

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121619\
 Data File : VX014045.D
 Acq On : 16 Dec 2019 19:07
 Operator : JC/SP
 Sample : K6251-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D1-20191206

Quant Time: Dec 17 03:32:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	564704	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	867852	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	758944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	324419	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	317120	49.55	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.10%	
35) Dibromofluoromethane	5.49	113	260683	49.41	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.82%	
50) Toluene-d8	8.71	98	1014981	49.42	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.84%	
62) 4-Bromofluorobenzene	11.13	95	333777	44.46	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	88.92%	

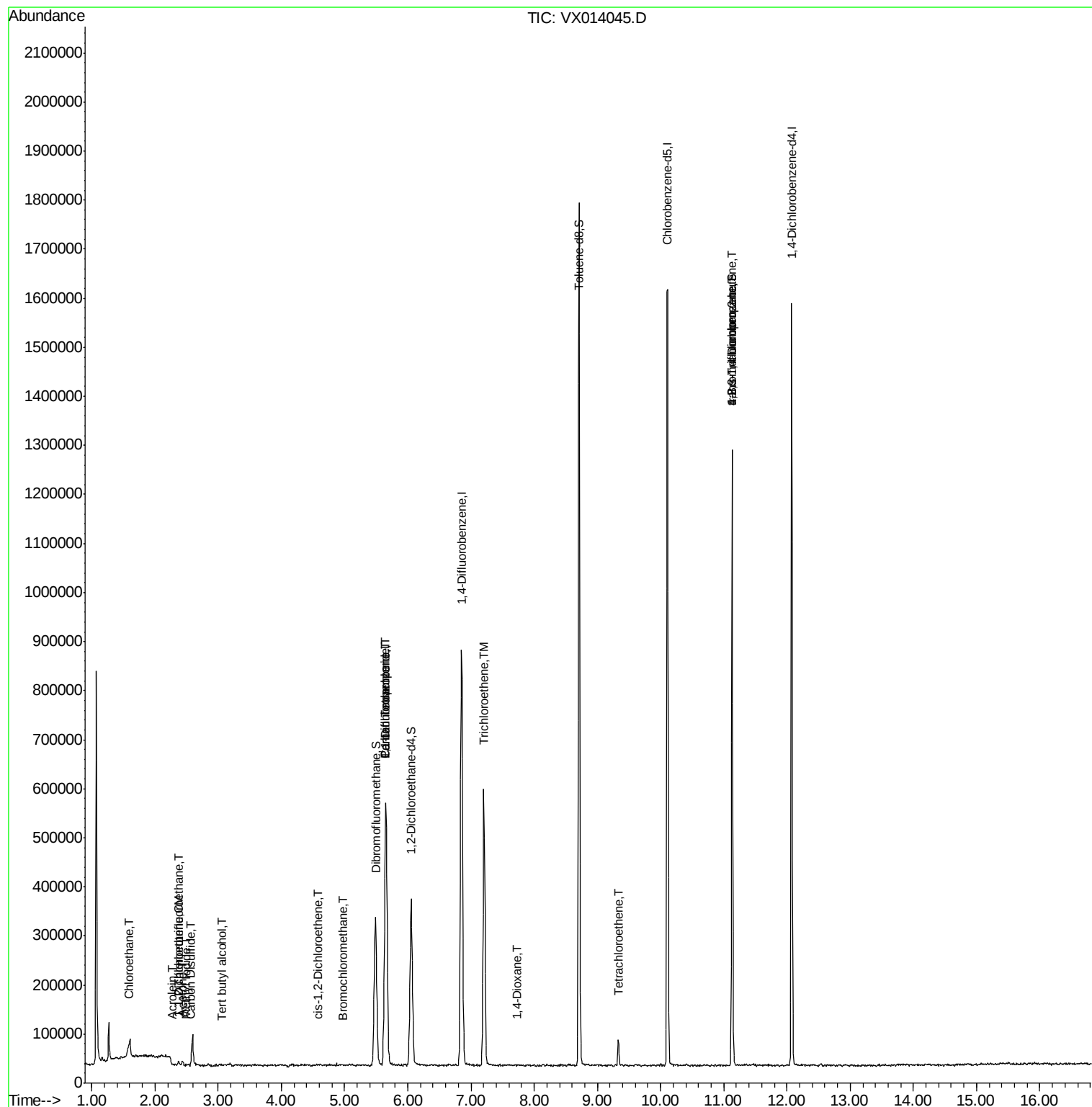
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.58	64	11260	2.550	ug/l #	50
9) 1,1,2-Trichlorotrifluoroet	2.38	101	2913	0.546	ug/l #	83
10) Methyl Iodide	2.48	142	140	2.640	ug/l #	1
11) Tert butyl alcohol	3.07	59	340	0.246	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	1589	0.293	ug/l #	86
13) Acrolein	2.28	56	382	0.483	ug/l #	70
16) Acetone	2.43	43	9321	2.243	ug/l	92
17) Carbon Disulfide	2.56	76	1210	0.829	ug/l #	5
27) cis-1,2-Dichloroethene	4.58	96	2070	0.306	ug/l	60
28) Bromochloromethane	4.98	49	692	0.620	ug/l #	30
36) 1,1-Dichloropropene	5.65	75	38672	4.856	ug/l #	51
38) Carbon Tetrachloride	5.65	117	49601	6.838	ug/l #	15
44) Trichloroethene	7.21	130	227285	33.585	ug/l	98
49) 1,4-Dioxane	7.73	88	2898	19.984	ug/l #	76
64) Tetrachloroethene	9.33	164	11961	1.781	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	162925	23.133	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	162925	65.292	ug/l #	12

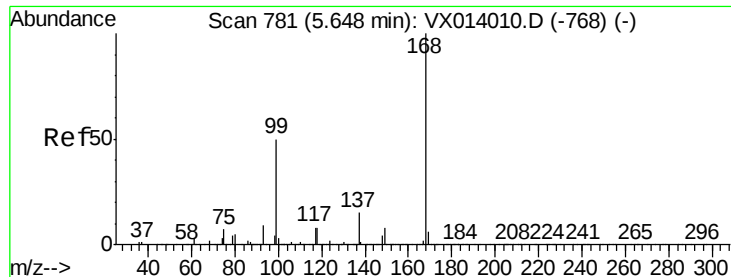
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

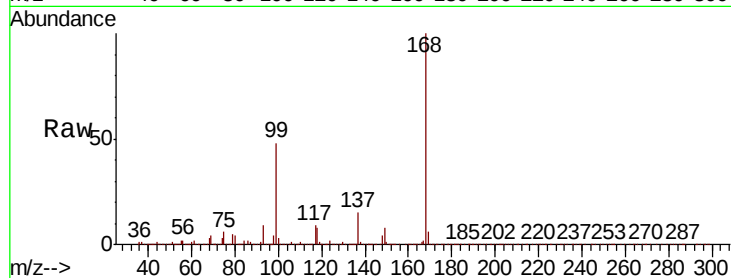
RE108D1-20191206

Tot Ion:168 Resp: 564704

Ion Ratio Lower Upper

168 100

99 47.7 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

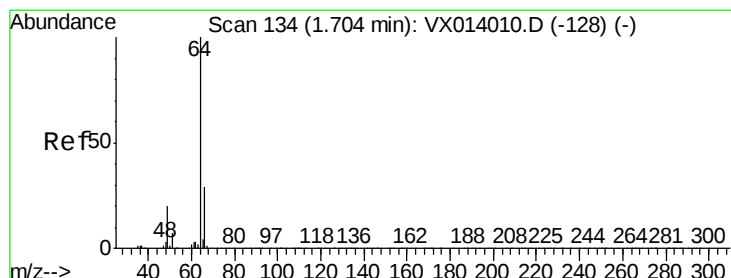
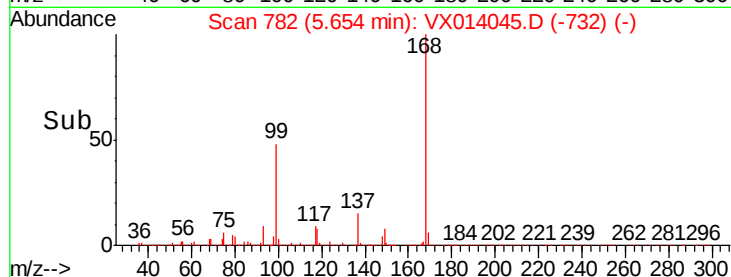
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 2.550 ug/l

