Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79218.D
Acq On : 18 May 2017 5:57 am
Operator : BridgetK
Sample : jc43354-7
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Time: May 18 13:45:06 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.555	65	133379	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	182601	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	273454	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	233590	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	120077	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	96953	53.58	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 107.16%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	107513	54.44	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 108.88%			
75) toluene-d8 (s)	12.709	98	303948	50.27	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.54%			
99) 4-bromofluorobenzene (s)	15.372	95	110953	49.92	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.84%			
Target Compounds						Qvalue
46) 1,1,1-trichloroethane	10.187	97	4619	1.48	ug/L	89
80) tetrachloroethene	13.369	164	1718	1.02	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

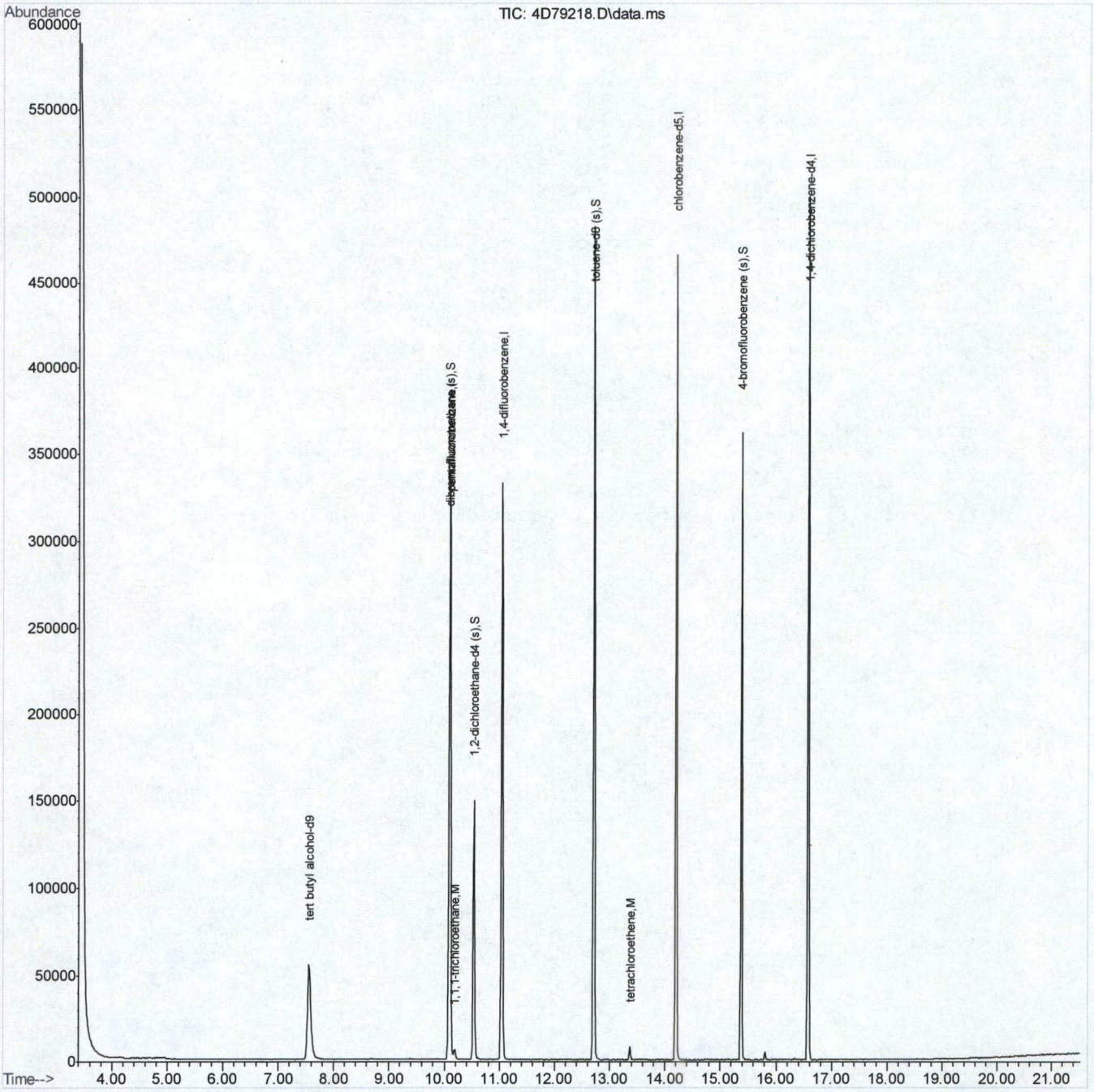
7.1.7

7

Quantitation Report (QT Reviewed)

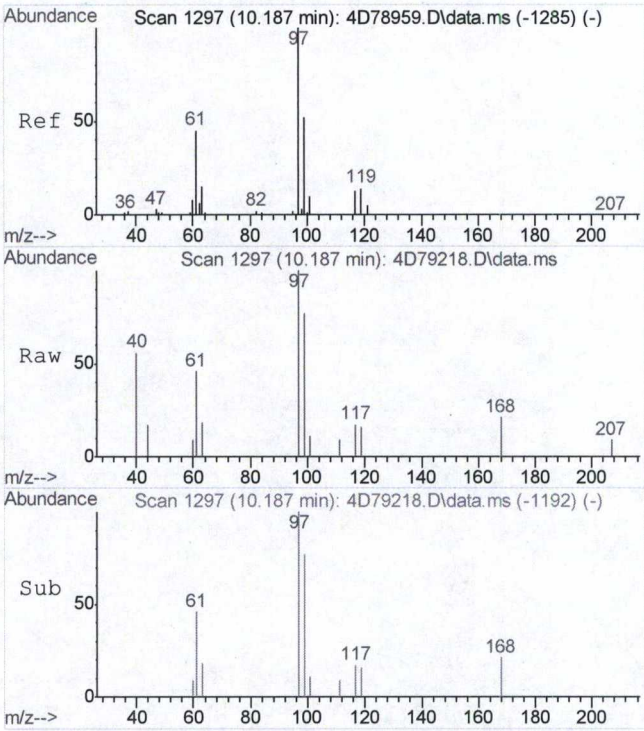
Data Path : C:\msdchem\1\data\
Data File : 4D79218.D
Acq On : 18 May 2017 5:57 am
Operator : BridgetK
Sample : jc43354-7
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Time: May 18 13:45:06 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration



