ASPECT Chemical Results Summary
Response: South 4 Group Fire Port Neches, TX

Date	Flight	Run	Location	Time (UTC)	Chemical	Max Concentration ppm
27-Nov-19	Flight 1	1	Test	1347	Test	Test
		2	Test	1350	Test	Test
		3	SW perimeter of facility	1407	ND	None
		4	SW Residential 1.8km SW	1414	ND	None
		5	SW Residential 2.8km SW	1426	ND	None
		6	Length of plume; upwind	1429	ND	None
		7	400m Downwind of fires	1441	ND	None
		8	100m Upwind of fires	1449	ND	None
		9	100m Downwind of fires	1500	ND	None
		10	100m Downwind of fires	1511	ND	None
		11	Length of plume; upwind	1515	ND	None
		12	100m Downwind of fires	1524	ND	None
	Flight 2	1	Test	1741	Test	Test
		2	100m Downwind of fires	1751	ND	None
		3	100m Downwind of fires	1804	ND	None
		4	100m Downwind of fires	1825	ND	None
		1	Test	2226	Test	Test
		2	Test	2227	Test	Test
		3	Test	2231	Test	Test

	Flight 3	4	Test	2232	Test	Test
		5	100m Downwind of fires	2239	ND	None
		6	100m Downwind of fires	2249	ND	None
		7	100m Downwind of fires	2306	ND	None
ND = No Detections						

ASPECT Chemical Results Summary
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Date	Flight	Run	Location	Time (UTC)	Chemical	Max Concentration ppm
30-Nov-19	Flight 6	1	Test	1340	Test	Test
		2	Test	1342	Test	Test
		3	100m Downwind of fires	1354	ND	None
		4	100m Downwind of fires	1410	ND	None
		5	100m Downwind of fires	1424	ND	None
		6	200m Downwind of fires	1430	ND	None
		7	300m East Perimeter Upwind	1436	ND	None
		8	200m East Perimeter Downwind	1443	ND	None
		9	0m Over Fires	1449	ND	None
		10	Route 366 and Main St	1500	ND	None
		11	Grigsby Ave and Main St	1506	ND	None
	Flight 7	1	Test	1515	Test	Test
		2	Test	1516	Test	Test
		3	100m Downwind of fires	1525	Test	Test
		4	Along the plume	1534	Test	Test
		5	Over the Neches River	1542	ND	None
		6	Over the Nexhes River	1551	ND	None
ND = No Detections						

ASPECT Chemical Results Summary
Response: South 4 Group Fire Port Neches, TX

Date	Flight	Run	Location	Time (UTC)	Chemical	Max Concentration ppm
1-Dec-19	Flight 1	1	Test	1520	Test	Test
		2	Test	1522	Test	Test
		3	100m Downwind of fires	1533	ND	None
		4	Canal	1541	Isobutylene	1 (est.)
		5	Canal	1546	ND	None
		6	Canal	1552	ND	None
		7	Canal	1601	ND	None
		8	Canal	1609	ND	None
		9	Canal	1638	ND	None
	Flight 2	1	Test	2123	Test	Test
		2	100m Downwind of fires	2132	ND	None
		3	500m Downwind of fires	2137	Isobutylene	1.7 (est.)
		4	1000m Downwind of fires	2142	ND	None
		5	Upwind over site	2147	Test	Test
		6	100m Upwind	2152	Test	Test
		7	Canal	2205	Test	Test
		8	Canal Near Neches River	2211	Test	Test
		9	500m Downwind of fires	2221	Isobutylene	1.7 (est.)
ND = No Detections						

ASPECT Chemical Results Summary
Response: South 4 Group Fire Port Neches, TX

Date	Flight	Run	Location	Time (UTC)	Chemical	Max Concentration ppm
2-Dec-19	Flight 1	1	Test	1333	Test	Test
		2	Test	1336	Test	Test
		3	100m Downwind of site	1349	ND	None
		4	500m Downwind of site	1354	ND	None
		5	1000m Downwind of site	1400	ND	None
		6	Upwind over site	1407	ND	None
		7	100m Downwind of site	1416	ND	None
		8	100m Upwind of site	1424	ND	None
		9	Drainage Canal	1431	ND	None
		10	Canal to Neches River	1437	ND	None
	Flight 2	1	Test	2137	Test	Test
		2	Test	2139	Test	Test
		3	100m Downwind of site	2153	ND	None
		4	500m Downwind of site	2158	Isobutylene	1.57
		5	100m Downwind of site	2202	ND	None
		6	1000m Downwind of site	2207	ND	None
		7	Upwind over site	2212	ND	None
		8	100m Upwind of site	2217	ND	None

