

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX030920\
 Data File : VX015143.D
 Acq On : 09 Mar 2020 15:21
 Operator : JC/SP
 Sample : L1842-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-20200304

Quant Time: Mar 09 16:10:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	339719	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	556491	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	545046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	278405	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	210271	52.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.34%	
35) Dibromofluoromethane	5.49	113	176378	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	
50) Toluene-d8	8.71	98	680562	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.13	95	247700	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	

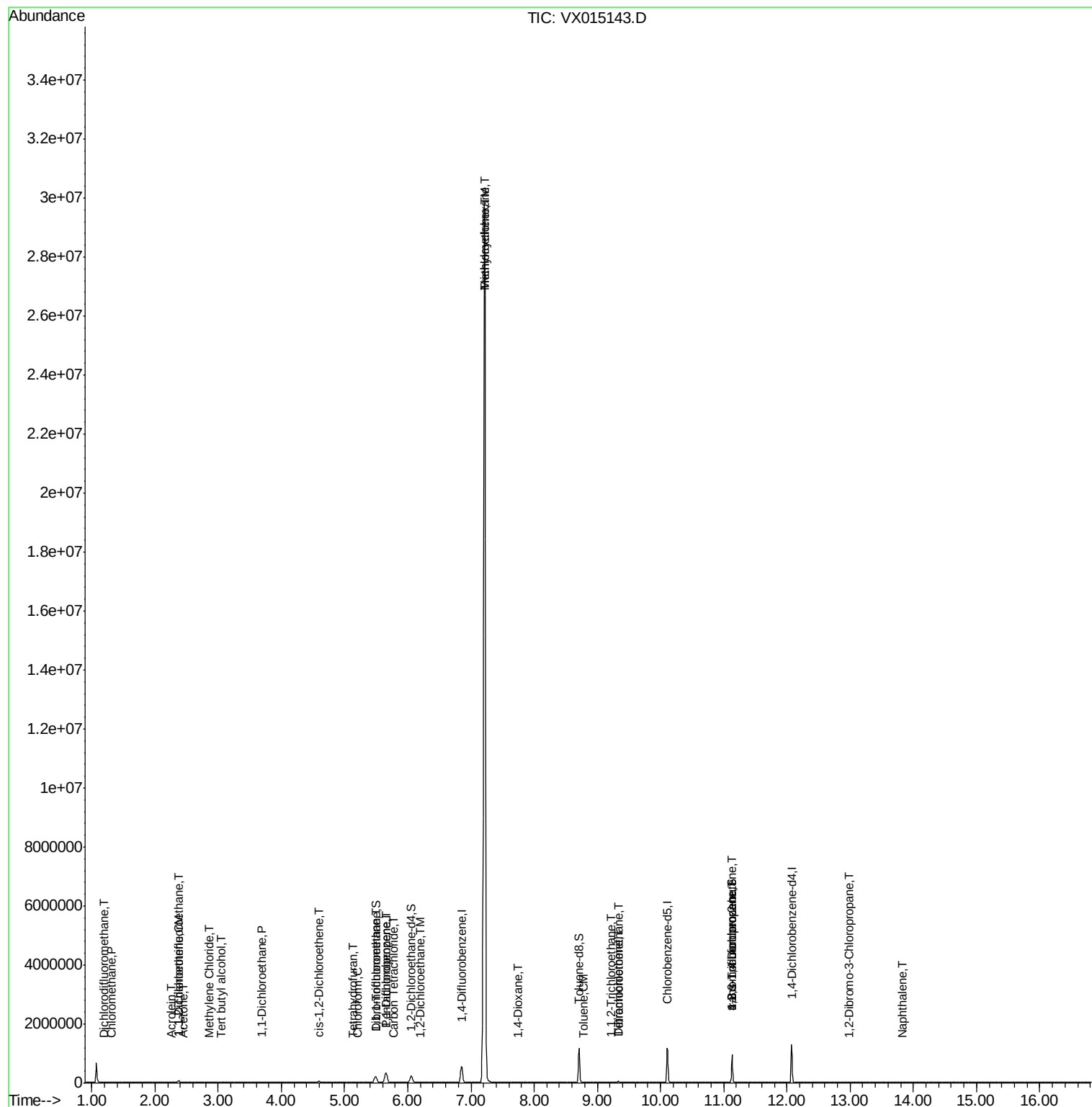
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.19	85	767	0.26	ug/l	91
3) Chloromethane	1.32	50	931	0.22	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.37	101	15543	4.86	ug/l	96
11) Tert butyl alcohol	3.04	59	564	0.81	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	17209	5.21	ug/l	97
13) Acrolein	2.27	56	293	0.45	ug/l #	15
16) Acetone	2.44	43	6529	4.00	ug/l	98
20) Methylene Chloride	2.86	84	944	0.25	ug/l #	86
24) 1,1-Dichloroethane	3.69	63	23945	3.76	ug/l #	94
27) cis-1,2-Dichloroethene	4.59	96	21880	5.53	ug/l	87
29) Tetrahydrofuran	5.14	42	836	0.54	ug/l #	21
30) Chloroform	5.20	83	16144	2.60	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	3716	0.72	ug/l #	46
36) 1,1-Dichloropropene	5.65	75	23537	4.58	ug/l #	53
38) Carbon Tetrachloride	5.78	117	6660	1.37	ug/l #	93
39) Methylcyclohexane	7.22	83	135236	22.51	ug/l #	1
42) 1,2-Dichloroethane	6.19	62	2474	0.47	ug/l	97
44) Trichloroethene	7.22	130	11481190	2701.02	ug/l	94
49) 1,4-Dioxane	7.75	88	1322	14.31	ug/l #	34
52) Toluene	8.78	92	2426	0.26	ug/l	83
55) 1,1,2-Trichloroethane	9.21	97	5128	1.34	ug/l #	89
60) Dibromochloromethane	9.33	129	9089	2.25	ug/l #	11
64) Tetrachloroethene	9.33	164	10156	2.25	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	124505	22.42	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	124505	63.63	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	496	0.42	ug/l #	1
95) Naphthalene	13.83	128	500	1.45	ug/l #	81