RT: 1.58 min Scan# 114

Delta R.T. -0.12 min

Lab File: VX014045.D

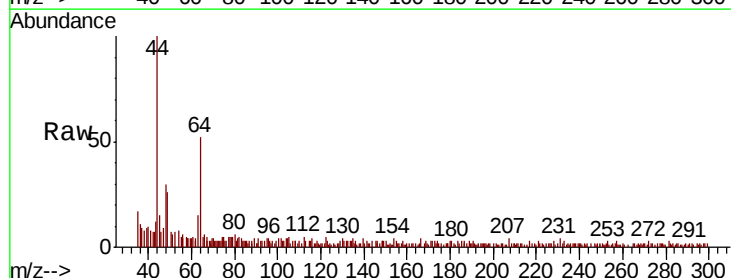
Acq: 16 Dec 2019 19:07

Tgt Ion: 64 Resp: 11260

Ion Ratio Lower Upper

64 100

66 2.6 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.58

4000

3000

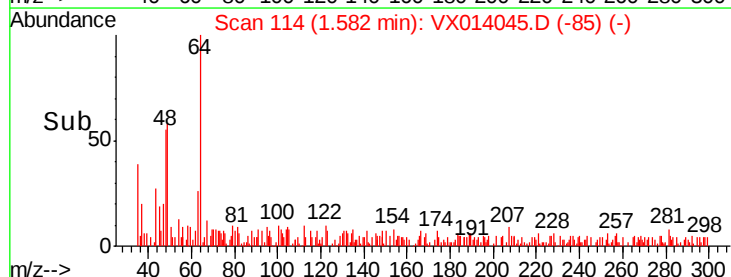
2000

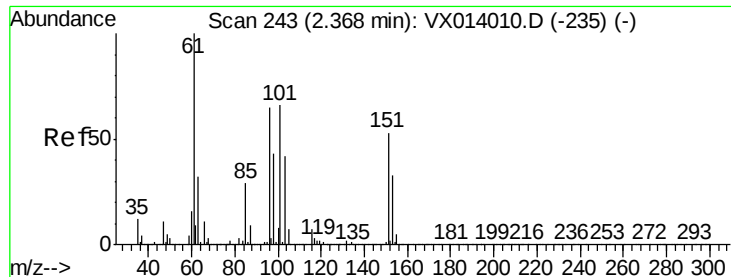
1000

0

Time-->

1.40 1.50 1.60





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.546 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20191206

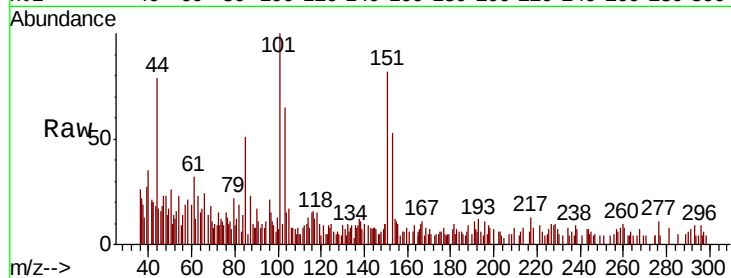
Tot Ion:101 Resp: 2913

Ion Ratio Lower Upper

101 100

85 37.9 33.7 50.5

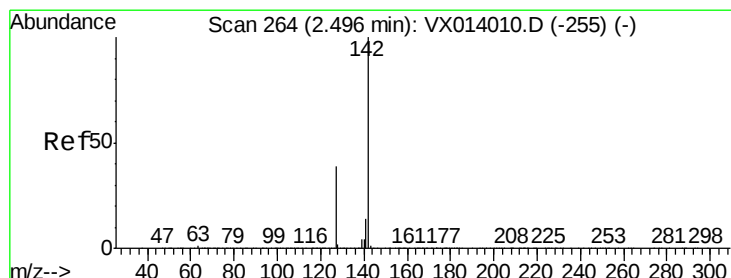
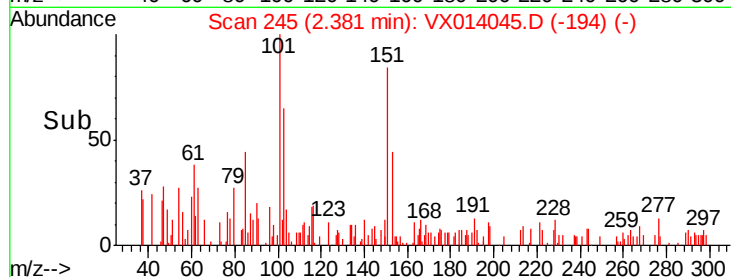
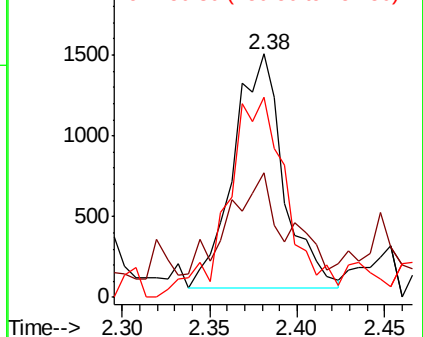
151 101.1 64.5 96.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.640 ug/l

RT: 2.48 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

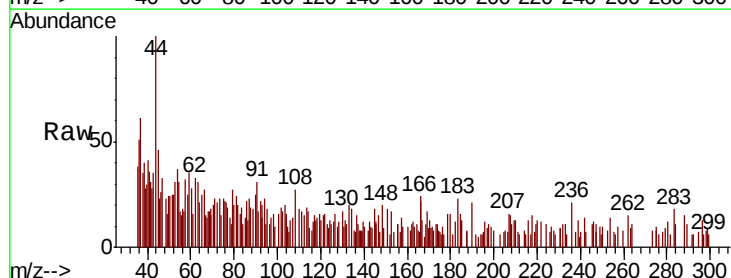
Tgt Ion:142 Resp: 140

Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

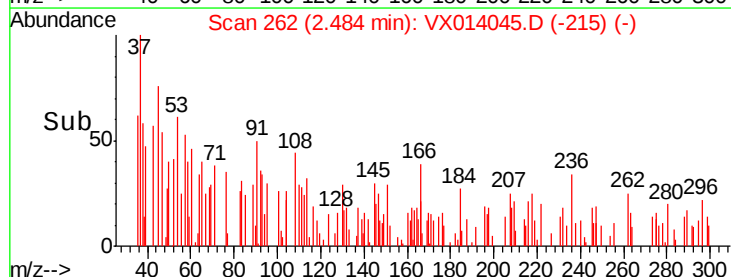
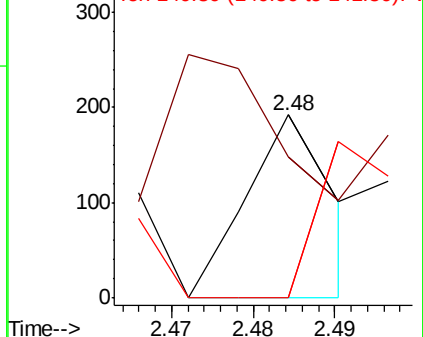
141 143.6 11.6 17.4#

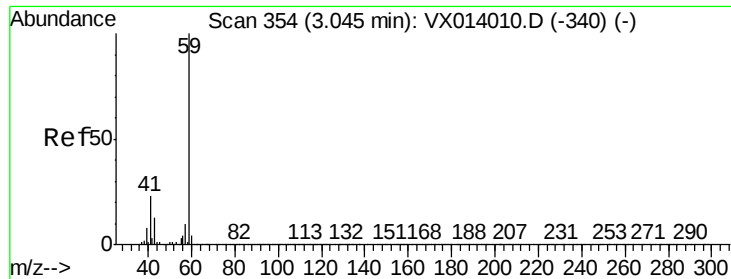


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



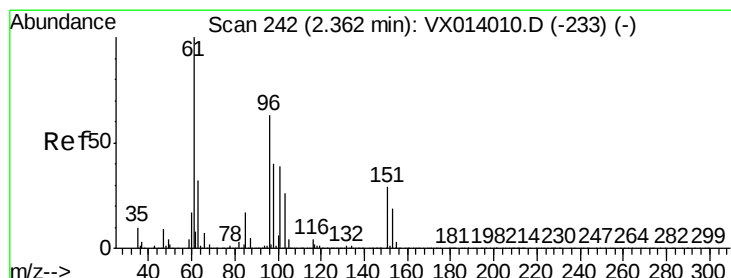
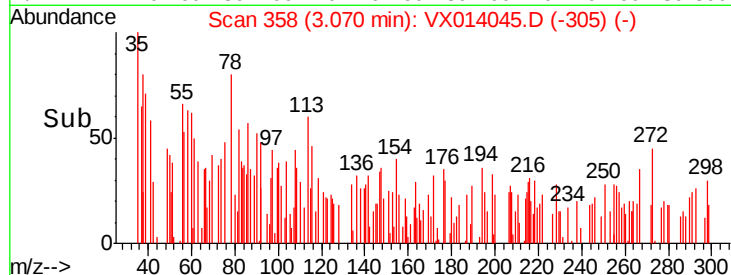
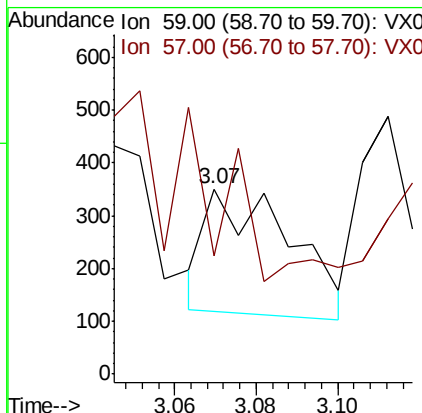
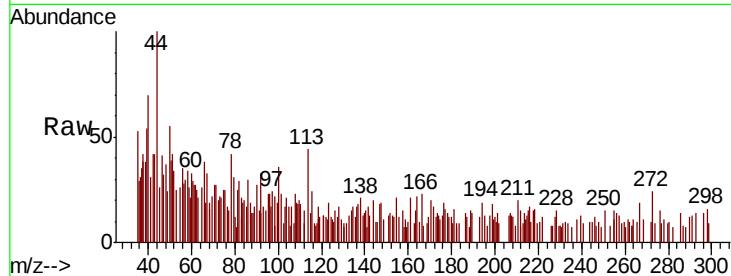


