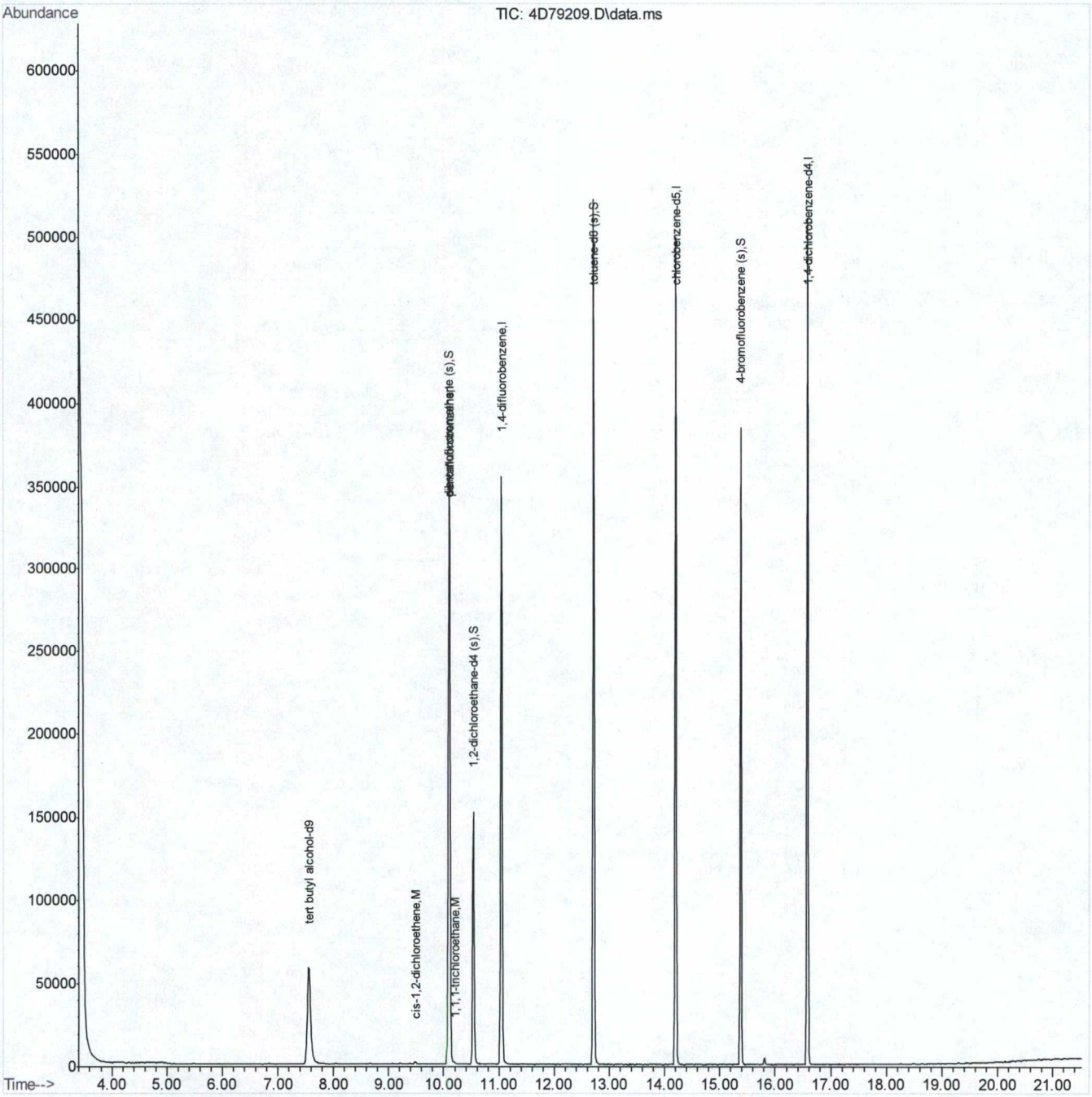
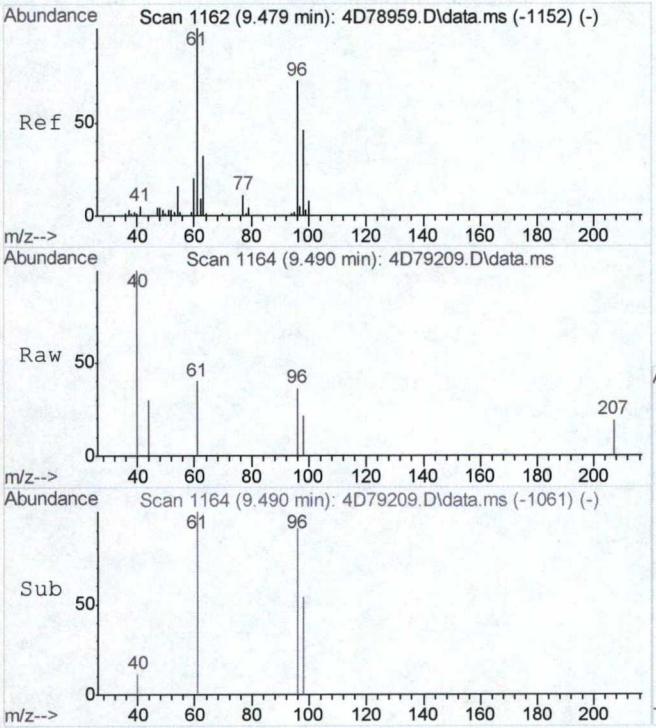
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79209.D
Acq On : 18 May 2017 1:47 am
Operator : BridgetK
Sample : jc43354-16
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 18 13:39:25 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

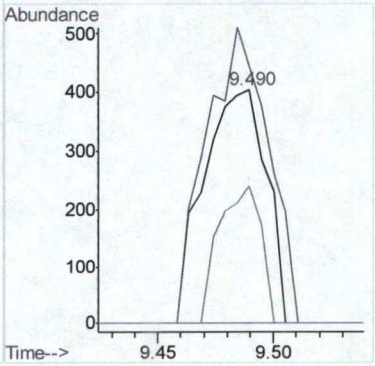


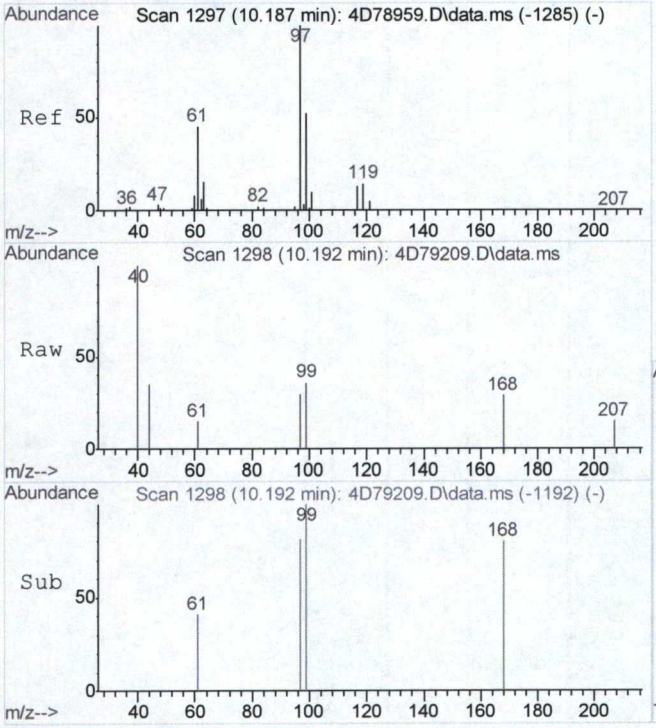


#37
cis-1,2-dichloroethene
Concen: 0.29 ug/L
RT: 9.490 min Scan# 1164
Delta R.T. 0.011 min
Lab File: 4D79209.D
Acq: 18 May 2017 1:47 am