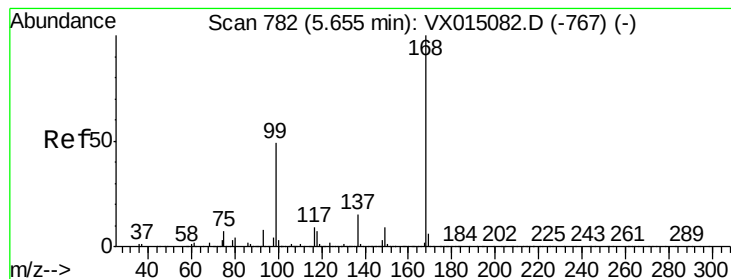
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

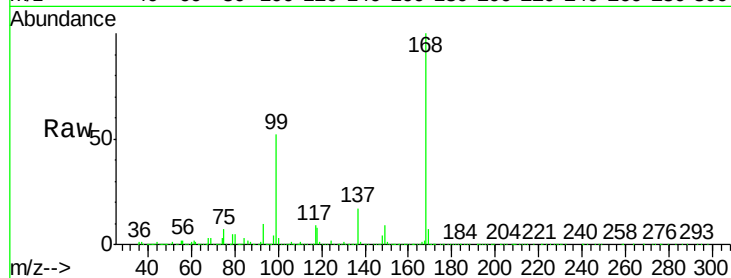
RE108D2-20200304

Tgt Ion:168 Resp: 339719

Ion Ratio Lower Upper

168 100

99 51.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

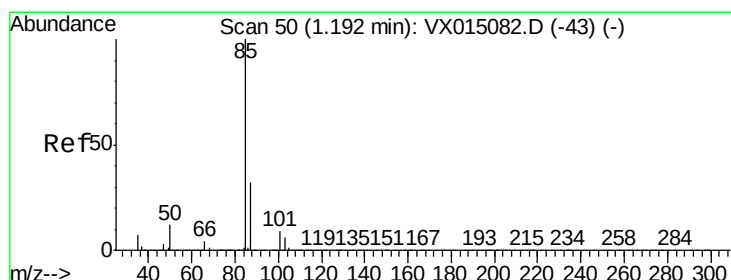
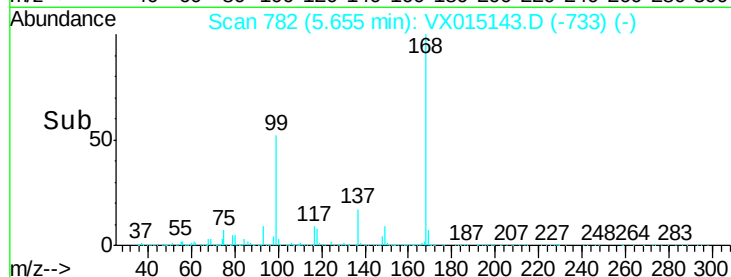
5.65