		9	Drainage Canal	2222	ND	None
		10	Canal to Neches River	2227	ND	None
ND = No Detections						

ASPECT Chemical Results Summary
Response: South 4 Group Fire Port Neches, TX

Date	Flight	Run	Location	Time (UTC)	Chemical	Max Concentration ppm
3-Dec-19	Flight 1	1	Test	1336	Test	Test
		2	Test	1338	Test	Test
		3	100m Downwind of site	1352	ND	None
		4	500m Downwind of site	1355	ND	None
		5	1000m Downwind of site	1359	ND	None
		6	Upwind over site	1404	ND	None
		7	100m Upwind of site	1408	ND	None
		8	Drainage Canal	1414	ND	None
		9	Canal to Neches River	1418	ND	None
	Flight 2	1	Test	2027	Test	Test
		2	100m Downwind of site (extended 1300m West)	2039	Test	Test
		3	500m Downwind of site (extended 1300m West)	2043	ND	None
		4	1000m Downwind of site (extended 1300m West)	2048	ND	None
		5	Upwind over site	2053	ND	None
		6	100m Upwind of site (extended 1300m West)	2058	1,3-butadiene Aromatics	0.93 (est) <1 (est)

		7	100m Upwind of site (extended 1300m West)	2109	ND	None
ND = No Detections						

Chemical Detection Algorithms (Detection limits in ppm*m)

Acetic Acid (2.0)	Cumene (23.1)	Isoprene (6.5)
Acetone (5.6)	Diborane (5.0)	Isopropanol (8.5)
Acrolein (8.8)	1,1-Dichloroethene (3.7)	Isopropyl Acetate (0.7)
Acrylonitrile (12.5)	Dichloromethane (6.0)	MAPP (3.7)
Acrylic Acid (3.5)	Dichlorodifluoromethane (0.7)	Methyl Acetate (1.0)
Allyl Alcohol (5.3)	Difluoroethane (0.8)	Methyl Ethyl Ketone (7.5)
Ammonia (2.0)	Difluoromethane (0.8)	Methanol (5.4)
Arsine (18.7)	Ethanol (6.3)	Methylbromide (60.0)
Bis-Chloroethyl Ether (1.7)	Ethyl Acetate (0.8)	Methylene Chloride (6.0)
Boron Tribromide (0.2)	Ethyl Formate (1.0)	Methyl Methacrylate (1.1)
Boron Triflouride (5.6)	Ethylene (5.0)	MTEB (3.0)
1,3-Butadiene (5.0)	Formic Acid (5.0)	Naphthalene (3.8)
1-Butene (12.0)	Freon 134a (0.8)	n-Butyl Acetate (3.8)
2-Butene (18.8)	GA (Tabun) (0.7)	n-Butyl Alcohol (7.9)
Carbon Tetrachloride (0.2)	GB (Sarin) (0.5)	Nitric Acid (5.0)
Carbonyl Chloride (0.8)	Germane (1.5)	Nitrogen Trifluoride (2.0)
Carbon Tetraflouride (0.1)	Hexafluoroacetone (0.4)	Phosphorus Oxychloride (2.0)
Chlorodifluoromethane (0.6)	Isobutylene (15.0)	Propyl Acetate (0.7)

Propylene (3.7)
Propylene Oxide (6.8)
Silicon Tetrafluoride (0.2)
Sulfur Dioxide (15.0)
Sulfur Hexafluoride (0.07)
Sulfur Mustard (6.0)
Nitrogen Mustard (2.5)
Phosgene (0.5)
Phosphine (8.3)
Tetrachloroethylene (10.0)
1,1,1-Trichloroethane (1.9)
Trichloroethylene (2.7)
Trichloromethane (0.7)
Triethylamine (6.2)
Triethylphosphate (0.3)
Trimethylamine (9.3)
Trimethyl Phosphite (0.4)
Vinyl Acetate (0.6)