#11

Tert butyl alcohol
Concen: 0.246 ug/l
RT: 3.07 min Scan# 358
Delta R.T. 0.02 min
Lab File: VX014045.D
Acq: 16 Dec 2019 19:07

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20191206

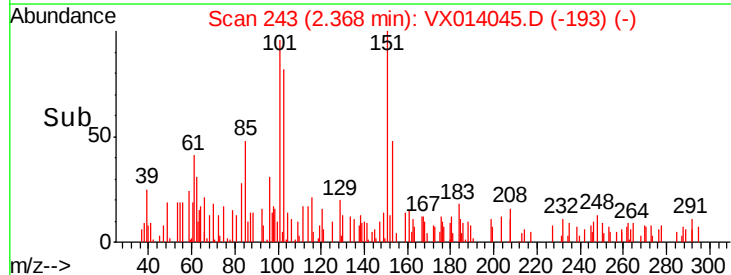
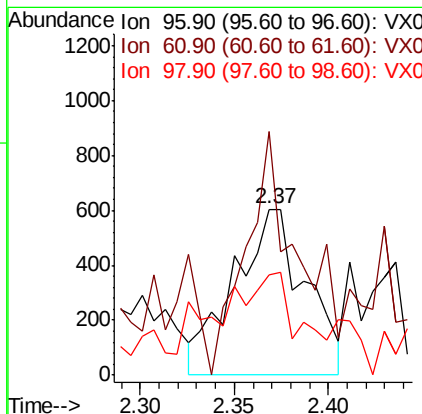
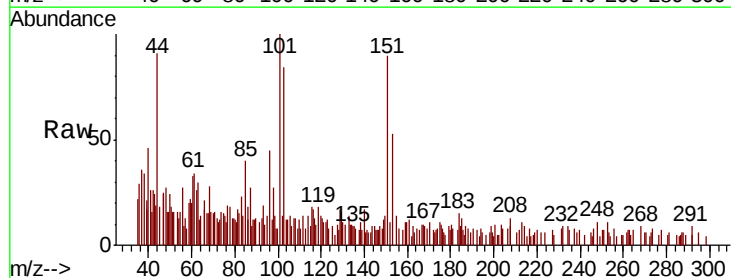
Tot Ion: 59 Resp: 340
Ion Ratio Lower Upper
59 100
57 122.4 8.4 12.6#

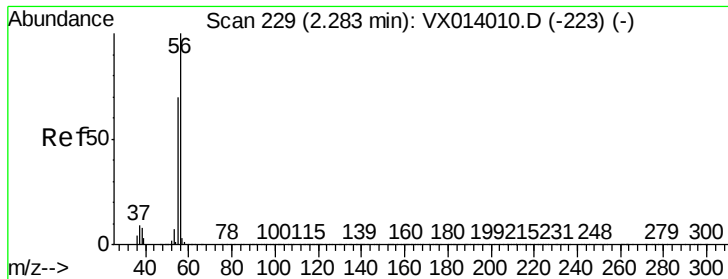


#12

1,1-Dichloroethene
Concen: 0.293 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX014045.D
Acq: 16 Dec 2019 19:07

Tgt Ion: 96 Resp: 1589
Ion Ratio Lower Upper
96 100
61 154.5 127.9 191.9
98 33.7 50.5 75.7#





#13

Acrolein

Concen: 0.483 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

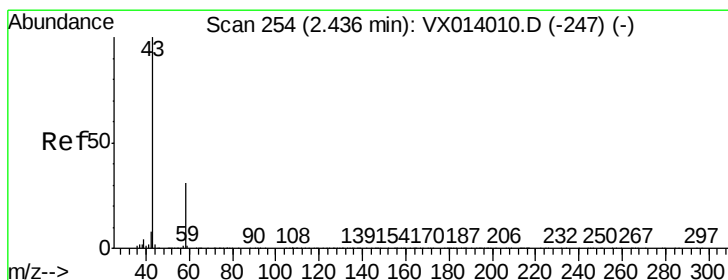
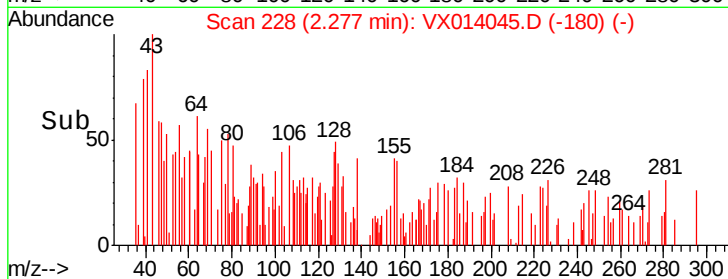
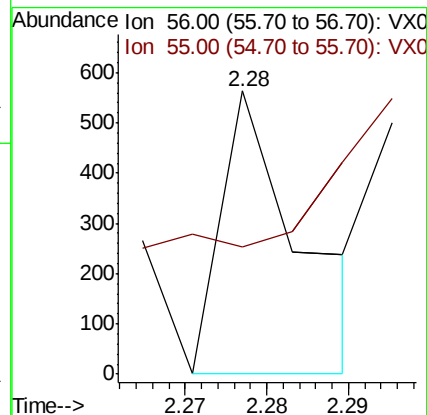
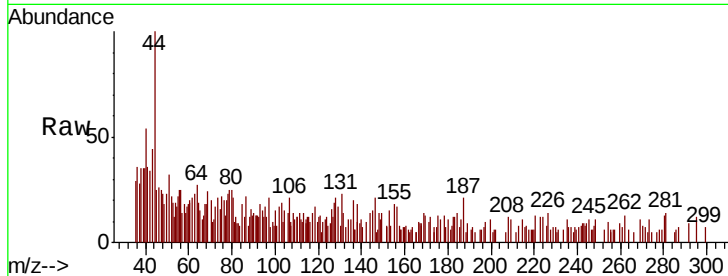
RE108D1-20191206

Tot Ion: 56 Resp: 382

Ion Ratio Lower Upper

56 100

55 95.8 56.9 85.3#



#16

Acetone

Concen: 2.243 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014045.D

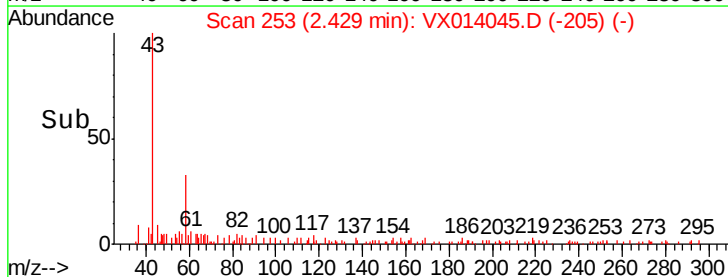
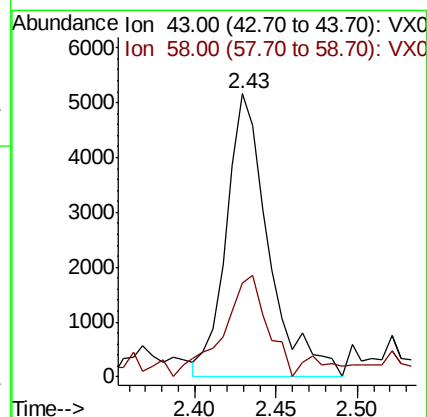
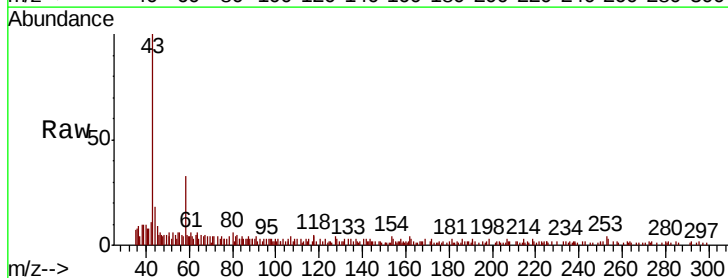
Acq: 16 Dec 2019 19:07