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.26 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015143.D

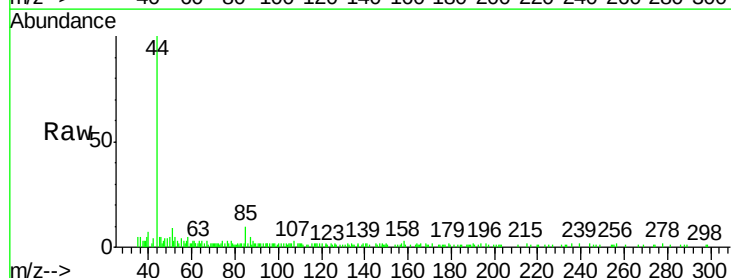
Acq: 09 Mar 2020 15:21

Tgt Ion: 85 Resp: 767

Ion Ratio Lower Upper

85 100

87 37.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

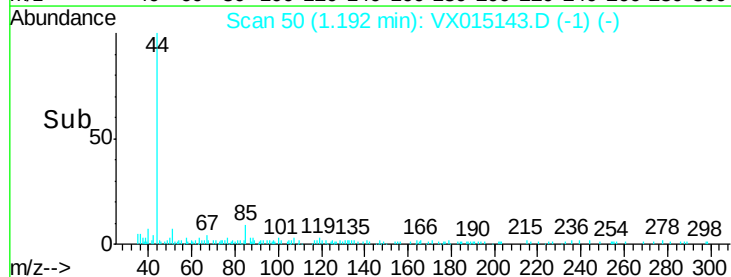
600

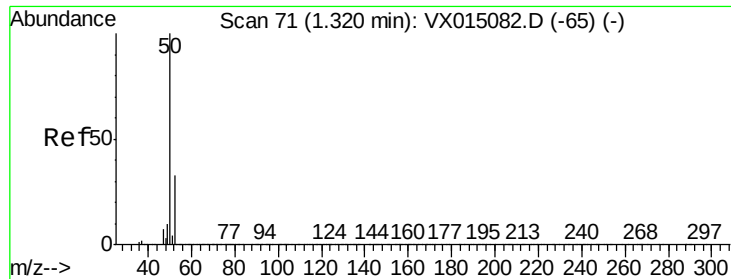
400

200

0

Time-->





#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

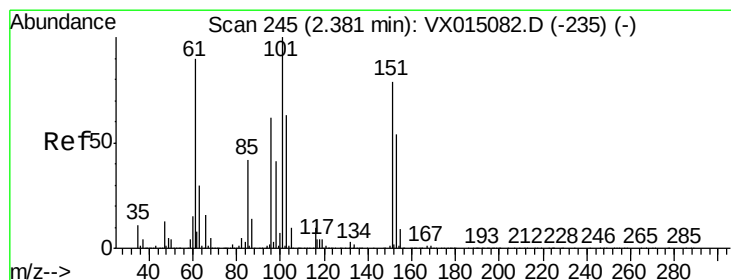
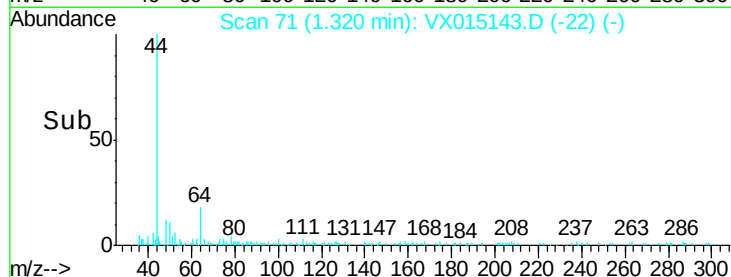
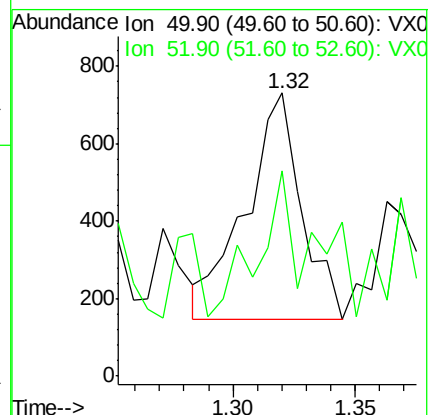
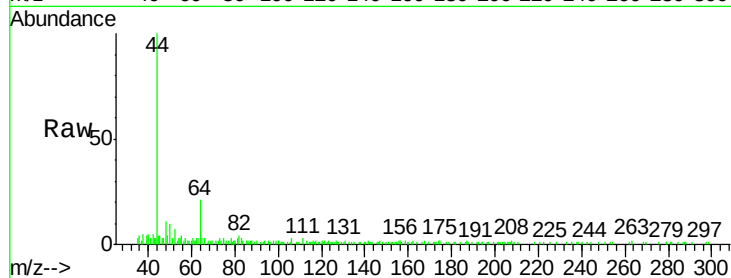
RE108D2-20200304

