart and stated she applied every month and is still seeing fleas. 14 May 2019: The owner reported still seeing fleas on the cat, it is unknown if there are other pets in the house. Further details are unknown at this time.
14-May-2019	UAE; 19US026801; TN; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown pet shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Feb-2019*	10-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019 the pet owner reported the following event for an unknown 11 pound male Pomeranian. All other signalments are unknown. *Feb 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades for the first time and repeated month until *Nov 2018. *8 Feb 2019: The owner bathed the dog in an unknown pet approved shampoo. It is unknown if this is the first bath. *9 Feb 2019: The owner applied the 1st dose of the season. *16 Feb 2019: The owner gave another bath. *1 Mar 2019: The owner began seeing an unknown amount of fleas on the dog. *7 Mar 2019: The owner gave another bath. *9 Mar 2019: The owner applied another dose of FL *10 Mar 2019: The owner continued to see fleas. *16 Mar 2019: The owner bathed the dog. *8 Apr 2019: The owner bathed the dog. *9 Apr 2019: The owner applied another dose. *10 Apr 2019: The owner continued seeing an unknown amount of fleas. *16 Apr 2019: The owner bathed the dog again. *7 May 2019: The owner bathed the dog. 9 May 2019: The owner applied the most recent dose. Owner saw 2 fleas later that night. 10 May 2019: The owner saw 2 fleas each day thereafter. There is 1 other dog in the house sharing the product with case number 19US026803. The dog does not have any skin issues but has a history of mild flea allergy dermatitis. The dog has access to a fenced in yard in front of the house. The owner is not noticing any flea activity inside the home. No further medical information expected.
14-May-2019	UAE; 19US026803;	**Species:** Canine **Breed:** Terrier	1	1	0	**Product used:** FIPRONIL	09-Feb-2019*	10-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019 the pet owner reported the following event for an unknown 20 pound male Terrier

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	TN; U.S.A	Breeds (500 Series) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 20 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown pet shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					mix. All other signalments are unknown. *Feb 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades for the first time and repeated month until *Nov 2018. *8 Feb 2019: The owner bathed the dog in an unknown pet approved shampoo. It is unknown if this is the first bath. *9 Feb 2019: The owner applied the 1st dose of the season. *16 Feb 2019: The owner gave another bath. *1 Mar 2019: The owner began seeing an unknown amount of fleas on the dog. *7 Mar 2019: The owner gave another bath. *9 Mar 2019: The owner applied another dose of FL *10 Mar 2019: The owner continued to see fleas. *16 Mar 2019: The owner bathed the dog. *8 Apr 2019: The owner bathed the dog. *9 Apr 2019: The owner applied another dose. *10 Apr 2019: The owner continued seeing an unknown amount of fleas. *16 Apr 2019: The owner bathed the dog again. *7 May 2019: The owner bathed the dog. 9 May 2019: The owner applied the most recent dose. Owner saw 2 fleas later that night. 10 May 2019: The owner saw 2 fleas each day thereafter. There is 1 other dog in the house sharing the product with case number 19US026801. The dog does not have any skin issues but has a history of flea allergy dermatitis. The dog has access to a fenced in yard in front of the house. The owner is not noticing any flea activity inside the home. No further medical information expected.
14-May-2019	UAE; 19US026806; NJ; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Apr-2019*	15-May-2019*	31 Day(s)	D-D	Suspected Adverse Event: On 14 May 2019, the pet owner reported the following event for Hamilton a feline male neutered, 6 year old, 10 pound, other signalment unknown. 14 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS CATS (R40719AW) topically to the skin between the shoulder blades of Hamilton. Unknown dates: It is unknown when reaction started. The pet owner stated that Hamilton has hair loss at the application site following the use of the product. 15 May 2019: Hamilton was in good health at the time of application.Hamilton was not presented to veterinarian. Hamilton does not have a history of drug or vaccine reactions. Hamilton has not received any other product at the same time as the FRONTLINE PLUS CATS application. Hamilton is currently at home with ongoing hair loss issue. No further medical information.
14-May-2019	UAE; 19US026808; TX; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	14-May-2019	14-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 14 May 2019, the pet owner reported the following event for Lily, 2 year old, 50 pound, female spayed, Pit Bull. 14 May 2019: There were small amount of fleas on the dog and the dogs skin was irritated at her tail and around her neck. 1 vial of FRONTLINE PLUS DOG 45-88 lbs (S62111AL) was applied to the dog in one area between the shoulder blades for the first time ever. Some of the product dripped down the dogs side and she is acting as if it irritating her. She is scratching the area excessively. The dogs skin was irritated prior to the application of FRONTLINE. Owner believes skin irritation due to flea bites. The dog has not been seen by the Veterinerian. No further medical information is expected.

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						ok?: Yes					
15-May-2019	UAE; 19US026845; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-May-2019	14-May-2019*	1 Day(s)	D-D	Suspected Adverse Event: On 15 May 2019,the pet owner reported the following event for 2 unknown felines. History: The cats have used the FRONTLINE product before, the last application was possible 2-3 months prior to the time of the report. 13 May 2019: The cats received 1 dose of FRONTLINE PLUS CATS (S40606AW) (FL) topically between the shoulder blades. At an unknown time following the application, the cats began jumping and biting at themselves a lot. In prior use, the pet owner has not seen these symptoms. The pet owner reported that she has seen fleas on the cats. The veterinary clinic has not been contacted about the symptoms presenting and they are ongoing at this time. There is one other cat in the household that received a dose of FL that is not displaying with any symptoms. No further medical information expected.
15-May-2019	UAE; 19US026846; NY; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Chocolate) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-May-2019	14-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 15 May 2019, a pet owner reported the following event for Isabelle, an 8 year old, 60* pound, spayed female Chocolate Labrador Retriever. 13 May 2019: The dog received 1 application of FRONTLINE PLUS DOG 45-88 LBS (P61401AR) between the shoulder blades. 14 May 2019: The dog was walking around with her head down and her tail tucked between her legs. She would not go up or down the steps without assistance and would not jump up onto the couch. The dog would not come to the owner when called and would just stare at him. The dog is eating and drinking normal, and has not vomited. The current condition of the dog is ongoing. No other medications were administered and no treatments have been provided. The dog has received FRONTLINE seasonally since 2016* without any adverse events noted. No further medical information expected.
01-May-2019	UAE; 19US026862; CT; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 52 lbs	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	24-Apr-2019*	01-May-2019*	1 Week(s)	D-D	Suspected Adverse Event: On 1 May 2019, the pet owner reported the following event for a 52 lb and 62 lb canine, additional signalment unknown. 24 Apr 2019*: Dogs received a dose of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) (FL) topically in an unknown manner. At an unknown time the pet owner observed that the dogs were not eating and were having episodes of diarrhea. The pet owner declined to provide any further information. The dogs have been treated with FL before resulting in a suspected lack of efficacy , see case 19US023728. No further medical information expected.
15-May-2019	UAE; 19US026864; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Feb-2019	01-Mar-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, the owner reported the following event for 2 canines (all other signalments unknown). 1 Feb 2019*: The pet owner purchased FRONTLINE PLUS DOG 89-132 LBS(lot unknown) 6 pack and started to administered monthly. 1 Mar 2019: The pet owner started to see live ticks on the dogs. 1 May 2019: The most recent vial of FRONTLINE PLUS was applied between the shoulder blades, by the pet owner. 14 May 2019: The pet owner is still seeing ticks on the dogs. The

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						Was the product used ok?: Yes					pet owner stated that the ticks are biting some of the family members. It is unknown what type of environment the dog frequents. No further medical information is expected.
15-May-2019	UAE; 19US026893; -; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	08-Apr-2019	08-May-2019	30 Day(s)	D-D	Suspected Lack of Efficacy: On 15 May 2019, the pet owner reported the following event for Big Mama, a 1.5 year old, 60 pound, spayed female, Pit Bull. 8 Apr 2019: She received her monthly dose of FRONTLINE PLUS DOG 89-132 LBS(R61814AR). 8 May 2019: The owner noticed fleas/ticks. The dog does go outside to potty. The owner's spray around the house to kill fleas and ticks, but have noticed them inside of the house wherever the dogs go. The owner's have also noticed them on themselves. The owner stated they are noticing more than 10 fleas a day on the animal. The animal has been receiving FRONTLINE PLUS since Feb 2019. There a total of 2 canines in the household, the other animal also has a case, see 19US026906. No further medical information expected.
15-May-2019	UAE; 19US026901; -; U.S.A	**Species:** Canine **Breed:** West Highland White **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 15.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; Metronidazole; Prednisone; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Apr-2019*	24-Apr-2019	1 Day(s)	D-D	Suspected Adverse Event: On 15 May 2019 while inquiring about the difference between HEARTGARD PLUS and HEARTGARD Tablets, an animal owner reported the following event in Duke, a 3 year old (27 Jan 2016), 15.5 pound, male neutered, West Highland Terrier. 2016*: Canine started receiving monthly HEARTGARD PLUS (68 MCG/57 MG) (lot, expiration date unknown) and FRONTLINE PLUS 5-22 LBS (lot, expiration date unknown). May 2018*: The canine was diagnosed with granulary inflammatory bowel disease that the animal owner does not feel is related to the HEARTGARD PLUS nor FRONTLINE PLUS. The canine was treated with Metronidazole. Sep 2018*: The canine started Prednisone. 23 Apr 2019*: The canine was given 1 HEARTGARD PLUS chew and administered FRONTLINE PLUS. 24 Apr 2019: The canine developed diarrhea 28 Apr 2019: Diarrhea resolved on it's own. No further information provided nor expected.
15-May-2019	UAE; 19US026906; -; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2019	08-May-2019	30 Day(s)	D-D	Suspected Lack of Efficacy: On 15 May 2019, the pet owner reported the following event for Pebbles, a 9 year old, 10 pound, neutered male, Chihuahua. 8 Apr 2019: He received her monthly dose of FRONTLINE PLUS DOG 0-22 LBS(lot and expiration unknown). 8 May 2019: The owner noticed fleas/ticks. The animal sore all over from the biting of the fleas. The dog does go outside to potty. The owner's spray around the house to kill fleas and ticks, but have noticed them inside of the house wherever the dog goes. The owner's have also noticed them on themselves. The owner stated they are noticing more than 10 fleas a day on the animal. The owner also stated they gave the monthly dose of FRONTLINE PLUS on this day as well. There a total of 2 canines in the household, the other animal also has a case, see 19US026893. No further medical information expected.

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15-May-2019	UAE; 19US026913; IL; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 110 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2019	06-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, the owner reported the following event for an unknown, 3 year old, 110 pound, intact male, German Shepard Dog. 5 May 2019: One vial of the FRONTLINE PLUS DOG 89-132 LBS (P61204AR) was applied topically as directed by the owner. 6 May 2019: The owner noticed 6 ticks on the pet with 2 being engorged. The pet is indoor mostly and goes outside for potty breaks and recreation and also spends time in the woods every other week. The owner normally does not see ticks on the pet until they go into this environment. This is the pet's first time using FRONTLINE. No further medical information is expected.
15-May-2019	UAE; 19US026915; NY; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 92 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 136 MG CHEWABLE TABLETS; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Oct-2018*	30-Nov-2018*	8 Week(s)	D-B	Suspected Adverse Event: On 15 May 2019, the veterinary technician reported the following event for an unknown canine, 92 pound, 12 year old (31 Dec 2005), female spayed, Retriever (Labrador, Yellow). Unknown: The dog was switched from FRONTLINE PLUS DOG 89-132 LBS(lot unknown) to NEXGARD(lot and expiration unknown)(product unsubstantiated). Nov. 2018*: The dog started to have seizures, and was started on an unknown seizure medication. The dog was historically on FRONTLINE PLUS for and unknown number of years. The clinic stopped carrying FRONTLINE and the dog was started on NEXGARD at an unknown date. It is unknown how long the dog was on NEXGARD before the seizures started, and NEXGARD was discontinued when seizures started. The attending veterinarian would like to use FRONTLINE in this patient. No further medical information is available at this time.
15-May-2019	UAE; 19US026925; TX; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2019	15-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, the pet owner reported the following event for 3 unknown felines. Unknown dates: Cats receives treatment of FRONTLINE every 30 days year round. 15 May 2019: Cat received one dose of unknown FRONTLINE PLUS CATS (lot unknown) (FL), topically between the shoulder blades. The pet owner stated that she has found 2 ticks and 1 flea on the cats. She did not provide any additional information on the parasites found. The cats are indoor/outdoor. Owner stated that there has been a lot of rain in her area and was unsure if that impacted the presence of parasites on her pets. There are 2 dogs in the household, one of which has continued to have fleas after receiving treatment with FRONTLINE, see case 19US027717. No further medical information expected.
15-May-2019	UAE; 19US026928; CA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 15 lbs	2	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	08-May-2019	09-May-2019	1 Day(s)	D-A	Suspected Adverse Event: On 15 May 2019, the pet owner reported the following event for Puck a 10 year old 15 pound male neutered Domestic Longhair (Crossbreed). 8 May 2019: The owner applied 1 vial of FRONTLINE PLUS CATS (L41208, OCT 2017) foreign labeled product to the skin between the shoulder blades. It is unknown if this is the first time the product was applied to the cat. It is unknown what country the FRONTLINE was intended for use. 9 May 2019: The cat was lethargic and not animated. The owner went out of town and left the cat at home alone. 15 May 2019: The owner returned home and the cat was

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						Was the product used ok?: No (Others)					deceased. The mouth and paws of the cat were wet like the cat was drooling. Owner is not sure when the cat died. There is 1 other cat in the home who received the same product and is not exhibiting any signs. The cat did not present to the vet clinic. The cat was not on any other medications and was in good health prior to application. No further medical information available.
15-May-2019	UAE; 19US026937; FL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz Ultraguard Flea and Tick Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-Apr-2019*	20-Apr-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, the pet owner reported the following event for ChiChi a female neutered, 2 pound, 3 year old, Chihuahua/ Terrier crossbreed. 17 Apr 2019* : The pet owner applied one third of a dose of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) topically to skin between the shoulder blades of ChiChi. 20 Apr 2019*: The pet owner noticed 15+ fleas on the body of ChiChi. 1 May 2019*: The pet owner bathed the dog with Hartz Ultraguard flea and tick shampoo. 15 May 2019: ChiChi was in good health at time of applications. ChiChi has dry skin problem. ChiChi has had problem before in the past and it never resolved. ChiChi has not had problems with any other medications. ChiChi is mainly indoors and go outside with pet owner. ChiChi is not receiving any other medications or topical treatments. ChiChi does share home with one cat that is not treated. Fleas have been seen jumping on owner in the home. The current status of ChiChi is unknown. No further medical information.
15-May-2019	UAE; 19US027011; -; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019*	07-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy: On 15 May 2019, the pet owner reported the following event for Pup, a 3 year old, 80 pound, neutered male, Pit Bull Blue Heeler Mix. 1 May 2019*: The owner noticed ticks. 6 May 2019*: He received a dose of FRONTLINE PLUS DOGS 45-88 LBS(S62111AL). 7 May 2019*: The owner stated the ticks were still showing up on her animal. The animal has been itchy. Currently the animal is still having roughly 6 ticks a day for the last week. The animal goes outside a few times a day in a very rural area. The other animal in the household is having a similar event, see case 19US027013. No further medical information expected.
15-May-2019	UAE; 19US027013; -; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** F **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 50 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019*	07-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy: On 15 May 2019, the pet owner reported the following event for Chum, a 2.5 year old, 50 pound, spayed female, Australian Shepherd. 1 May 2019*: The owner noticed ticks. 6 May 2019*: She received a dose of FRONTLINE PLUS DOGS 45-88 LBS(S62111AL). 7 May 2019*: The owner stated the ticks were still showing up on her animal. The animal has been itchy. Currently the animal is still having roughly 6 ticks a day for the last week. The animal goes outside a few times a day in a very rural area. The other animal in the household had a similar event, see case 19US027011. No further medical information expected.
15-May-2019	UAE; 19US027055; CA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair	1	1	0	**Product used:** FIPRONIL 10%/S	22-Apr-2018*	27-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, a pet owner reported the following event for Tang, an approximately 1 year old, 7* pound, neutered male Domestic Longhair.