7.1.7

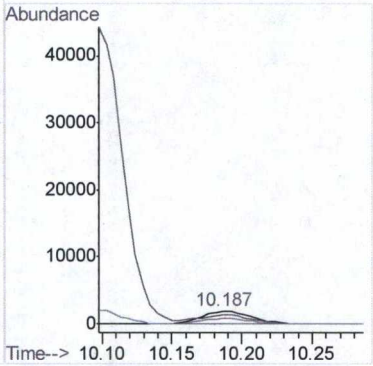
7

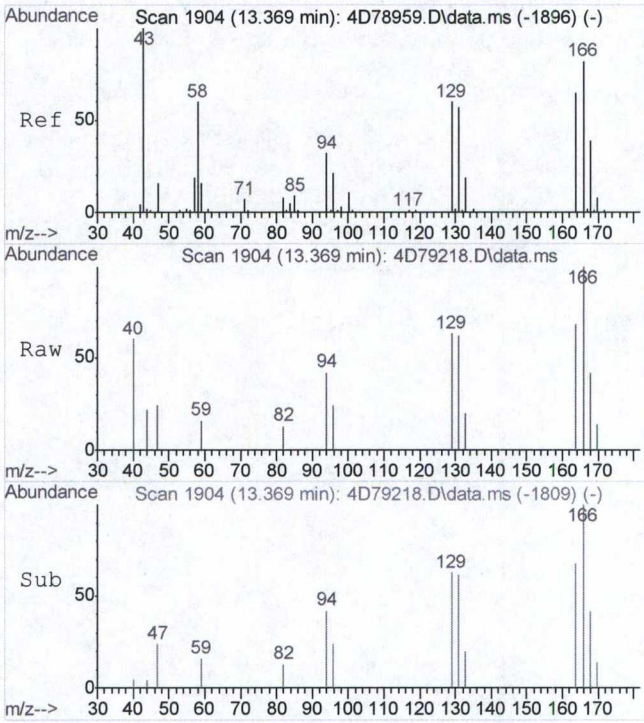


#46
1,1,1-trichloroethane
Concen: 1.48 ug/L
RT: 10.187 min Scan# 1297
Delta R.T. -0.000 min
Lab File: 4D79218.D
Acq: 18 May 2017 5:57 am

Tgt Ion: 97 Resp: 4619

Ion	Ratio	Lower	Upper
97	100		
99	77.3	34.0	94.0
61	45.8	14.9	74.9

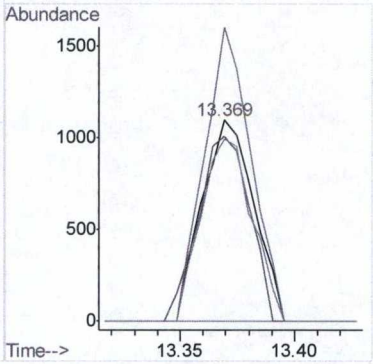




#80
tetrachloroethene
Concen: 1.02 ug/L
RT: 13.369 min Scan# 1904
Delta R.T. 0.000 min
Lab File: 4D79218.D
Acq: 18 May 2017 5:57 am

Tgt Ion:164 Resp: 1718

Ion	Ratio	Lower	Upper
164	100		
129	92.1	62.4	122.4
131	91.1	57.4	117.4
166	146.1	97.3	157.3



7.1.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79219.D
Acq On : 18 May 2017 6:24 am
Operator : BridgetK
Sample : jc43354-8
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 51 Sample Multiplier: 1

Quant Time: May 18 13:45:48 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.555	65	130632	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	179748	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	270699	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	232603	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	118115	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	94984	53.32	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 106.64%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	107074	54.77	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 109.54%			
75) toluene-d8 (s)	12.709	98	298308	49.55	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 99.10%			
99) 4-bromofluorobenzene (s)	15.372	95	110880	50.71	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.42%			
Target Compounds						Qvalue
37) cis-1,2-dichloroethene	9.479	96	1891	0.79	ug/L	95
46) 1,1,1-trichloroethane	10.187	97	2532	0.83	ug/L	86
61) trichloroethene	11.393	130	35894	17.01	ug/L	98
80) tetrachloroethene	13.370	164	1662	0.99	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

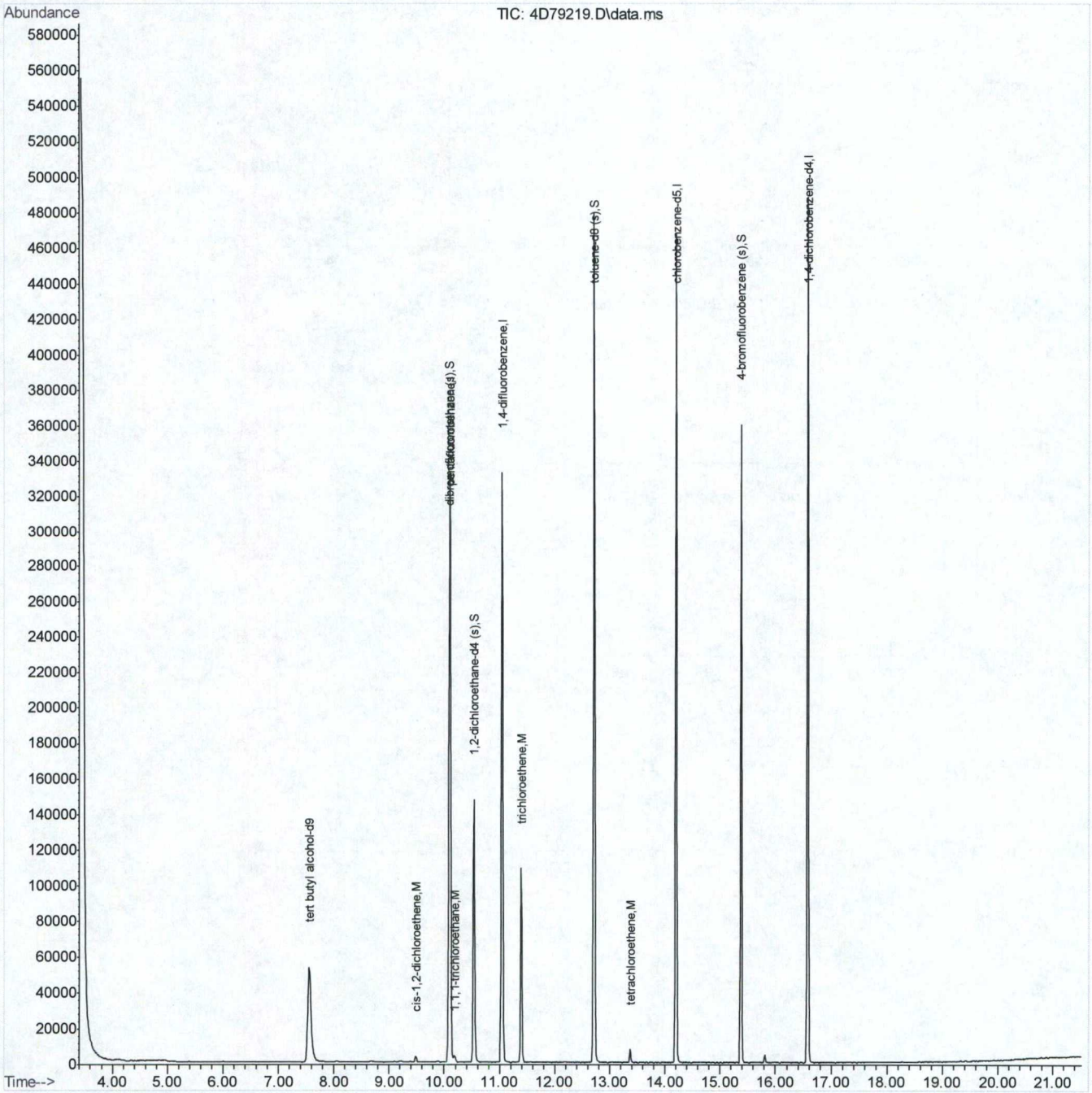
7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79219.D
Acq On : 18 May 2017 6:24 am
Operator : BridgetK
Sample : jc43354-8
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 51 Sample Multiplier: 1