Tgt Ion: 50 Resp: 931

Ion Ratio Lower Upper

50 100

52 27.9 26.2 39.2



#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.86 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.01 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

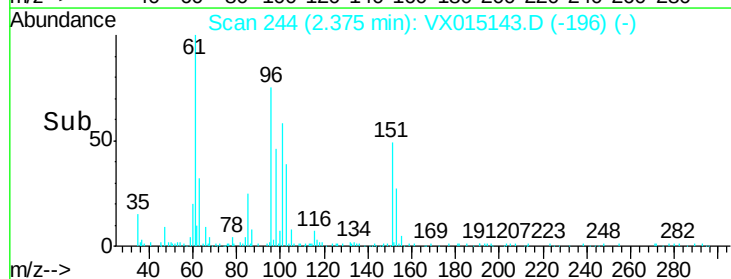
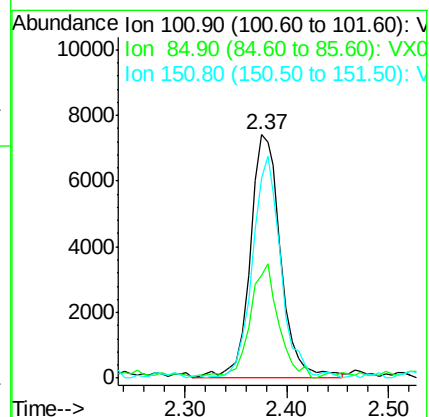
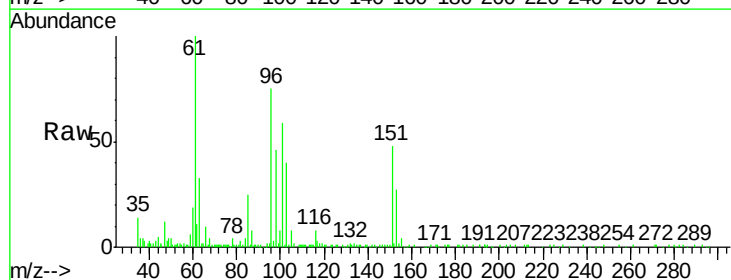
Tgt Ion: 101 Resp: 15543