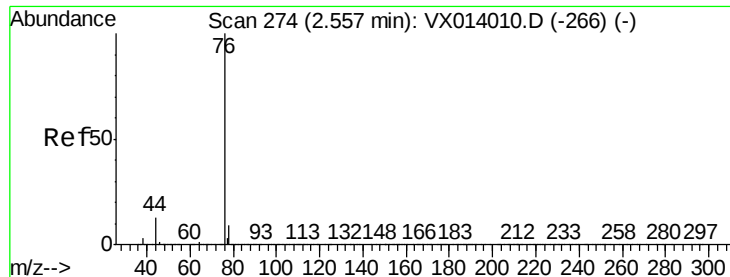
Tgt Ion: 43 Resp: 9321

Ion Ratio Lower Upper

43 100

58 26.7 24.9 37.3





#17

Carbon Disulfide

Concen: 0.829 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

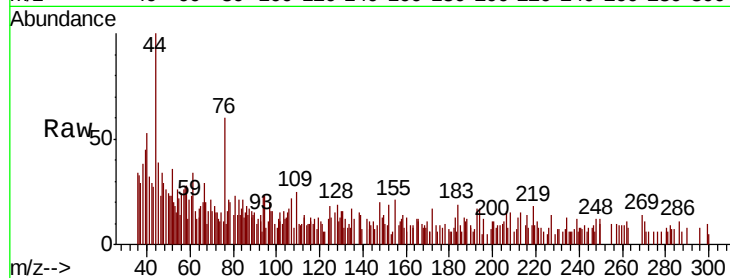
RE108D1-20191206

Tot Ion: 76 Resp: 1210

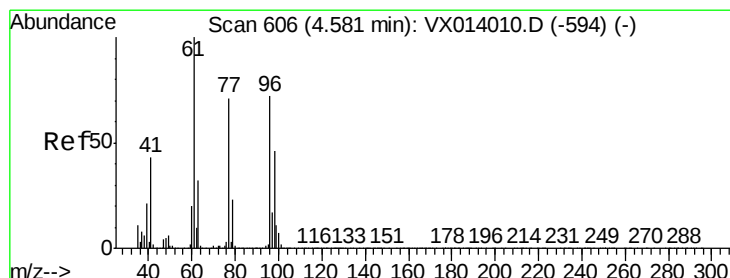
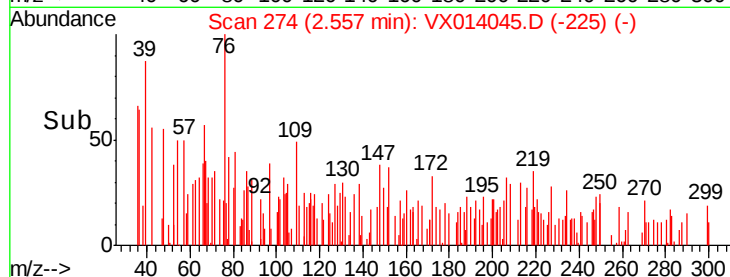
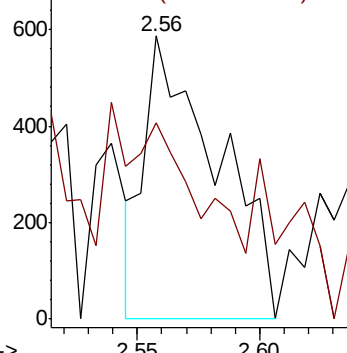
Ion Ratio Lower Upper

76 100

78 43.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.306 ug/l

RT: 4.58 min Scan# 606

Delta R.T. 0.00 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

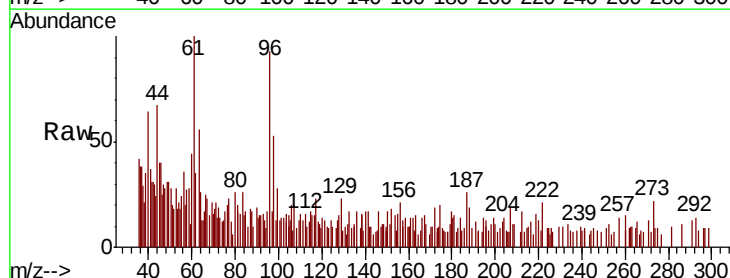
Tgt Ion: 96 Resp: 2070

Ion Ratio Lower Upper

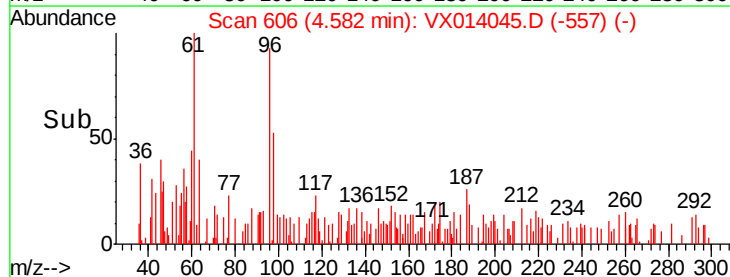
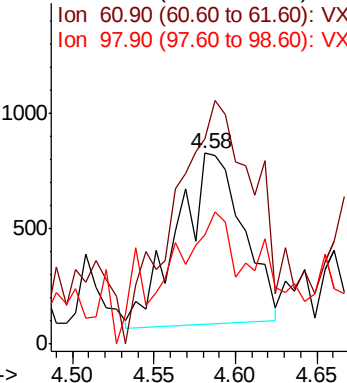
96 100

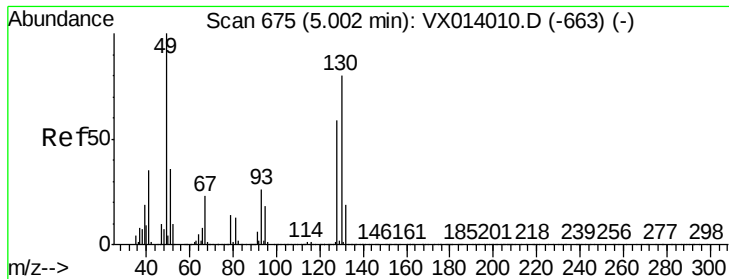
61 193.0 0.0 288.4

98 32.0 0.0 129.6



Abundance Ion 95.90 (95.60 to 96.60): VX0





#28

Bromochloromethane

Concen: 0.620 ug/l

RT: 4.98 min Scan# 671

Delta R.T. -0.02 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

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ClientSampleId :

RE108D1-20191206

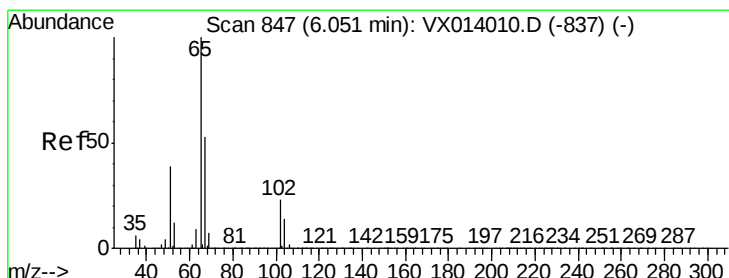
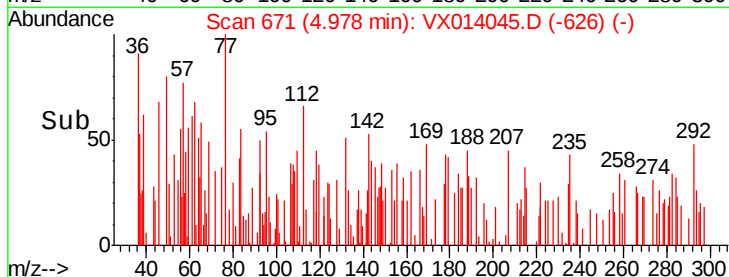
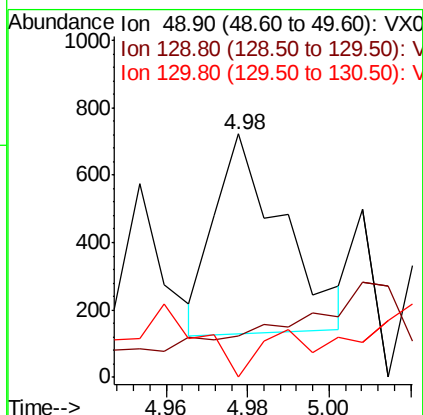
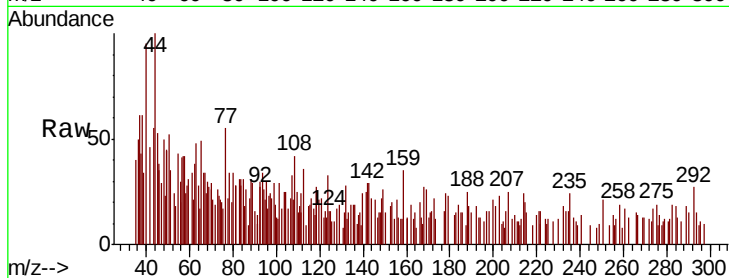
Tot Ion: 49 Resp: 692