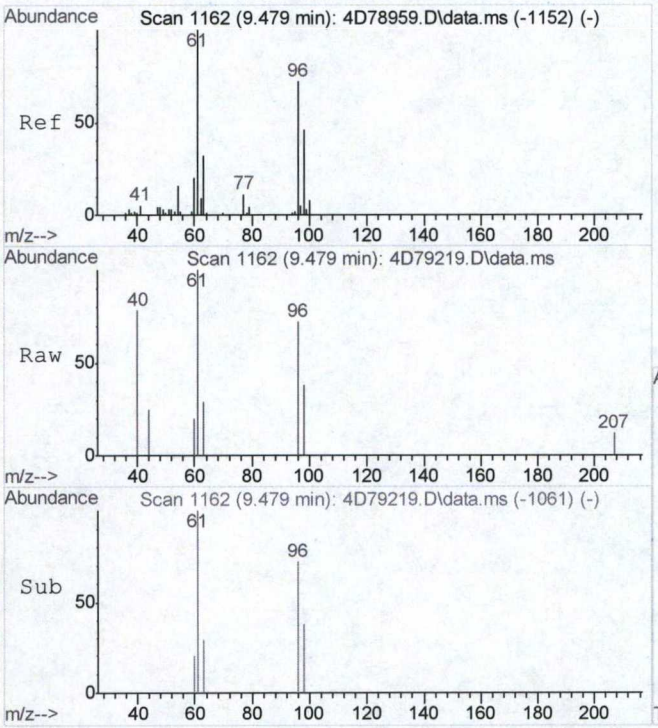
Quant Time: May 18 13:45:48 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration



7.1.8

7

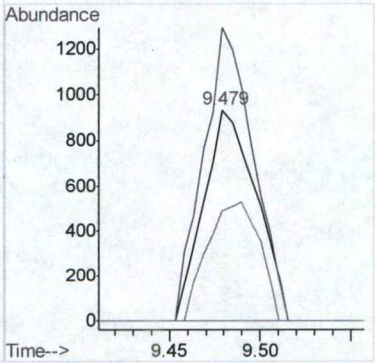
SGS ACCUTEST JC43354

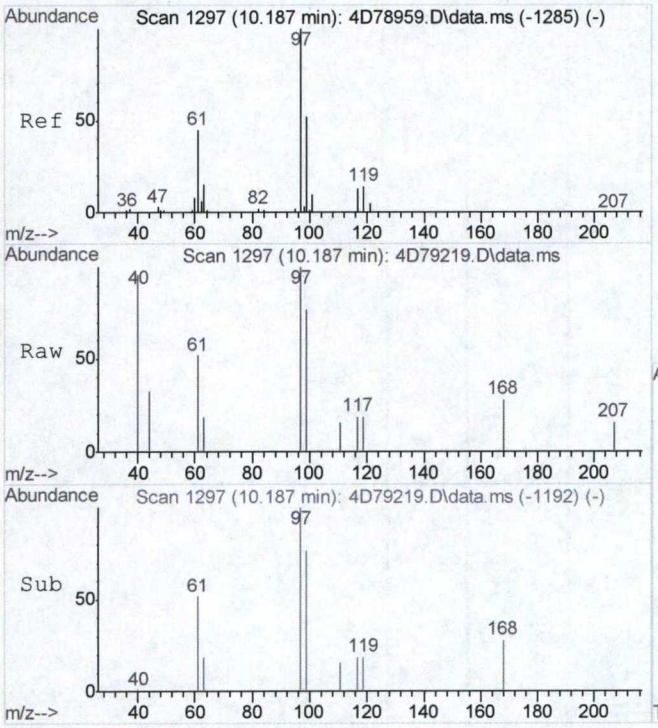


#37
cis-1,2-dichloroethene
Concen: 0.79 ug/L
RT: 9.479 min Scan# 1162
Delta R.T. 0.000 min
Lab File: 4D79219.D
Acq: 18 May 2017 6:24 am

Tgt Ion: 96 Resp: 1891

Ion	Ratio	Lower	Upper
96	100		
61	138.6	108.6	168.6
98	52.5	33.9	93.9

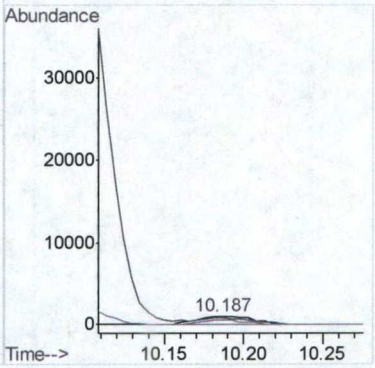




#46
1,1,1-trichloroethane
Concen: 0.83 ug/L
RT: 10.187 min Scan# 1297
Delta R.T. 0.000 min
Lab File: 4D79219.D
Acq: 18 May 2017 6:24 am