Tgt Ion: 96 Resp: 765

Ion	Ratio	Lower	Upper
96	100		
61	110.4	108.6	168.6
98	59.6	33.9	93.9

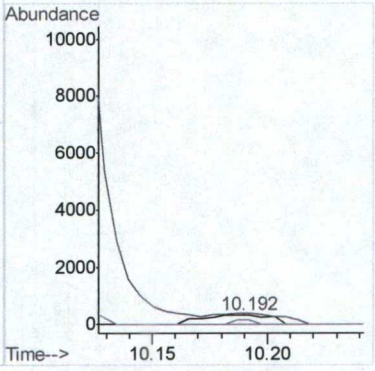




#46
1,1,1-trichloroethane
Concen: 0.20 ug/L
RT: 10.192 min Scan# 1298
Delta R.T. 0.005 min
Lab File: 4D79209.D
Acq: 18 May 2017 1:47 am

Tgt Ion: 97 Resp: 671

Ion	Ratio	Lower	Upper
97	100		
99	72.0	34.0	94.0
61	50.0	14.9	74.9



7.1.16 7

SGS ACCUTEST JC43354

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79230.D
Acq On : 18 May 2017 12:30 pm
Operator : BridgetK
Sample : jc43354-17
Misc : MS16090,V4D3424,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 19 10:29:01 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	169932	500.00 ug/L	0.00
5) pentafluorobenzene	10.098	168	238837	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	357350	50.00 ug/L	0.00
74) chlorobenzene-d5	14.198	117	302831	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	155386	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.082	113	124794	52.73 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 105.46%		
53) 1,2-dichloroethane-d4 (s)	10.528	65	142617	55.26 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 110.52%		
75) toluene-d8 (s)	12.709	98	390255	49.79 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 99.58%		
99) 4-bromofluorobenzene (s)	15.373	95	145960	50.75 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.50%		
Target Compounds					Qvalue
9) vinyl chloride	4.415	62	52789	11.56 ug/L	100
18) 1,1-dichloroethene	6.805	96	3340	1.36 ug/L	93
25) methyl tert butyl ether	8.043	73	5190	0.59 ug/L	95
26) trans-1,2-dichloroethene	8.053	96	1014	0.34 ug/L #	75
29) 1,1-dichloroethane	8.672	63	64912	12.41 ug/L	98
37) cis-1,2-dichloroethene	9.479	96	115232	36.25 ug/L	98
46) 1,1,1-trichloroethane	10.187	97	6501	1.60 ug/L	93
61) trichloroethene	11.388	130	13249	4.76 ug/L	98
66) 1,2-dichloropropane	11.634	63	745	0.24 ug/L	91
80) tetrachloroethene	13.370	164	19580	9.00 ug/L	99
115) 1,2-dichlorobenzene	17.014	146	7603	1.29 ug/L	92

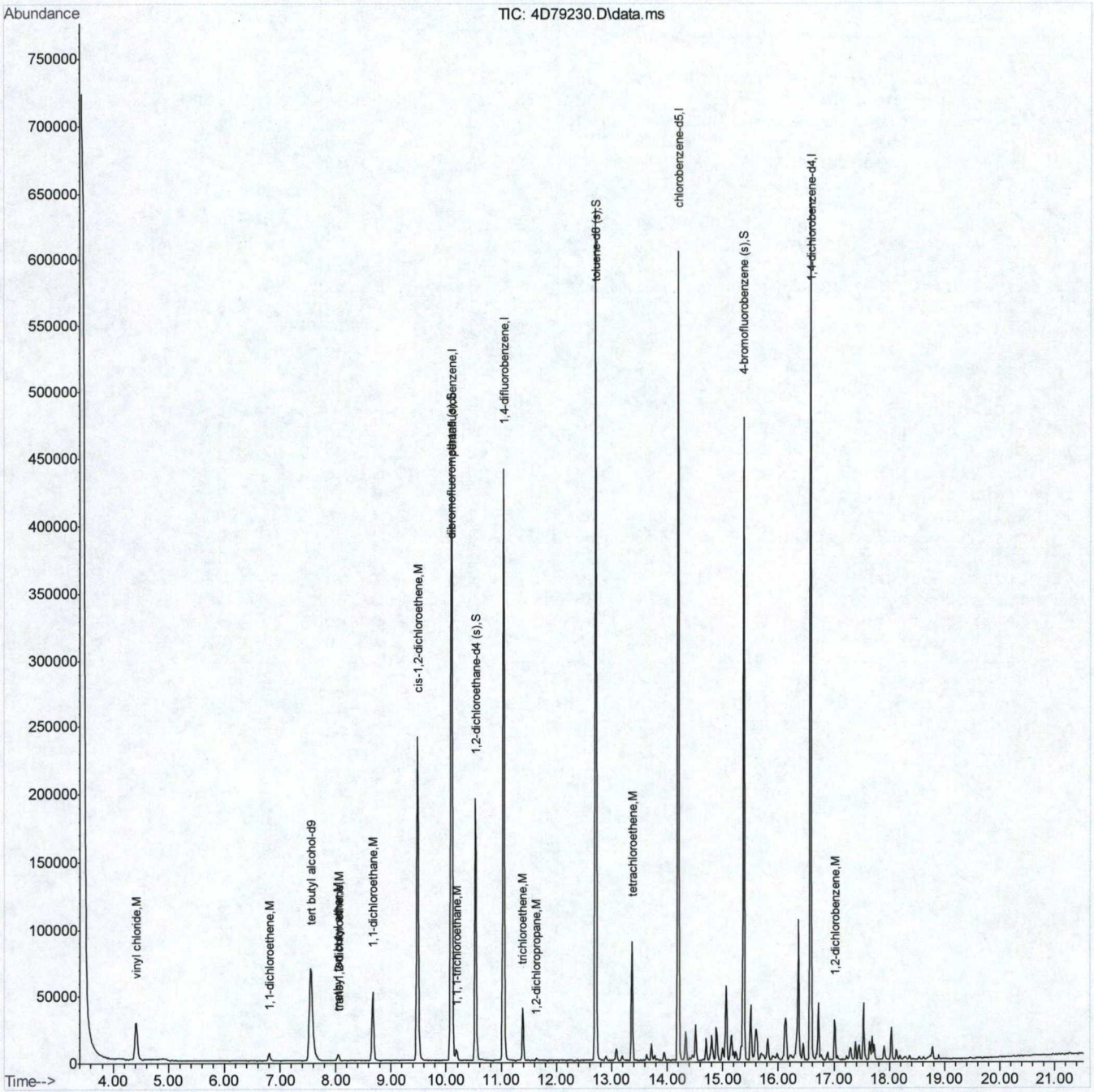
(#) = qualifier out of range (m) = manual integration (+) = signals summed

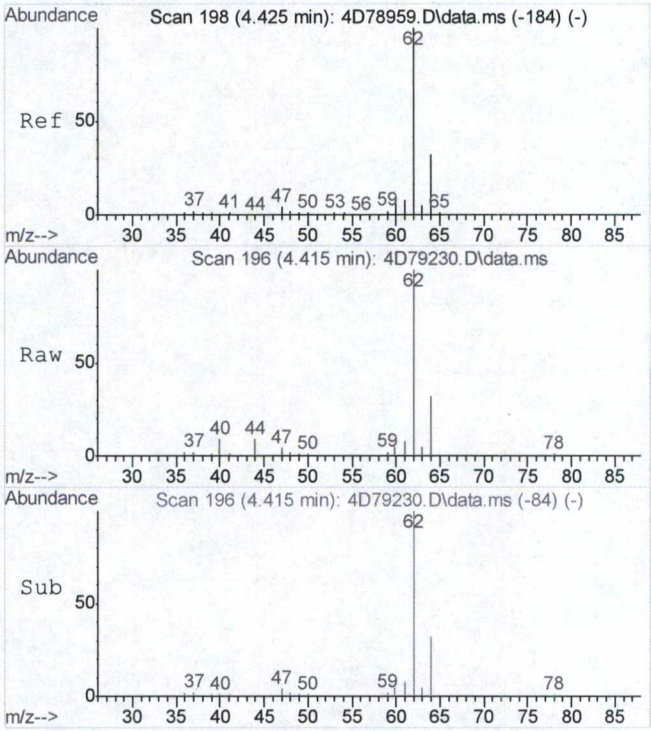
7.1.17 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79230.D
Acq On : 18 May 2017 12:30 pm
Operator : BridgetK
Sample : jc43354-17
Misc : MS16090,V4D3424,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 19 10:29:01 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