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		(Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 7 lbs				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					2018*: The cat receives the contents of 1 vial of FRONTLINE PLUS CATS (Lot Unknown), topically between the shoulder blades every 28 days year round, with an unknown amount of doses purchased from an unknown source. 25 Mar 2019: The pet owner applied 1 dose of FRONTLINE PLUS CATS (R41206AW) topically between the shoulder blades. This vial was from one 6 pack that was purchased on Amazon. 27 Mar 2019*: The pet owner noticed more than 20 live fleas on the cat and continued to see them sporadically on the cat. The cat is scratching constantly. 22 Apr 2019: The most recent dose was applied. 24 Apr 2019*: The pet owner noticed more than 20 live fleas on the cat and continued to see them sporadically on the cat. The cat is scratching constantly. 13 May 2019: The pet owner bathed the cat in an unknown flea and tick shampoo. There is 1 other cat in the household who also has fleas, see case 19US027996. The cat is indoor/outdoor and the yard is fenced in but the cat jumps the fence and hunts in a large field next to the yard. The pet owner sporadically sees 1 flea once to twice a week in the house but is not getting bit. The pet owner has used FRONTLINE in the past without any issues. She is concerned that the product purchased on Amazon is not working since the cat has fleas after two months of application. No further medical information expected.
15-May-2019	UAE; 19US027063; SC; U.S.A	**Species:** Canine **Breed:** West Highland White **Sex:** F **Sex qualifier:** Neutered **Age:** 16.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Seresto Collar; Hartz Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019*	15-May-2019*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, the pet owner reported the following event for Bonnie, a 16 year old (27 Feb 2003), 11 pound, spayed female West Highland White Terrier. 2003*: The dog began receiving FRONTLINE PLUS DOG 0-22 LBS (lot unknown) monthly with unknown purchase history. The Mar 2019 and Apr 2019 application dates are unknown, but the most recent date of product application was 8 May 2019*. Oct 2018* through present: The owner noticed moderate fleas on the dog. The owner is also noticing fleas in the home as they are jumping onto him and biting him. The home has not been treated. The dog is freely allowed out into the fenced yard via dog door. The yard does contain trees and bushes. 2 May 2019*: The dog started to use a Seresto collar. 7 May 2019*: The pet received a bath with Hartz flea shampoo. The dog has not presented to the veterinary clinic, but a veterinarian recommended bathing the dog in Dawn. 15 May 2019: The dog's current condition is ongoing. There a total of 1 canine and no other animals in the household. The dog has medical conditions consistent with age including vision loss, hearing loss, and weight loss. No further medical information expected.
15-May-2019	UAE; 19US027069; PA; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	09-May-2019	15-May-2019	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, Animal owner reported the following event for Buddy, a 4 year old, 65 pound, neuterd male Siberian Husky. 09 May 2018: The dog began receiving FRONTLINE PLUS DOG 45-88 LBS (Lot: S61306AR) with the most recent purchase history 15 Feb 2019 (6 pack). 09 May 2019: The pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades. 15 May 2019: The dog presented for an exam and the veterianarian found one live tick attached on the dogs face during

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					the exam. The tick was removed and the veterinarian did not identify the species. No other ticks were found on the dog. The animal owner noted the veterinarians level of suspicion is high. The pet owner has not observed ticks on the dog in the past and the dog is mostly indoors. There are no other dogs in the home. No further information expected UPDATE: 17 May 2019: Upon review of invoice, the purchase of FRONTLINE PLUS was Oct 2018.
15-May-2019	UAE; 19US027075; IN; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** - **Age:** 5.00 Month(s) **Weight:** 4.8 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	13-May-2019	14-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 15 May 2019, the owner reported the following event for Miyah, a 5 month old (born 28 Nov 2018), 4.8 pound, non-pregnant non-lactating intact female, Pomeranian/Poodle mixed breed. Apr 2019*: The dog started on HEARTGARD PLUS (68 MCG/57 MG) (lot and expiration unknown) PO and FRONTLINE PLUS DOG 5-22 LBS (lot unknown) topically by the owner. 13 May 2019: Most recent dose of FRONTLINE was given. 14 May 2019: Most recent dose of HEARTGARD was given. Approx. 1 hour later, the dog was itching, could not sleep, and was nervous. The dog was given Benadryl. The symptoms are ongoing. There was another dog treated with both products and did not have any symptoms. No further medical information expected
15-May-2019	UAE; 19US027092; AZ; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	15-May-2019	15-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 15 May 2019, the pet owner reported the following event for Zena, 8 year old, 8 pound, female intact, Domestic Mediumhair (Crossbred). 15 May 2019: 1 vial of FRONTLINE PLUS CATS (N41101AW) was applied to the cats lateral shoulders. A few minutes after the application the cat licked the FRONTLINE off the shoulders and vomited once and recovered. The owner bathed the pet really well. The cat has not been seen by the Veterinarian. No further medical information is expected.
16-May-2019	UAE; 19US027095; WI; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Mar-2019	27-Mar-2019	26 Day(s)	D-C	Suspected Lack of Efficacy Claim: On 15 May 2019 the pet owner reported the following event for Harmony Lyric, 14 pound, 11 year old, female spayed,Terrier (Jack Russell). Unknown date: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog. The owner treats monthly. 27 Mar 2019: The dog tested positive for lyme disease. Unknown: The dog was started on an unknown treatment. The dog goes out for potty break and recreation in the yard alone. Owner unsure where dog goes. Owner has seen ticks on the dog in the past and removed them. No further medical information is available at this time.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					
16-May-2019	UAE; 19US027120; MA; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Neutered **Age:** 15.50 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2019	16-May-2019	1 Day(s)	D-C	Suspected Adverse Event: On 16 May 2019 an attending veterinarian reported the following event with Hans, a 15.5 year old, 11 pound, male neutered, Daschund. 15 May 2019: The canine was administered FRONTLINE PLUS 0-22 lb (lot F61511 F6511AL). 16 May 2019: The canine presented for inability to walk and lethargy. Upon presentation the following was reported: Temperature of 103.3, arrhythmia (sinus pause w ventricular escape), hypertensive 197/137, pulse ox 99%, increased WBC, ALP ALT AMY BUN CA, decreased platelets. The animal owner declined treatment. No further information provided nor expected. UPDATE 16 May 2019: Attending's level of suspicion was low for FRONTLINE PLUS causing clinical signs. No further information available. UPDATE 31 May 2019: Attending DVM rechecked pet on 17 May 2019. The blood pressure improved; hyphema persisted. Hyphema was noted on initial presentation though this was not reported. The owner declined diagnostics. SQ fluids were administered. 29 May 2019 the pet owner provided an update to the clinic stating the dog fully recovered. The attending does not expect additional information on this pet and expressed surprise and doubt about pet's owner reported recovery. No further information expected.
16-May-2019	UAE; 19US027127; PA; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 17.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-May-2013*	09-May-2019	N/A	D-C	Suspected Lack of Efficacy Claim: On 16 May 2019, the animal owner reported the following event for Olive, a 6 year old*, 17.0 pound, spayed female Wirehaired Dachshund. 2013*: She began receiving FRONTLINE PLUS DOG 5-22 LBS (M62506) one dose applied topically between the shoulders once monthly year round. 2018: She was diagnosed Lyme antigen negative. 12 May 2019: The most recent date of application. 09 May 2019: She presented to the veterinary clinic for annual examination. She was diagnosed Lyme antigen positive via an unknown test. 10 May 2019: A Quant C6 was performed with a result of 222. Treatments were initiated with doxycycline, NEXGARD (lot and expiration unknown), Carafate, Cerenia, and Fortiflora. Her current condition is ongoing. There are no other pets in the household. She does not frequent dog parks or wooded areas. She frequents a well maintained non-wooded yard. She has a pertinent medical history of hemorrhagic gastrotenteritis. No further medical information expected.
16-May-2019	UAE; 19US027148; GA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown	11-May-2019*	12-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 16 May 2019, the animal owner reported the following event for an unknown canine of unknown signalment. 11 May 2019: The owner purchased an unknown quantity of FRONTLINE PLUS (unsubstantiated) (lot and expiration unknown) from Tractor Supply Company. The owner applied FRONTLINE PLUS unknown volume via an unknown route at an unknown location of the body. 12 May 2019: The owner is seeing fleas on the canine.

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						Was the product used ok?: Unknown to Company					It is unknown if fleas were present prior to application. It is unknown if there are other animals in household. It is unknown if the canine has received any additional treatments. This is extent of information known due connectivity issues. Two attempts were made to contact the pet owner to complete reporting. No further medical information expected.
16-May-2019	UAE; 19US027163; -; U.S.A	**Species:** Canine **Breed:** Airedale Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	01-May-2019*	16 Month(s)	D-A	Suspected Adverse Event: On 16 May 2019, Animal owner reported the following event for her Airedale canine. *01 Jan 2018: The dog started monthly FRONTLINE PLUS DOG 45-88 LBS (Lot unknown). *01 May 2019: The dog passed away for unknown reasons. The animal owner called to enquire about the expiration date and inadvertently reported the passing of her dog. The animal owner stated it was to hard for her to deal with and declined providing information. All information is approximated for reporting purposes. No further information expected.
16-May-2019	UAE; 19US027179; -; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 110 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019*	16-May-2019	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 16 May 2019, a pet owner reported the following event for Biscuit, a 5 year old, 110 pound, male neutered Golden Retriever. 1 May 2019*: Owner applied FRONTLINE PLUS DOG 89-132 LBS (Lot unknown) 1 dose, topically, to Biscuit's skin in between his shoulders. 16 May 2019: The owner is seeing fleas and flea dirt on Biscuit. Biscuit was in good health at the time of application. He has no known medical issues. No treatment was given and patient did not present to the clinic. No further medical information expected.
16-May-2019	UAE; 19US027225; OR; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 23.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-May-2019	07-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On the 16 May 2019, a pet owner reported the following event for Rusty, a 23 pound, 9 year old, neutered male, Pug Mix. 5 May 2019: The owner started seeing fleas on his dog. 7 May 2019: The owner applied 1 dose of FRONTLINE PLUS DOG 23-44 LBS (P61007AL), topically between the shoulder blades because he was seeing a small amount of fleas on his dog and he was scratching constantly. 9 May 2019*: The owner applied another dose topically between the shoulder blades because he was still seeing fleas on the dog. 16 May 2019: The owner is still seeing fleas on his dog. The dog is mostly indoors but he does go outside for his potty breaks. He has access to a garage that he frequents a lot when he goes out. The owner is not seeing fleas inside his home. He is still seeing the same small amount of fleas on his dog. The product has been applied seasonally for about 4 years now. The owner has never seen fleas in the past when the dog has been on FRONTLINE PLUS. There are no other pets in the home. The owner relocated from California to this new house about a month ago. No further medical information expected.
16-May-2019	UAE; 19US027270;	**Species:** Feline **Breed:** Feline	2	2	0	**Product used:** FIPRONIL	02-Feb-2019	03-Feb-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 16 May 2019, the owner reported the following event for 2 average size Felines (all other

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	VA; U.S.A	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				10%/S METHOPRENE 12% SPOT ON **Other products used:** Flea Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					signalments unknown). 30 Jan 2019*: The owner noticed both cats had a large number of fleas and were scratching. The owner purchased a 6 pack of FRONTLINE. 2 Feb 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 3 Feb 2019: The owner continued to see the cats scratching and a large number of fleas. 2 Mar 2019, 2 Apr 2019, 2 May 2019: Another vial was applied. The flea issue persisted. The owner also found flea dirt present. 16 May 2019: The flea issue is still ongoing. The cats are strictly indoor. The cats have been bathed with flea shampoo 2 weeks after every application. There is 1 dog in the household being treated with Seresto collar and not experiencing an issue with fleas. The dog has access to go outside in an unknown environment. No further medical information is expected.
16-May-2019	UAE; 19US027319; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 8 - 10 lbs	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-May-2019	10-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim:On 16 May 2019, the owner reported the following event for 3 cats, between 8-10 pounds (all other signalments unknown). March 2019: The cats started to used FRONTLINE PLUS CATS (lot unknown) on monthly basis. It is unknown if fleas were seen prior to use of the product. 9 May 2019: The most recent vial of product was applied between the shoulder blades, by the pet owner. 10 May 2019*: The pet owner is noticing large amounts of fleas. The cats are strictly indoors. The cats did not get bathed. The owner is not seeing flea activity in the home. There are 2 dogs in the home using FRONTLINE PLUS as well with cases 19US27824 and 19US27831. No further medical information is expected.
16-May-2019	UAE; 19US027350; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 9.50 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Jan-2019*	08-Feb-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 16 May 2019, the pet owner reported the following event for Shadow a female spayed, 11 pound, 9.5 year old, Domestic Shorthair (Crossbreed). Unknown dates: The pet owner has always seen fleas on Shadow since becoming owner of her and is unsure of when she first noticed fleas on pet. 8 Jan 2018*-8 May 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (S40603AW) topically to the skin between the shoulder blades to the body of Shadow on the 8th day of every month and has seen 15+ fleas present on her body since starting . 16 May 2019: Shadow was in good health at time of application. Shadow was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has seen fleas jumping and biting people in the home. Shadow has no history of skin problems or any other issues with topical treatments. Shadow has had flea problem before in the past but it was not resolved. Shadow has not received any other medications or topical treatments. Shadow has not been bathed. Shadow is indoors and outside. The current status of Shadow is unknown. No further medical information.
16-May-2019	UAE; 19US027362; -; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	14-May-2019	14-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: 16 May 2019: An owner reported the following event in an unknown dog; unknown age, unknown weight, male, unknown repro status, Siberian Husky. 14 Mar 2019, 14 Apr 2019, 14 May 2019: The owner administered FRONTLINE PLUS DOGS 45-88 LBS (lot/expiration date

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		Unknown **Age:** - **Weight:** Unknown				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					unknown, package unavailable) in an unknown manner. 14 May 2019: The owner found a live deer tick imbedded in the dog. Ticks were found on the dog at the time of the initial application . No further information is available due to the nature of the caller.
16-May-2019	UAE; 19US027363; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** - **Age:** - **Weight:** 8.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dawn dish soap; BUrts Bees shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Apr-2019	16-May-2019	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 16 May 2019 while inquiring about the safety of giving FRONTLINE PLUS more frequently than labeled recommendation, an animal owner reported the following event in an intact male, 8.5 pound, puppy. 25 Apr 2019: FRONTLINE PLUS DOG 0-22lb (lot, expiration unknown) was applied to the puppy by the breeder. 05 May 2019: The canine was bathed with diluted Dawn dish soap. 07 May 2019: The canine was bathed with Burts Bees shampoo. 16 May 2019: An unidentified engorged tick was found on canine. No further information provided nor expected.
16-May-2019	UAE; 19US027371; CA; U.S.A	**Species:** Canine **Breed:** Shepherd Dog (Others) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 90 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown puppy shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Apr-2018*	09-May-2019	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 16 May 2019, the pet owner reported the following event for Dozier a male neutered, 90 pound, 10 year old, Shepherd Dog/Bernese Mountain Dog crossbreed. 13 Apr 2018*: The pet owner applies FRONTLINE PLUS DOG 89-132 LBS (S62504AX) topically to the skin between the shoulder blades of Dozier on year round basis every month. 13 Apr 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 89-132 LBS (S62504AX) topically to the skin between the shoulder blades of Dozier. 9 May 2019*: The pet owner first noticed 12* fleas on the body of Dozier. 15 May 2019: Dozier was bathed with unknown puppy shampoo. 16 May 2019: Dozier was in good health at time of application. Dozier was not presented to veterinarian. The home environment has not been treated by pet owner. The pet owner has not seen any fleas in the home. Dozier has no history of skin problems or any other issues with topical treatments. Dozier has had flea problem before in the past and it resolved. Dozier has not received any other medications or topical treatments. Dozier mainly outside for walks and is indoors rarely. The current status of Dozier is unknown. No further medical information.
17-May-2019	UAE; 19US027406; MN; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 15.2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE	08-May-2019	09-May-2019	1 Day(s)	D-C	Suspected Adverse Event: On 17 May 2019 the pet owner reported the following event for Shey, a 9 year old (born *1 Feb 2010), 15.2 pound, spayed female Yorkshire Terrier mix. 7 May 2019: The pet owner administered HEARTGARD PLUS (68 MCG/57 MG) (lot and expiration unknown), 1 chew PO. 8 May 2019: The pet owner applied FRONTLINE PLUS DOG 5-22 LBS (lot and expiration unknown), 1 dose topically, intrascapular. 9 May 2019: The pet owner stated the canine developed lethargy, began huffing, and the lower lip began to hang down. 10 May 2019: The patient presented to the clinic where a

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					performed blood panel yielded unremarkable results. Treatment was not administered at this time. 15 May 2019: The canine was prescribed doxycycline for a possible respiratory infection. Currently, the reaction continues. The canine started on FRONTLINE PLUS once monthly on *8 Oct 2018 and on HEARTGARD PLUS once monthly on *1 Feb 2011 with no issues. No further medical information is expected.
17-May-2019	UAE; 19US027429; MA; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** - **Age:** 19.00 Month(s) **Weight:** 63.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK LYME - 2126.R0; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jun-2018*	16-May-2019	11 Month(s) 2 Week(s)	D-C	Suspected Lack of Efficacy Claim: On 17 May 2019, the veterinarian reported the following event for Ragnar, a 19 month old (born 30 Sep 2017), 63.0 pound, intact non-pregnant non-lactating female German Shepherd Dog. She received a RECOMBITEK LYME 1 mL SC in the left hind leg on 05 Jan 2018 (lot and expiration unknown), 27 Jan 2018 (lot and expiration unknown), and 16 May 2019 (42235, 20 Dec 2019). She received FRONTLINE PLUS (unsubstantiated) (lot unknown) one dose applied topically monthly, seasonally for an unknown length of time with unknown purchase history. 29 Dec 2017 and 02 Jul 2018: She was diagnosed Lyme antigen negative via a routine 4Dx test. 16 May 2019: She was diagnosed Lyme antigen positive via a routine 4Dx test. A Quant C6 has not been performed. No treatments have been initiated. Her current condition is ongoing. She has a pertinent medical history of asymptomatic panosteitis. Another similar case was reported (see case 19US027433). No further medical information expected.
17-May-2019	UAE; 19US027444; NJ; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 36 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2014*	02-Jan-2014*	N/A	D-D	Suspected Adverse Event and Suspected Lack of Efficacy Claim: On 17 May 2019, the pet owner reported the following event for Mugsy, an 8 year old 36 pound male neutered Pug/Beagle mix. 2014*: The dog was started FRONTLINE (unsubstantiated) (lot and expiration unknown) on unknown dates. While on FRONTLINE the dog was still experiencing an unknown amount of fleas as well as pruritus and irritated skin on unknown dates. The yard was treated and there were no fleas in the house. The dog recovered on an unknown date. The owner feels the FRONTLINE caused the pruritus and skin irritation, not the fleas. Case was reported with case 19US027432. No further medical information expected.
17-May-2019	UAE; 19US027452; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 63 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-May-2019	13-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the owner reported the following event for Bella, 13 year old, 63 pound, spayed female, Canine (breed unknown). 9 May 2019: The owner found a large amount of fleas on the pet. The owner bathed the pet with flea shampoo. 10 May 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades for the first time this year. 11 May 2019: The fleas were completely gone. 13 May 2019: The owner started to find a large amount of fleas again. 17 May 2019: The owner has started to find flea dirt. The issue is still ongoing. The dog has access to a heavily vegatated back yard. The dog has received the product before on unknown dates and experienced an issue with fleas. There is one other dog in the household being

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											treated with FRONTLINE and experiencing an issue (see case 19US027454). There is also a cat in the household being treated with the product experiencing no issue with fleas. No further medical information is expected.
17-May-2019	UAE; 19US027454; KY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-May-2019	13-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the owner reported the following event for Little Bit, 2 year old, 13 pound, neutered male, Canine (Breed unknown). 9 May 2019: The owner found a large amount of fleas on the pet. The owner bathed the pet with flea shampoo. 10 May 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades for the first time this year. 11 May 2019: The fleas were completely gone. 13 May 2019: The owner started to find a large amount of fleas again. 17 May 2019: The owner has started to find flea dirt. The issue is still ongoing. The dog has access to a heavily vegatated back yard. The dog has received the product before on unknown dates and experienced an issue with fleas. There is one other dog in the household being treated with FRONTLINE and experiencing an issue (see case 19US027452). There is also a cat in the household being treated with the product experiencing no issue with fleas. No further medical information is expected.
17-May-2019	UAE; 19US027505; FL; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 85 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Apr-2017	10-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the owner reported the following event for Kaya, 6 year old, 85 pound, spayed female, German Shepherd canine. 10 Apr 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. The purchase history is unknown. 10 May 2019: The owner noticed the dog itching. Another vial was applied. 17 May 2019: The owner continued to notice the pet scratching. The dog presented to the clinic. The attending veterinarian found fleas and flea dirt. The issue is still ongoing. The dog goes out in a fenced in yard and around a lake. The dog has received the product year round since 10 May 2016* with no issue. There is one other dog in the household being treated with another product and experiencing no issue. No further medical information is expected.
14-May-2019	UAE; 19US027518; MO; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Deflea shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	07-Apr-2019	08-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 14 May 2019, the pet owner reported the following event for a 60 lb female Boxer, additional signalment unknown. History: The dog receives FRONTLINE treatment on a year round basis for an unknown amount of time. 6 May 2019: Dog was bathed with an unknown shampoo. 7 May 2019: Dog received an unknown amount of FRONTLINE PLUS DOG 45-88 LBS (S62111AL) (FL) topically in an known manner. At an unknown time after the application the pet owner found 5-6 fleas on the dog. The dog has access to a pen area that is treated with sevin dust. The pet owner is continuing to find fleas on the dog. There is one other dog in the home that has continued to have fleas after the application of FL, see case 19US026645. No further medical information expected. UPDATE 19 JUN 2019: The pet owner reported the following