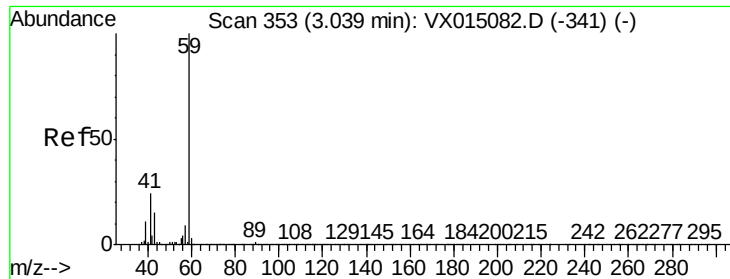
Ion Ratio Lower Upper

101 100

85 44.1 33.7 50.5

151 84.1 64.0 96.0

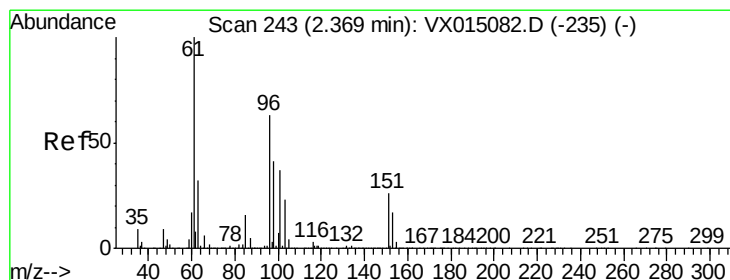
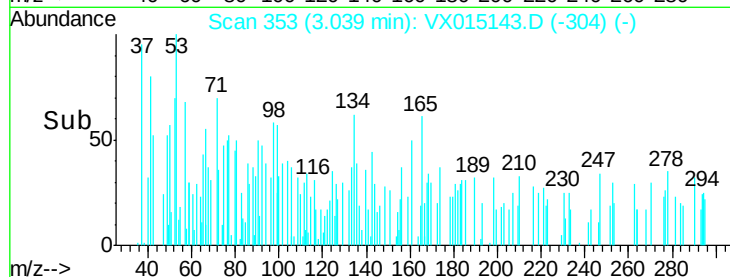
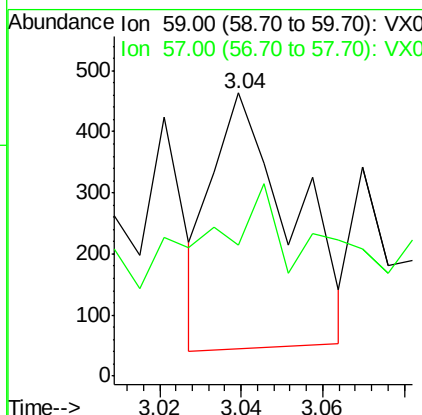
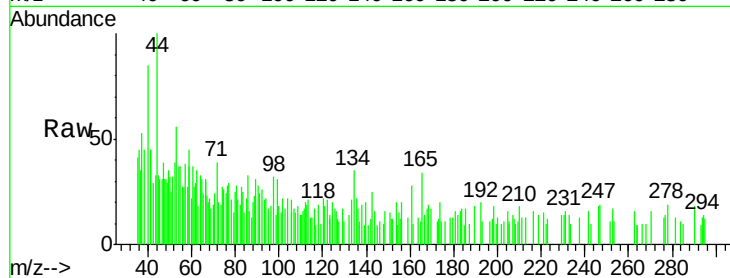




#11
Tert butyl alcohol
Concen: 0.81 ug/l
RT: 3.04 min Scan# 353
Delta R.T. 0.00 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

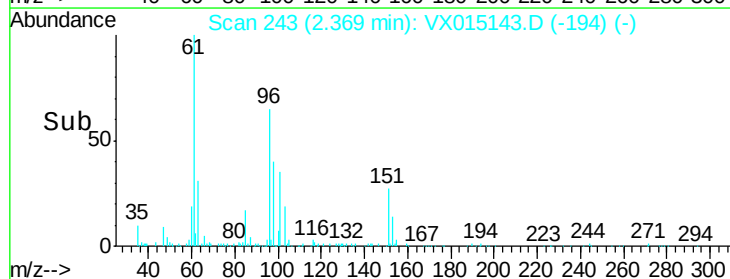
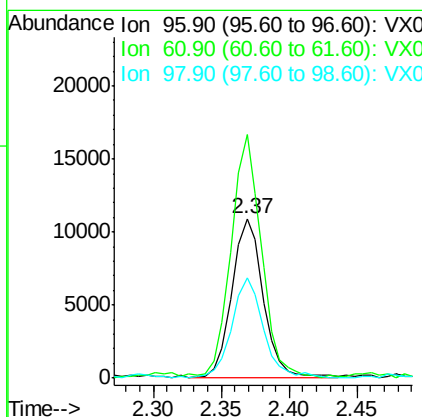
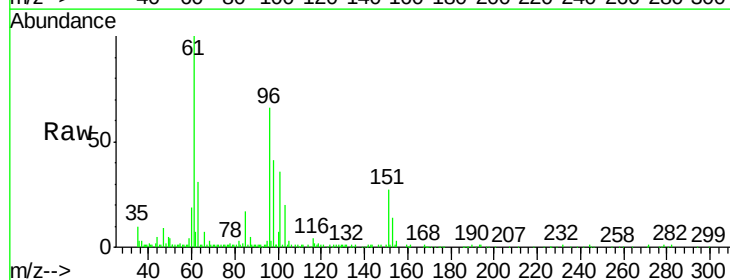
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20200304