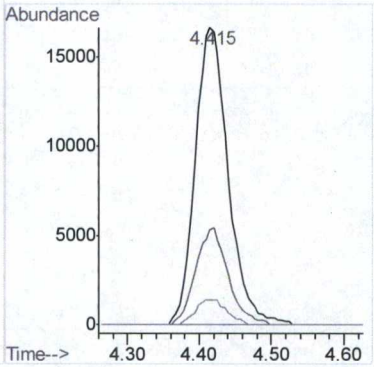


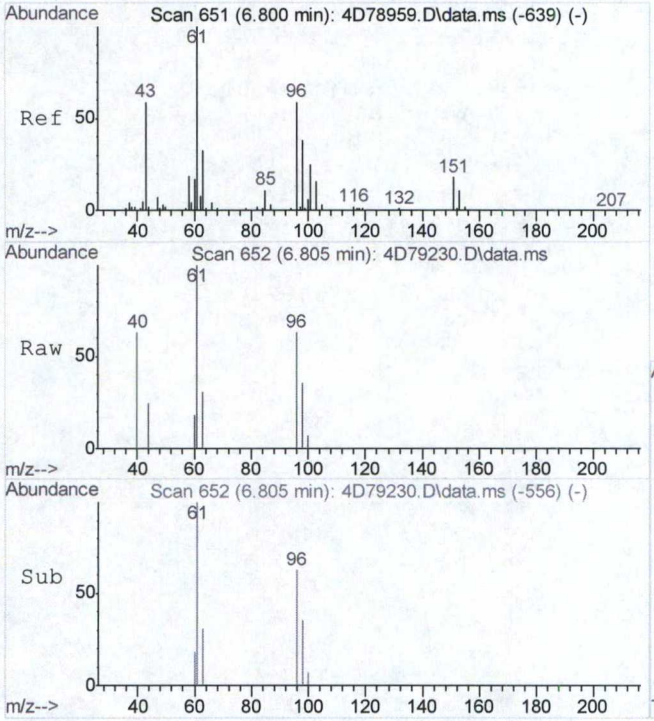


#9
vinyl chloride
Concen: 11.56 ug/L
RT: 4.415 min Scan# 196
Delta R.T. -0.010 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion: 62 Resp: 52789

Ion	Ratio	Lower	Upper
62	100		
64	31.8	1.8	61.8
61	8.2	0.0	38.5

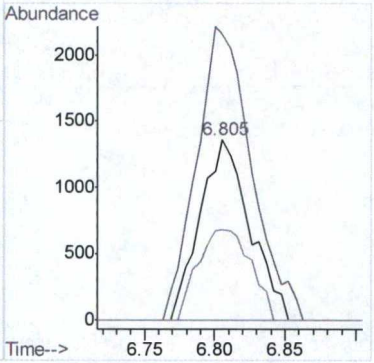




#18
1,1-dichloroethene
Concen: 1.36 ug/L
RT: 6.805 min Scan# 652
Delta R.T. 0.005 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion: 96 Resp: 3340

Ion	Ratio	Lower	Upper
96	100		
61	158.6	138.9	198.9
63	50.0	25.3	85.3



7.1.17

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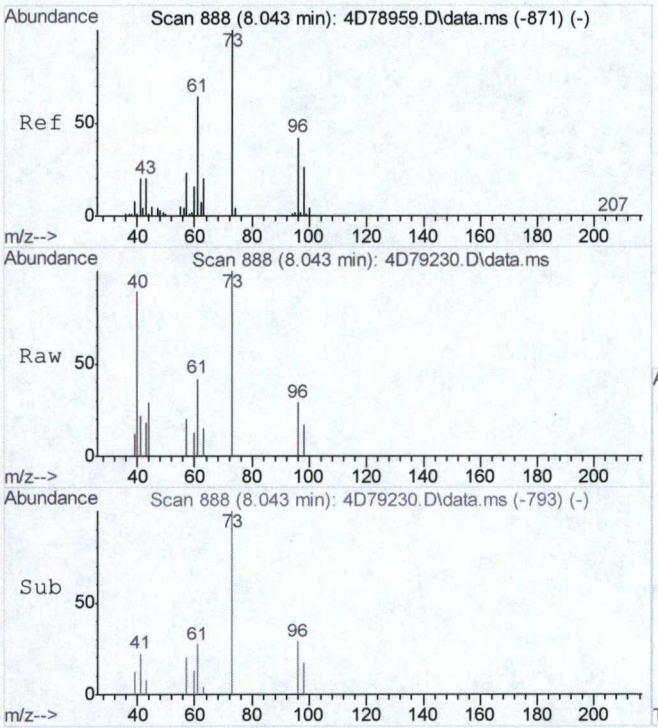
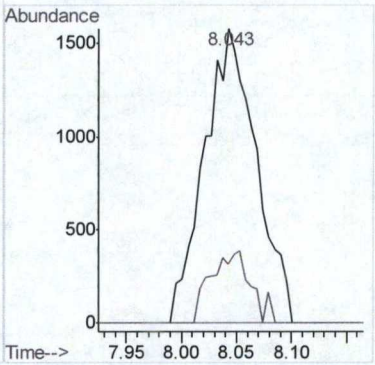
SGS ACCUTEST JC43354

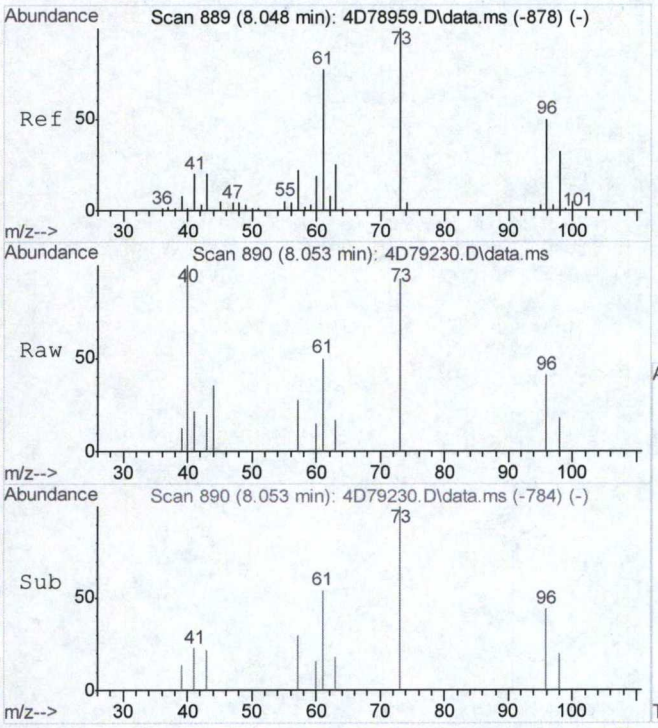


#25
methyl tert butyl ether
Concen: 0.59 ug/L
RT: 8.043 min Scan# 888
Delta R.T. -0.000 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion: 73 Resp: 5190

Ion	Ratio	Lower	Upper
73	100		
57	20.0	0.0	67.8

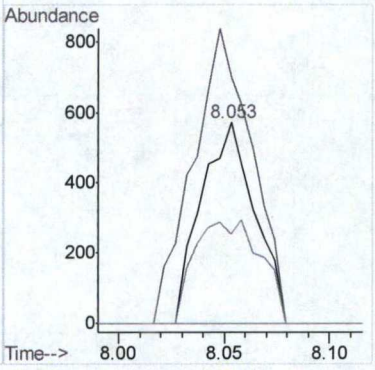




#26
trans-1,2-dichloroethene
Concen: 0.34 ug/L
RT: 8.053 min Scan# 890
Delta R.T. 0.005 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion: 96 Resp: 1014