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											information. 7 Apr 2019: The owner applied the first dose to the skin between the shoulder blades for the first time ever. No fleas were seen. 6 May 2019: The dog was bathed with a deflea concentrate. 1 Jun 2019: The most recent dose was applied. 2 Jun 2019 The owner continued to see about 20 fleas on the dog each day. There are 2 indoor only cats in the home being treated with FRONTLINE PLUS with case number 19US035659. The owner is bathing every other day. The owner is bombing the house every week for an unknown amount of time. No further medical information expected.
17-May-2019	UAE; 19US027530; FL; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 100 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2019*	22-Mar-2019*	3 Weeks	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019 an animal owner reported the following event in Jennessey, a 2 year old, 100lb, non pregnant, non lactating, female intact, Pitbull Bulldog mix. 15 Mar2019* The canine was administered a FRONTLINE PLUS 89-132lb (lot, expiration unknown) for the first time. No fleas present at time of application. 22 Mar 2019*: Animal owner noticed fleas on canine. Canine scratching 15 Apr 2019*: FRONTLINE PLUS applied to canine between shoulder blades. 17 May 2019: The animal owner is seeing more live fleas. Canine continues to scratch and chew on skin. The canine has a history of receiving monthly doses of Trifexis up to one month prior to initial dose of FRONTLINE PLUS. The canine has no histoy of fleas prior to FRONTLINE PLUS administration. There are 4 other canines in the home. 1 canine sharing dose of FRONTLINE PLUS (reported in case 19US027401), and the other 3 are on Trifexis. The canine has access to outside. The animal owner does not feel comfortable using FRONTLINE PLUS due to increasing fleas and skin issues. No further informatiion provided nor expected.
17-May-2019	UAE; 19US027531; FL; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 8.7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-May-2019	13-May-2019	0 Day(s)	D-C	Suspected Adverse Event: On 17 May 2019, the pet owner reported the following event for Smokey, an 8 year old, 8.7 lb neutered male Domestic Longhair. 13 May 2019: Cat received one dose of FRONTLINE PLUS CATS (lot unknown) (FL), topically between the shoulder blades. Following the application, the cat began vomiting. The pet owner stated that the vomiting continued for 2 days, had episodes of projectile vomiting, and also stopped eating and was barely drinking water. 16 May 2019: The cat was presented to the veterinary clinic, and they performed a routine exam, CBC and provided SC fluids as treatment. 17 May 2019: Cat was presented to clinic for radiology exam and given B12 injection. At the time of the report, the cat is still not eating. No further medical information available. UPDATE 3 June 2019: The pet owner stated that cat is not doing any better, will present cat to clinic today. No further medical information available.
17-May-2019	UAE; 19US027554; -; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	14-May-2019	15-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the owner reported the following event for Rowen, 4 year old, neutered male, 70 pound, Labrador Retiever canine. 27 Apr 2019: the owner purchased 3 pack of FRONTLINE PLUS

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		Sex qualifier: Neutered **Age:** 4.00 Year(s) **Weight:** 70 lbs				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					DOG 45-88 LBS (M60801AR). 14 May 2019: One vial was applied between the shoulder blades for the first time this season. 15 May 2019*: The owner found 2 ticks on the pet. Both ticks were attached, only one of the ticks was dead. The owner removed both. The dog has access to an open area with tall grass. The dog has received the product before in 2018. The owner found a total of 12 dead ticks on the pet and an unknown number of live ticks. No further medical information is expected.
17-May-2019	UAE; 19US027560; FL; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 8.000 - 70 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019*	01-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the owner reported the following event for an 8 pound female Chihuahua (all other signalments unknown) and a 70 pound German Shepherd (all other signalments unknown). History: Both dogs were untreated and had fleas for 3 months an infestation established itself in the home. *30 April 2019: One vial of FRONTLINE PLUS DOG 45-88 (S6211AL) was applied per label to the German Shepherd for the first time and one vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied per label to the Chihuahua for the first time. Following the treatment the fleas dramtically decrease by 70%, the dogs went from having a large number of fleas to a medium quanity. The dogs do go outside daily for potty breaks and walks. No further information available.
17-May-2019	UAE; 19US027572; TX; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 12 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-May-2019	16-May-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, a pet owner reported the following event for Bella, a 2 year old, 12* pound, spayed female Domestic Shorthair. 14 May 2019: The pet owner applied the full contents of 1 vial of FRONTLINE PLUS CATS (S40815AW) topically between the shoulder blades for the first time that year. 16 May 2019*: The pet owner found 2 live fleas on the cat's head. There is 1 other cat and 2 dogs in the house that are on FRONTLINE. The cat is indoor only. The pet owner is not seeing fleas in the house and is not getting bit. The cat occasionally gets a bath with a regular pet shampoo and was last bathed 6-8 weeks ago. As a proactive measure, the pet owner treated the house with a flea bomb a few weeks ago. The pet owner usually treats all the pets with flea and tick preventative year round and has previously used Pet Armor. No further medical information expected.
17-May-2019	UAE; 19US027593; -; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Mar-2019	16-May-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the owner reported the following event for Max, 3 year old, 70 pound, neutered male, Golden Retriever Poodle mix canine. 14 May 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60719AX) was applied between the shoulder blades. The purchase history is unknown because it was purchased by a friend. 16 May 2019: The owner found 8 fleas. The dog was itching and had a redness on his stomach. 17 May 2019: The issue is still ongoing. The dog has access to a fenced in yard with other dog surrounding the perimeter. The dog has received the product monthly since 14 Mar 2019 with no issue. There are no other pets in the household. No further medical information is expected.
17-May-2019	UAE; 19US027619;	**Species:** Feline **Breed:** Feline	2	2	0	**Product used:** FIPRONIL	01-Jan-2015*	10-May-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the pet owner reported the following event for 2 felines of unknown signalment.

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	SC; U.S.A	(unknown) **Sex:** U **Sex qualifier:** Neutered **Age:** - **Weight:** Unknown				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					3 Mar 2019*, 3 Apr 2019*, and 3 May 2019: The pet owner had the clinic apply a dose of FRONLTINE PLUS CATS (S40503AX) at an unknown location. The cat's are treated year round. 10 May 2019: The pet owner started to notice fleas in the home a severe number of fleas on the cats. The cats have been biting and scratching at the fleas. There have not been any visiting pets. The yard and the home have not been treated. The cats do spend sometime outside. The cats' status was the same at the time of the phone call. No further medical information expected.
17-May-2019	UAE; 19US027636; MD; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 8 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2019	17-May-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the owner reported the following event for Marley, 12 year old, 8 pound, neutered male, Yorkshire Terrier canine. 15 May 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (S60808AL) was applied between the shoulder blades for the first time this year. The purchase history is unknown to the pet owner. 17 May 2019: The owner found a dead tick on the pet. The tick was not attached. The owner has used the product before on unknown dates since 1 Jan 2016*. The owner has found dead ticks on the pet with prior usage. There are 2 other dogs in the household that also received FRONTLINE and are experiencing no issue. No further medical information is expected.
15-May-2019	UAE; 19US027669; CA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 5.000 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	22-Apr-2018*	27-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, a pet owner reported the following event for Katniss, an approximately 1 year old, 5* pound, spayed female Domestic Longhair. 2018*: The cat receives the contents of 1 vial of FRONTLINE PLUS CATS (Lot Unknown), topically between the shoulder blades every 28 days year round, with an unknown amount of doses purchased from an unknown source. 25 Mar 2019: The pet owner applied 1 dose of FRONTLINE PLUS CATS (R41206AW) topically between the shoulder blades. This vial was from one 6 pack that was purchased on Amazon. 27 Mar 2019*: The pet owner noticed more than 20 live fleas on the cat and continued to see them sporadically on the cat. The cat is scratching constantly. 22 Apr 2019: The most recent dose was applied. 24 Apr 2019*: The pet owner noticed more than 20 live fleas on the cat and continued to see them sporadically on the cat. The cat is scratching constantly. 13 May 2019: The pet owner noticed 1 live tick attached to the cat and removed it. She also bathed the cat in an unknown flea and tick shampoo. It is unknown if the the cat recovered after initially noticing the fleas on 27 Mar 2019* and before the next episode on 24 Apr 2019*. There is 1 other cat in the household who also has fleas, see case 19US027055. The cat is indoor/outdoor and the yard is fenced in but the cat jumps the fence and hunts in a large field next to the yard. The pet owner sporadically sees 1 flea once to twice a week in the house but is not getting bit. The pet owner has used FRONTLINE in the past without any issues. She is concerned that the product purchased on Amazon is not working since the cat has fleas after two months of application. No further medical information expected.

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17-May-2019	UAE; 19US027675; MS; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 8.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown flea shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2018*	17-Mar-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the pet owner reported the following event for Pixie a female spayed, 8.5 pound, 8 year old, Maltese/Poodle crossbreed. 2 May 2018*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61203AX) topically to skin between the shoulder blades of Pixie on year round basis every month. 17 Mar 2019*: The pet owner first noticed 5-15* fleas on the body of Pixie. 2 May 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically to skin between the shoulder blades of Pixie with 5-15* fleas on her. 3 May 2019: The pet owner continued to see 5-15* fleas on the body of Pixie. 17 May 2019: Pixie was in good health at time of application. Pixie was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. Pixie has dry flaky skin and flea allergy dermatitis. Pixie has no other issues with topical treatments. Pixie has not had flea problem before in the past. Pixie has not received any other medications or topical treatments. Pixie is indoors and outside for bathroom breaks. The current status of Pixie is unknown. No further medical information.
17-May-2019	UAE; 19US027677; TN; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 35 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz Groomer's Best Dog shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-May-2018*	11-May-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 17 May 2019, the pet owner reported the following event for Scout a male neutered, 35 pound, 7 year old, Medium crossbred. 4 May 2018*: The pet owner applies FRONTLINE PLUS DOG 23-44 LBS (P60505AL) topically to skin between the shoulder blades of Scout on year round basis every month. 4 May 2019: The pet owner applies FRONTLINE PLUS DOG 23-44 LBS (P60505AL) topically to skin between the shoulder blades of Scout. 11 May 2019: The pet owner first noticed 1-5 fleas on the body of Scout. 17 May 2019: Scout was in good health at time of application. Scout was not presented to veterinarian. The home environment has not been treated by pet owner. The pet owner has seen a flea in the home. Scout has no history of skin problems or any other issues with topical treatments. Scout has not had flea problem before in the past. Scout has not received any other medications or topical treatments. Scout is indoors and outside for walks. The current status of Scout is unknown. No further information.
20-May-2019	UAE; 19US027686; FL; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** X **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Apr-2019	09-Apr-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, a pet owner reported the following event for 3 Maltese canines of mixed ages and sex. Unknown Date: The dogs started using FRONTLINE PLUS DOG 5-22 LBS (lot unknown) topically between the shoulders for years non stop. 8 Apr 2019: The owner applied 1 dose to all 3 dogs. 9 Apr 2019: The owner saw fleas on the dogs. No further details are available as the pet owner has no further details to provide.
20-May-2019	UAE; 19US027704;	**Species:** Canine **Breed:** Poodle	2	1	0	**Product used:** FIPRONIL	17-May-2019	17-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the pet owner reported the following event for KiddyBear a female spayed, 23

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	WV; U.S.A	(Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 17.00 Year(s) **Weight:** 23 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** Dawn dish soap; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					pound, 17 year old, Poodle (miniature). 17 May 2018: The pet owner applies FRONTLINE PLUS DOG 23-44 LBS (R68316) topically to skin between the shoulder blades of KiddyBear on year round basis every month. 17 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS topically to skin between the shoulder blades of KiddyBear monthly. The pet owner noticed 15+ fleas on her body. 20 May 2019: KiddyBear was in good health at time of application. The pet owner bathed KiddyBear with Dawn dish soap. Kiddy was not presented to veterinarian. The home environment has not been treated by pet owner. The pet owner has not seen any fleas in the home. KiddyBear has no history of skin problems or any other issues with topical treatments. KiddyBear has not had flea problem before in the past. KiddyBear has not received any other medications or topical treatments. KiddyBear is indoors and outside for walks. The current status of KiddyBear is unknown. KiddyBear share home with 1 other cat that are treated with FRONTLINE PLUS CATS with no flea issues. No further medical information.
15-May-2019	UAE; 19US027717; TX; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Apr-2019*	15-May-2019*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 15 May 2019, the pet owner reported the following event for an unknown canine. Unknown dates: Dog receives treatment of FRONTLINE every 30 days year round. 15 May 2019: Dog received one dose of unknown FRONTLINE PLUS (lot unknown) (FL), product unsubstantiated, topically between the shoulder blades. The pet owner stated that she has found 2 fleas on the dog. The dog is indoor/outdoor. Owner stated that there has been a lot of rain in her area and was unsure if that impacted the presence of parasites on her pets. There is 1 larger dog in the household. There are also 3 cats that have continued to have fleas and ticks after receiving treatment with FRONTLINE, see case 19US026925. No further medical information expected.
20-May-2019	UAE; 19US027732; MS; U.S.A	**Species:** Canine **Breed:** Schipperke **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-May-2019	06-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the pet owner reported the following event for 17 pound, Schipperke. All other signalments unknown. 6 May 2019*: The owner was 1 week late applying FRONTLINE to the dog because she had to order it. When it arrived 1 vial of FRONTLINE PLUS DOG 23-44 LBS (S63009BL) was applied to the dog in one area between the shoulder blades. The owner has been seeing 1-2 fleas on the dog every day since the application. The dog goes our for potty breaks and walks in a RV park where other dogs present. No fleas seen in the home. The dog has not had a bath and has no history of skin issues. The owner treats year round. There is one other dog in the home treated with FRONTLINE having an issue with fleas, signalments unknown. No further medical information is available.
20-May-2019	UAE; 19US027761; MO; U.S.A	**Species:** Canine **Breed:** Great Dane **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 170 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/P	01-May-2019	02-May-2019	1 Day(s)	D-C	Suspected Adverse Event: On 20 May 2019, the pet owner reported the following event for Walter, 5 year old, 170 pound, male neutered, Great Dane. 1 May 2019: 1 vial of FRONTLINE PLUS DOG 89-132 LBS (M63905AR) was applied to the dog in one area between the shoulder blades. 2 May 2019: The owner noticed the dogs skin starting to swell at the application site. The reaction continued.

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						YRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					17 May 2019: The dog started bleeding at the application site and his hair was falling out. The dog was seen by the Veterinarian. Bloodwork was done and the results were low white blood cell count. An ear cytology was done and the results were positive for an unknown bacteria. The dog was started on intravenous fluids and given Famotidine 20 mg. An unknown topical ointment was applied to the dog in the hospital. The dog was kept overnight. 18 May 2019: The dog was released from the hospital and sent home with oral medications, Antirobe 300 mg, Apoquel(mg unsubstantiated), Prednisone 20 mg. The reactions continues. The dog has been on FRONTLINE PLUS since 2014*. The dog has had mild reaction of dry flaky skin at the application site in the past. The dog also takes HEARTGARD PLUS(272 MCG/227MG) (lot and expiration unknown) monthly. No further medical information is expected. Update 20 May 2019: Vet reports patient has a history of allergies and has been seen previously by a dermatologist. Dog was hospitalized 17 May 2019 for limb edema and pain. Patient is somewhat improved today. Veterinarian has a low index of suspicion. UPDATE 23 May 2019: Records show topical ointment used was Animax. No additional information expected. UPDATE 17 Jun 2019: No further information box checked. No further information is expected.
20-May-2019	UAE; 19US027772; MN; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 7 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	19-May-2019	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019 the pet owner reported the following event for Sebastian, a 13 year old (born 81 Nov 2005), 7 pound, neutered male Chihuahua. 30 Apr 2019: The pet owner applied FRONTLINE PLUS DOG 5-22 LBS (lot and expiration unknown), 1 vial, topically, intrascapular. 19 May 2019: The pet owner discovered and removed 1 tick from the canine and described the skin color at the tick attachment site as having a purple coloration. The canine has access to the lawn with no wooded areas and spends the majority of the time indoors. The pet owner stated the canine was at a cabin in the woods on 18 May 2019. The pet owner also stated that she applies FRONTLINE PLUS seasonally to the all 3 canines in the household. No further medical information is expected.
20-May-2019	UAE; 19US027805; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019*	20-May-2019*	19 Day(s)	D-C	Suspected Lack of Efficacy Claim: On 20 May 2019 the pet owner reported the following event for a female canine, additional signalment details unknown. May 2019*: On an unknown date from the time of the report the dog received an unknown amount of unknown FRONTLINE PLUS (lot unknown) (FL), product unsubstantiated, in an unknown manner. The dog was later diagnosed with Lyme. The pet owner was reaching out to check the expiration dates of the FL to question if that impacted the possibility of her dog contracting a tick borne disease. No further medical information expected.
20-May-2019	UAE; 19US027816; -; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	18-May-2019	18-May-2019	0 Day(s)	D-C	Suspected Adverse Event: On 20 May 2019, a pet owner reported the following event for a 1 year old, 7 pound, pregnant female feline. 18 May 2019: The owner applied 1 dose of FRONTLINE PLUS

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		Sex qualifier: Pregnant **Age:** 1.00 Year(s) **Weight:** 7 lbs				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					CATS (lot unknown) that was obtained from the vet clinic. Since application the cat is unable to stand, can not move and is dying per the owner. The owner was given an unknown dewormer but it was not administered. 20 May 2019: The cat is dying per the owner. The owner reports the cat has not been to the vet, no physical exam has been done on the cat. No further medical information expected.
16-May-2019	UAE; 19US027824; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Pantene; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-May-2019	10-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim:On 16 May 2019, the owner reported the following event for a dog, 15 pounds (all other signalments unknown). March 2019: The dog started to used FRONTLINE PLUS DOG 5-22 LBS (lot unknown) on monthly basis. It is unknown if fleas were seen prior to use of the product. 9 May 2019: The most recent vial of product was applied between the shoulder blades, by the pet owner. 10 May 2019*: The pet owner is noticing large amounts of fleas on the dog. The dog goes outside for bathroom breaks. The dog was bathed in Pantene shampoo. The owner is not seeing flea activity in the home. There are 3 cats and 1 other dog in the home using FRONTLINE PLUS as well with cases 19US27319 and 19US27831. No further medical information is expected.
20-May-2019	UAE; 19US027825; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Dec-2018*	01-Jan-2019*	31 Day(s)	D-A	Suspected Adverse Event: On 20 May 2019, Animal owner reported the following event for her unknown female canine. *01 Jan 2018: Started FRONTLINE PLUS DOG 89-132 LBS (Lot and expiration date unknown) *Dec 2018: Last dose given. *01 Jan 2019: The dog passed away for unknown reasons. All additional information was declined by the owner. No further information expected.
20-May-2019	UAE; 19US027829; NC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Month(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-May-2019	15-May-2019	13 Day(s)	D-D	Suspected Lack of Efficacy: On 20 May 2019, the pet owner reported the following event for Carlos, a 6 month old (1 Nov 2018*), 6 pound, Domestic Shorthair. 2 May 2019: He received his first dose of FRONTLINE PLUS FOR CATS(lot number unknown). 15 May 2019: He began experiencing 5 to 6 fleas a day on his face daily. The owner is not seeing any on themselves or in the house. The animal goes outside frequently daily. His current condition is ongoing. No further medical information expected.
16-May-2019	UAE; 19US027831; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown)	1	1	0	**Product used:** FIPRONIL 10%/S	09-May-2019	10-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim:On 16 May 2019, the owner reported the following event for a dog, 40 pounds (all other signalments unknown).