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 17.1 64.6 97.0#



#33

1,2-Dichloroethane-d4

Concen: 49.549 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014045.D

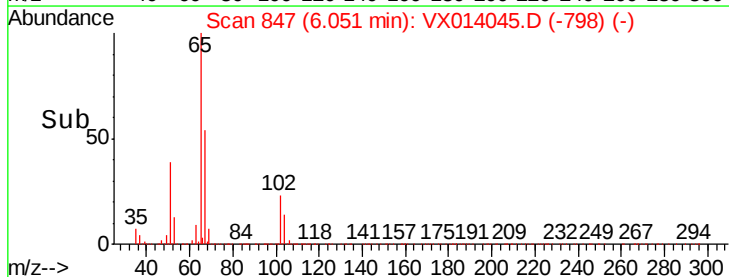
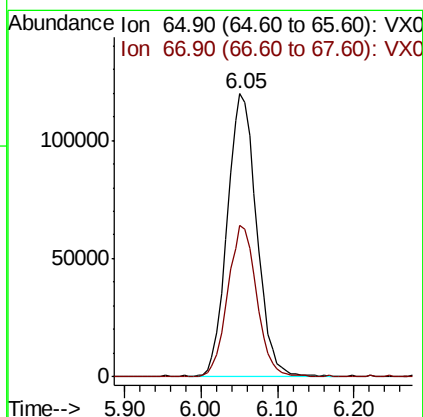
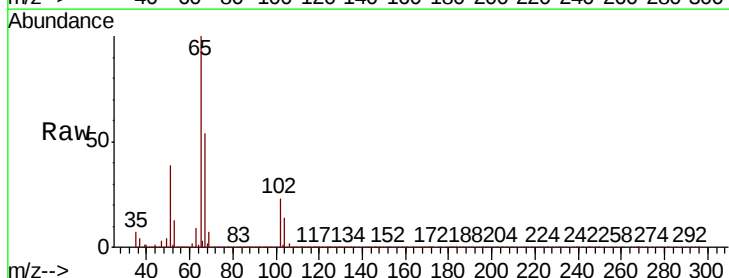
Acq: 16 Dec 2019 19:07

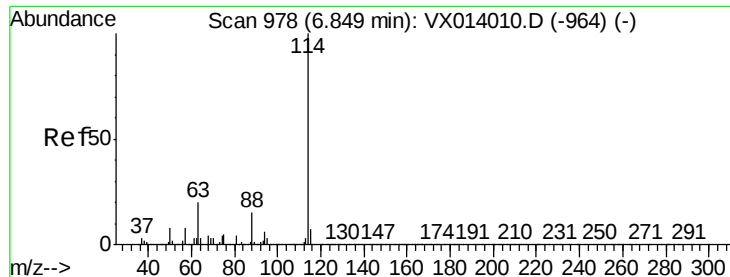
Tgt Ion: 65 Resp: 317120

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.4

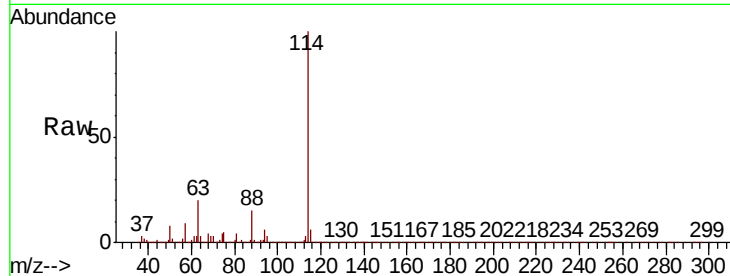




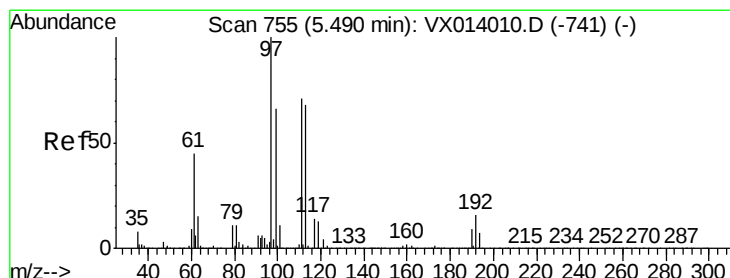
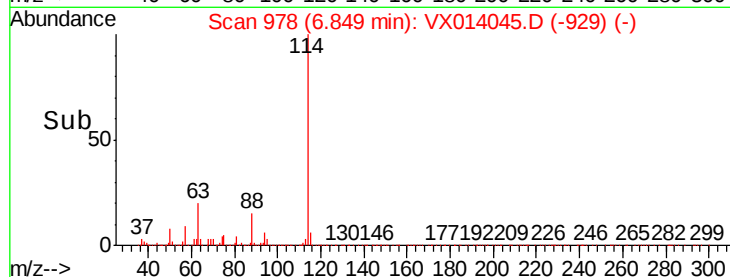
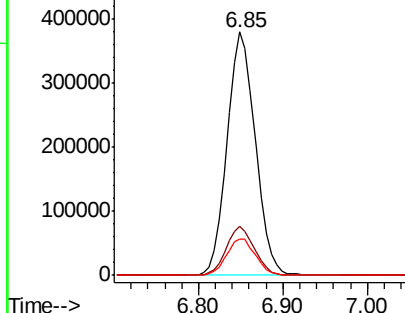
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX014045.D
Acq: 16 Dec 2019 19:07

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20191206

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.8
88	15.1	0.0	30.4

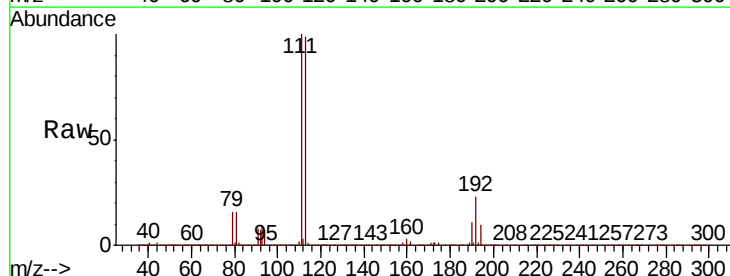


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

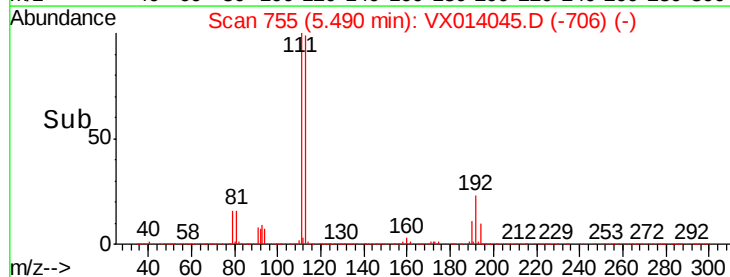
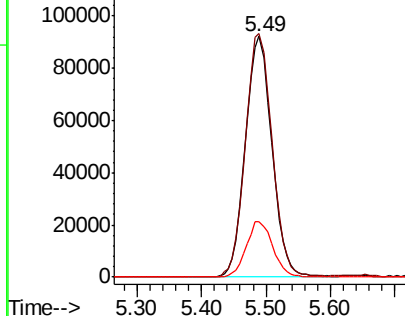


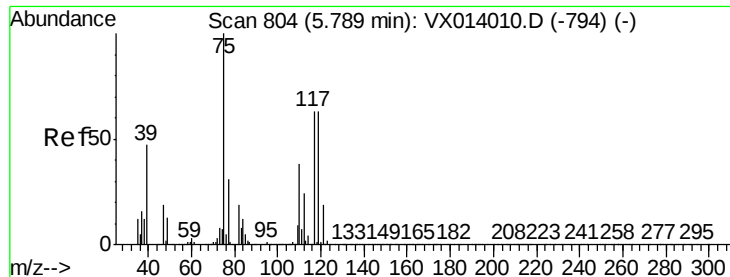
#35
Dibromofluoromethane
Concen: 49.413 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014045.D
Acq: 16 Dec 2019 19:07