Ion	Ratio	Lower	Upper
96	100		
61	122.5	123.8	183.8#
98	44.3	34.8	94.8



7.1.17

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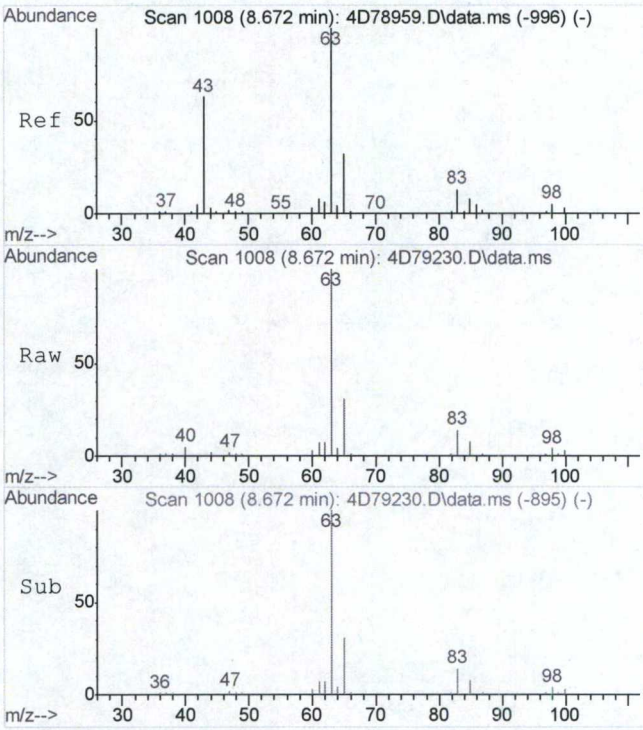
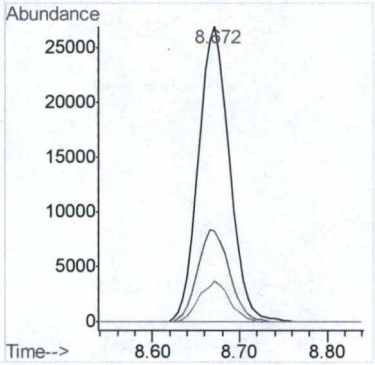
SGS ACCUTEST JC43354

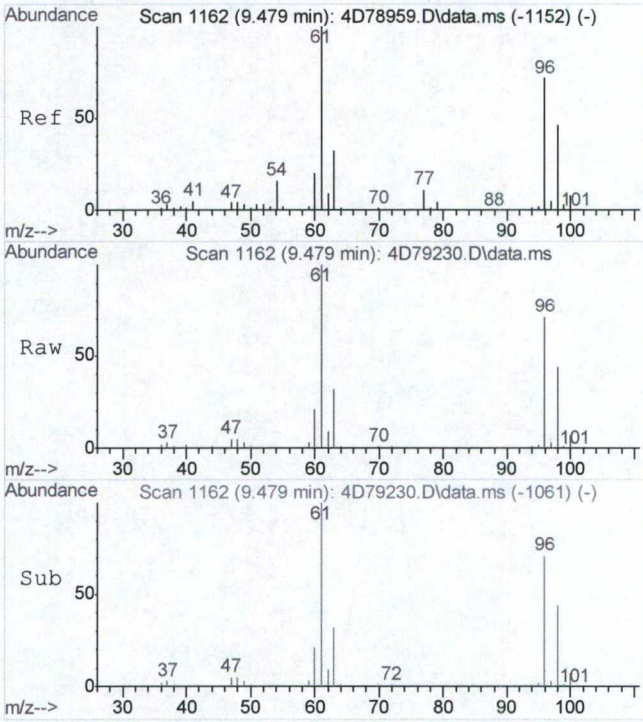


#29
1,1-dichloroethane
Concen: 12.41 ug/L
RT: 8.672 min Scan# 1008
Delta R.T. -0.000 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion: 63 Resp: 64912

Ion	Ratio	Lower	Upper
63	100		
65	30.6	1.6	61.6
83	13.6	0.0	43.1

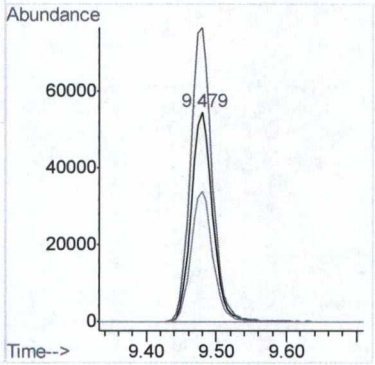




#37
cis-1,2-dichloroethene
Concen: 36.25 ug/L
RT: 9.479 min Scan# 1162
Delta R.T. 0.000 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion: 96 Resp: 115232

Ion	Ratio	Lower	Upper
96	100		
61	140.3	108.6	168.6
98	62.2	33.9	93.9



7.1.17

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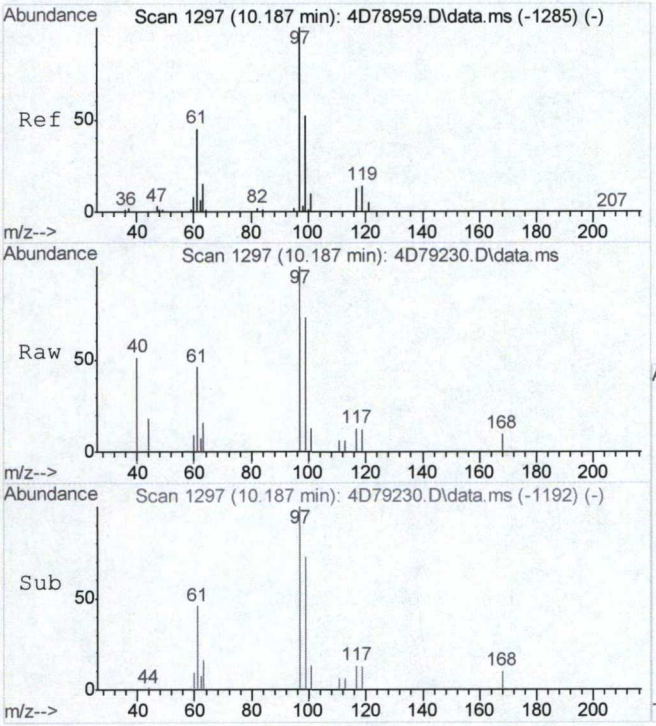
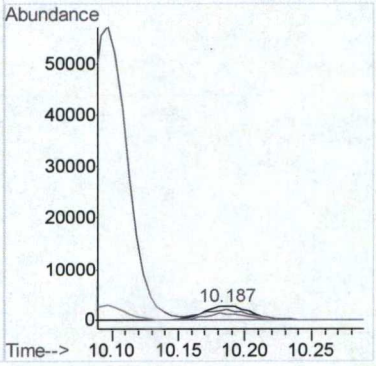
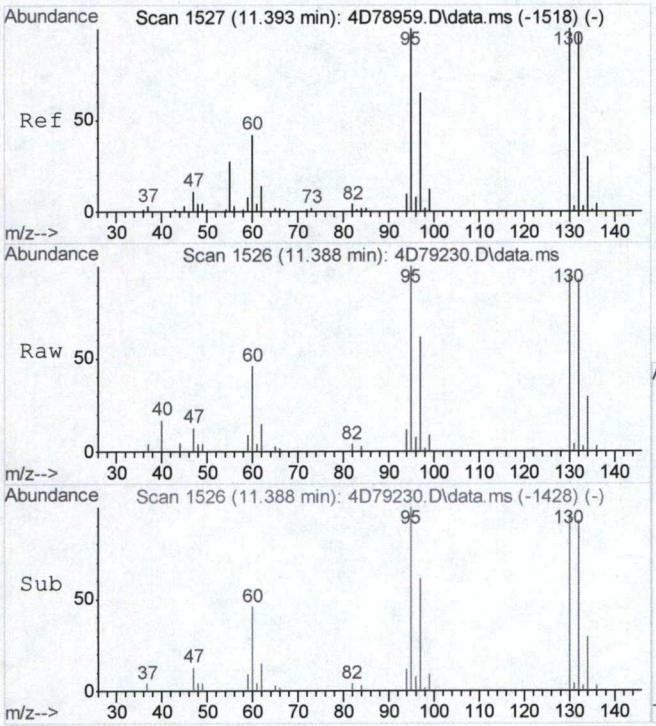