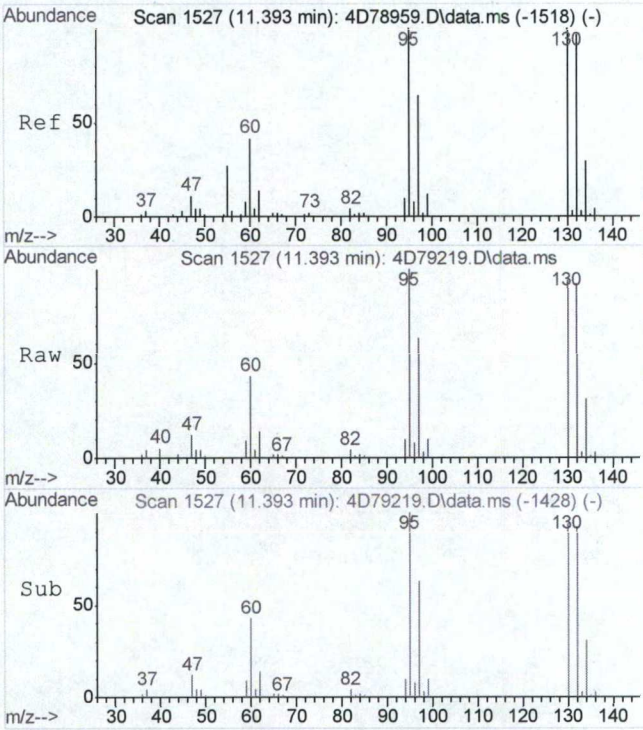
Tgt Ion: 97 Resp: 2532

Ion	Ratio	Lower	Upper
97	100		
99	77.1	34.0	94.0
61	51.7	14.9	74.9



7.1.8

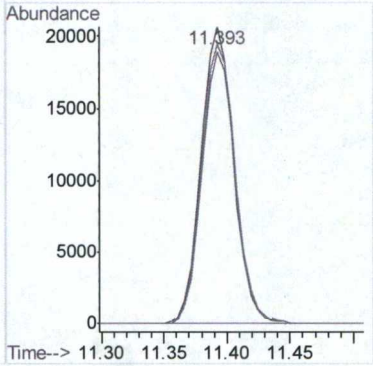
7

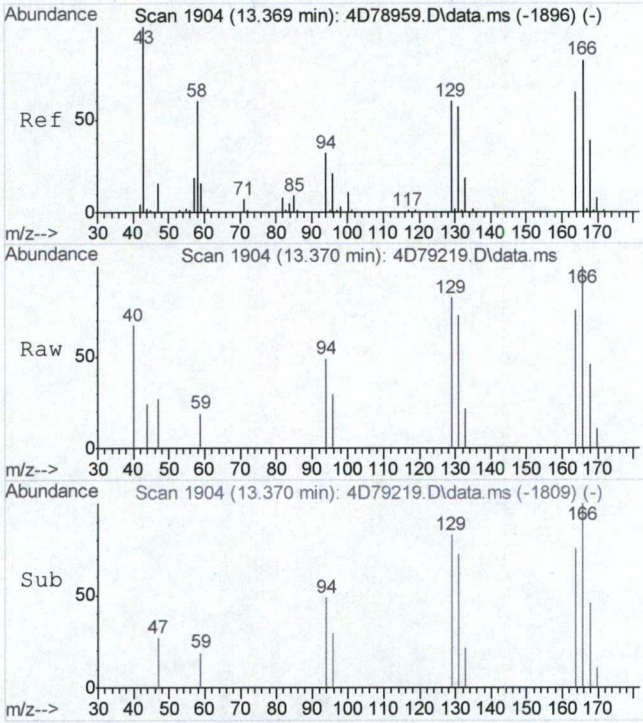


#61
trichloroethene
Concen: 17.01 ug/L
RT: 11.393 min Scan# 1527
Delta R.T. -0.000 min
Lab File: 4D79219.D
Acq: 18 May 2017 6:24 am

Tgt Ion:130 Resp: 35894

Ion	Ratio	Lower	Upper
130	100		
95	105.9	70.1	130.1
130	100.0	70.0	130.0
132	97.2	67.2	127.2

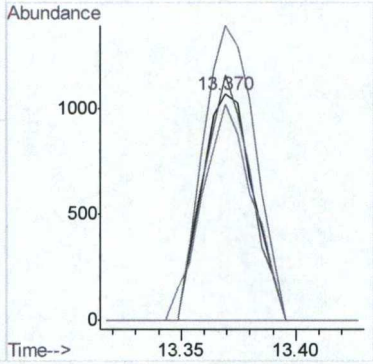




#80
tetrachloroethene
Concen: 0.99 ug/L
RT: 13.370 min Scan# 1904
Delta R.T. 0.001 min
Lab File: 4D79219.D
Acq: 18 May 2017 6:24 am

Tgt Ion:164 Resp: 1662

Ion	Ratio	Lower	Upper
164	100		
129	108.8	62.4	122.4
131	95.5	57.4	117.4
166	130.9	97.3	157.3



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79220.D
Acq On : 18 May 2017 6:52 am
Operator : BridgetK
Sample : jc43354-9
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Time: May 18 13:46:27 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.555	65	133491	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	180013	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	266058	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	228210	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	116050	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	95303	53.42	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 106.84%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	106278	55.31	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 110.62%			
75) toluene-d8 (s)	12.709	98	297441	50.36	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.72%			
99) 4-bromofluorobenzene (s)	15.372	95	109038	50.76	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.52%			
Target Compounds						Qvalue
46) 1,1,1-trichloroethane	10.187	97	16145	5.26	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