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.0	123.0
192	23.1	19.3	28.9



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

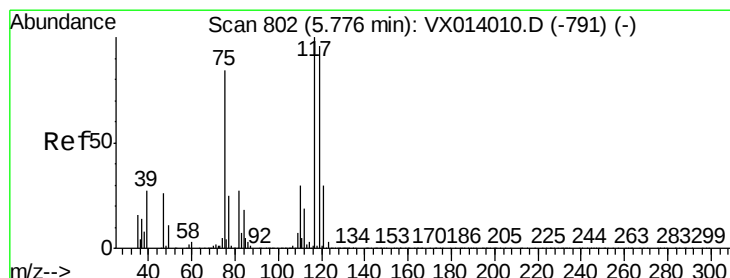
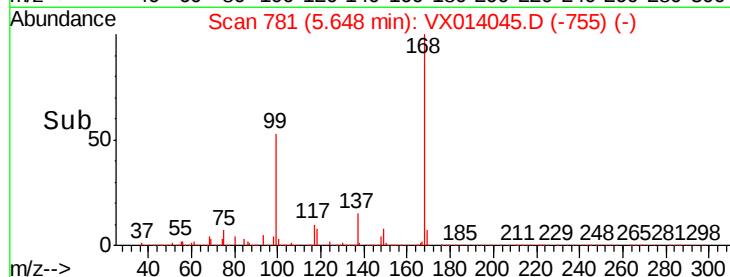
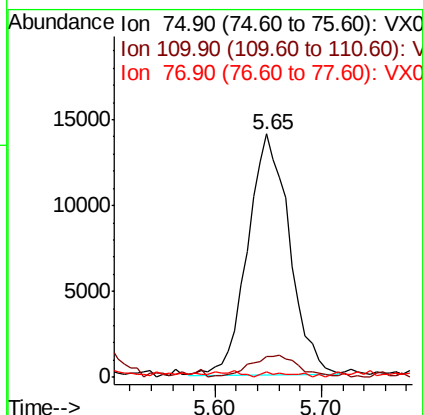
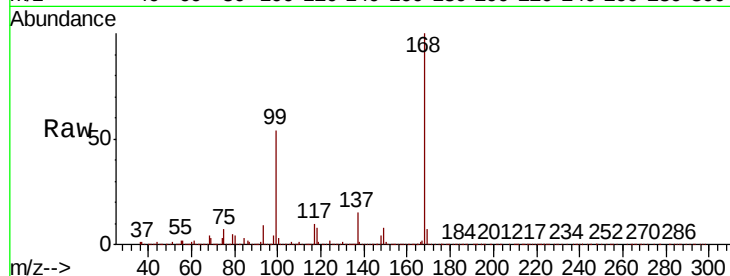




#36
 1,1-Dichloropropene
 Concen: 4.856 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014045.D
 Acq: 16 Dec 2019 19:07

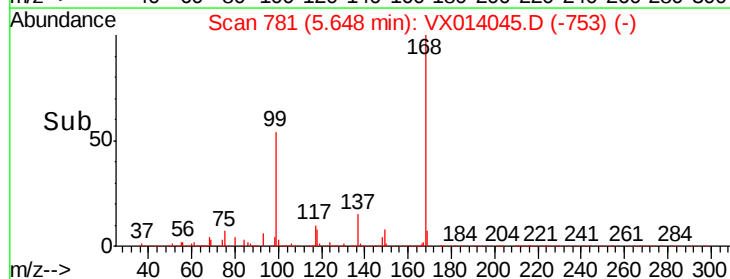
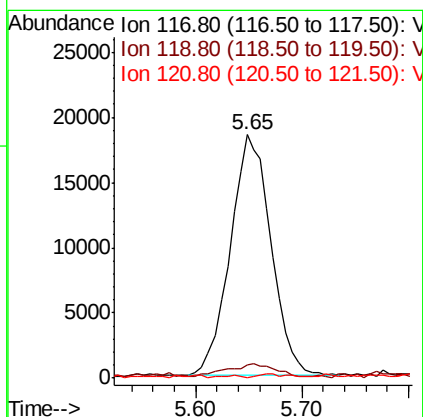
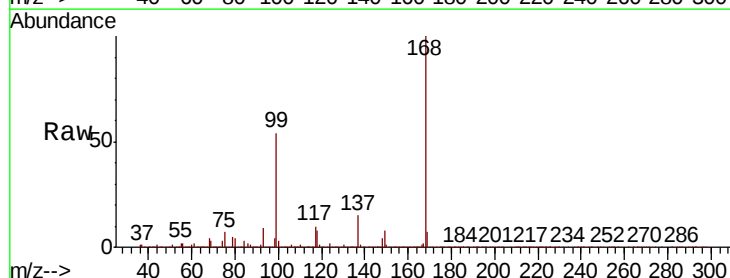
Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D1-20191206

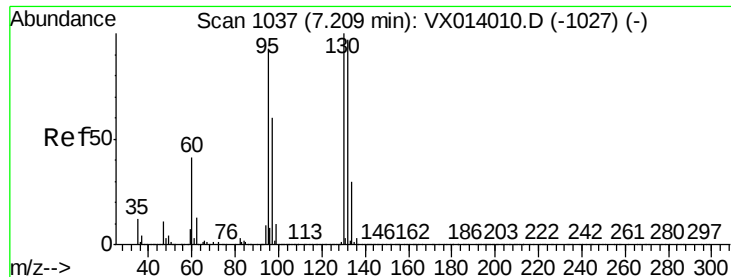
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.3	54.9#
77	1.7	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.838 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014045.D
 Acq: 16 Dec 2019 19:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	76.2	114.4#
121	0.0	23.6	35.4#





#44

Trichloroethene

Concen: 33.585 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

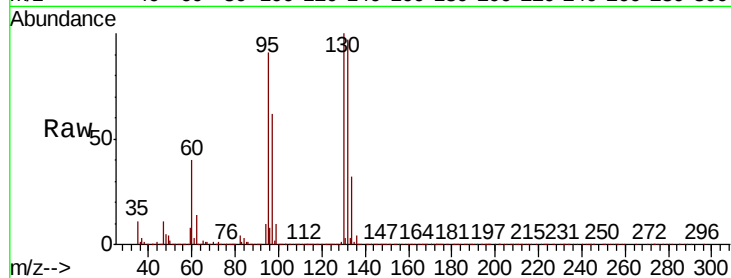
RE108D1-20191206

Tot Ion:130 Resp: 227285

Ion Ratio Lower Upper

130 100

95 90.8 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

120000

100000

80000

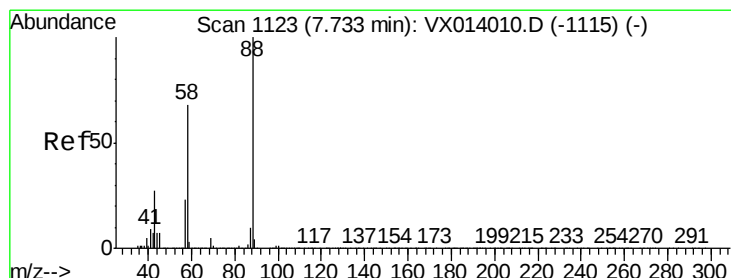
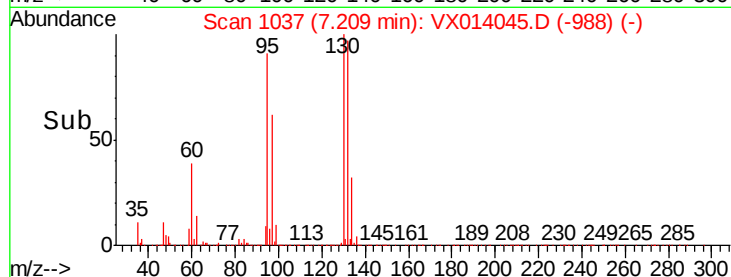
60000