#46
1,1,1-trichloroethane
Concen: 1.60 ug/L
RT: 10.187 min Scan# 1297
Delta R.T. 0.000 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion: 97 Resp: 6501

Ion	Ratio	Lower	Upper
97	100		
99	73.0	34.0	94.0
61	45.8	14.9	74.9

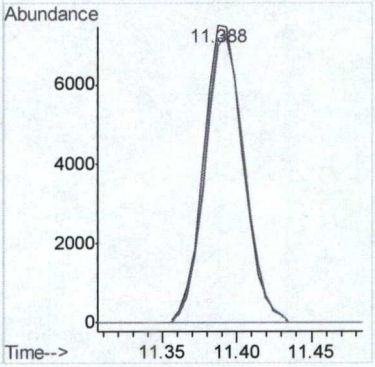




#61
trichloroethene
Concen: 4.76 ug/L
RT: 11.388 min Scan# 1526
Delta R.T. -0.005 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion:130 Resp: 13249

Ion	Ratio	Lower	Upper
130	100		
95	104.3	70.1	130.1
130	100.0	70.0	130.0
132	96.8	67.2	127.2



7.1.17

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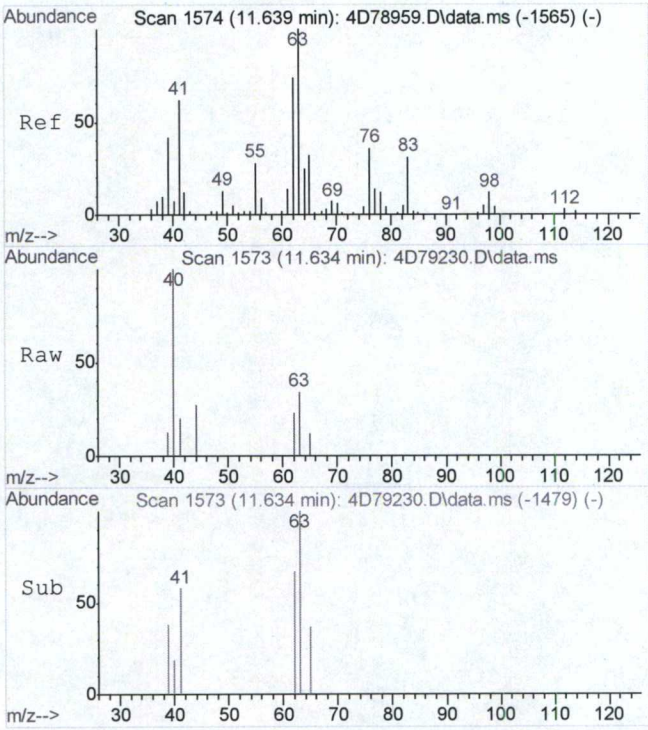
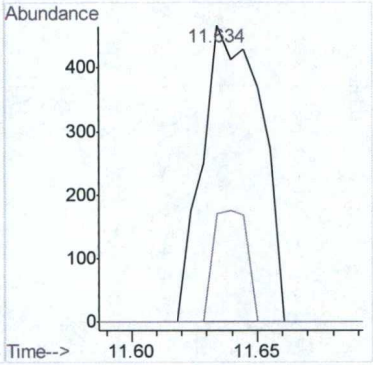
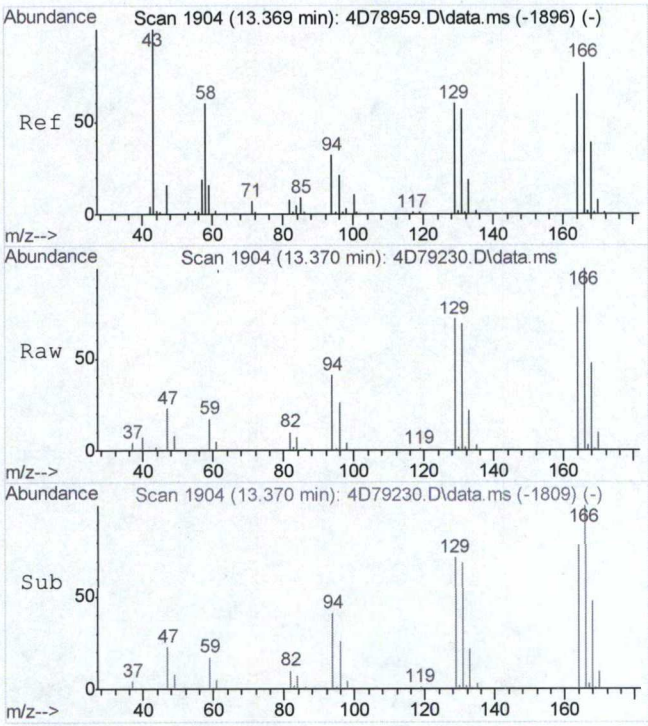


#66
1,2-dichloropropane
Concen: 0.24 ug/L
RT: 11.634 min Scan# 1573
Delta R.T. -0.005 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion: 63 Resp: 745

Ion	Ratio	Lower	Upper
63	100		
112	0.0	0.0	32.9
65	36.6	1.5	61.5

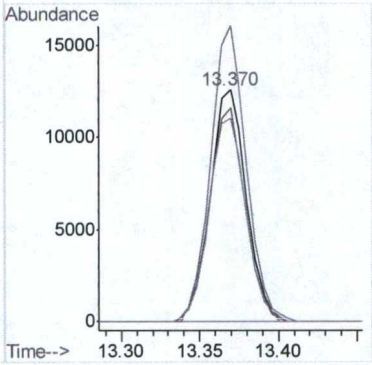




#80
tetrachloroethene
Concen: 9.00 ug/L
RT: 13.370 min Scan# 1904
Delta R.T. 0.001 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

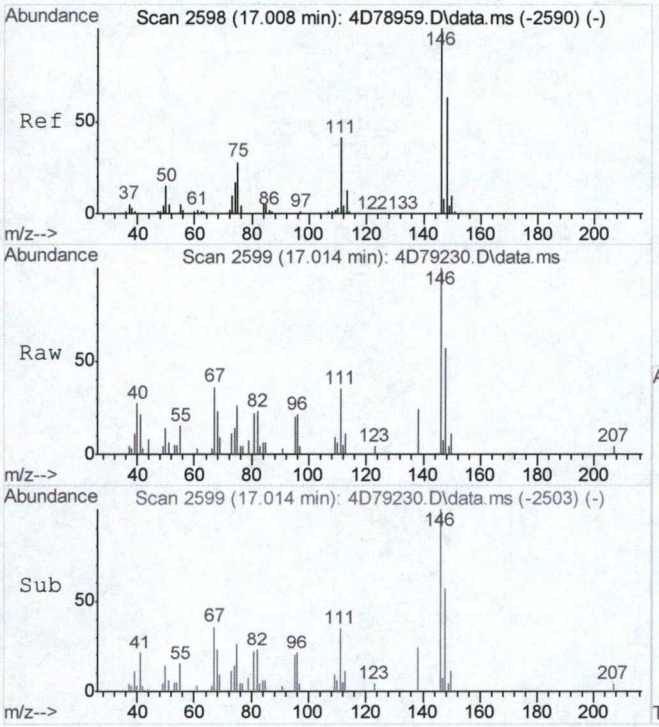
Tgt Ion:164 Resp: 19580

Ion	Ratio	Lower	Upper
164	100		
129	92.3	62.4	122.4
131	87.9	57.4	117.4
166	128.2	97.3	157.3