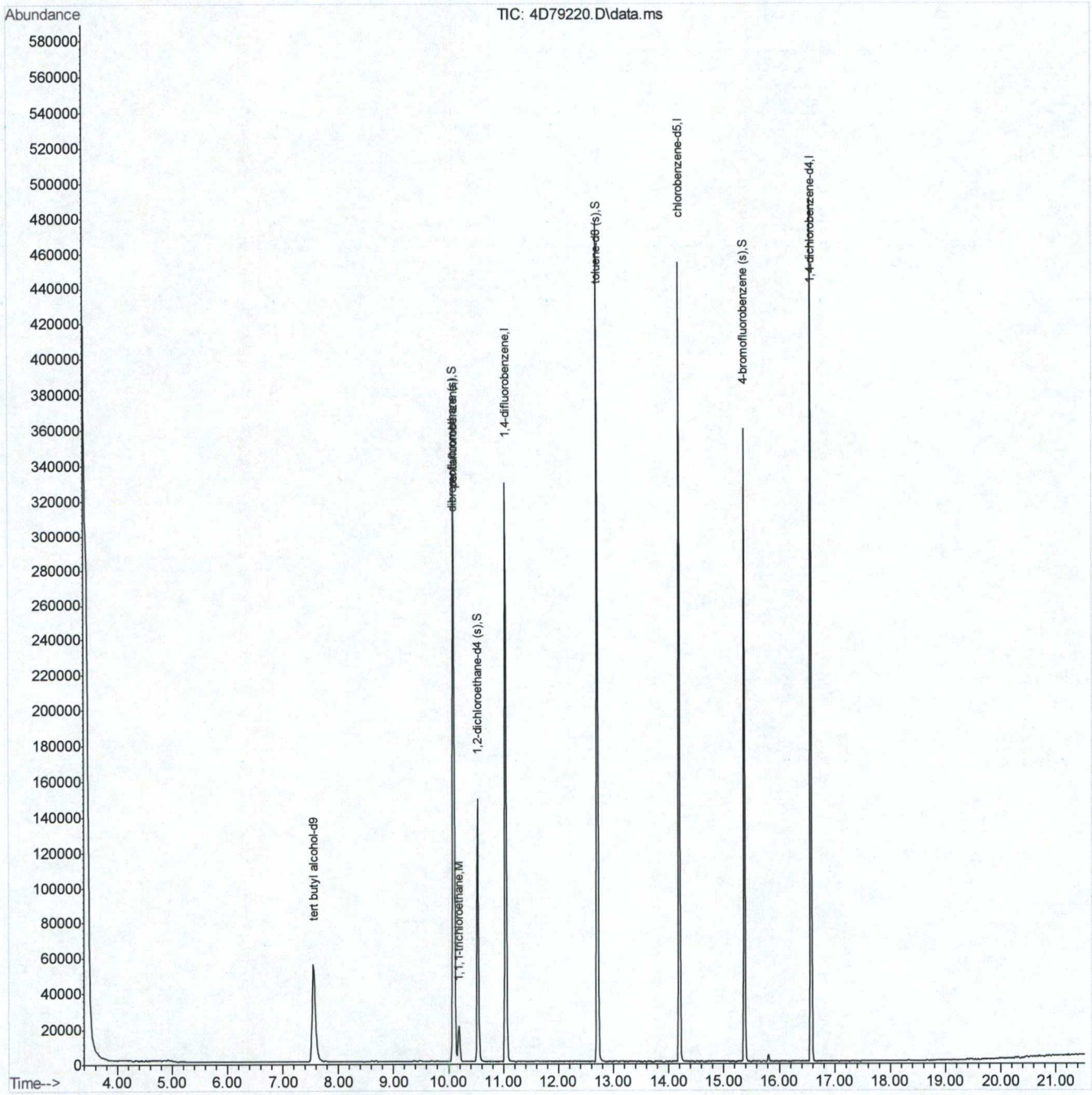
7.1.9

7

Quantitation Report (QT Reviewed)

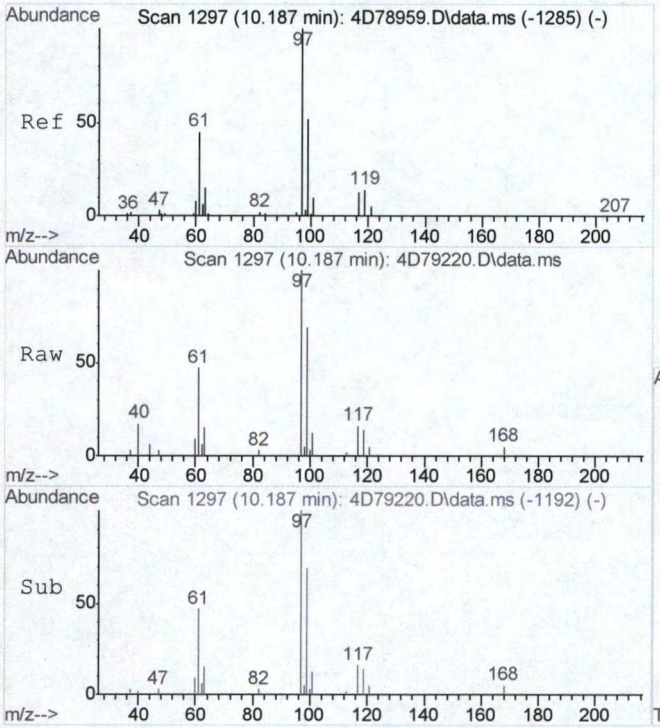
Data Path : C:\msdchem\1\data\
Data File : 4D79220.D
Acq On : 18 May 2017 6:52 am
Operator : BridgetK
Sample : jc43354-9
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Time: May 18 13:46:27 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration



7.1.9 7

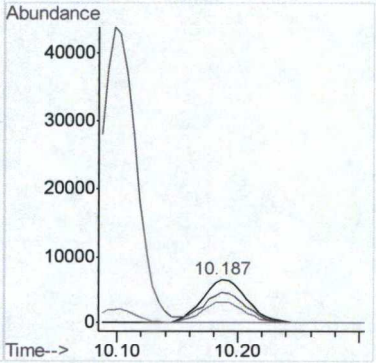
M4D3413.M Thu May 18 13:46:35 2017 RPT1



#46
1,1,1-trichloroethane
Concen: 5.26 ug/L
RT: 10.187 min Scan# 1297
Delta R.T. -0.000 min
Lab File: 4D79220.D
Acq: 18 May 2017 6:52 am

Tgt Ion: 97 Resp: 16145

Ion	Ratio	Lower	Upper
97	100		
99	68.9	34.0	94.0
61	46.9	14.9	74.9



7.1.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79221.D
Acq On : 18 May 2017 7:20 am
Operator : BridgetK
Sample : jc43354-10
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Time: May 18 13:47:01 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) tert butyl alcohol-d9	7.555	65	129084	500.00 ug/L	0.00
5) pentafluorobenzene	10.103	168	180663	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	267285	50.00 ug/L	0.00
74) chlorobenzene-d5	14.198	117	226215	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	114702	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.087	113	94094	52.56 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 105.12%		
53) 1,2-dichloroethane-d4 (s)	10.533	65	105206	54.50 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 109.00%		
75) toluene-d8 (s)	12.709	98	295740	50.51 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 101.02%		
99) 4-bromofluorobenzene (s)	15.372	95	109420	51.54 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.08%		
Target Compounds					Qvalue
46) 1,1,1-trichloroethane	10.187	97	5660	1.84 ug/L	92