40000

20000

0

Time-->



#49

1,4-Dioxane

Concen: 19.984 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

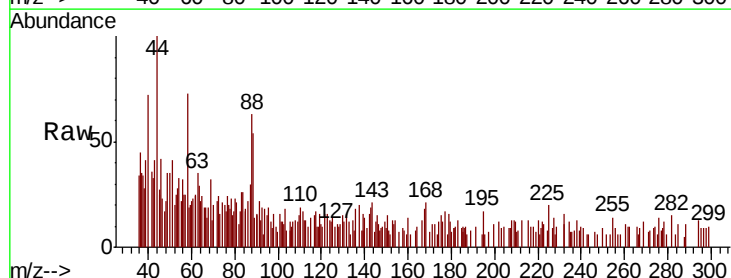
Tgt Ion: 88 Resp: 2898

Ion Ratio Lower Upper

88 100

43 63.5 26.5 39.7#

58 62.5 56.8 85.2



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.73

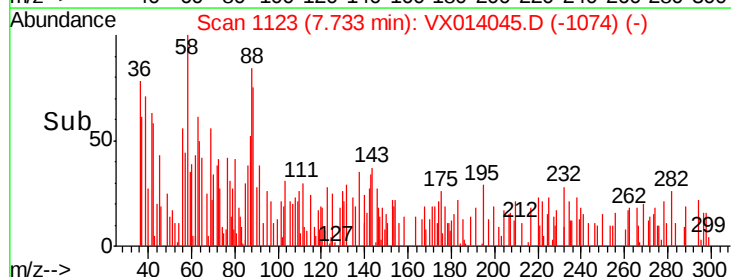
1500

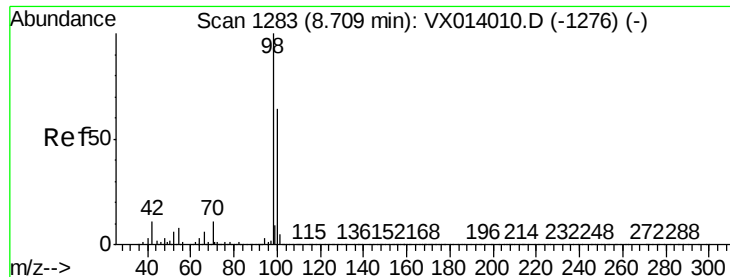
1000

500

0

Time-->





#50

Toluene-d8

Concen: 49.417 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

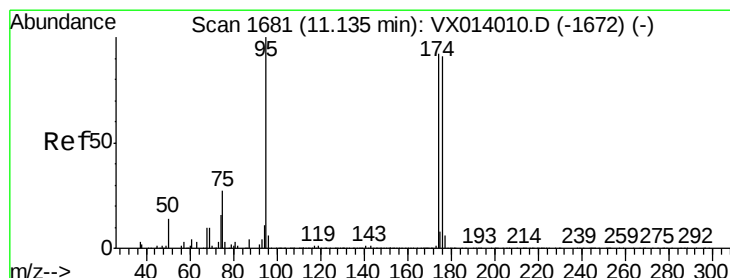
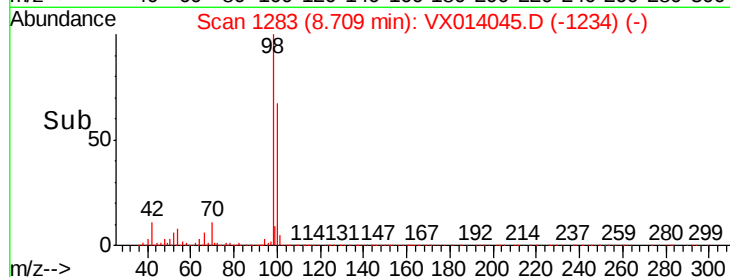
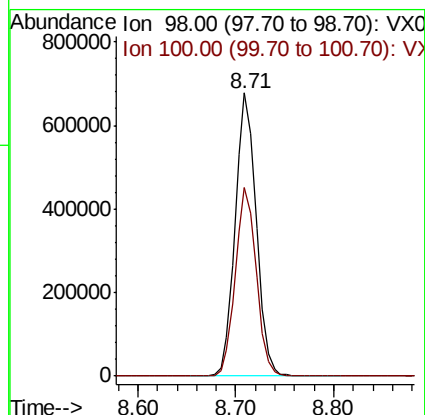
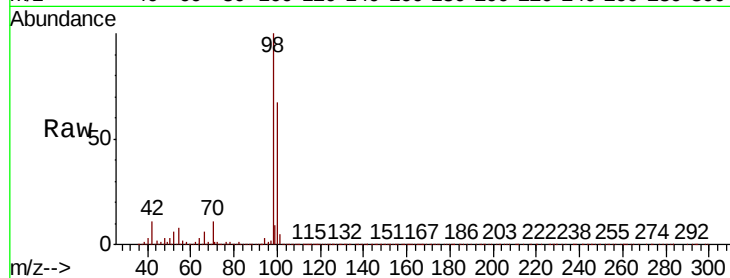
RE108D1-20191206

Tot Ion: 98 Resp: 1014981

Ion Ratio Lower Upper

98 100

100 66.3 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 44.456 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

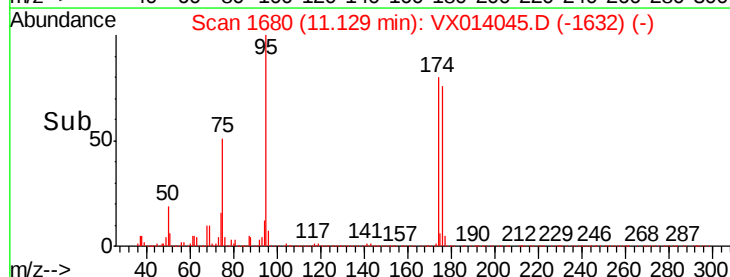
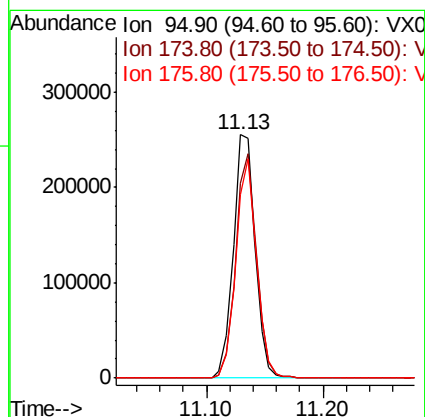
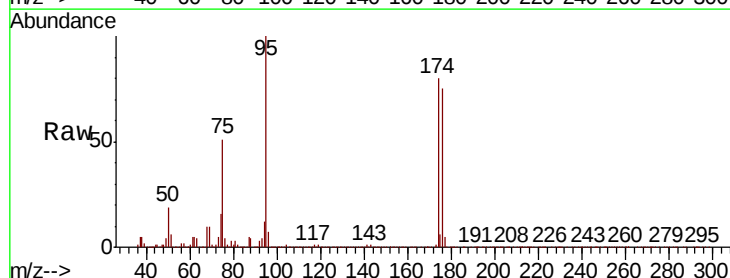
Tgt Ion: 95 Resp: 333777

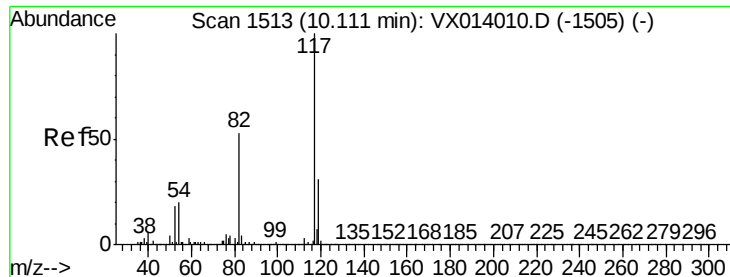
Ion Ratio Lower Upper

95 100

174 88.9 0.0 175.8

176 85.9 0.0 173.0

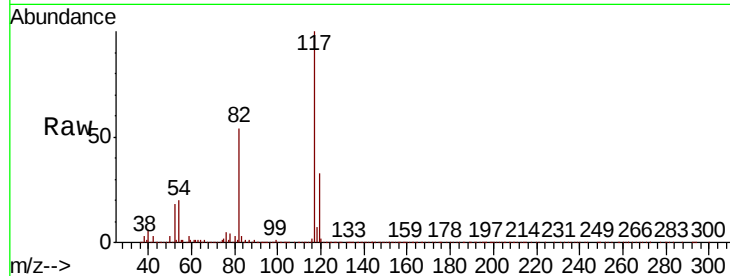




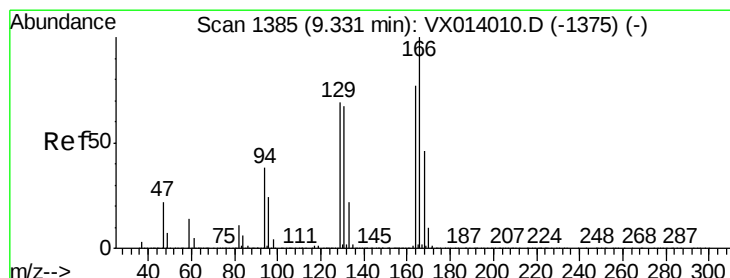
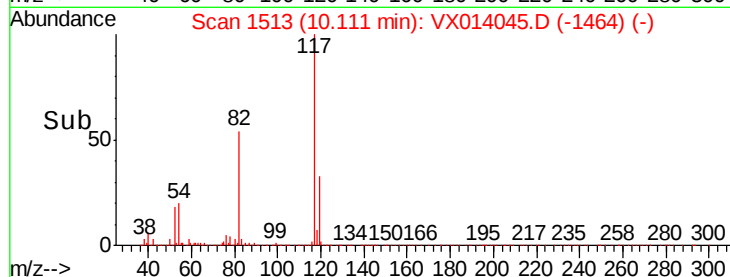
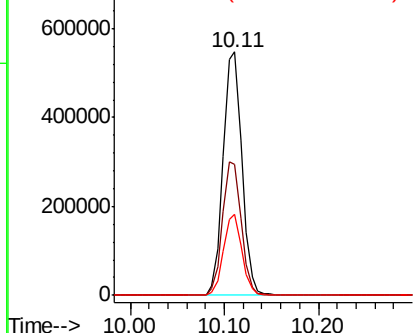
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014045.D
Acq: 16 Dec 2019 19:07