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		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** 40 lbs				METHOPRENE 9% SPOT ON **Other products used:** Pantene; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					March 2019: The dog started to used FRONTLINE PLUS DOG 23-44 LBS (lot unknown) on monthly basis. It is unknown if fleas were seen prior to use of the product. 9 May 2019: The most recent vial of product was applied between the shoulder blades, by the pet owner. 10 May 2019*: The pet owner is noticing large amounts of fleas on the dog. The dog goes outside for bathroom breaks. The dog was bathed in Pantene shampoo. The owner is not seeing flea activity in the home. There are 3 cats and 1 other dog in the home using FRONTLINE PLUS as well with cases 19US27319 and 19US27824. No further medical information is expected.
20-May-2019	UAE; 19US027842; SC; U.S.A	**Species:** Canine **Breed:** French Bulldog **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Feb-2019	28-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the owner reported the following event for 13 pound French Bulldog (other signalment unknown). History: The dog had fleas and the first application of the season was given and one FRONTLINE PLUS DOG 5-22 LBS (FL) (lot unknown) was applied in Feb 2019 the owner continued to treat the dog monthly and the dog continued to have fleas each month. 29 April 2019: The most recent application of FL was given and the dog continued to have fleas. There aren't any fleas in the home, but the dog is exposed to a grass yard each day. The dog doesn't have any skin issues. The dog has been on FL for at least the past year. There are two other treated dogs in the home who also have fleas. See cases 19US027867 and19US027868. No further information available.
20-May-2019	UAE; 19US027843; SD; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 67 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-May-2019	19-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 20 May 2019, the veterinary clinic staff reported the following event for Briggs, a 10 year old, 67 lb neutered male Golden Retriever. History: Pet owner has a purchase history of FRONTLINE dating back to 2017, additional information on purchases or application history unknown. 19 May 2019: Dog received 1 dose of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) (FL) topically between the shoulder blades. Soon after the application the dog became extremely lethargic. The dog has not displayed with symptoms following previous applications. The dog is in good health outside of the symptoms noted. The symptoms are ongoing at this time. No further information.
20-May-2019	UAE; 19US027860; OH; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** - **Age:** - **Weight:** 49 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Apr-2019	13-May-2019*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the pet owner reported the following event for Buddy a male intact, 49 pound, Large crossbred, other signalment unknown. 28 Apr 2018: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) topically to skin between the shoulder blades of Buddy on year round basis every month. 28 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically to skin between the shoulder blades of Buddy. 13 May 2019*: The pet owner noticed 1-5 fleas on the body of Buddy. 20 May 2019:Buddy was in good health at time of application. Buddy was not presented to veterinarian. The home environment has not been treated by pet owner. The pet owner has seen fleas in the home. Buddy has no history of skin problems or any other

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											issues with topical treatments. Buddy has not had flea problem before in the past. Buddy has not received any other medications or topical treatments. Buddy has not been bathed. Buddy is strictly outdoors. The current status of Buddy is unknown. No further medical information.
20-May-2019	UAE; 19US027867; SC; U.S.A	**Species:** Canine **Breed:** Bloodhound **Sex:** U **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 120 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	28-Feb-2019	29-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the owner reported the following event for 120 pound, 1 year old Bloodhound (other signalment unknown). History: The dog had fleas and the first application of the season was given and one FRONTLINE PLUS DOG 89-132 LBS (FL) (S60621) was applied in Feb 2019 the owner continued to treat the dog monthly and the dog continued to have fleas each month. 29 April 2019: The most recent application of FL was given and the dog continued to have fleas. There aren't any fleas in the home, but the dog is exposed to a grass yard each day. The dog doesn't have any skin issues. The dog has been on FL for at least the past year. There are two other treated dogs in the home who also have fleas. See cases 19US027842 and 19US027868. No further information available.
20-May-2019	UAE; 19US027868; SC; U.S.A	**Species:** Canine **Breed:** Rottweiler **Sex:** U **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 180 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Low dose)	28-Feb-2019	28-Feb-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the owner reported the following event for 180 pound Rottweiler (other signalment unknown). History: The dog had fleas and the first application of the season was given and one FRONTLINE PLUS DOG 89-132 LBS (FL) (S60621) was applied in Feb 2019 the owner continued to treat the dog monthly and the dog continued to have fleas each month. 29 April 2019: The most recent application of FL was given and the dog continued to have fleas. There aren't any fleas in the home, but the dog is exposed to a grass yard each day. The dog doesn't have any skin issues. The dog has been on FL for at least the past year. There are two other treated dogs in the home who also have fleas. See cases 19US027867 and 19US027842. No further information available.
20-May-2019	UAE; 19US027874; CA; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** - **Age:** 10.00 Month(s) **Weight:** 28 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019	20-May-2019	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 may 2019 the pet owner reported the following event for Bella, a 10 month old (born 30 Jun 2018), 28 pound, intact female Cocker Spaniel. 1 Feb 2019*: The canine started on FRONTLINE PLUS DOG 23-44 LBS (lot and expiration unknown) once monthly. The pet owner was seeing a large amount of fleas on the canine approximately 1 month prior to the first application. 1 May 2019: The most recent dose was applied topically at the base of the neck and between the shoulder blades. 20 May 2019: The pet owner reported she is still seeing a large amount of fleas on the canine but none inside the home. The canine has access to the fenced in yard with no wooded areas and spends the majority of the time inside the home. There are no other pets in the household. No further medical information is expected.
20-May-2019	UAE; 19US027877; NC; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Chocolate) **Sex:** F **Sex qualifier:** - **Age:** 13.00	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz flea	15-Apr-2019	06-May-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the pet owner reported the following event for Gabby a female intact, non-pregnant non-lactating, 65 pound, 13 month old, Retriever (Labrador,Chocolate). 15 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S60914AR) topically to skin between the shoulder blades of Gabby for the first time.

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		Month(s) **Weight:** 65 lbs				and tick shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					6 May 2019*: The pet owner first noticed 5-15 fleas on the body of Gabby. The pet owner bathed Gabby with Hartz flea and tick shampoo. The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically to the skin between the shoulder blades of Gabby with 5-15 fleas on her body. 13 May 2019*: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically to the skin between the shoulder blades of Gabby with 5-15 fleas on her body. 20 May 2019:Gabby was in good health at time of application. Gabby was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. Gabby has no history of skin problems or any other issues with topical treatments. Gabby has not had flea problem before in the past. Gabby has not received any other medications or topical treatments. Gabby has come in contact with one other dog in the home that is treated with Saresto collar. Gabby is mainly outdoors in lot and indoors at night. The current status of Gabby is unknown. No further medical information.
20-May-2019	UAE; 19US027888; IN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-May-2018	11-May-2019	12 Month(s) 1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the pet owner reported the following event for Freddy, a 2 year old*, 11 pound, intact male, unknown breed. 7 May 2019: Fleas were present on the animal. 10 May 2019: He received his monthly dose of FRONTLINE PLUS CATS(R4071AW). 11 May 2019: The fleas were still present. She is seeing over 10 fleas a day on the animal, they are in the owner's household on the carpets and in the bedroom. Crawling and biting the owner's daughter. 17 May 2019: The owner applied Hartz flea treatment to the animal to try and help alleviate the fleas. His current condition is ongoing. It is unknown if animal frequents going outside. He previously received a monthly FRONTLINE PLUS CATS since 2018* with no adverse effects noted. No further medical information expected.
20-May-2019	UAE; 19US027920; OR; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2018	17-May-2019	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the owner reported the following event for Jax, a 1 year old, 14 pound, neutered male Domestic Longhair. 15 May 2019: One vial of FRONTLINE PLUS CATS (FL) (S40301AX) was applied to the skin between the shoulder blades. 17 May 2019: The cat had one flea. 20 May 2019: The cat had another flea. The cat has been on FL for the past year with no issues. The cat does have access to a grass yard for leisure time. There is one other treated cat in the home who isn't having fleas. There is also one dog in the home who takes an unknown oral flea medication that doesn't have fleas. No further information available.
20-May-2019	UAE; 19US027979; VA; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 41.8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Zoetis Lyme; Duramune Lyme;	02-Sep-2009*	19-Jun-2015	9 Day(s)	D-C	Suspected Lack of Efficacy Claim: On 20 May 2019, the veterinary clinic staff reported the following event for Lilly, a 6 year old* (born 26 Mar 2009*), 41.8 pound, spayed female Pomeranian Mix. 02 Sep 2009*: She began receiving FRONTLINE PLUS DOG 23-44 LBS (lot unknown) one dose applied topically between the shoulders monthly year round with an unknown purchase history. 24 Jun 2014: She was diagnosed antigen negative for tick borne illnesses via a routine 4Dx test. She had no previous Lyme vaccination history.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Route: Topical / Cutaneous **Was the product used ok?:** Yes					19 Jun 2015: She was diagnosed Lyme antigen positive via a routine 4Dx test. A Quant C6 was not performed. Treatments were initiated with minocycline. 20 Jun 2015: She received a Zoetis Lyme vaccine 1 mL SC at an unknown location of the body. 15 Jan 2016: She received a Duramune Lyme vaccine 1 mL SC at an unknown location of the body. 10 Jun 2016: She was diagnosed Lyme antigen positive via a routine 4Dx test. A Quant C6 was not performed. No treatments were initiated. 31 May 2017: She received a Zoetis Lyme vaccine 1 mL SC at an unknown location of the body. She was diagnosed Lyme antigen negative via a routine 4Dx. She recovered. She subsequently tested Erlichia antigen positive while on NEXGARD (see case19US027908). No further medical information expected.
20-May-2019	UAE; 19US027985; FL; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** - **Age:** - **Weight:** 74 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Keto-C medicated shampoo; Seresto collar; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Feb-2019*	18-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the owner reported the following event for Charlie, a 74 pound, intact male Retriever mix (age unknown by reporter). *1 Feb 2019:The dog had fleas and one vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was topically applied to the skin between the shoulder blades. *2 Feb 2019: The dog continued to have fleas. The dog continued to be treated monthly on the first of each month. 18 May 2019: The dog continued to have fleas and the owner applied early and gave another application. The dog is exposed to a small grass yard and has a small number of fleas each day. There are no fleas in the home. The dog is bathed once a week sometimes two with Keto-C medicated shampoo due to yeast on the skin. The dog also has FAD, and has a Seresto collar. The dog has been on FL monthly for the past 6-7 years with no issues the years prior. No further information available.
20-May-2019	UAE; 19US027989; -; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Mixed **Age:** 6.00 Year(s) **Weight:** 10 - 17 lbs	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Apr-2019	13-May-2019	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, Animal owner reported the following event for 4 dogs ranging from 6-10 years, 10-17 pound mixed breed canines. 25 Apr 2019: The pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 5-22 LBS (Lot P62018AL) topically between the shoulder blades for the first time this year. A 12 pack was purchased from a retail store. 13 May 2019: The pet owner noticed all 4 dogs had several fleas on them and had increased itching and chewing. The dogs are mostly indoor dogs and have not been bathed. The environment has not been treated as well. The pet owner could not give an estimate of how many fleas she has seen. The owner has not noticed any fleas in the home and and all 4 dogs are in good health. No further information expected. UPDATE 03 Jun 2019: The product lot number was corrected in the narrative.
20-May-2019	UAE; 19US027992; AR; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	20-Apr-2019	20-Apr-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 20 May 2019, the owner reported the following event for a 50 pound dog (signalment unknown). History: The dog had fleas and ticks for a week before the

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** - **Weight:** 50 lbs				9% SPOT ON **Other products used:** Dawn dish soap; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					application. 20 April 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (S61101) was applied to the skin between the shoulder blades for the first time. 21 April 2019: The dog continued to pick up a small number of fleas and a large amount of ticks. The dog is primarily an outdoor dog and is picking up at least 10 attached ticks a day where the owner removes them daily. The dog is exposed to woods, grass, and goes to the river often. The owner is bathe the dog every other month with Dawn dish soap. There is one other dog in the home who is treated with a different flea medication. No further information available.
18-May-2019	UAE; 19US028021; IN; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 98 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-May-2019	17-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 18 May 2019, the pet owner reported the following event for Brownie, a 1 year old*, 98 pound, intact male Pit Bull Terrier mix. Feb 2019*: The dog began receiving FRONTLINE PLUS DOG 89-132 LBS (lot and expiration unknown) monthly. 17 May 2019: The most recent date of administration. The product was applied topically between the shoulder blades. Another dog in the home also had FRONTLINE PLUS DOG 45-88 LBS applied topically between the shoulder blades. Approximately 3 hours after application, the dog began licking the application site of the housemate. Within 6 hours of the ingestion, the dog began vomiting. 18 May 2019: The dog has continued to vomit throughout the day, and has progressed to inappetance and inability to keep water down. The dog did not present to the veterinary clinic. 20 May 2019: The dog's current condition is unknown. No further medical information expected.
20-May-2019	UAE; 19US028035; -; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 10.4 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-May-2019	20-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 20 May 2019, Animal owner reported the following event for Maki, a 11 year old, 10.4 pound, spayed female shih tzu. *May 2009: Started FRONTLINE PLUS DOG 5-22 LBS (S63009BL) with no issues. 19 May 2019: The pet owner applied the full contents of 1 vial between the shoulder blades at 2:30 pm. 20 May 2019: At 2:30am, the dog developed vomiting and diarrhea. The dog presented for an exam and was treated with supportive care. The dog has not vomited or had diarrhea for 12 hours and considered recovered. There are no other dogs in the home and the owner stated there has not been any environmental changes. She stated the dog has not gotten into any non-ingestable substances. The product is used seasonal. No further information expected.
16-May-2019	UAE; 19US028038; NY; U.S.A	**Species:** Canine **Breed:** Havanese **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG;	01-May-2019*	02-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy: On 16 May 2019, the pet owner reported the following event for Paco, a 13 year old, 20 pound, neutered male, Havanese. 1 Jan 2019*: He received his monthly dose of FRONTLINE PLUS DOG 5-22 lbs(lot number unknown). 2 Jan 2019*: The owner saw a tick on Paco crawling around, but not attached. 3 Jan 2019*: He presented to the veterinary clinic. Where blood work and urine work were ran and showed normal results. 4 Jan 2019*: The owner stated he saw no more ticks. 1 May 2019*: He received his monthly dose of FRONTLINE PLUS DOG 5-22 lbs(lot number unknown).

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					2 May 2019*: The owner saw a tick on Paco attached to his skin, the owner removed the tick at the time. 3 May 2019*: He presented to the veterinary clinic. Where blood work and urine work were ran and showed normal results. 4 May 2019*: The owner stated he saw no more ticks. It was stated by the owner that the animal does go outside frequently for walks and potty breaks. He previously received FRONTLINE PLUS monthly since 2007* with no adverse effects noted. The owner stated he was also on HEARTGARD PLUS (68 MCG/57 MG) exact days are unknown, but they do not dose on the same day as the FRONTLINE PLUS. He has another reaction to HEARTGARD PLUS and FRONTLINE PLUS see case 19US026458. No further medical information expected.
20-May-2019	UAE; 19US028066; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-May-2019	18-May-2019*	1 Day(s)	D-D	Suspected Adverse Event: On 20 May 2019, the owner reported the following event for a feline(all other signalments unknown). 17 May 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by the pet owner. 18 May 2019*: The cat's fur starting to fall out around the application site and extreme itching. 20 May 2019: The pet owner stated that the cat has an open wound because of itching. The pet owner did not state where the open wound was located on cat. No further medical information is expected.
20-May-2019	UAE; 19US028072; NJ; U.S.A	**Species:** Canine **Breed:** Weimaraner **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-May-2019	20-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 20 May 2019, the owner reported the following event for Blu, an 85 pound, male intact, 1 year old, Weimaraner. 20 May 2019: One vial of FRONTLINE PLUS DOG 89-132 LBS (G63102AR) was applied topically in between the shoulder blades of the pet by the owner. The pet vomited 4 times within the same day, only bile no food seen, per owner. The pet has not been presented to the clinic. This is the first application of FRONTLINE for the pet. The pet's symptoms are unknown. No further medical information expected at this time.
21-May-2019	UAE; 19US028099; OH; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 19.5 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Apr-2019	10-Apr-2019	3 Day(s)	D-A	Suspected Adverse Event: On 21 May 2019 the owner reported the following event for Muffin a *7 year old, 19.5 pound, female spayed Shih Tzu mix. *Apr 2018: The owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) to the skin between the shoulder blades for the first time and continued on a seasonal basis from Apr to Dec each year. 7 Apr 2019: The owner applied the first dose of the season and administered 1 tablet of Interceptor Plus. This was the first time dog had ever received Interceptor. 10 Apr 2019: The dog began having diarrhea every hour and started refusing to eat. 11 Apr 2019: The dog continued with diarrhea and refused to eat. 12 Apr 2019: The dog began vomiting white foam constantly. 13 Apr 2019: The dog became wobbly and back legs would give out. 14 Apr 2019: The dog couldn't crawl out from under the bed and