7.1.17

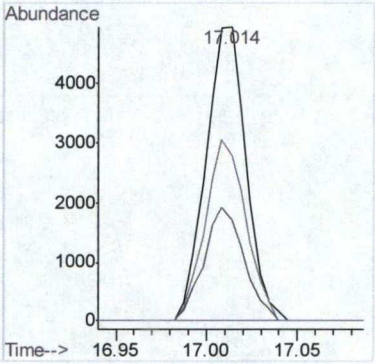
7



#115
1,2-dichlorobenzene
Concen: 1.29 ug/L
RT: 17.014 min Scan# 2599
Delta R.T. 0.006 min
Lab File: 4D79230.D
Acq: 18 May 2017 12:30 pm

Tgt Ion:146 Resp: 7603

Ion	Ratio	Lower	Upper
146	100		
111	35.1	10.5	70.5
148	56.9	33.1	93.1



7.1.17

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79211.D
Acq On : 18 May 2017 2:43 am
Operator : BridgetK
Sample : jc43354-18
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Time: May 18 13:40:08 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	143273	500.00	ug/L	0.00
5) pentafluorobenzene	10.098	168	198903	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	297596	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	252228	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	128914	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	103749	52.63	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 105.26%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	113947	53.02	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 106.04%			
75) toluene-d8 (s)	12.709	98	325977	49.93	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 99.86%			
99) 4-bromofluorobenzene (s)	15.372	95	120638	50.56	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.12%			
Target Compounds						Qvalue
29) 1,1-dichloroethane	8.672	63	1720	0.39	ug/L	84
37) cis-1,2-dichloroethene	9.485	96	864	0.33	ug/L #	68
46) 1,1,1-trichloroethane	10.192	97	773	0.23	ug/L	80

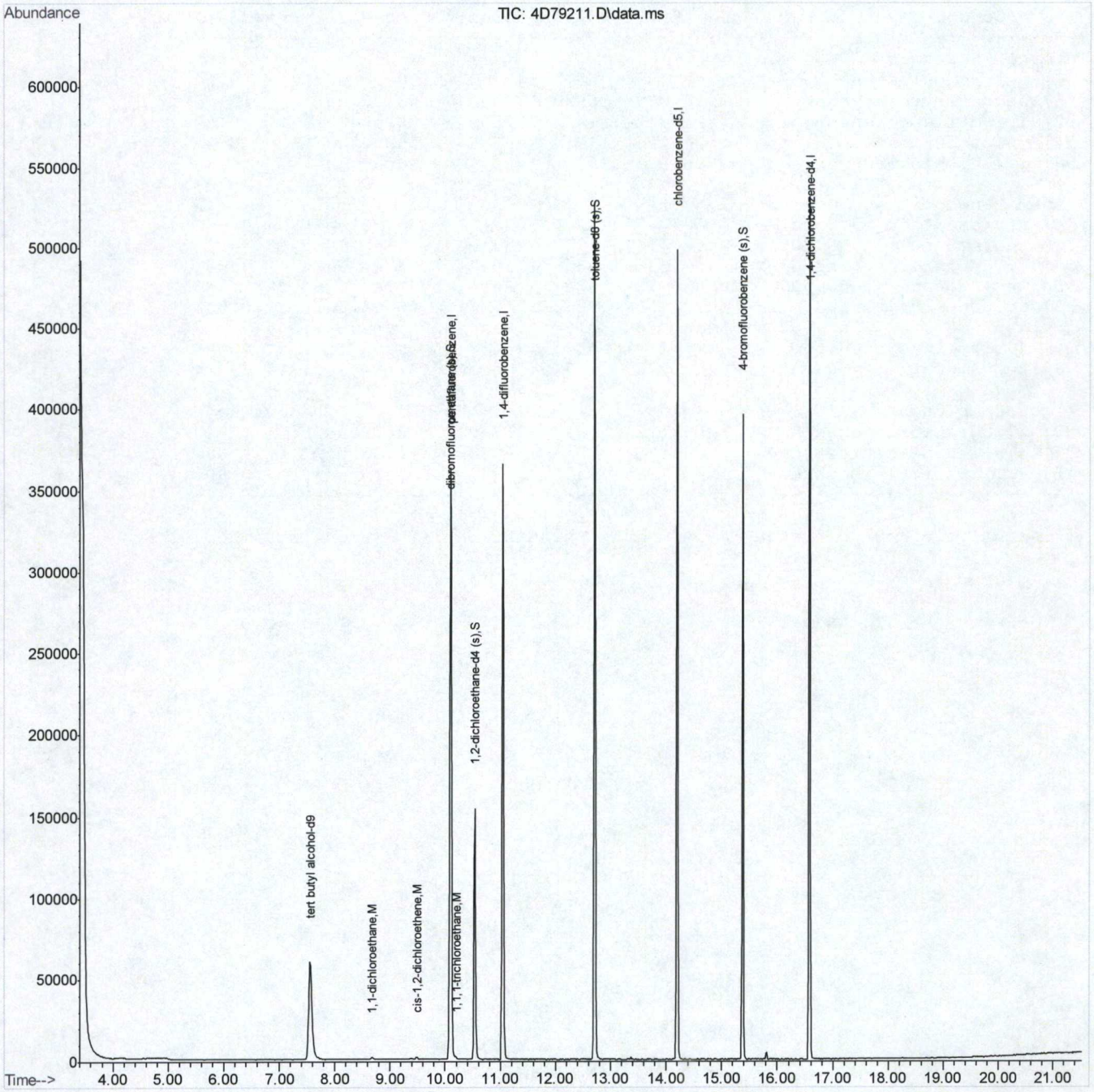
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.18 7

Quantitation Report (QT Reviewed)

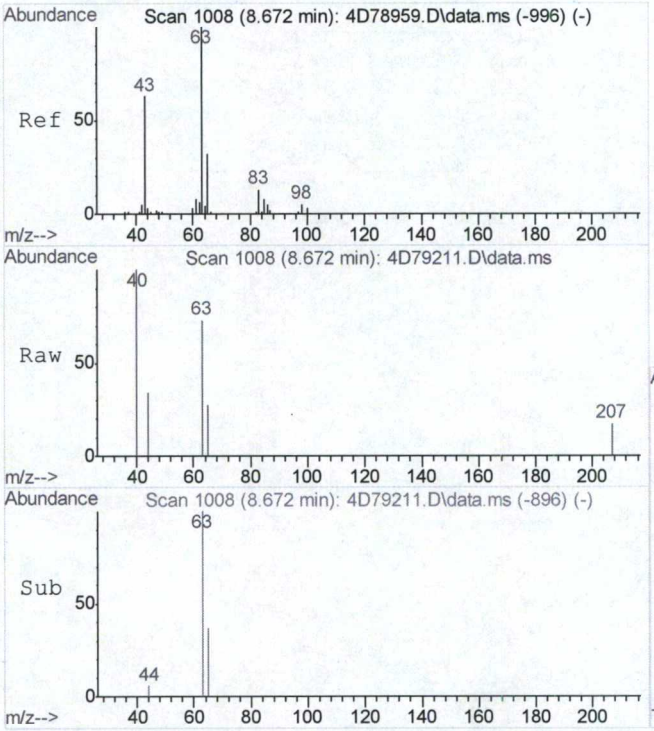
Data Path : C:\msdchem\1\data\
Data File : 4D79211.D
Acq On : 18 May 2017 2:43 am
Operator : BridgetK
Sample : jc43354-18
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Time: May 18 13:40:08 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