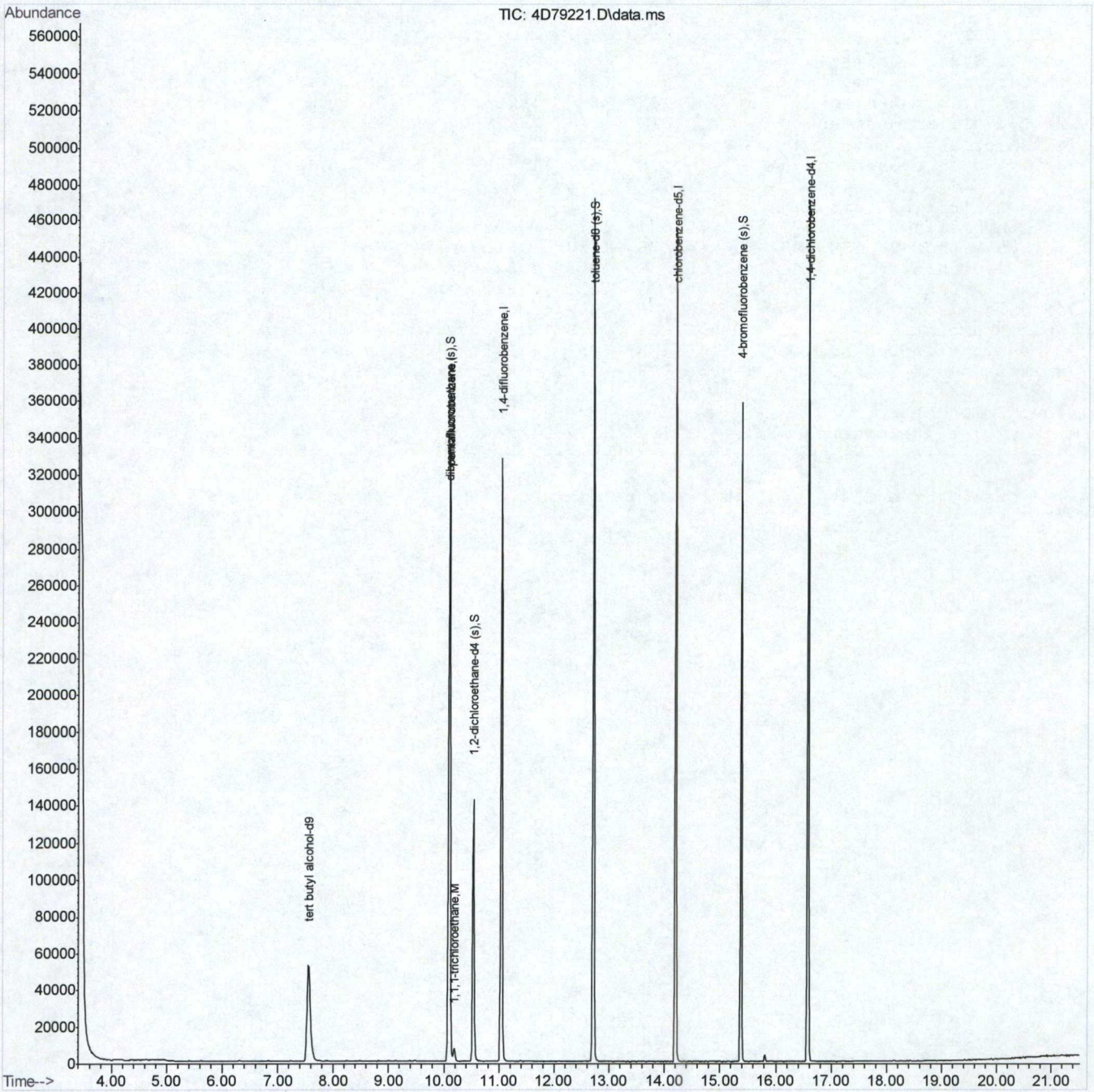
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.10 7

Quantitation Report (QT Reviewed)

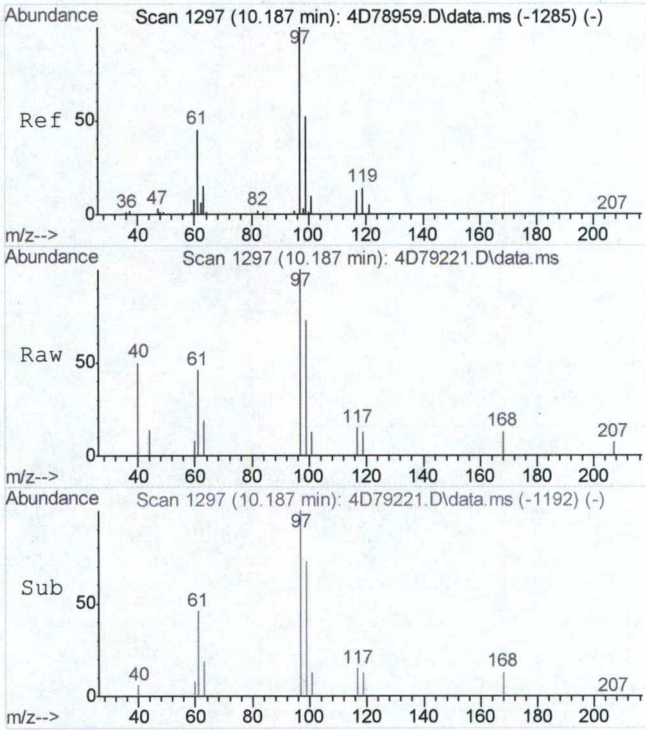
Data Path : C:\msdchem\1\data\
Data File : 4D79221.D
Acq On : 18 May 2017 7:20 am
Operator : BridgetK
Sample : jc43354-10
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Time: May 18 13:47:01 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration



M4D3413.M Thu May 18 13:47:08 2017 RPT1 Page: 2

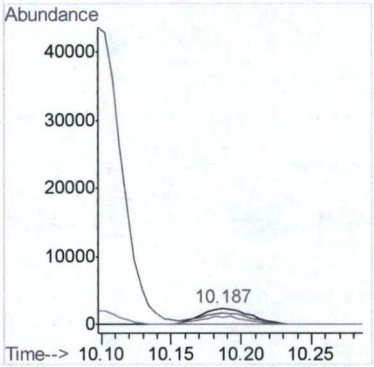
SGS ACCUTEST JC43354



#46
1,1,1-trichloroethane
Concen: 1.84 ug/L
RT: 10.187 min Scan# 1297
Delta R.T. -0.000 min
Lab File: 4D79221.D
Acq: 18 May 2017 7:20 am

Tgt Ion: 97 Resp: 5660

Ion	Ratio	Lower	Upper
97	100		
99	73.2	34.0	94.0
61	46.3	14.9	74.9



7.1.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79204.D
Acq On : 17 May 2017 11:30 pm
Operator : BridgetK
Sample : jc43354-11
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 18 13:36:15 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.555	65	152007	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	214042	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	318195	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	272620	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	135869	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	108988	51.38	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 102.76%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	116913	50.88	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 101.76%			
75) toluene-d8 (s)	12.709	98	352340	49.93	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 99.86%			
99) 4-bromofluorobenzene (s)	15.372	95	128328	51.03	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.06%			
Target Compounds						Qvalue
29) 1,1-dichloroethane	8.677	63	3607	0.77	ug/L	96
37) cis-1,2-dichloroethene	9.485	96	858	0.30	ug/L	94
46) 1,1,1-trichloroethane	10.192	97	2937	0.80	ug/L	88
80) tetrachloroethene	13.370	164	1144	0.58	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