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											started having constant seizures. 15 Apr 2019: The dog was still having severe neurological symptoms and had lost weight. The dog presented to the vet clinic. The clinic ran bloodwork and diagnosed the dog with diabetes and severe neurological deficits. The owner elected to euthanize the dog. The dog had a long history of drinking lots of water but was healthy prior to the application. On an unknown date a couple weeks prior to starting the FRONTLINE PLUS the dog took a fall and was placed on an unknown muscle relaxer that the owner gave 1 time and discontinued. Owner believes symptoms were the result of administering both products on the same day. No further medical information expected. UPDATE 23 May 2019: Contacted clinic and was informed that owner did not purchase FRONTLINE PLUS from the clinic as they do not sell it. The attending veterinarian was not available to discuss the case. UPDATE 24 May 2019: Attending veterinarian reported that Muffin had a history of urinary issues and was placed on an antibioitic and she got better. On 15 Apr 2019 the glucose was 364 and AP and WBC were elevated (actual values not available
21-May-2019	UAE; 19US028116; -; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	20-May-2019	21-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: 21 May 2019: An owner reported the following event in Daisy May; a 2 year old, 18 pound, spayed, female, small crossbred dog. 20 Apr 2019 and 20 May 2019: the owner applied FRONTLINE PLUS 0-22 LBS (R614188AL) to the shoulders. 21 May 2019: The owner found one tick, alive and imbedded, on the dog when it returned from being outside. The dog is indoor and outdoor. Ticks were seen before the first application. The dog does not receive baths. The owner has a friends dog living with them and a cat that do not receive flea or tick preventatives. No further information available.
21-May-2019	UAE; 19US028141; PA; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 57.2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK LYME - 2126.R0; FIPRONIL 9.8% / S-METHOPRENE 8.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION;	01-Jul-2017*	20-May-2019	22 Month(s) 4 Week(s)	D-C	Suspected Lack of Efficacy Claim: On 21 May 2019, the clinic staff reported the following event for Rocky, a 3 year old (25 Nov 2015), 57.2 pound, neutered male, Australian Shepherd. 21 Apr 2017: Positive for Lyme on Idexx 4Dx test. Treated with Doxycycline, no Quant C6 performed. 21 May 2017*: The owner started the animal on FRONTLINE PLUS DOG 45-88 LBS(lot number unknown), the owner puts the dog on this seasonally for the summer months based on records. He received a RECOMBITEK LYME 1 mL SC in the Shoulder unknown side on 22 Dec 2017 (42218,26 Jan 2019), 17 Jan 2018 (42218, 26 Jan 2019), 20 Feb 2019 (42228, 9 Jul 2020). 25 May 2018 : He was diagnosed Lyme antigen negative via a routine Idexx 4Dx test. The dog also started receiving FRONTLINE GOLD DOG 45-88 LBS(Lot number unknown) for the season of summer. 20 May 2019: He was diagnosed Lyme antigen positive via a routine Idexx 4Dx test, symptoms were not noted. A Quant C6 has not been performed, but blood is drawn for the test. No treatments

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						Route: Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					have been initiated. His current condition is ongoing. No further medical information expected. UPDATE 11 Jun 2019: Per medical record received on 28 May 2019, a Quant C6 test result on 22 May 2019 was 121 (0-30). The pet was treated with doxycycline. No further medical information expected.
21-May-2019	UAE; 19US028159; NY; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	19-May-2019	21-May-2019	2 Day(s)	D-D	Suspected Adverse Event: On 21 May 2019 the pet owner reported the following event for a male Chihuahua mix of unknown further signalment. 19 Apr 2019*:The pet owner applied FRONTLINE PLUS DOG 5-22 LBS (lot and expiration unknown), 1 vial, topically, intrascapular for the first time. 19 May 2019: The pet owner applied 1 vial, topically, intrascapular. 21 May 2019: The canine began eating grass and exhibiting generalized pruritus. Currently, the canine has not received treatment and the reaction continues. No further medical information is expected.
21-May-2019	UAE; 19US028181; NC; U.S.A	**Species:** Canine **Breed:** Doberman **Sex:** M **Sex qualifier:** - **Age:** 9.00 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	16-May-2019	17-May-2019	1 Day(s)	D-D	Suspected Adverse Event: 21 May 2019: An owner reported the following event in Knotter; a 9 years old, 85 pounds, intact, male Doberman. 16 May 2019: The owner administered one tube of FRONTLINE PLUS DOGS 23-44 LBS (lot unknown, package unavailable)* (product unsubstantiated, owner stated it was up to 55 lbs and the box was thrown away). 17 May 2019: The dog was anorexic. 26 May 2019: The dog started to vomit. No further medical information available.
21-May-2019	UAE; 19US028216; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Apr-2019	21-May-2019	26 Day(s)	D-D	Suspected Adverse Event: On 21 May 2019, while inquiring about the safety of administereing FRONTLINE PLUS for cats more often then every 4 weeks, an animal owner reported the following event in Hello Kitty, a 15 pound, female spayed cat. Apr 2018*: The feline started receiving monthly doses of FRONTLINE PLUS CATS (lot, expiration unknown). No fleas at time of initial dose. 25 Apr 2019: FRONTLINE PLUS CATS was applied 21 May 2019: The animal owner reported that the feline was scratching. No fleas seen on pet. The feline has not been bathed or allowed to get wet. There are no housemates. The animal owner reports that there are raccons in the area and the neighbors have dogs. No further information reported or expected.
21-May-2019	UAE; 19US028222; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	08-Feb-2019*	19-May-2019	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 21 May 2019, the owner reported the following event for neutered male, Domestic Shorthair (crossbreed) (all other signalments unknown). Feb 2019: The pet owner purchased a 3 pack of FRONTLINE

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		Sex: M **Sex qualifier:** Neutered **Age:** - **Weight:** Unknown				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					PLUS CATS(lot unknown) from walmart. No fleas were seen on cat, using as a preventative. 8 May 2019: The most recent vial of the product was applied between the shoulder blades., by the pet owner. 19 May 2019: The cat had a small amount of fleas located around the face area. The cat does not get bathed. The owner is not seeing any flea activity in the home. The cat is strictly indoors. No further medical information is expected.
21-May-2019	UAE; 19US028244; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 8.00 Week(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	21-May-2019	21-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 21 May 2019, the pet owner reported the following event for feline, 8 weeks old, other signalment unknown. 21 May 2019: The pet owner applied one dose of FRONTLINE PLUS CATS (lot number unknown) topically to the cat. An unknown time later the same day, the pet owner noticed the cat scratching and itching causing discomfort. It is unknown whether cat was scratching and itching prior to application.The cat was in good health at time of application. The cat has not been presented to veterinarian. The cat is currently at home with ongoing issue. No further medical information.
21-May-2019	UAE; 19US028299; AL; U.S.A	**Species:** Canine **Breed:** Papillon **Sex:** X **Sex qualifier:** Mixed **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019	19-May-2019	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 21 May 2019, Animal owner reported the following event for 3 papillons. 01 Apr 2019 and 01 May 2019: The pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 5-22 LBS (Lot unknown) was applied topically between the shoulder blades for the first time. 19 May 2019: The dogs began itching excessively. The pet owner is seeing 4-5 fleas on each dog a day. The dogs are mostly indoors and get groomed once a month. The pet owner stated the dogs were not groomed around the time of application. There were no visible fleas prior to starting FRONTLINE PLUS and the dog was previously on a flea collar. There is one other dog in the home (reported in case 19US028310) but not in the same weight category. No further information expected.
21-May-2019	UAE; 19US028302; MI; U.S.A	**Species:** Canine **Breed:** Foxhound (American) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown injectable heartworm prevention; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Apr-2019*	18-May-2019	27 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 21 May 2019, the pet owner reported the following event for Volpe, a 7 year old*, 70 pound, neutered male, Foxhound Mix. 21 Apr 2019*: He began receiving FRONTLINE PLUS DOG 45-88 LBS (lot number unknown). The dog goes out into fenced in yard frequently in the day. The owner states he has not seen any other ticks in the environment or his household. 18 May 2019: The owner noticed one tick attached behind dog's right ear. The owner removed the tick from he dog. 21 May 2019: Dog seemed down and mopey, appeared to be walking funny. Has also had a lack of appetite. His current condition is ongoing. There is one other dog in the household with Volpe. No further medical information expected.
21-May-2019	UAE; 19US028325;	**Species:** Canine **Breed:** Vizla	1	1	0	**Product used:** FIPRONIL	21-May-2019	21-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 21 May 2019, the pet owner reported the following event for Echo, a 4 year old (5 Jul 2014), 50

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	-; U.S.A	**Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 50 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					pound, spayed female, Vizla. 1 Apr 2019*: The dog received its seasonal unknown Allergy Injection Medication and an Unknown Oral Allergy Medication. 21 May 2019: She received a dose of FRONTLINE PLUS DOG 45-88 LBS(R62001AR). About 45 minutes later she began experiencing irritation and appeared to be worried. The owner stated it seemed as though the pet was trying to get away from the applied FRONTLINE. Her current condition is ongoing. She previously received a FRONTLINE PLUS every 3 months since 2018* with no adverse effects noted. The dog has had a history of reactions to Trifexis and another unknown oral prevention, the owner stated they made her ill but exact symptoms are unknown. No further medical information expected. UPDATE 22 May 2019: Per phone call from owner. 22 May 2019: At 1 am the dog was pacing and seemed to have worsened in irritation. The owner then bathed her with a diluted solution of Comfort Shampoo, an anti-itching shampoo. Then about 15 minutes after the bath the animal calmed down and went to bed. When waking up this morning the animal was back to normal and fully recovered. No further information is expected.
21-May-2019	UAE; 19US028378; -; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2013*	20-May-2019	19 Day(s)	D-C	Suspected Lack of Efficacy Claim: 21 May 2019: An owner reported the following event in Daisy; a 6 year old, 70 pound, spayed, female, Labrador Retriever. 01 May 2013*: The owner started using FRONTLINE PLUS DOGS. 01 May 2018*: The dog had a negative lyme test. 01 May 2019: The owner applied FRONTLINE PLUS DOGS 45-88 LBS (lot unknown, package unavailable) to the dog. 20 May 2019: A routine blood test was positive for lyme disease. No further information available.
21-May-2019	UAE; 19US028414; IA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2019*	01-May-2019*	N/A	D-D	Suspected Adverse Event: On 21 May 2019, the owner reported the following event for a feline (all other signalments unknown). 19 Apr 2019*: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by the pet owner. 1 May 2019*: The cat had started to lose fur around the application site. 19 May 2019*:The most recent dose of the product was given. 21 May 2019: The fur on the application is completely gone. There is 1 other cat in the household using the FRONTLINE PLUS also but is not having a reaction. No further medical information is expected.
21-May-2019	UAE; 19US028416; NJ; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 55 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/P	22-Mar-2019	11-Apr-2019	N/A	D-D	Suspected Adverse Event: On 21 May 2019, the owner reported the following event for Whiskey, 10 year old, 55 pound, neutered male, Australian Shepherd canine. 22 Mar 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. One chew of HEARTGARD PLUS (272 MCG/227 MG) (B25545, Aug 2021) was administered orally. 11 Apr 2019: The dog experienced hair loss at the application site. 22 Apr 2019: Another vial was applied and another chew were

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						YRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					administered. The symptoms persisted. 10 May 2019: The pet presented to the clinic. The attending veterinarian ran a blood chemistry which came back WNL. No treatment was provided. 21 May 2019: The symptoms are still ongoing. The dog has received both product since 2009* with no issue. No further medical information is expected.
21-May-2019	UAE; 19US028417; SC; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 75 - 88 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2019*	20-May-2019	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 21 May 2019, the owner reported the following event for 2 dogs, a German Shepard Dog and Pointer, both weighing between 75-88 Pounds, other signalment unknown. 16 May 2019: One vial of the FRONTLINE PLUS DOG 45-88 LBS (S62111AL) was applied topically in between the shoulder blades by the owner. 20 May 2019: The owner noticed a large amount of fleas on both pets. The pets are indoor mostly and go outside for potty breaks and recreation. The pets have access to a fenced in yard were urban wildlife is seen on occasion. This is the first time the owner has seen fleas on the pets. The owner purchased the product and applied the first dose back in Feb 2019*. No further medical information is expected.
22-May-2019	UAE; 19US028427; AL; U.S.A	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 75 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz Flea and Tick shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2019	22-May-2019	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the pet owner reported the following event for Lola Jean a female spayed, 75 pound, 3 year old, Poodle/Golden Retriever Labrador crossbreed. 15 May 2018*: The pet owner applies FRONTLINE PLUS DOG 45-88 LBS (S61313AR) topically to skin between the shoulder blades of Lola Jean on year round basis every month. 14 May 2019: The pet owner bathed Lola Jean with Hartz flea and tick shampoo. 15 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically to skin between the shoulder blades of Lola Jean. 22 May 2019: The pet owner first noticed 5-15* fleas on the body of Lola Jean. Lola Jean was in good health at time of application. Lola Jean was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. Lola Jean has no history of skin problems or any other issues with topical treatments. Lola Jean has not had flea problem before in the past. Lola Jean has not received any other medications or topical treatments. Lola Jean is indoors and outside for bathroom breaks in fenced yard. The current status of Lola Jean is unknown. Lola Jean share home with 1 other dog that is treated with unknown amount of FRONTLINE product that does not have flea issues. No further medical information.
22-May-2019	UAE; 19US028433; PA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	06-May-2019	06-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, a pet owner reported the following event for Ruger, an 18 month old (born 18 Sep 2017), 64* pound, intact male Golden Retriever. 5 Apr 2019: The dog received 1 application of FRONTLINE PLUS DOG 45-88 LBS (S61101AR) topically between the shoulder

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 18.00 Month(s) **Weight:** 64 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					blades for the first time. 7 Apr 2019*: The pet owner noticed 2 live ticks that were attached and engorged on the dog and removed them. 6 May 2019: The dog received 1 application of FRONTLINE. 21 May 2019: Pet owner reported that she found a live attached and engorged tick today on the dog and removed it. She stated that since the application of FRONTLINE on 6 May 2019, she has found a total of 3 ticks. There are no other pets in the home and the dog does have access to a field. No further medical information expected.
22-May-2019	UAE; 19US028455; SC; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Month(s) **Weight:** 44 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN CHEWABLE 68 MCG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-May-2019	19-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the pet owner reported the following event for 2 dogs, females spayed, 44 pound, 6 month old, Mixed breeds/ various. 20 May 2018: The pet owner applies FRONTLINE PLUS DOG 23-44 LBS (S61401AL) topically to skin between the shoulder blades of the dogs on year round basis every month. 1 May 2019: The pet owner administers unknown amount of HEARTGARD CHEWABLE orally to the dogs on year round basis every month. 19 May 2019: The pet owner first noticed 4-5 fleas on the dogs. 20 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS topically to skin between the shoulder blades of the dogs with 4-5 fleas on their bodies. 21 May 2019: The pet owner continued to see 4-5 fleas on the body of the dogs. 22 May 2019: The dogs were in good health at time of application. The dogs were not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. The dogs have no history of skin problems or any other issues with topical treatments. The dogs have not had flea problem before in the past. The dogs have not received any other topical treatments. The dogs have not been bathed. The dogs are indoors and outside in fenced yard for walks. The current status of the dogs are unknown. The dogs share home with 1 other dog that is treated with FRONTLINE GOLD DOG 89-132 (PP04771) with flea issues with case number 19US31583. No further medical information.
22-May-2019	UAE; 19US028479; MS; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Mixed **Age:** - **Weight:** 60.000 - 80 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Sargeant Flea and Tick Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	20-Apr-2019	22-May-2019	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the pet owner reported the following event for 2 dogs,a male neutered, a female intact, non-pregnant non-lactating, 60-80 pounds, unknown- 2 year old, Mixed Breed/ various. 17 Apr 2019*: The pet owner first noticed 2-3 fleas on the body of the dogs. 20 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S62111AL) topically to skin between the shoulder blades of the dogs for first time with 2-3 fleas seen on them. 30 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS topically to skin between the shoulder blades of the dogs with 2-3 fleas on their body. 22 May 2019: The dogs were bathed with Sargeants Flea and Tick Shampoo. The dogs were in good health at time of application. The dogs were not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. The dogs have no other issues with topical treatments. The dogs have sores on skin. The dogs have had flea problem before in the past that never resolved. The

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											dogs have not received any other medications or topical treatments. The dogs are indoors and outside for walks. The current status of the dogs are unknown. The dogs also shares home with one dog that is treated with FRONTLINE PLUS DOG 23-44 LBS (lot number unknown) with the same flea issue with case number 19US31576 . No further medical information.
22-May-2019	UAE; 19US028490; -; U.S.A	**Species:** Canine **Breed:** Wheaton Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 58 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	01-Oct-2014*	01-Oct-2014*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the pet owner reported the following event for Taffy, a 15 year old, 58 pound, Wheaton Terrier Retriever Mix. 1 Oct 2014*: She received a monthly dose FRONTLINE PLUS DOG(Unsubstantiated) (lot and expiration unknown). An unknown amount of time after the dose the owner noticed fleas/ticks. The dog does frequent outside. The owner proceed to change to using NEXGARD(unsubstantiated)(lot and expiration unknown) to treat the animal. Her current condition is unknown. The dog has been using FRONTLINE PLUS before but exact dates are unknown without an adverse effect noted. She has a history of drug reactions to K9 Advantix. Dog has since passed away, please see case 19US029041. No further medical information expected.
22-May-2019	UAE; 19US028505; -; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019	01-May-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On the 22 May 2019, a pet owner reported the following event for a feline of unknown signalment. 1 Jan 2019: The cat was started on FRONTLINE PLUS CATS (unknown lot number) with 1 dose applied topically on an unknown site by the pet owner. 1 Apr 2019: The pet owner started seeing ticks on her cat. She applied 1 dose of FRONTLINE PLUS topically to her cat. 1 May 2019: The owner applied another dose of FRONTLINE PLUS to her cat, but she is still seeing ticks on her cat. The issue is ongoing. The cat is an outdoor/indoor cat and seems to get the ticks every time he goes outside. No further medical information expected.
22-May-2019	UAE; 19US028545; TX; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-May-2019	22-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 22 may 2019 the pet owner reported the following event for Gray Kitty, a 2 year old (born 1 May 2017), 9 pound, spayed female unknown Feline. 22 May 2019: The pet owner applied FRONTLINE PLUS CATS (lot and expiration unknown), 1 vial, topically, intrascapular. Approximately 15 minutes post application the feline licked the application site and began hypersalivating. Currently, the reaction continues and the feline has received no treatment. The feline received the first dose of the product on *22 Apr 2019 with no issues. No further medical information is expected.
22-May-2019	UAE; 19US028606; TN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** -	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	01-May-2018*	22-May-2019*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2018, the pet owner reported the following event for 4 cats of unknown signalment. May 2018*: All cats began receiving monthly doses of FRONTLINE PLUS CATS (S40815AW) topically between the shoulder blades adminstered by the animal owner with the most recent 6 pack purchased on 30 Apr 2019*. 1 Mar 2019, 1 Apr 2019 and 1 May 2019: Each cat received 1