SGS ACCUTEST JC43354

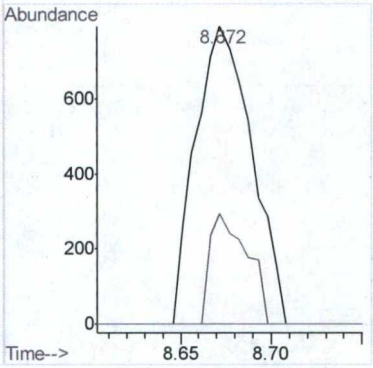
7.1.18 7

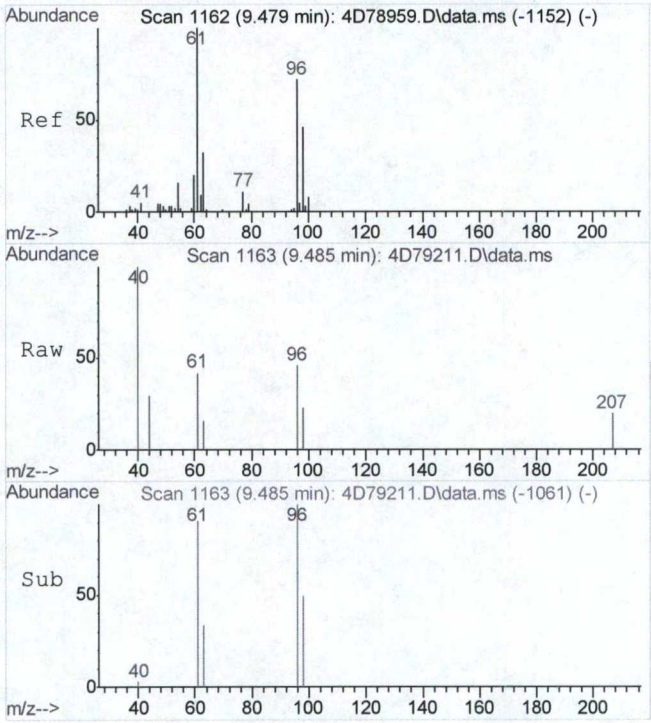


#29
1,1-dichloroethane
Concen: 0.39 ug/L
RT: 8.672 min Scan# 1008
Delta R.T. -0.000 min
Lab File: 4D79211.D
Acq: 18 May 2017 2:43 am

Tgt Ion: 63 Resp: 1720

Ion	Ratio	Lower	Upper
63	100		
65	36.9	1.6	61.6
83	0.0	0.0	43.1

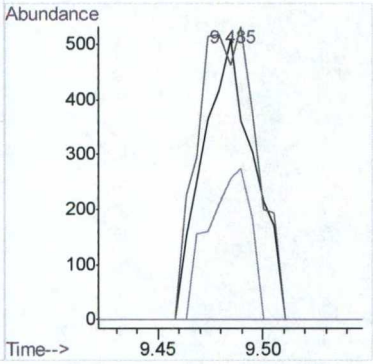




#37
cis-1,2-dichloroethene
Concen: 0.33 ug/L
RT: 9.485 min Scan# 1163
Delta R.T. 0.006 min
Lab File: 4D79211.D
Acq: 18 May 2017 2:43 am

Tgt Ion: 96 Resp: 864

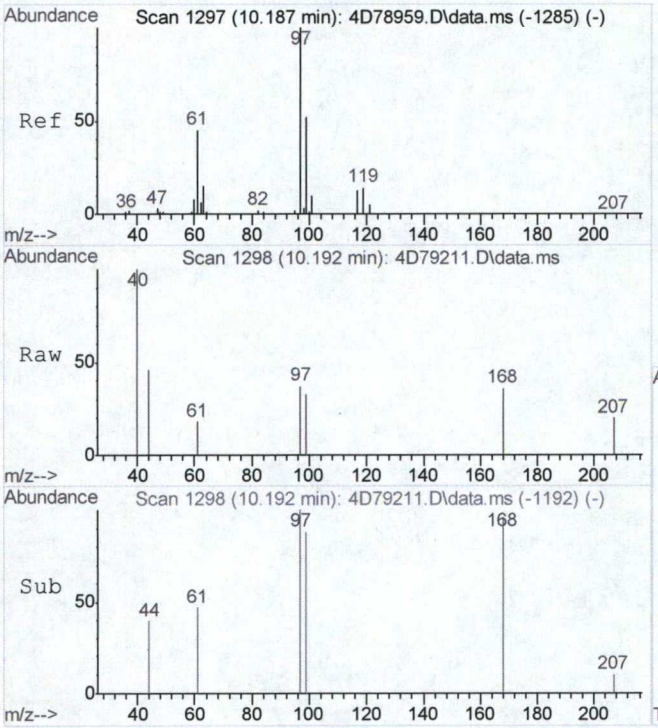
Ion	Ratio	Lower	Upper
96	100		
61	90.8	108.6	168.6#
98	50.5	33.9	93.9



7.1.18

7

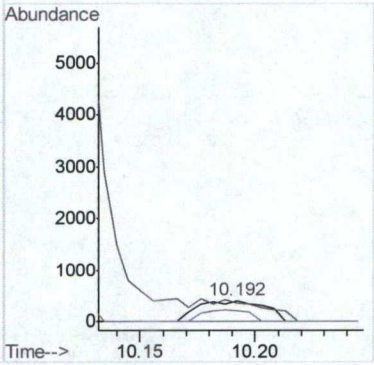
SGS ACCUTEST JC43354



#46
1,1,1-trichloroethane
Concen: 0.23 ug/L
RT: 10.192 min Scan# 1298
Delta R.T. 0.005 min
Lab File: 4D79211.D
Acq: 18 May 2017 2:43 am

Tgt Ion: 97 Resp: 773

Ion	Ratio	Lower	Upper
97	100		
99	88.3	34.0	94.0
61	47.2	14.9	74.9



7.1.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79203.D
Acq On : 17 May 2017 11:02 pm
Operator : BridgetK
Sample : jc43354-19
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 18 13:35:18 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	155706	500.00 ug/L	0.00
5) pentafluorobenzene	10.103	168	216667	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	319037	50.00 ug/L	0.00
74) chlorobenzene-d5	14.198	117	271301	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	138189	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.087	113	109767	51.12 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 102.24%		
53) 1,2-dichloroethane-d4 (s)	10.533	65	116781	50.68 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 101.36%		
75) toluene-d8 (s)	12.709	98	350153	49.86 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 99.72%		
99) 4-bromofluorobenzene (s)	15.372	95	127419	49.81 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.62%		