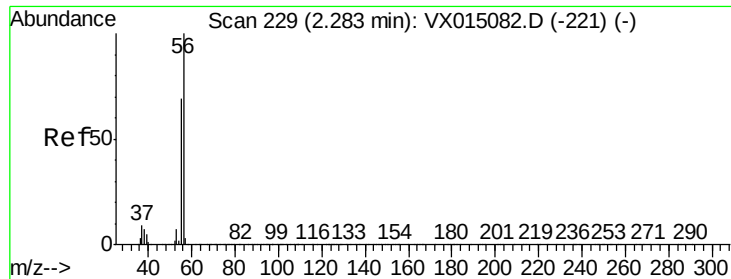
Tgt Ion: 59 Resp: 564
Ion Ratio Lower Upper
59 100
57 53.9 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 5.21 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.00 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

Tgt Ion: 96 Resp: 17209
Ion Ratio Lower Upper
96 100
61 152.8 126.2 189.4
98 63.1 51.4 77.0

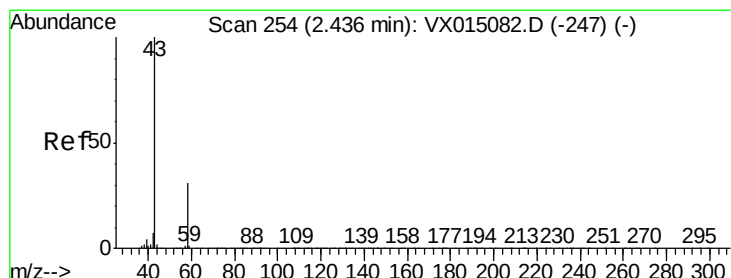
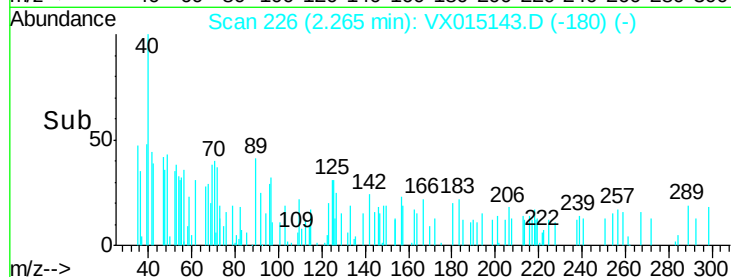
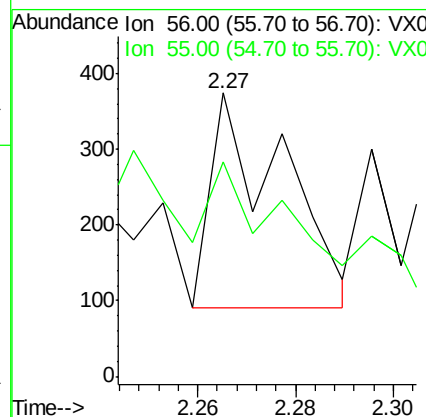
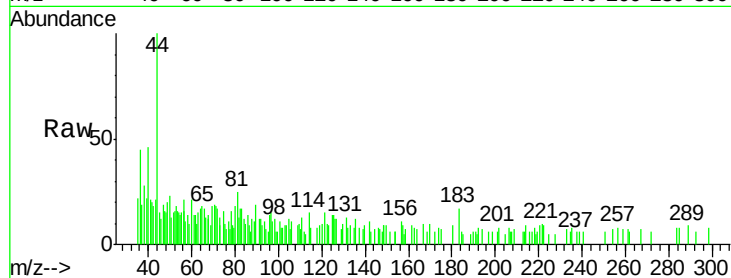




#13
Acrolein
Concen: 0.45 ug/l
RT: 2.27 min Scan# 226
Delta R.T. -0.02 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