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		Weight: Unknown				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					dose. 22 May 2019: The owner reports seeing multiple fleas on each cat, on humans in the home as well as in the indoor environment. All 4 cats do not go outside although they often sit along an open windowsill. There are no other animals in the home. No further medicla infomration expected.
22-May-2019	UAE; 19US028618; CA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 99 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-May-2019	21-May-2019*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the pet owner reported the following event for Dalton, a 4 year old, 99 lb neutered male Golden Retriever. The dog has been using FRONTLINE monthly for an unknown amount of time. 18 May 2019; Dog received on dose of FRONTLINE PLUS DOG 89-132 LBS (R61814AR) (FL) topically between the shoulder blades. 21 May 2019*: Pet owner began to notices fleas on the dog. Pet owner saw 4-5 fleas on the dog. The dog was bathed with an unknown shampoo and the fleas were removed. The dog is primarily indoors and only goes out for walks. There is no flea activity in the home. There is 1 other dog in the household that receives the FL, but is not having any issues. No further medical information expected.
22-May-2019	UAE; 19US028647; MD; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 10 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Mar-2019*	22-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the pet owner reported the following event for Cuddles, a 7 year old 10 pound female spayed Domestic Longhair. 19 May 2019: The pet owner applied a dose of FRONTLINE PLUS CATS (lot unknown) topically down to the skin between the shoulder blades. 22 May 2019: The pet owner found a flea on the cat. There have not been any fleas in the home. There is another cat in the home who is also treated with FRONTLINE. This is the third dose for the cats this spring. The cat has been receiving FRONTLINE for an unknown number of years seasonally. No further medical information expected.
22-May-2019	UAE; 19US028651; MO; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-May-2019	14-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, an animal owner reported the following event in Kit, a 12 year old, female spayed cat. All other signalments are unknown. 11 Feb 2019: A 6 pack of FRONTLINE PLUS CATS (R41206AW) was purchased 12 Mar 2019: The animal owner applied 1 vial of FRONTLINE PLUS topically between the shoulder blades for a preexisting flea issue. There were approximately 7-8 fleas time of application. 15 Apr 2019: The animal owner applied 1 vial of FRONTLINE PLUS topically between the shoulder blades. Approximatly 20 fleas were seen. 14 May 2019: The animal owner applied 1 vial of FRONTLINE PLUS topically between the shoulder blades. Approximatly 30 fleas were seen. The home is vaccumed regularly and has been bombed. There is one other feline in the home who shares dose size (reported in case 19US28610). It is unknown if feline goes outdoors. No further medical information expected.
22-May-2019	UAE; 19US028659; -; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S	17-May-2019	18-May-2019	1 Day(s)	D-C	Suspected Adverse Event and Suspected Lack of Efficacy: On 22 May 2019, a pet owner reported the following event for Baxter, a 9 year old, 29 pound, male neutered Pug x Beagle.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Neutered **Age:** 9.00 Year(s) **Weight:** 29 lbs				METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 136MCG/326MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					17 May 2019: The owner applied 1 dose of FRONTLINE PLUS DOG 23-44 LBS (Unknown lot) topically in a line down the patient's back. 18 May 2019: The owner noticed the area of application seemed red. 19 May 2019: The area of application was extremely red and was losing hair. The owner took the patient to the clinic where the area was clipped and cleaned and treated with Bacitracin and unknown pills. The owner also mentioned that the FRONTLINE PLUS is not working. He stated that the pet had 150-200 ticks on him and that the ticks were having babies on him. The owner reported past symptoms with the products in case 19US031651. The patient has received FRONTLINE PLUS monthly for the past 8 years. He also takes monthly doses of HEARTGARD PLUS (136 mcg/114 mg) (Lot and exp unknown) for the past 8 years. There are no further details available. No further medical information expected.
22-May-2019	UAE; 19US028674; NY; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	17-May-2019	18-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019 the pet owner reported the following event for Harley a 10 year old, 17 lb neutered male Dachshund. Unknown dates: The dog has used the FRONTLINE monthly for an unknown amount of time and has never had any issues. 17 May 2019: Dog received 1 dose of FRONTLINE PLUS DOG 5-22 LBS (S60714AX) (FL) topically in an unknown manner. Since the application pet owner has continued to find fleas on the dog. At one point the pet owner found as many as 5 fleas on the dog. On other occasions, 2-3 fleas are found. Flea dirt has also been seen on the dog. No further medical information expected.
22-May-2019	UAE; 19US028675; AL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-May-2019*	20-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the owner reported the following event for Crook, 1 year old, 10 pounds, neutered male, Domestic Shorthair (crossbred). 1 May 2019*:The pet owner started the FRONTLINE PLUS CATS (S40606AW). The pet owner stated that they used all 3 vials in the pack within a 2 week timeframe. 20 May 2019*:The pet owner stated that a moderate amount of fleas were seen on the cat. The owner is not seeing any flea activity in the home. The cat is strictly indoors. No further medical information is expected.
22-May-2019	UAE; 19US028684; AL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** multiple	08-May-2019*	09-May-2019*	1 Day(s)	D-C	Suspected Adverse Event: On 22 May 2019, the pet owner reported the following event for a female, Snow white, canine of further unknown signalment. Unknown date: The canine received an unknown dose of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) for the first time. 8 May 2019*: She received an unknown dose of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) applied topically in an unknown location.

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		Weight: Unknown				unknown medications; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					Unknown dates: The canine became pruritic causing her to chew at her skin and as a result, her hair has since fallen out at the application site. The pet owner also observed a large (undefined) amount of fleas on the dog, but she did not clarify if she saw the fleas before or after the canine became symptomatic. Presently, it's unknown if the canine's symptoms have resolved. There are 7 other dogs in the home. All 8 dogs reportedly have fleas following FRONTLINE PLUS use. Please also see case 19US028656. No further medical information expected. UPDATE (23 May 2019): The pet owner reported that Snow white has experienced localized hotspot reaction on the body of her dog. The dog is also on multiple unknown medications. No further medical information.
22-May-2019	UAE; 19US028711; TX; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 20.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	22-May-2019	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019 the pet owner reported the following event for Lucy, a 20 pound, female canine of unknown signalment. Oct 2018*: The dog began receiving monthly doses of FRONTLINE PLUS DOG 5-22 (562502AW, invalid lot) topically between the shoulder blades applied by the pet owner with the most recent dose applied on 9 May 2019. 22 May 2019: The owner reported seeing many fleas on the dog and in the home. The dog spends most of her time indoors although goes outside occasionally. There is one other dog in the home, Apollo, who also receives FRONTLINE PLUS and is experiencing similar symptoms, see case 19US028722. No further medical information expected
22-May-2019	UAE; 19US028720; CA; U.S.A	**Species:** Feline **Breed:** Burmese **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2019	05-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 22 May 2019, the owner reported the following event for a 10 pounds, female, Burmese (all other signalments unknown). 5 May 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. This was the first time using the product. The cat started to foam at the mouth a few hours after application. 7 May 2019*: The foaming stopped. Please see case 19US030455 for another event regarding the same pet and FRONTLINE PLUS CATS. No further medical information is expected.
22-May-2019	UAE; 19US028722; TX; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 90 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	22-May-2019*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the pet owne reported the following event for Apollo, a 90 pound, male Siberian Husky. Oct 2018*: The dog began receiving monthly doses of FRONTLINE PLUS DOG 89-132 (562111AL, invalid lot) topically between the shoulder blades applied by the pet owner with the most recent dose applied on 9 May 2019. 22 May 2019: The owner reported seeing many fleas on the dog and in the home. The dog spends most of her time indoors although goes outside occasionally. There is one other dog in the home, Lucy, who also receives FRONTLINE PLUS and is experiencing similar symptoms, see case 19US028711. No further medical information expected

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23-May-2019	UAE; 19US028723; PA; U.S.A	**Species:** Canine **Breed:** Welsh Corgi (Pembroke) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	20-May-2019*	22-May-2019*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 May 2019, the pet owner reported the following event for Rocky, a 3 year old (1 Mar 2016*), 25 pound*, neutered male Pembroke Welsh Corgi. Feb 2019*: The dog began receiving FRONTLINE PLUS DOG 23-44 LBS (S62308AW) monthly with a 6 vials purchased on that same date. 22 May 2019*: The owner noticed between 1-3 fleas on the dog. The dog has free access in and out to the fenced yard. There is one tree on the property. The dog's current condition is ongoing. This in the only animal in the household. The dog has not presented to the veterinary clinic. The pet owner has mentioned that she treats every 3 weeks, and is routinely seeing 1-3 fleas on a periodic basis. Fleas are not seen around the home, and the home has not been treated. The pet owner has not experienced any flea bites. No further medical information expected.
22-May-2019	UAE; 19US028734; TX; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-May-2019	14-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 22 May 2019, the owner reported the following event for 2 dogs (all other signalments unknown). Unknown dates: The dogs have used FRONTLINE PLUS on a monthly basis year round for an unknown amount of time. 13 May 2019: One vial of FRONTLINE PLUS DOG (lot unknown and product unsubstantiated) was applied between the shoulder blades, by the pet owner. 14 May 2019*: The dogs had a large amount of fleas. It is unknown if the dogs were bathed. The owner did not state whether or not there is fleas activity inside the home. The dog goes outdoors for bathroom breaks. No further medical information is expected.
23-May-2019	UAE; 19US028746; OH; U.S.A	**Species:** Canine **Breed:** Collie **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 31 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-May-2019	19-May-2019	2 Day(s)	D-D	Suspected Adverse Event: 23 May 2019: An owner reported the following event in Evie; a 2 year old, 31 pounds, female, spayed, Collie mix. 17 May 2019: The owner administered FRONTLINE PLUS DOGS 23-44 LBS (lot unknown, package unavailable) for the first time. 19 May 2019: The owner reports the dog exhibited inappetance and not as playful as normal. No further medical information expected.
23-May-2019	UAE; 19US028757; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	09-May-2019*	16-May-2019*	1 Week(s)	D-D	Suspected Adverse Event: 23 May 2019: An owner reported the following event in a barn cat; a 7 year old, unknown weight, sex, repro, and breed. 09 May 2019*: The owner administered FRONTLINE PLUS CATS (lot unknown, package unavailable) in between the shoulders for the first time. 16 May 2019*: The owner reports the cat exhibited licking and scratching. No further medical information expected.

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						ok?: Yes					
23-May-2019	UAE; 19US028816; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019*	23-May-2019*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 May 2019, the pet owner reported the following even for an unknown number of felines. May 2019*: The cats received an unknown amount of FRONTLINE PLUS CATS (lot unknown) (FL) topically in an unknown manner. Following application the pet owner was still finding fleas on the cats. The pet owner expressed concern about counterfeit products and reports of other pet owners finding fleas following the application of FL. No further medical information expected.
23-May-2019	UAE; 19US028833; AL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 90 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dawn dish soap; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Mar-2019	13-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 23 May 2019, the owner reported the following event for Snow Ball a 90 pound dog (signalment unknown). History: Snow Ball has been on FRONTLINE PLUS (product unsubstantiated) for years and has been having an issue with fleas the past 2 months. *13 Mar 2019: One vial of FRONTLINE PLUS DOG 89-132 (lot unknown) was applied to the skin between the shoulder blades. *13 April 2019: One vial of FRONTLINE PLUS DOG 89-132 (lot unknown) was applied to the skin between the shoulder blades. On an unknown date Snowball started to pick up fleas and picked up one tick which the owner removed. 13 May 2019: Most recent treatment was given. Snowball lives on 10 acres of land and is an outdoor dog. The owner baths Snow Ball with Dawn once or twice a month. No further information available.
23-May-2019	UAE; 19US028859; CT; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-May-2019	23-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 23 May 2019, the owner reported the following event for a feline (all other signalments unknown). 22 May 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by the pet owner. 23 May 2019: The cat was drooling and lethargic. No further medical information is expected.
23-May-2019	UAE; 19US028874; TX; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** M **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN CHEWABLE 68 MCG;	22-May-2019	23-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 May 2019, the pet owner reported the following event for Max a male intact, 18 pound, 4 year old, Schnauzer (Miniature). Unknown date: The pet owner has used FRONTLINE PLUS previously in the past. 21 May 2019*: The pet owner administers unknown HEARTGARD CHEWABLE (lot number unknown, expiration unknown) (product unsubstantiated) to Max orally on year round basis every month. 22 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S61412AL) topically between the shoulder blades to the body of Max for the first time.

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					23 May 2019: The pet owner continues to see 3-5 fleas on the body of Max. Max was in good health at time of application. Max was not presented to veterinarian. The home environment has not been treated by pet owner. The pet owner has not seen any fleas in the home. Max has no history of skin problems or any other issues with topical treatments. Max has not had flea problem before in the past. Max has not received any other medications or topical treatments. Max has not been bathed. Max is indoors and outside for walks. The current status of Max is unknown. Max share home with 1 other dog that is treated with Trifexis with no flea issues. No further medical information.
23-May-2019	UAE; 19US028905; TN; U.S.A	**Species:** Rabbit **Breed:** French Lop **Sex:** M **Sex qualifier:** - **Age:** 3.00 Month(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Contraindication per label)	22-May-2019	23-May-2019	1 Day(s)	D-B	Suspected Adverse Event: On 23 May 2019, the veterinarian reported the following event for Toasty Marshmallow, a 3 month old (born 1 Feb 2019), 1.5 kilogram, intact male French Lop. 22 May 2019: The rabbit received approximately 3 drops of FRONTLINE PLUS FOR DOGS 45-88 (lot and expiration unknown) applied topically by the animal owner between the shoulder blades. 23 May 2019: The rabbit began to experience inappetence. He presented the clinic where he had a seizure lasting approximately 10 seconds before experiencing respiratory arrest. The veterinarian performed CPR and administered oxygen therapy after which the rabbit resumed respiration. Toasty Marshmallow remains under treatment at this time and the veterinarian has a medium level of suspicion that his reaction was related to FRONTLINE PLUS administration. No further medical information expected.
23-May-2019	UAE; 19US028952; NC; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-May-2019	23-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 23 May 2019, the owner reported the following event for 2 Chihuahua (all other signalments unknown). 23 May 2019: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades, by the pet owner. The dogs scratched the area of application after application. The dogs ingested some of the product that got on their paws. No further medical information is expected.
23-May-2019	UAE; 19US029047; MO; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-May-2019	19-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 23 May 2019, the owner reported the following event for (pet's name), 12 years, 6 pounds, spayed female, Pomeranian. 18 May 2019 : One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades, by the groomer. 19 May 2019: The dog was lethargic. 21 May 2019: The dog started to have diarrhea. 23 May 2019: The dog recovered. No further medical information is expected.
23-May-2019	UAE; 19US029049;	**Species:** Canine **Breed:** Medium	2	2	0	**Product used:** FIPRONIL	01-Apr-2019	04-May-2019	4 Week(s) 4 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 May 2019 the pet owner reported the following event for 2 unknown, 33-39 pound, male

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	WV; U.S.A	crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 33 - 39 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					medium crossbred (10kg-20kg) canines. 1 Apr 2019: The owner applied 1 vial of FRONTLINE PLUS DOG 23-44 LBS (UNKNOWN) to the skin between the shoulder blades for the first time. 3 May 2019: The owner applied the most recent dose. 4 May 2019: The owner found 4-5 ticks on each of the dogs over a 2 week period all were small in size, alive, attached and engorged. The owner removed all of ticks as he finds them. The dogs did not present to the vet clinic. The dogs have access to 3 acres of grassy area with tall grass that the dogs avoid. No further medical information expected. UPDATE 21 JUN 2019: After internal review, corrected Evernt start and end date fields and corrected Veddra code to LOE.
24-May-2019	UAE; 19US029058; NC; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Mixed **Age:** 3.00 Year(s) **Weight:** 90.000 - 98 lbs	5	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Adams Flea and Tick spray; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	02-Mar-2019	14-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: Suspected Lack of Efficacy Claim: On 24 May 2019, the pet owner reported the following event for 3 dogs, mixed sexes, 90-98 pounds, 3 years old, Mixed Breeds/ Various. Unknown dates: The pet owner has treated the dogs with Adams Flea and Tick spray. 2 Mar 2019: The pet owner first noticed 5* fleas and 10* alive attached ticks on the body of the dogs. The pet owner applied one dose of FRONTLINE PLUS DOG 89-132 LBS (R62309AR) topically to skin between the shoulder blades of the dogs for the first time this year. 14 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 89-132 LBS (R62309AR) topically to skin between the shoulder blades of the dogs with 5* fleas and 10* ticks still present on his body. 24 May 2019: The dogs were in good health at time of application. The dogs were not presented to veterinarian. The home environment has not been treated by pet owner. The pet owner has not seen any fleas in the home. The dogs have no history of skin problems or any other issues with topical treatments. The dogs have had flea problem before in the past. The dogs have not received any other medications or topical treatments. The dogs have not been bathed. The dogs are strictly outdoors. The current status of the dogs are unknown. The dogs share home with 2 other dogs that have no flea issues. No further medical information.
24-May-2019	UAE; 19US029068; MA; U.S.A	**Species:** Canine **Breed:** Australian Cattle Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 47 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK LYME - 2126.R0; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-May-2019*	23-May-2019	22 Day(s)	D-C	Suspected Lack of Efficacy Claim: On 24 May 2019, the veterinarian reported the following event for Roo, a 4 year old (16 Apr 2015), 47 pound, spayed female, Australian Cattle Dog Mix. 23 Nov 2015: She was diagnosed Lyme antigen negative via a routine Snap 3Dx test. She received a RECOMBITEK LYME (lots and expirations unknown) 1 mL SC in the Left Hind on 23 Nov 2015, 18 Dec 2015 by a technician, 21 Dec 2016 by a technician, 23 Jan 2018 by a veterinarian, and then she recieved her annual continuation of the vaccine on 23 May 2019 (42235, 19 Dec 2020). 23 May 2019: She was diagnosed Lyme antigen positive via a routine Idexx 4Dx test, but was non-symptomatic. A Quant C6 has not been performed, but blood has been drawn for the test. No treatments have been initiated. Her current condition is ongoing. Owner states Roo is on FRONTLINE(unsubstantiated)(lot and expiration unknown) but the dates are unknown). Another animal of different signalment was reported at the same time with a lack of efficacy, see case 19US029064. No further medical information expected.