Target Compounds Qvalue

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

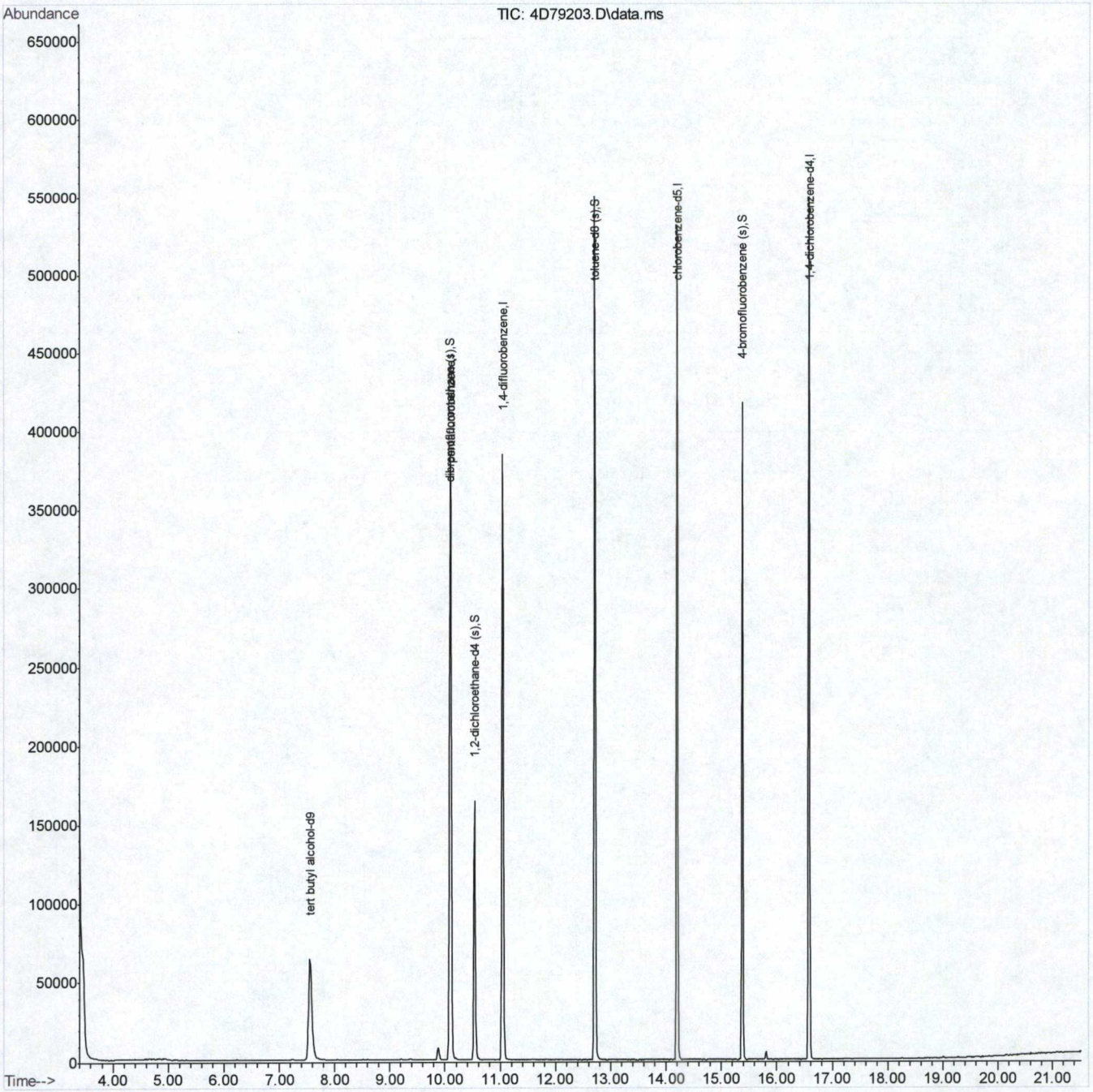
7.1.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79203.D
Acq On : 17 May 2017 11:02 pm
Operator : BridgetK
Sample : jc43354-19
Misc : MS16090,V4D3423,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 18 13:35:18 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 13:35:42 2017 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79198.D
Acq On : 17 May 2017 8:44 pm
Operator : BridgetK
Sample : mb
Misc : MS15947,V4D3423,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 18 13:33:51 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	148017	500.00 ug/L	0.00
5) pentafluorobenzene	10.098	168	214220	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	317763	50.00 ug/L	0.00
74) chlorobenzene-d5	14.198	117	267632	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	137040	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.088	113	109370	51.52 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 103.04%		
53) 1,2-dichloroethane-d4 (s)	10.533	65	115274	50.23 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 100.46%		
75) toluene-d8 (s)	12.709	98	347994	50.24 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.48%		
99) 4-bromofluorobenzene (s)	15.372	95	127633	50.32 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.64%		

Target Compounds Qvalue

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

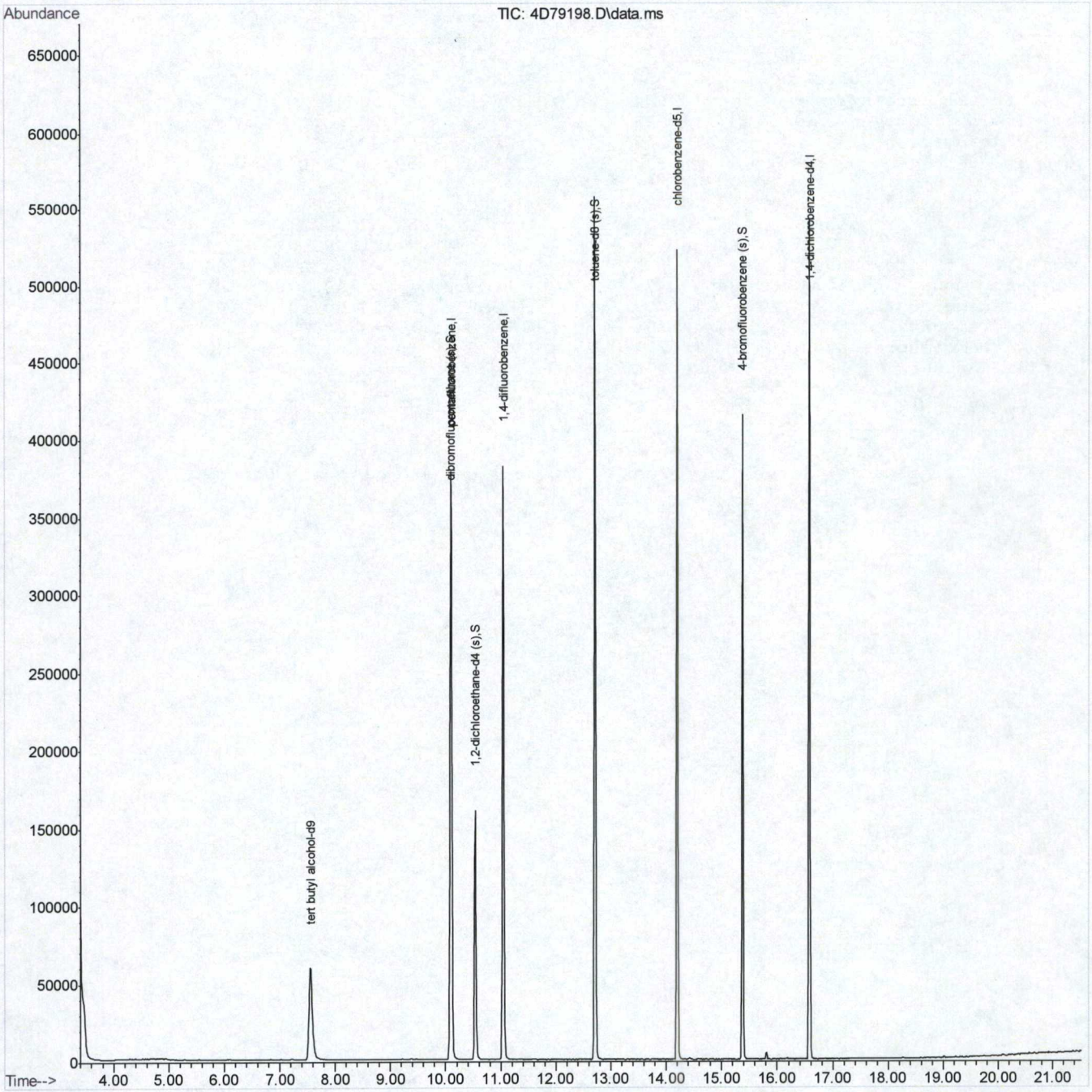
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79198.D
Acq On : 17 May 2017 8:44 pm
Operator : BridgetK
Sample : mb
Misc : MS15947,V4D3423,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 18 13:33:51 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



SGS ACCUTEST JC43354

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79226.D
Acq On : 18 May 2017 10:14 am
Operator : BridgetK
Sample : mb
Misc : MS16090,V4D3424,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 19 10:23:13 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	158437	500.00 ug/L	0.00
5) pentafluorobenzene	10.103	168	221682	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	330903	50.00 ug/L	0.00
74) chlorobenzene-d5	14.198	117	281618	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	140355	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.087	113	115885	52.75 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 105.50%		
53) 1,2-dichloroethane-d4 (s)	10.533	65	130616	54.66 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 109.32%		
75) toluene-d8 (s)	12.709	98	363266	49.84 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 99.68%		
99) 4-bromofluorobenzene (s)	15.372	95	133974	51.57 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.14%		

Target Compounds Qvalue

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