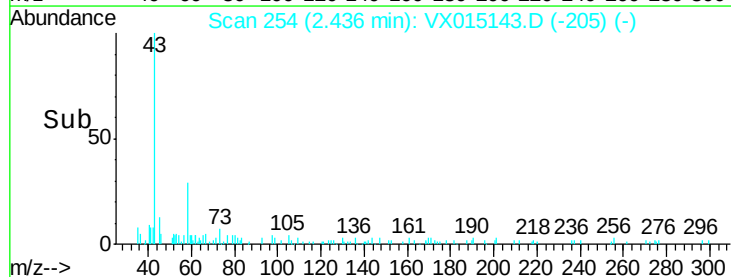
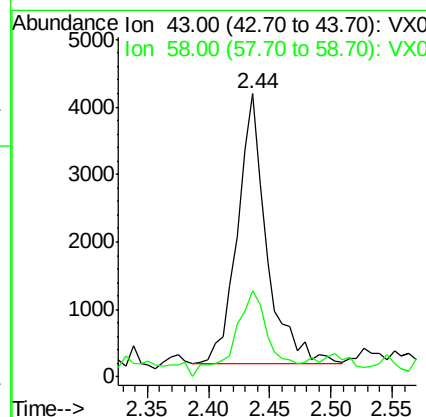
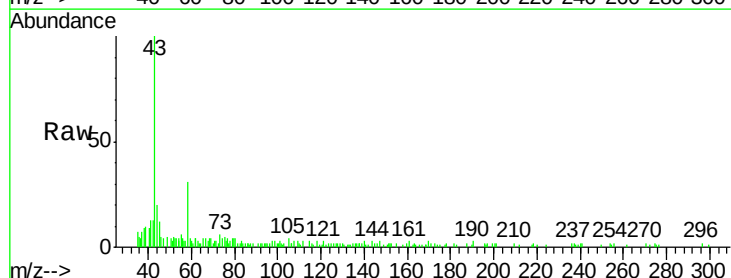
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20200304

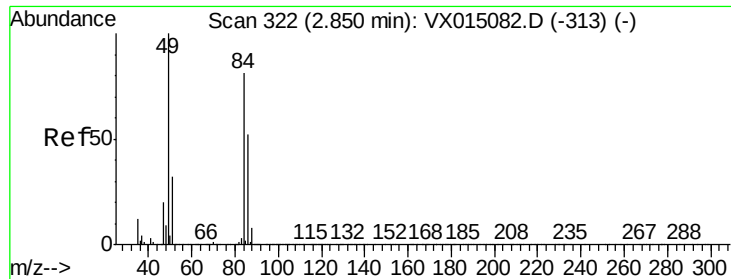
Tgt Ion: 56 Resp: 293
Ion Ratio Lower Upper
56 100
55 0.0 55.4 83.0#



#16
Acetone
Concen: 4.00 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

Tgt Ion: 43 Resp: 6529
Ion Ratio Lower Upper
43 100
58 32.1 24.8 37.2

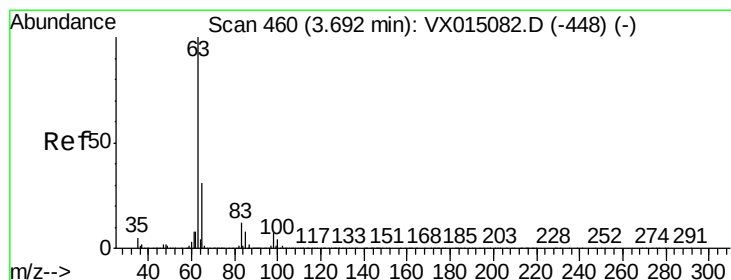
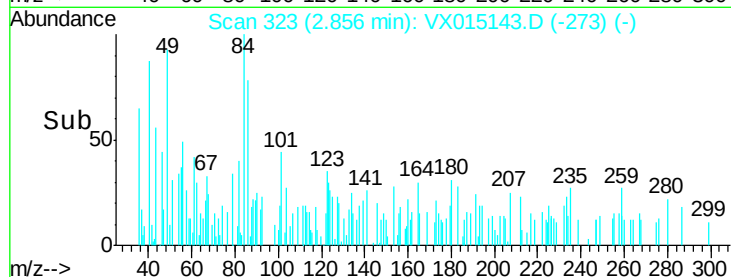
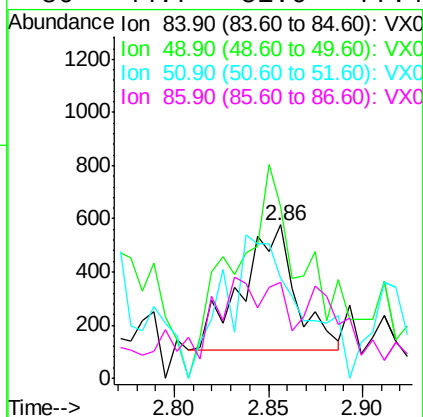
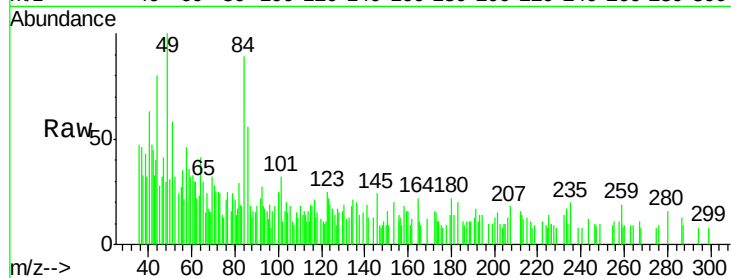