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											UPDATE 24 May 2019: Per clinic phone call. The Quant C6 returned a result of 60. No further information is expected. UPDATE 6 Jun 2019: Per medical records received 5 Jun 2019: Patient is being treated with doxycycline. UPDATE 19 Jul 2019: Per medical records, the IDEXX Quant C6 was repeated on 14 Jul 2019 with a result of 34. No further information is expected.
24-May-2019	UAE; 19US029080; NJ; U.S.A	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Indication not indicated / recommended)	24-May-2019	24-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 24 May 2019, the pet owner reported the following event for Marshall a feline, male neutered, 10 pounds, 1 year old, Persian. 24 May 2019: The pet owner applied one dose of FRONTLINE FOR CATS (R41005AW) topically to skin on the side of the neck to Marshall. After approximately 10* minutes post application the pet owner noticed Marshall drooling. Marshall was in good health at time of application. Marshall was not presented to veterinarian. Marshall has not had any other products at the same time as the FRONTLINE PLUS CATS application. Marshall does not have history of drug or vaccine reactions. Marshall has had FRONTLINE prior to reaction. Marshalli is currently at home with ongoing issue. No further medical information.
24-May-2019	UAE; 19US029095; FL; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Mixed **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-May-2019	24-May-2019	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, Animal owner reported the following event for her 3 dogs. 02 Mar 2019: The pet owner found approximately 50 fleas and bathed the dogs in a flea and tick shampoo. 2 hours after the bath, the pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S61006AL) topically behind the shoulder blades for the first time. 02 Apr 2019: the pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S61006AL) topically behind the shoulder blades 04 May 2019: the pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S61006AL) topically behind the shoulder blades 17 May 2019: The pet owner had the yard treated. 24 May 2019: The pet owner is still seeing approximately 50 fleas. The owner stated the fleas are not dead or look like they are dying and havent seen fleas in the home. No other pets in the home. No further information expected.
24-May-2019	UAE; 19US029104; SC; U.S.A	**Species:** Canine **Breed:** Welsh Corgi **Sex:** M **Sex qualifier:** - **Age:** 14.00 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** dawn dish soap; Sargeant dog shampoo; **Route:** Topical / Cutaneous **Was the product used**	16-May-2019	17-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, the pet owner reported the following event for PoohBear a male intact, 30 pound, 14 year old, Welsh Corgi/Dachshund crossbreed. 16 May 2019: The pet owner bathed PoohBear with Dawn dish soap and Sargeants dog shampoo. The pet owner applied one dose of FRONTLINE PLUS DOG 23-44 LBS (S61009AL) topically to skin between the shoulder blades of PoohBear for the first time this year. 17 May 2019: The pet owner noticed 15+ fleas on the body of PoohBear. 24 May 2019: PoohBear was in good health at time of application. PoohBear was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. PoohBear has no history of skin problems or any other issues with topical treatments. PoohBear

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						ok?: Yes					has not had flea problem before in the past. PoohBear has not received any other medications or topical treatments. PoohBear has not been bathed. PoohBear is indoors and outside in fenced yard. The current status of PoohBear is unknown. No further medical information.
24-May-2019	UAE; 19US029135; KS; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 55 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown dog shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Jan-2019*	24-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, the owner reported the following event for Ida, a 55 pound, 6 year old, spayed female Golden Retriever mix. *24 Jan 2019: The dog had fleas and one vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied to the skin between the shoulder blades for the first time and continued to be treated monthly. 25 Jan 2019: The dog continued to have fleas. 24 May 2019: The most recent dose was applied. The dog has had fleas off and on throughout each month and she does have FAD. There are no fleas in the home and the dog goes outside for potty breaks. The dog is bathed once a month with an unknown dog shampoo. There are no other dogs in the home. No further information available.
24-May-2019	UAE; 19US029144; -; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 7 - 15 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	20-May-2019	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, the owner reported the following event for two 7 to 15 pounds , Chihuahuas (all other signalments unknown). 29 Apr 2019: The dogs were bathed with an unknown flea shampoo. 30 Apr 2019: The first vial of the season of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades, by the pet owner. 20 May 2019: The dogs had a large amount of fleas. The dogs are strictly indoors. The pet owner stated that there are no fleas in the home. No fleas were seen before first application of the product. No further medical information is expected.
24-May-2019	UAE; 19US029167; -; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 12.50 Year(s) **Weight:** 17.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; Doxycycline; Hydroxyzine; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2019	24-May-2019	24 Day(s)	D-C	Suspected Adverse Event: On the 24 May 2019, a pet owner reported the following event for Kiki, a 17.5 pound, 12.5 year old, spayed female, Shih Tzu Mix. 30 Apr 2015: The dog started on monthly FRONTLINE PLUS DOG 5-22 LBS (S62106AL), with 1 dose applied topically between the shoulder blades, and HEARTGARD PLUS (68MCG/57 MG) (lot and expiry unknown) with 1 dose administered PO, monthly by the pet owner without any issues. 30 Apr 2019: The most recent dose of FRONTLINE PLUS was applied topically. 1 May 2019: The most recent dose of HEARTGARD PLUS was administered PO. 9 May 2019: The dog was started on Doxycycline and Hydroxyzine for allergies for 30 days. 24 May 2019: The veterinarian contacted the pet owner to advise that the dogs liver enzymes were elevated via an unknown blood work performed. The dog has also lost an unknown amount of weight. The dog has not been treated with anything as of yet. No further medical information expected.
24-May-2019	UAE; 19US029212; -; U.S.A	**Species:** Canine **Breed:** Mastiff **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S	30-Apr-2019*	30-Apr-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 24 May 2019 the pet owner reported the following event for Tiny, an 8 month old, 75 pound*, intact male Mastiff mix.

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		Sex qualifier: - **Age:** 8.00 Month(s) **Weight:** 75 lbs				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					30 Apr 2019*: The owner administered FRONTLINE PLUS FOR DOGS 45-88 LBS (S61313AR) topically between the dog's shoulder blades. Approximately 45 minutes after administration, the dog vomited and recovered immediately after without treatment. Per the owner, the dog has a history of ingesting various sticks and dirt in the yard. No further medical information expected. The dog experienced a similar reaction with FRONTLINE PLUS administration in May 2019, see case 19US029220
24-May-2019	UAE; 19US029220; -; U.S.A	**Species:** Canine **Breed:** Mastiff **Sex:** M **Sex qualifier:** - **Age:** 8.00 Month(s) **Weight:** 75 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-May-2019	24-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 24 May 2019 the pet owner reported the following event for Tiny, an 8 month old, 75 pound*, intact male Mastiff mix. 24 May 2019: The owner applied one dose of FRONTLINE PLUS FOR DOGS 45-88 POUNDS (S61313AR) topically between the shoulder blades. Within 1 hour of application, the dog began heaving as if he were about to vomit. He did not vomit and recovered without treatment within 1 hour. Per the owner the dog has a history of ingesting various sticks and dirt from the backyard. The dog experienced a similar reaction after FRONTLINE PLUS administration in Apr 2019, see case 19US029212. No further medical information expected.
24-May-2019	UAE; 19US029232; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-May-2019	24-May-2019	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, Animal owner reported the following event for her 3 dogs. 23 May 2019: The pet owner noticed fleas on her three dogs and applied the full contents of FRONTLINE PLUS DOG 23-44 LBS (Lot unknown). 24 May 2019: The pet owner is still seeing fleas. The owner stated she shares custody with her ex and does not know if the dogs have been treated before. The owner declined reporting any case details. No further information expected.
24-May-2019	UAE; 19US029252; CA; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 18 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2018*	15-Jun-2018*	N/A	D-C	Suspected Adverse Event: On 24 May 2019, the owner reported the following event for Maggie, a 18 pound, spayed female Terrier (age unknown by reporter). *June 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the skin between the shoulder blades. On an unknown date following the treatment the dog started air biting. She would air bite in the evening and it would happen sporadically. The owner continued to treat monthly. *August 2018: The FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was stopped and the dog recovered. There were two other treated dogs in the home who did not have a reaction. No further information available.
24-May-2019	UAE; 19US029302; FL; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** M **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	17-May-2018*	20-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, the animal owner reported the following event for Buddy, a 8 year old*, 19.0 pound, neutered male Miniature Schnauzer Poodle Mix. 17 May 2019: He received FRONTLINE PLUS DOG 5-22 LBS (S63009BL) one tube applied topically to the back of the neck. 20 May 2019: The owner noted a large amount of fleas on both

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		Age: 8.00 Year(s) **Weight:** 19.0 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					dogs. The owner is not seeing fleas inside the home off of the dogs. The yard is well maintained grass environment. The canines have not presented to the veterinary clinic. No treatments have been initiated. They ave not being bathed. He has previously received FRONTLINE PLUS monthly since approximately May 2018* with no previous issues. There is only one other canine in the household (see case 19US029306) which has also had FRONTLINE PLUS applied. No further medical information expected.
24-May-2019	UAE; 19US029306; FL; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 17.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-May-2018*	20-May-2019	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, the animal owner reported the following event for Sadie, a 8 year old*, 17.0 pound, spayed female Miniature Schnauzer. 17 May 2019: She received FRONTLINE PLUS DOG 5-22 LBS (S63009BL) one tube applied topically to the back of the neck. 20 May 2019: The owner noted a large amount of fleas on both dogs. The owner is not seeing fleas inside the home off of the dogs. The yard is well maintained grass environment. The canines have not presented to the veterinary clinic. No treatments have been initiated. They have not being bathed. She has previously received FRONTLINE PLUS monthly since approximately May 2018* with no previous issues. There is only one other canine in the household (see case 19US029302) which has also had FRONTLINE PLUS applied. No further medical information expected.
24-May-2019	UAE; 19US029329; PA; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** F **Sex qualifier:** - **Age:** 8.00 Month(s) **Weight:** 50 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Mar-2019	20-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, the owner reported the following event for Daisy, 8 months, 50 pounds, Intact female, Australian Shepherd. 19 Mar 2019: The pet owner purchased a 6 pack of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) and used the first dose. The product has been used on a monthly basis. 19 May 2019 : The most recent vial of the product was applied between the shoulder blades, by the pet owner. 20 May 2019*: The dog had a large amount of fleas. The dog has not been bathed or gone swimming. The dog does not have any skin issues. The owner is not seeing any flea activity in the home. The dog goes outside for potty breaks. There is 1 other dog in the household that is also on FRONTLINE but is not having issues with fleas. No further information. No further medical information is expected.
24-May-2019	UAE; 19US029333; GA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Mar-2019	21-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, the owner reported the following event for Rosie, 2 years old, 11 pounds, spayed female, Chihuahua. 20 Mar 2019: The dog started the FRONTLINE PLUS DOG 5-22 LBS (S60808AL) for the first time on a monthly basis. 20 May 2019: The most recent vial of the product was applied between the shoulder blades, by the pet owner 21 May 2019*: The dog had fleas. The dog has been bathed every 2 weeks with an unknown fleas shampoo. The dog does not have any skin issues. The pet owner stated that they are having flea activity in the home. The dog is mostly indoors but does go outside for bathroom breaks. There is 1 other dog in the home using FRONTLINE PLUS as well with case 19US029334 No further medical information is expected.

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24-May-2019	UAE; 19US029334; GA; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 37 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Mar-2019	21-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 24 May 2019, the owner reported the following event for Arya, 1 year old, 37 pounds, spayed female, Medium crossbred(10-20 kg). 20 Mar 2019: The dog started the FRONTLINE PLUS DOG 23-44 LBS (P61322AL) for the first time on a monthly basis. 20 May 2019: The most recent vial of the product was applied between the shoulder blades, by the pet owner 21 May 2019*: The dog had fleas. The dog has been bathed every 2 weeks with an unknown fleas shampoo. The dog does not have any skin issues. The pet owner stated that they are having flea activity in the home. The dog is mostly indoors but does go outside for bathroom breaks. It is unknown if fleas were seen before application of the product.There is 1 other dog in the home using FRONTLINE PLUS as well with case 19US029333. No further medical information is expected.
28-May-2019	UAE; 19US029338; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-May-2019	23-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 28 May 2019, the owner reported the following event for Jackie, 13 years old, 10 pounds, spayed female, Domestic Shorthair (Crossbred). 22 May 2019: One vial of FRONTLINE PLUS CATS (S40603AW) was applied between the shoulder blades, by the pet owner. 23 May 2019: The cat had a 2 inch burn on the application site. The cat present to clinic and a physical exam was done. No treatment was provided. 28 May 2019:The cat has not recovered. No further medical information is expected. UPDATE 7 June 2019: The pet owner stated that cat is hyperthyroid but it is unknown if cat is on medication for this condition. No further medical information is expected.
28-May-2019	UAE; 19US029351; -; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 62 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Apr-2019	28-May-2019	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, while iniquiring about the expiration of FRONTLINE PLUS, an animal owner reported the following event in May, a 62 pound, female spayed Pitbull. 27 Apr 2019: FRONTLINE PLUS 45 - 88 pounds (lot expiration date unknown) was applied per labeled instructions. 28 May 2019: The animal owner reported seeing a few attached but dead ticks on the canine. Tick species unknown. No further information provided nor expected.
28-May-2019	UAE; 19US029353; NE; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 62.2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-May-2019	25-May-2019	0 Day(s)	D-C	Suspected Adverse Event: On 28 May 2019, the attending veterinarian reported the following event for Rycer, 3 year old, 62.2 pound, neutered male, Border Collie mix canine. 25 May 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (S61101) was applied between the shoulder blades. The dog got into manure and the owner had to hose the dog down. After an unknown period of time the dog experienced shaking, heavy panting, and hypersalivation. The dog recovered after an unknown period of time. 27 May 2019: The dog experiencing the same symptoms. The owner presented the pet to the clinic. The attending veterinarian's exam was normal and he prescribed Prednisone. 28 May 2019: The status of the pet is unknown. The dog has

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											received the product monthly since Jan 2016* with no issue. No further medical information is available. UPDATE 28 May 2019: Veterinarian reports per owner that the patient improved from initial signs by the evening of 25 May 2019 and was normal 26 May 2019. But owner reported that patient was experiencing "convulsions" (unconfirmed) on 27 May 2019, so dog was seen on emergency basis by vet that morning. Veterinarian did not witness any neurological signs except possible slight reduction of dog's pupillary light reflexes bilaterally. No further medical information is expected.
28-May-2019	UAE; 19US029359; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 7 - 12 lbs	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Apr-2019	27-May-2019	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the owner reported the following event for 3 feline, weighing 7- 12 pounds, 4-8 years old, all other signalment unknown. 27 Apr 2019: One vial of the FRONTLINE PLUS CATS (S41006AW) was applied topically as directed by the owner. 27 May 2019: The owner noticed a moderate amount (12 fleas) of fleas on the cats. The pets are indoor/outdoor. The pet has access to an open yard where the neighbor's cat visits. No wildlife has been seen in the area. Fleas have been seen for about a week. The pets have been on FRONTLINE since Mar 2019*. The owner uses seasonally starting in Feb or March every year. No further medical information is expected.
28-May-2019	UAE; 19US029424; TX; U.S.A	**Species:** Canine **Breed:** Retriever (N. Scotia Duck Tolling) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 45 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 68 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-May-2019	28-Apr-2019*	N/A	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the pet owner reported the following event for Brady, an 8 year old, 45 pound, neutered male, Nova Scotia Duck Tolling Retriever. May 2018*: The patient began receiving one chew of NEXGARD (68 mg) (AA190517A, Sep 2019) PO. A chew has since been given monthly around the sixteenth. Apr 2019 (unknown date): The reporter began observing anywhere between 10 to 12 fleas on Brady. Unknown dates: Brady became very pruritic and was observed continually scratching. He was treated with unknown doses of Zyrtec and Capstar. 11 May 2019: One chew of NEXGARD was given orally. 17 May 2019: Due to the ongoing flea issue, the canine received one vial of FRONTLINE PLUS DOG 45-88 LBS (S62111AL) applied topically onto the skin, between the shoulder blades for the first time. Presently, Brady continues to feel pruritic and the pet owner continues to see fleas on him. Brady does occasionally go to doggy day care. There are no fleas seen in the home nor have there been any visiting pets. There are no other dogs or cats in the home, but there are two rabbits who live outside (in a cage). The canine does go on leash walks and the yard is primarily concrete, turf, and has some ivy. No further medical information expected. UPDATE 29 May 2019: Per the clinic, 14 doses of NEXGARD (68 mg) were purchased on 11 Jul 2018. No further medical information expected.
28-May-2019	UAE; 19US029429; FL; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:**	25-Apr-2019	03-May-2019	8 Day(s)	D-C	Suspected Adverse Event: On 28 May 2019, a pet owner reported the following event for Willie Nelson, a 5 year old, 115 pound, neutered male Labrador Retriever. 2015*: The dog began receiving monthly HEARTGARD PLUS (272 MCG/227 MG) (8BC0438, May 2021) PO and monthly FRONTLINE PLUS DOG 89-132 LBS (S6011AR) topically between the shoulder blades.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 115 lbs				IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					25 Apr 2019: The most recent dose of FRONTLINE was applied topically between the shoulder blades. 2 May 2019: The dog began receiving HEARGARD PLUS (68 MCG/57 MG) (7BC0409, Jun 2020) PO for the first time due to his weight. He received 1 chew of each size HEARTGARD. 3 May 2019: The pet owner woke up and found that the dog had vomited grass and then began crying out. An unknown amount of time later, he fell down. The owner thought the dog was having a seizure but the dog never lost control of its bowels and his body didn't twitch. The entire episode lasted no more than 3 minutes. 4 May 2019: The dog presented to the clinic and bloodwork performed revealed no abnormalities. A urinalysis revealed that the dog had a urinary tract infection. It is unknown if any treatments were provided. The pet owner also stated that the dog had been allergy tested at some point and was allergic to everything. The pet owner stated that the dog had never had an issue in the past with HEARTGARD PLUS (272 MCG/227 MG) or the FRONTLINE, but since she recently added in the HEARGARD PLUS (68 MCG/57 MG), the pet owner believes that is what caused the reaction. This is the extent of medical information known.
25-May-2019	UAE; 19US029438; IL; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Month(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-May-2019	23-May-2019	1 Day(s)	D-D	Suspected Adverse Event: On 25 May 2019, a pet owner reported the following event to SafetyCall International (SCI) for Zena, an 11 month old, 50 pound, spayed female mixed breed. 22 May 2019: The owner applied one tube of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) topically in the afternoon. 23 May 2019: In the morning, the dog experienced a one-hour long episode of trembling and panting. The dog seemed to recover and behave normally. 24 May 2019 and 25 May 2019: In the morning, the dog experienced similar episodes apprxomaitely 30 minutes each. No treatment has been provided, the dog has not been to a veterinarian. No further medical information expected.
28-May-2019	UAE; 19US029443; CA; U.S.A	**Species:** Canine **Breed:** Cavalier King Charles **Sex:** M **Sex qualifier:** Neutered **Age:** 3.50 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Apr-2019	26-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the pet owner reported the following event for Bulliet a male neutered, 17 pound, 3.5 year old, Cavalier King Charles. 26 Apr 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS (S60714AX) topically to skin between the shoulder blades to the body of Bulliet on monthly basis. 21 May 2019: The pet owner noticed 5-15* fleas on the body of Bulliet. 26 May 2019: The pet owner bathed Bulliet with unknown shampoo. The pet owner applied one dose of FRONTLINE PLUS DOG 5-22 LBS topically to skin between the shoulder blades of Bulliet with 5-15* fleas on his body. 28 May 2019: Bulliet was in good health at time of application. Bulliet was not presented to veterinarian. The home environment has been treated by pet owner. The pet owner has not seen any fleas in the home. Bulliet has no history of skin problems or any other issues with topical treatments. Bulliet has not had flea problem before in the past. Bulliet has not received any other medications or topical treatments. Bulliet is indoors and outside for walks in fenced yard. The current status of Bulliet is unknown. No further medical information.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
28-May-2019	UAE; 19US029448; NJ; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 55 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-May-2019	26-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 26 May 2019, animal owner contacted Safety Call International (SCI) to report the following event for Millie, a 5 year old, 55 pound, spayed female Golden Retreiver and Standard Poodle mix. On 26 Apr 2019: The pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 45-88 LBS (R61811RA) topically between the shoulder blades for the first time without issue. 26 May 2019: The pet owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS topically between the shoulder blades. 14 hours post administration the pet owner noticed the dog was rolling on her back and acting itchy. The pet owner noted erythema at the application site and mild to moderate periocular erythema. UPDATE: 04 Jun 2019: Per pet owner: The dog was bathed in dawn dish soap, given diphenhydramine and is recovered. No further information expected.
28-May-2019	UAE; 19US029454; -; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2019*	02-Jan-2019*	1 Day(s)	D-A	Suspected Adverse Event: On 28 May 2019, the pet owner reported the following event for a male, German Shepherd of further unknown signalment. Unknown dates: The canine received unknown FRONTLINE (lot unknown) (product unsubstantiated). The volume, route, and location of administration are unknown. An unknown duration following, the canine expired via unknown causes, not provided by the reporter. A second case was reported for another dog who received FRONTLINE. Please see case 19US029461. No further medical information expected.
31-May-2019	UAE; 19US029456; MS; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2019*	01-Jan-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 28 May 2019, the owner reported the following event for Peanut, a 14 year old,14 pound, spayed female Domestic Shorthair. 2019: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The cat experienced strange behavior like the product burned. There was no visible irritation on the pet. The pet did not present to the clinic and no treatment was provided. The cat recovered after an unknown period of time. The pet has received the product since 2005* with the same symptoms. There is 1 other cats and a dog in the household that received the FRONTLINE and experienced symptoms (see case 19US029566, and 19US029456). No further medical information is expected.
28-May-2019	UAE; 19US029461; -; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 57 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	02-Apr-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim/Adverse Reaction: On 28 May 2019, the pet owner reported the following event for a 57 pound, female, German Shepherd of further unknown signalment. Unknown dates: The canine received one vial of unknown FRONTLINE PLUS (lot unknown) (product unsubstantiated) via unknown routes in unknown locations. An unknown duration prior to the most recent unknown FRONTLINE PLUS application, the canine became pruritic. An unknown duration following the most recent application, the reporter observed a single flea on the dog. An unknown time thereafter, she also observed the dog scratching excessively and saw unknown red spots along her abdomen. The reporter suspects the pruritus is due to the grass as the patient has (unspecified) allergies. Since seeing the flea, the reporter has switched the patient to NEXGARD. Presently, the dog's status is unknown. A second case was