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20191206

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	42.2	63.4
119	33.3	25.1	37.7



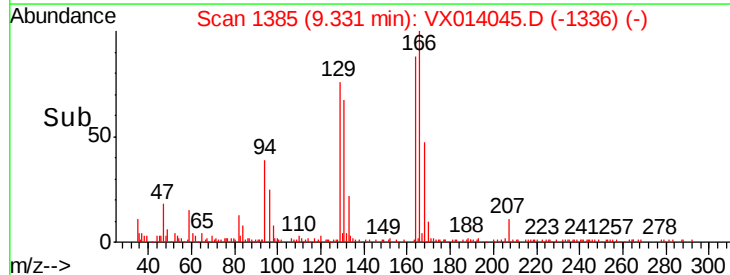
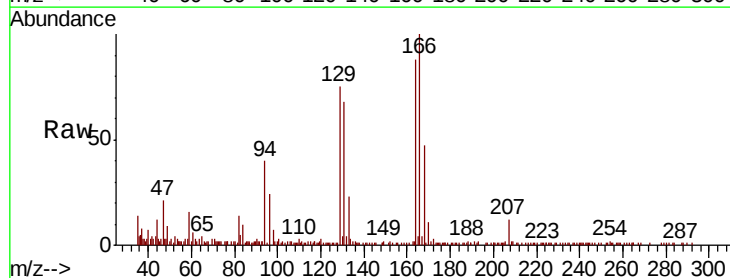
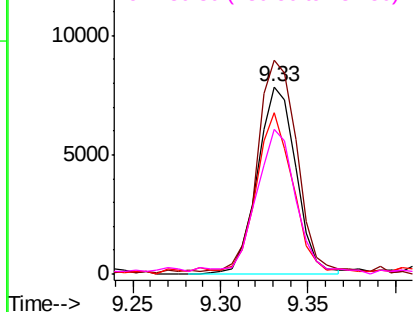
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

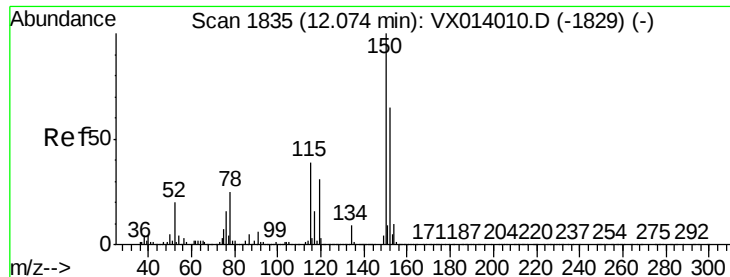


#64
Tetrachloroethene
Concen: 1.781 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX014045.D
Acq: 16 Dec 2019 19:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	112.1	104.0	156.0
129	84.5	72.2	108.4
131	75.6	69.6	104.4

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20191206

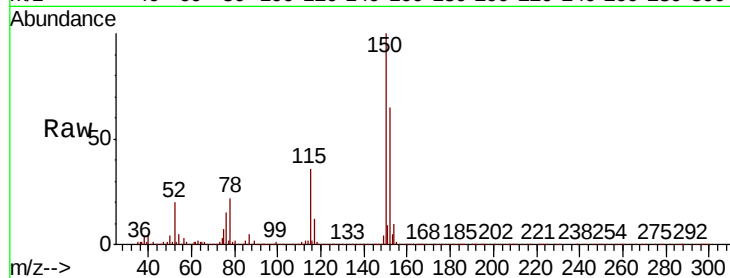
Tot Ion:152 Resp: 324419

Ion Ratio Lower Upper

152 100

115 55.9 38.3 114.9

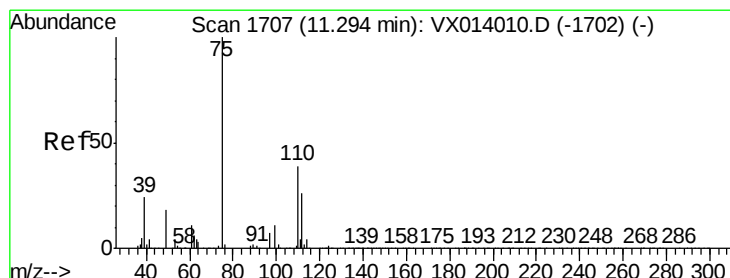
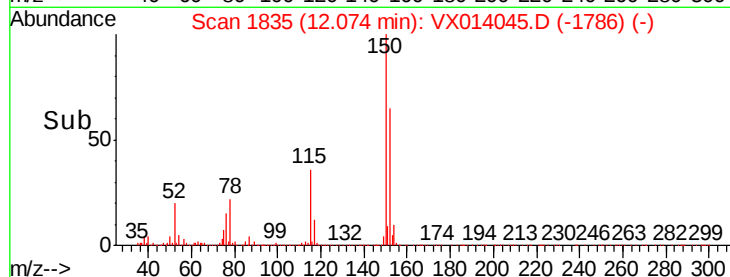
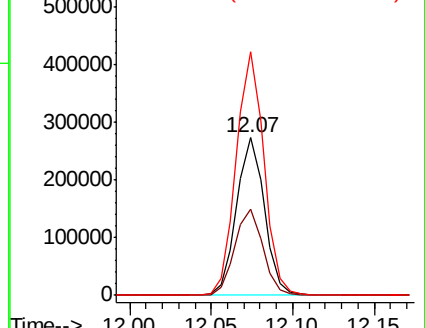
150 154.2 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.133 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014045.D

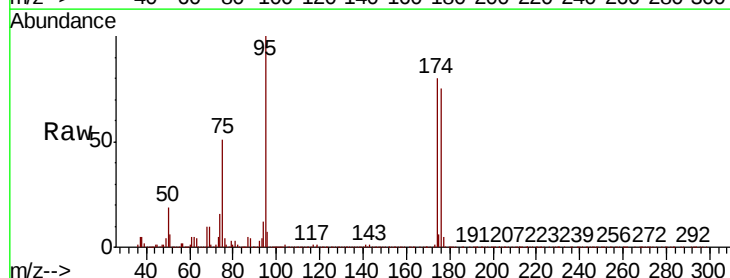
Acq: 16 Dec 2019 19:07

Tgt Ion: 75 Resp: 162925

Ion Ratio Lower Upper

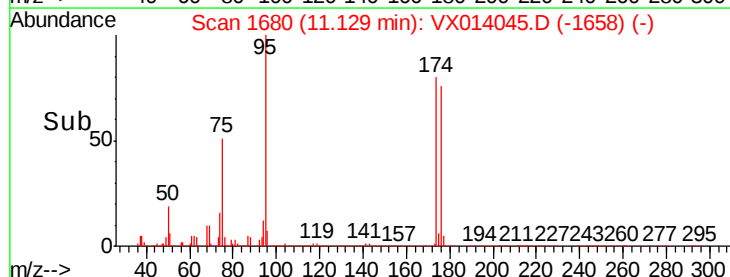
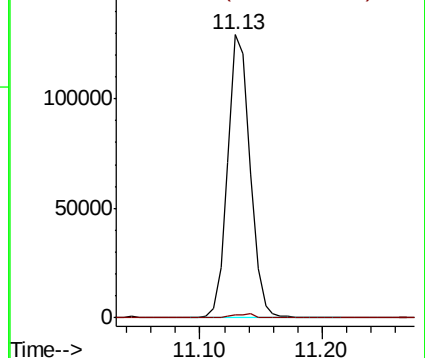
75 100

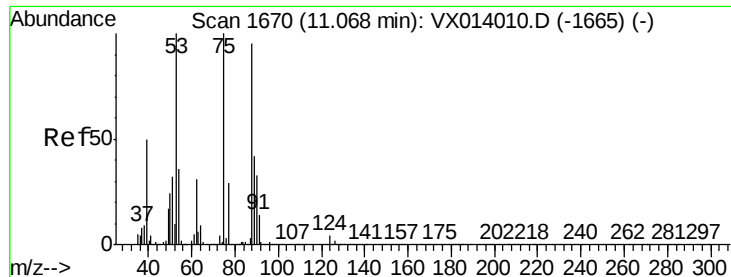
77 1.7 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.292 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014045.D

Acq: 16 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20191206

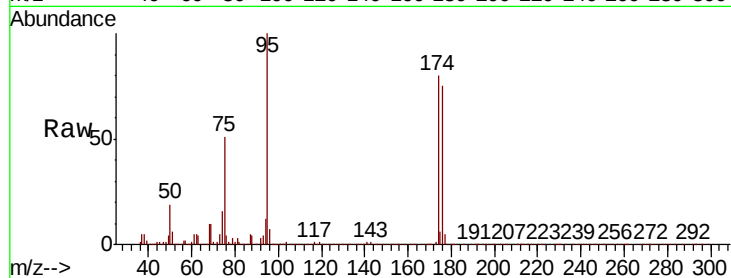
Tot Ion: 75 Resp: 162925

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