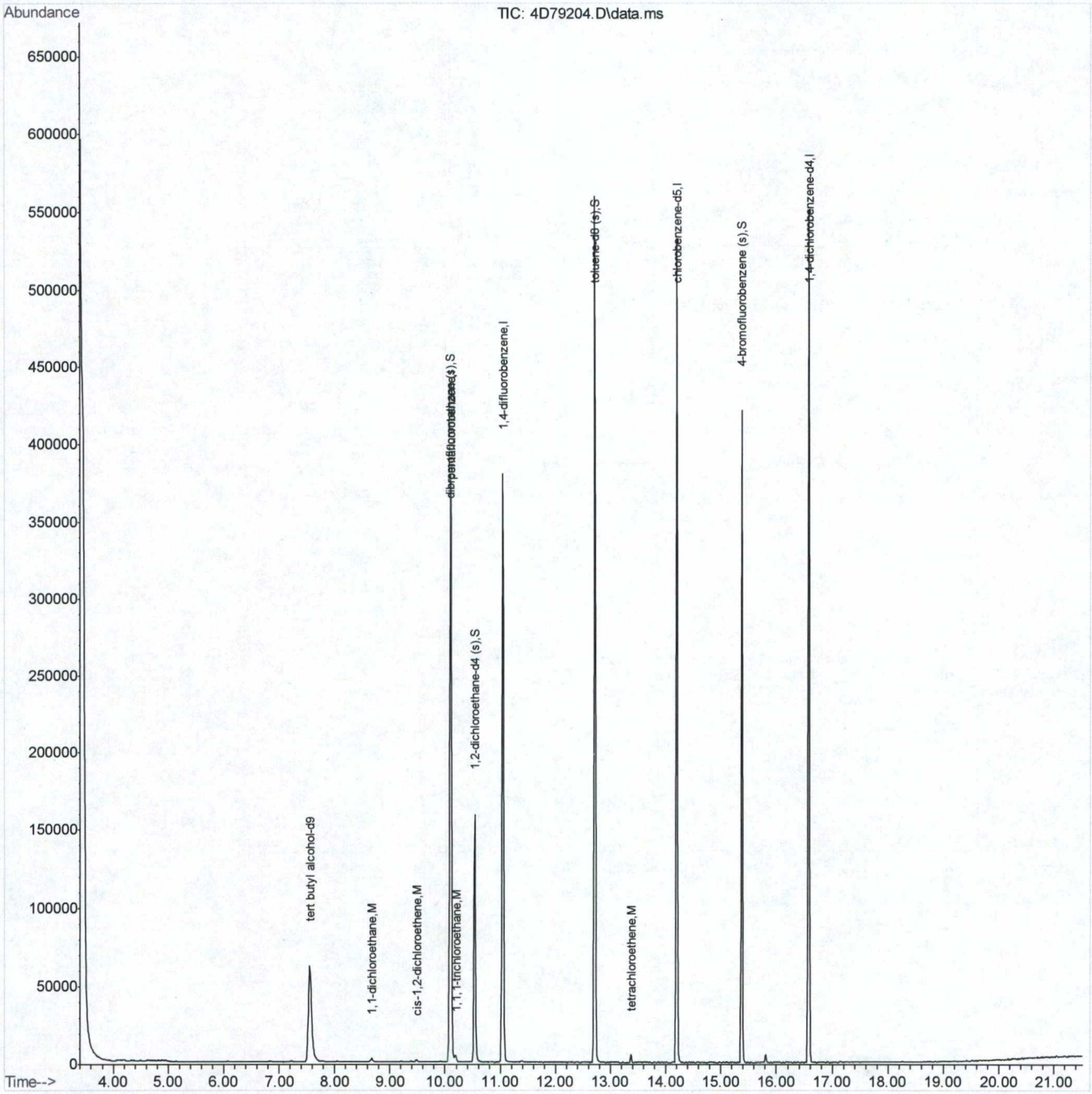
7.1.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79204.D
Acq On : 17 May 2017 11:30 pm
Operator : BridgetK
Sample : jc43354-11
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

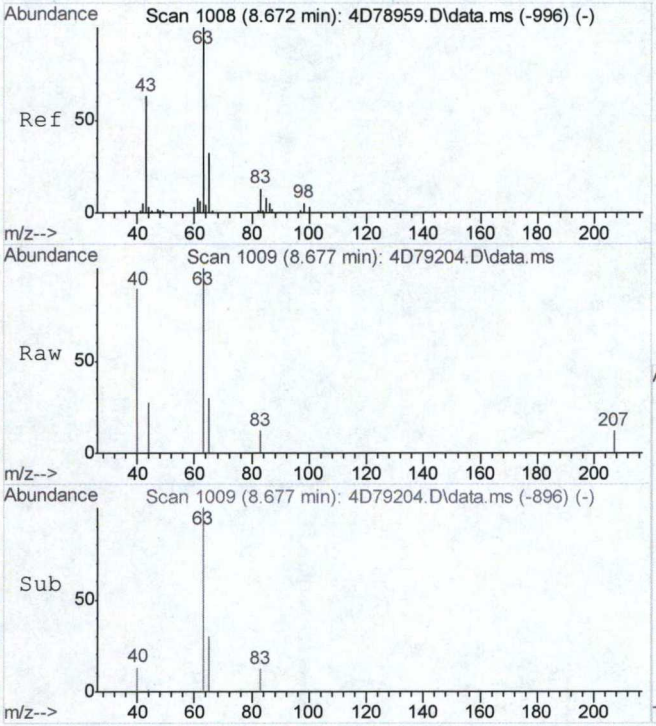
Quant Time: May 18 13:36:15 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration



7.1.11

7

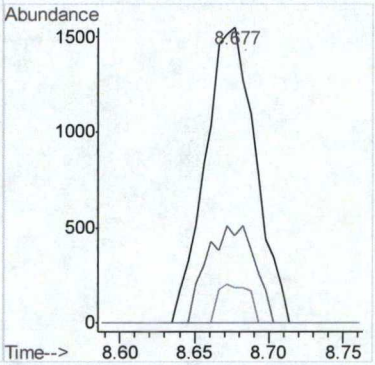
M4D3413.M Thu May 18 13:36:21 2017 RPT1 Page: 2

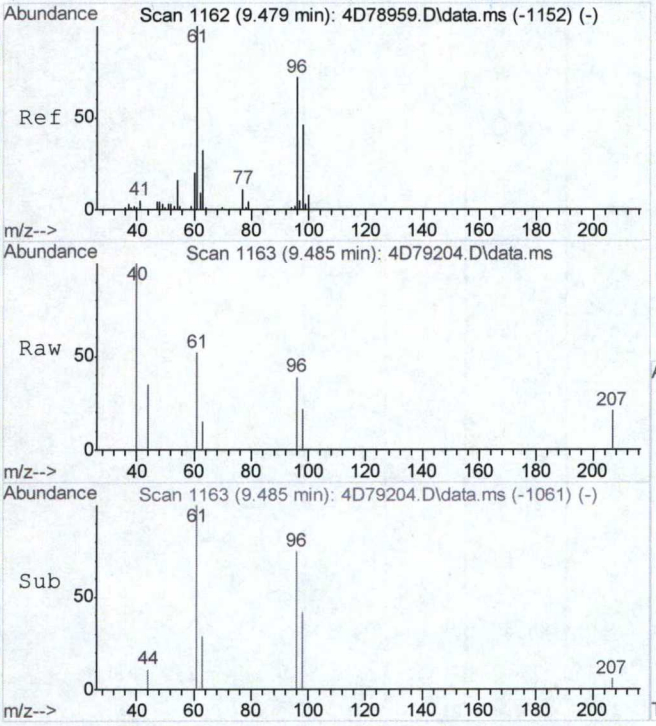


#29
1,1-dichloroethane
Concen: 0.77 ug/L
RT: 8.677 min Scan# 1009
Delta R.T. 0.005 min
Lab File: 4D79204.D
Acq: 17 May 2017 11:30 pm