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											reported for another dog who previously received unknown FRONTLINE. Please see case 19US029454. No further medical information expected.
24-May-2019	UAE; 19US029500; NM; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 18 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	24-May-2019	24-May-2019	0 Day(s)	D-A	Suspected Adverse Event: On 24 May 2019, the following event was reported to Safety Call International (SCI) by the veterinarian for Ziggy, an 18 pound spayed female Chihuahua of unknown age. 24 May 2019: At approximately 11:00 AM the canine received FRONTLINE PLUS DOG 5-22 LBS (S61006AL) for the first time, unknown dose, route, or application site at the veterinary clinic. At approximately 4:30 PM the pet owner found the canine splayed out on the kitchen floor and had defecated and urinated. Patient had watery stool while on the kitchen floor. The patient presented to the clinic with lethargy, dyspnea, stiffness of the limbs, erythema of both inner ears, and bleeding from the rectum and vulva. The attending veterinarian bathed the patient with an unknown product. The canine expired under unknown circumstances at an unknown time the same date and it is unknown if a necropsy was performed. No further information is available at this time.
28-May-2019	UAE; 19US029548; IL; U.S.A	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** - **Age:** 7.00 Month(s) **Weight:** 40 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Mar-2019	27-May-2019	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, a pet owner reported the following event for Aspen, a 7 month old (born 29 Oct 2018), 40 pound, intact female Standard Poodle. 21 Mar 2019: The pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 23-44 LBS (Lot Unknown) topically in a line down the back once monthly. 21 May 2019: The most recent dose was applied. 27 May 2019: The dog received a bath and the owner noticed a black spot above one of her eyes and noticed that it was a tick. She also found 3 other ticks attached to the dog's ear. All of the ticks were different sizes and were alive and engorged. The pet owner removed all 4 ticks. The pet owner lives in an apartment and takes her dog for a walk every day. There are 2 other toy poodles in the home that do not share product as they do not go outside, and 1 other dog in the home that is on FRONTLINE and also had ticks, see case 19US029627. The owner gives the dog a bath at least twice a week. No further medical information expected.
28-May-2019	UAE; 19US029566; MS; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 80 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2019*	01-Jan-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 28 May 2019, the owner reported the following event for 2 canines, 80 pounds (all other signalments unknown). 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. The dogs experienced strange behavior like the product burned. There was no visible irritation on the pet. The pet did not present to the clinic and no treatment was provided. The dogs recovered after an unknown period of time. Both pets received the product on prior unknown dates with the same symptoms. There are 2 other cats in the household that received the FRONTLINE and experienced symptoms (see case 19US029456, and 19US030456). No further medical information is expected.
28-May-2019	UAE; 19US029572; NJ; U.S.A	**Species:** Canine **Breed:** American Bully **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	21-May-2019	21-May-2019	0 Day(s)	D-D	Suspected Adverse Event: On 29 May 2019, the owner reported the following event for the Bailey, a 75 pound, 6 year old, female, neutered, American Bully. 21 May 2019: One vial of FRONTLINE PLUS DOG 45-88 LBS (Lot Unknown) was applied topically in one location in-between the

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		Neutered **Age:** 6.00 Year(s) **Weight:** 75 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					shoulder blades by the pet owner. Within 24 hours the owner noticed skin irritation at the application site and around the pets body with pus filled bumps and reactive to touch on the skin. 24 may 2019: The pet was presented to the clinic and given Benadryl tablet, a Steroid injection and an unknown antibiotic. 28 May 2019: The pet's symptoms are ongoing. The pet has used FRONTLINE PLUS DOG 45-88 LBS in the past with no reactions on a year round basis since May 2017. There is another pet in the home that had a similar reaction see case 19US029910. No further medical information expected at this time.
28-May-2019	UAE; 19US029622; SC; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 35 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-May-2019	13-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the owner reported the following event for 2, 35 pounds, canines (all other signalements unknown). 12 May 2019: The first vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied between the shoulder blades, by the pet owners. 13 May 2019*: The dogs had a moderate amount of fleas. The dogs have not been bathed and do not have any skin issues. The owner is not seeing any indoor flea activity. The dogs are primarily outdoors. The dogs are in a fenced in yard. There are 2 other dogs in the household but are on another product. It is unknown if fleas were seen before the application. No further medical information is expected.
28-May-2019	UAE; 19US029623; TX; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 15 - 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Mar-2019	13-May-2019	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the pet owner reported the following event for Moo, a 15 to 20 pound*, 8 year old, female spayed, Domestic Shorthair (Crossbred). Mar 2019: The cat was having an issue with fleas. 13 Mar 2019: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat in one area between the shoulder blades. The owner was seeing large amount of fleas present on the cat every day after the application. 13 Apr 2019: 1 vial of FRONLTINE PLUS CATS was applied to the cat. The owner was seeing large amount of fleas ont he cat every day after the application. 13 May 2019: 1 vial of FRONTLINE PLUS CATS was applied to the cat. The owner has been seeing large amount of fleas on the cat everyday since the application. The cat is indoors only. The owner treats year round with different flea and tick prevention. There are fleas in the home biting the humans. The cat has not had a bath and has no history of skin issues.
28-May-2019	UAE; 19US029627; IL; U.S.A	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** - **Age:** 7.00 Month(s) **Weight:** 46 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	21-Mar-2019	27-May-2019	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, a pet owner reported the following event for Jasmine, a 7 month old (born 29 Oct 2018), 46 pound, intact female Standard Poodle. 21 Mar 2019: The pet owner applied the full contents of 1 vial of FRONTLINE PLUS DOG 23-44 LBS (Lot Unknown) topically in a line down the back once monthly. 21 May 2019: The most recent dose was applied. 27 May 2019: The dog received a bath and the owner noticed 4-5 ticks on the dog's tail. All of the ticks were different sizes and were alive and engorged. The pet owner removed all of the ticks. The pet owner lives in an apartment and takes her dog for a walk every day. There are 2 other toy poodles in the home that do not share product as they do not go outside, and 1 other dog in the home that is on FRONTLINE and also had ticks, see case

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											19US029548. The owner gives the dog a bath at least twice a week. No further medical information expected.
28-May-2019	UAE; 19US029650; CA; U.S.A	**Species:** Feline **Breed:** Ragdoll **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Mar-2019	28-May-2019	24 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the owner reported the following event for Calypso, a 9 year old, 10 pound, spayed female Ragdoll. 4 Mar 2019: The cat began receiving monthly doses of FRONTLINE PLUS FOR CATS (lot and expiration unknown). 28 May 2019: The owner observed more than 10 fleas on the cat. No fleas were observed in the home. The cat does not go outside and is not bathed. There is one other cat in the home who also receives FRONTLINE PLUS FOR CATS, see case 19US029672. No further medical information expected.
28-May-2019	UAE; 19US029672; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Mar-2019	28-May-2019	24 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the owner reported the following event for Little Kitty, an 8 year old, 8 pound, spayed female Domestic Shorthair. 4 Mar 2019: The cat began receiving monthly doses of FRONTLINE PLUS FOR CATS (lot and expiration unknown). 28 May 2019: The owner observed more than 10 fleas on the cat. No fleas were observed in the home or on the cat prior to FRONTLINE PLUS administration. The cat does not go outside and is not bathed. There is one other cat in the home who also receives FRONTLINE PLUS FOR CATS, see case 19US029650. No further medical information expected.
28-May-2019	UAE; 19US029673; NY; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** X **Sex qualifier:** - **Age:** 6.00 Year(s) **Weight:** 71.000 - 75 lbs	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-May-2019	21-May-2019*	0 Day(s)	D-D	Suspected Adverse Event: On 28 May 2019, the pet owner reported the following event for Gypsy, a female intact, non-pregnant non-lactating, 75 pounds, 10 year old, Australian Shepherd and Jagger, a male neutered, 71 pounds, 6 year old, Australian Shepherd. 21 May 2019: The pet owner applied one dose of FRONTLINE PLUS DOG 45-88 LBS (S62111AL) topically to skin between the shoulder blades to each dog for the first time this year. After unknown period of time after application the dogs were begininning to chew off fur at feet and legs which caused bleeding . 28 May 2019: The dogs were in good health at time of application. The dogs were not presented to veterinarian. The dogs have not had any other products at the same time as the FRONTLINE PLUS DOG 45-88 LBS application. The dogs does not have history of drug or vaccine reactions. The dogs had fleas at time of dosing. The dogs have had FRONTLINE prior to reaction in the past 3* years ago. The dogs are indoors and outside. The dogs are currently at home with ongoing issue. No further medical information
28-May-2019	UAE; 19US029684; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 89 - 95	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	07-May-2019*	08-May-2019*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 May 2019, the owner reported the following event for 3 dogs approx. 89-95 pounds each (all other signalments unknown). 1 Feb 2019*: Started on monthly doses of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) topically, in unknown location, by the owner. 7 May 2019*: Most recent dose of FRONTLINE was applied. An unknown date after the application, the owner started seeing a

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		lbs				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					moderate amount fleas on the dogs. The owner is seeing fleas in the home where the dogs frequent. The dogs go outside for potty breaks in a fenced in yard and for walks in the neighborhood. There are trees and bushes. There are also 4 cats that are strictly outdoor and are treated with an unknown 3 month shot for fleas. No further medical information expected.
28-May-2019	UAE; 19US029687; VA; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Apr-2019*	12-Jul-2019	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, a pet owner reported the following event for Grizzly, a 9 year old (born 1 Apr 2010), 16 pound, Shih Tzu. 26 Apr 2019*: The dog received 1 application of FRONTLINE PLUS DOG 5-22 LBS (R62514AL), topically for the first time. An unknown amount of time later, the dog started scratching. It is unknown if the scratching was continuous or resolved. 26 May 2019: The dog received the most recent application. An unknown amount of time later, the dog was scratching. It is unknown if the scratching was continuous or resolved. 28 May 2019: The pet owner noticed that the dog was scratching and saw a live flea on the dog. The dog has access to a fenced in yard with grass, no crawl spaces or decks. The dog goes to the groomer every 4-5 weeks, and does not have a history of skin issues. The owner is unsure if fleas were noticed prior to starting on FRONTLINE. There is 1 other dog in the house that shares product and also has a case, see 19US029974. No further medical information expected. UPDATE 15 Jul 2019: Per the owner, most recent application of FRONTLINE was on 28 Jun 2019. 12 Jul 2019: The owner was still seeing fleas. No further medical information expected.
28-May-2019	UAE; 19US029696; NC; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2019*	21-May-2019	N/A	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the owner reported the following event for a unknown feline, weighing 15 pounds, 10 years old, female, all other signalment unknown. May 2019*: The cat received FRONTLINE PLUS CATS (lot unknown) 1 vial topically, location unknown, on 1 May 2019*, on May 2019*, and on 27 May 2019. The owner noticed a moderate amount of fleas on the cat. The pet is indoor only. It is unknown if wildlife or strays are in the area. Fleas have been seen for about a week. The pet has been on FRONTLINE since 1 May 2019* and the owner applied all 3 doses over the past month. The owner has just adopted the cat from a family and does not have past history of treatment or purchases of the product. No further medical information is expected.
28-May-2019	UAE; 19US029701; MI; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Month(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018	20-May-2019	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: On the 28 May 2019, a pet owner reported the following event for Cody, an 11 pound, 9 month old, neutererd male, Cocker Spaniel and standard poodle Mix. 1 Mar 2018: The dog started on monthly FRONTLINE PLUS DOG 5-22 LBS (S624) (Invalid) with 1 dose applied topically between the shoulder blades by the pet owner. 1 May 2019: The most recent dose was applied topically by the pet owner. 20 May 2019: The pet owner started seeing a moderate amount of fleas on her dog (5-15 fleas). Her dog does spend the majority of the time outside in the yard but he does go iside the home as well. He loves to play in the mud, so the owner bathes him frequently. The pet owner is only seeing the fleas on her dog and not inside

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											the home. There are 3 other pets in the home. There is 1 dog that is larger in size and 2 cats. All of the animals in the home are on FRONTLINE PLUS and they do not have any fleas. The issue is ongoing. No further medical information available.
28-May-2019	UAE; 19US029714; CT; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Month(s) **Weight:** 35 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2019*	10-May-2019	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the owner reported the following event for Teddy a male neutered , 10 month old, 36 pound, Shetland Sheepdog. 1 May 2019: One vial of the FRONTLINE PLUS DOG 23-44 LBS (P0204AL) was applied topically as in between the shoulder blades by the owner. May 2019*: The Owner noticed a small amount of ticks on the pet.The ticks were embedded and still alive but not engorged. 10 May 2019: The pet was presented to the clinic, and diagnosed with Anaplasmosis and the pet was prescribed Doxycycline . The pet is indoor mostly and goes outside for potty breaks and recreation, leashed walked within an open yard. Wildlife has been seen in the area. The owner has used uses FRONTLINE on the pet since April of 2019*. No further medical information is expected.
28-May-2019	UAE; 19US029718; MO; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-May-2019	01-May-2019*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019, the owner reported the following event for a 10 pound cat (signalment unknown). 2018: The cat had issues with ticks in Oct 2018 while on FRONTLINE PLUS CATS (lot unknown). It is unknown if the ticks issue resolved after that time. *May 2019: On an unknown date the cat was treated with FRONTLINE PLUS CATS (lot unknown) and on an unknown date the owner found three engorged ticks. The cat is treated monthly year round and is an outdoor cat. No further information available.
29-May-2019	UAE; 19US029728; WI; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hartz shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	18-May-2019	28-May-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019 an animal owner reported the following event in Cooper, a 9 year old, 12 pound, male neutered, Chihuahua Dachau mix. 18 Dec 2018*: FRONTLINE PLUS DOGS 5-22 LBS (lot, expiration unknown) was applied for the first time for preexisting flea condition. 18 May 2019: FRONTLINE PLUS was applied 28 May 2019: Animal owner states that she is still seeing fleas on the animal. The canine has access to the outdoors. There are 2 other pets in the home reported in cases 19US29745 and 19US029746. All of the animals receive FRONTLINE every 3 weeks. The animal owner states that she bathes the animals in Hartz shampoo every 2 weeks at least 72 hours post FRONTLINE PLUS administration. No further information provided nor expected.
29-May-2019	UAE; 19US029745; WI; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	18-May-2019	28-May-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019 an animal owner reported the following event in Roxie, a 1 year old, 60 pound, female spayed, Boxer. 18 Dec 2018*: FRONTLINE PLUS DOGS 45-88 LBS (lot,

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		Neutered **Age:** 1.00 Year(s) **Weight:** 60 lbs				9% SPOT ON **Other products used:** Hartz Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					expiration unknown) was applied for the first time for preexisting flea condition. 18 May 2019: FRONTLINE PLUS was applied 28 May 2019: Animal owner states that she is still seeing fleas on the animal. The canine has access to outdoors. There are 2 other pets in the home reported in cases 19US29728 and 19US029746. All of the animals receive FRONTLINE every 3 weeks. The animal owner states that she bathes the animals in Hartz shampoo every 2 weeks at least 72 hours post FRONTLINE PLUS administration. No further information provided nor expected.
29-May-2019	UAE; 19US029746; WI; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Hartz Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	18-May-2019	28-May-2019	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 28 May 2019 an animal owner reported the following event in Smokey, a 3 year old, 10 pound, male neutered Siamese. 18 Dec 2018*: FRONTLINE PLUS CATS (lot, expiration unknown) was applied for the first time for preexisting flea condition. 18 May 2019: FRONTLINE PLUS was applied 28 May 2019: Animal owner states that she is still seeing fleas on the animal. The canine has access to outdoors. There are 2 other pets in the home reported in cases 19US29728 and 19US029745. All of the animals receive FRONTLINE every 3 weeks. The animal owner states that she bathes the animals in Hartz shampoo every 2 weeks at least 72 hours post FRONTLINE PLUS administration. No further information provided nor expected.
28-May-2019	UAE; 19US029747; WI; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 26 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2019*	28-May-2019	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 May 2019, the owner reported the following event for a 26 pound dog (signalment unknown). History: Dog has had an issue with ticks for a week prior to treatment. 8 May 2019: One vial of FRONTLINE PLUS 23-44 LBS (S61009) was applied to the skin between the shoulder blades for the first time. 28 May 2019: The owner removed 6 wood ticks off the dog, that were attached. The dog is exposed to a grass yard and there is one other dog treated dog in the home who also is having a tick issue. See case 19US029749. No further information available. UPDATE 07 Jun 2019: The reason for assessment was corected.
28-May-2019	UAE; 19US029749; WI; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 48 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	08-May-2019*	28-May-2019	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 29 May 2019, the owner reported the following event for a 48 pound dog (signalment unknown). History: Dog has had an issue with ticks for a week prior to treatment. 8 May 2019: One vial of FRONTLINE PLUS 45-88 LBS (S62111) was applied to the skin between the shoulder blades for the first time. 28 May 2019: The owner removed 6 wood ticks off the dog, that were attached.

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