Tgt Ion: 63 Resp: 3607

Ion	Ratio	Lower	Upper
63	100		
65	29.5	1.6	61.6
83	11.9	0.0	43.1

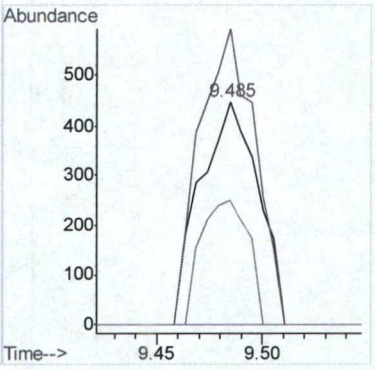




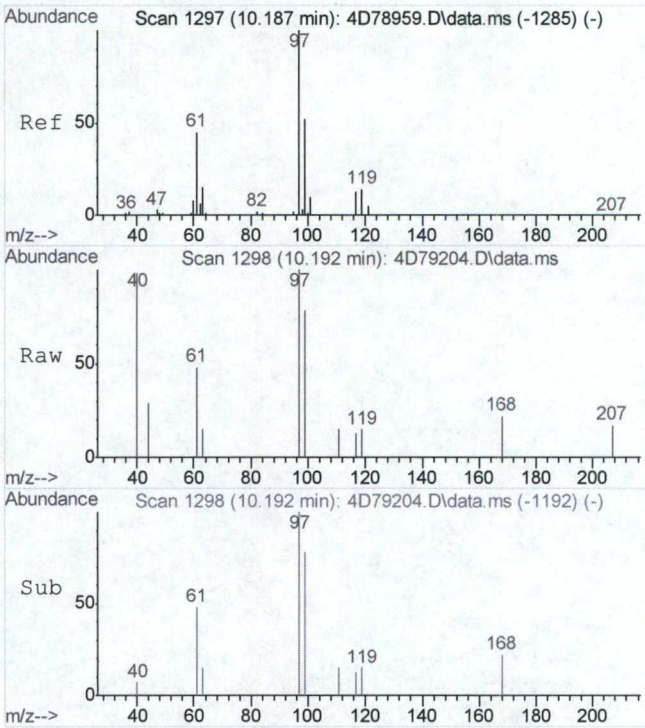
#37
cis-1,2-dichloroethene
Concen: 0.30 ug/L
RT: 9.485 min Scan# 1163
Delta R.T. 0.006 min
Lab File: 4D79204.D
Acq: 17 May 2017 11:30 pm

Tgt Ion: 96 Resp: 858

Ion	Ratio	Lower	Upper
96	100		
61	132.7	108.6	168.6
98	56.2	33.9	93.9



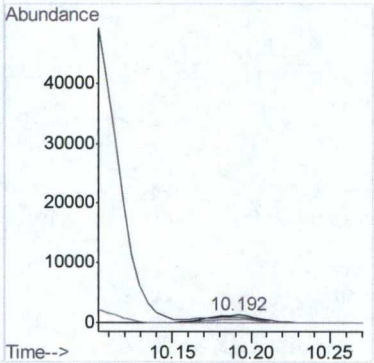
7.1.11
7

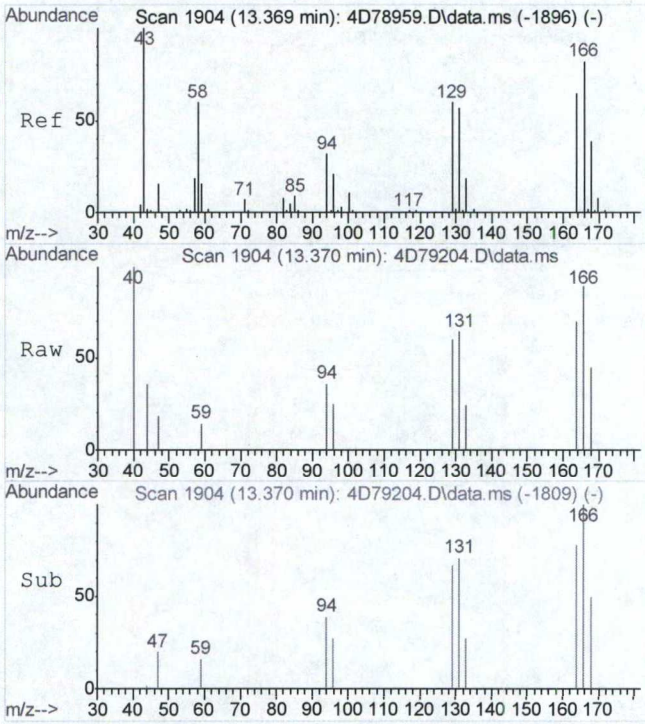


#46
1,1,1-trichloroethane
Concen: 0.80 ug/L
RT: 10.192 min Scan# 1298
Delta R.T. 0.005 min
Lab File: 4D79204.D
Acq: 17 May 2017 11:30 pm

Tgt Ion: 97 Resp: 2937

Ion	Ratio	Lower	Upper
97	100		
99	77.8	34.0	94.0
61	48.0	14.9	74.9

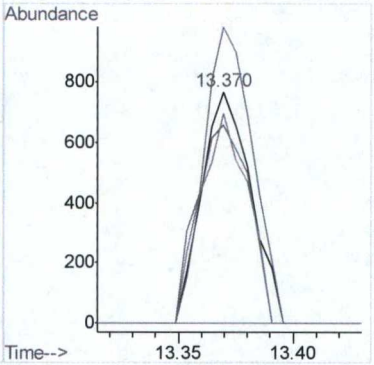




#80
tetrachloroethene
Concen: 0.58 ug/L
RT: 13.370 min Scan# 1904
Delta R.T. 0.001 min
Lab File: 4D79204.D
Acq: 17 May 2017 11:30 pm

Tgt Ion:164 Resp: 1144

Ion	Ratio	Lower	Upper
164	100		
129	85.7	62.4	122.4
131	90.9	57.4	117.4
166	128.0	97.3	157.3



7.1.11

7

SGS ACCUTEST JC43354

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79205.D
Acq On : 17 May 2017 11:57 pm
Operator : BridgetK
Sample : jc43354-12
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 18 13:37:02 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.550	65	148293	500.00	ug/L	0.00
5) pentafluorobenzene	10.098	168	204408	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	305820	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	258282	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	132315	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	105074	51.87	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 103.74%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	114264	51.73	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 103.46%			
75) toluene-d8 (s)	12.709	98	335673	50.21	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.42%			
99) 4-bromofluorobenzene (s)	15.372	95	121709	49.69	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.38%			
Target Compounds						Qvalue
29) 1,1-dichloroethane	8.672	63	3637	0.81	ug/L	92
46) 1,1,1-trichloroethane	10.187	97	12707	3.64	ug/L	96
61) trichloroethene	11.393	130	2111	0.89	ug/L	99
80) tetrachloroethene	13.369	164	26090	14.06	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.12 7