#20
Methylene Chloride
Concen: 0.25 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

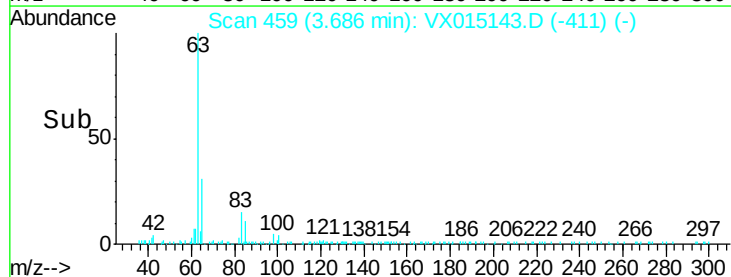
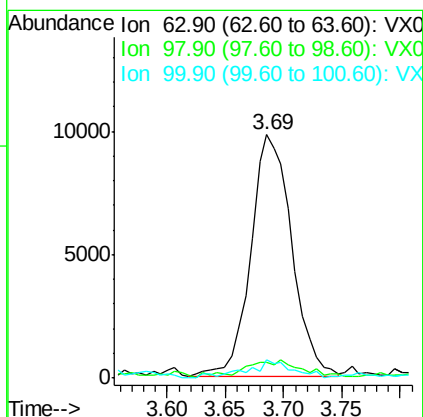
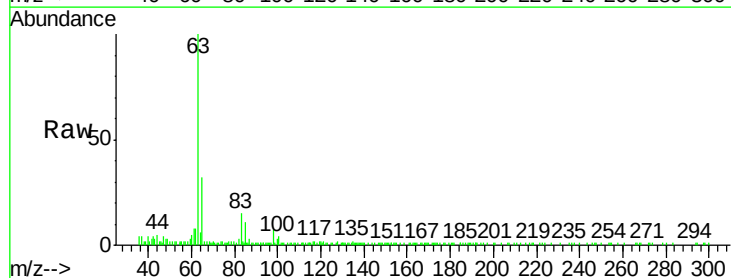
Instrument :
MSVOA_X
ClientSampleId :
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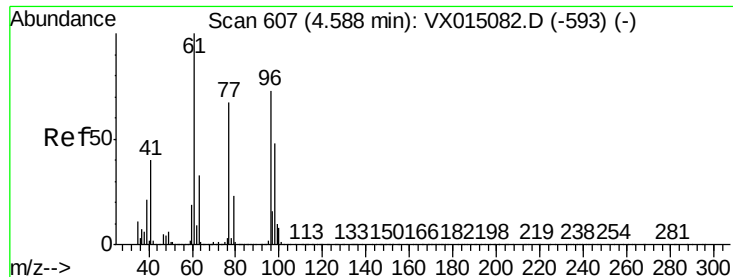
Tgt Ion:	84	Resp:	944
Ion	Ratio	Lower	Upper
84	100		
49	136.4	99.4	149.2
51	43.0	31.5	47.3
86	44.7	51.6	77.4#



#24
1,1-Dichloroethane
Concen: 3.76 ug/l
RT: 3.69 min Scan# 459
Delta R.T. -0.01 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

Tgt Ion:	63	Resp:	23945
Ion	Ratio	Lower	Upper
63	100		
98	5.6	3.7	11.1
100	6.7	2.1	6.5#





#27

cis-1,2-Dichloroethene

Concen: 5.53 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20200304

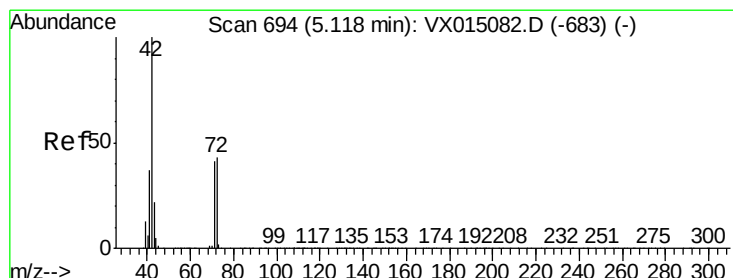
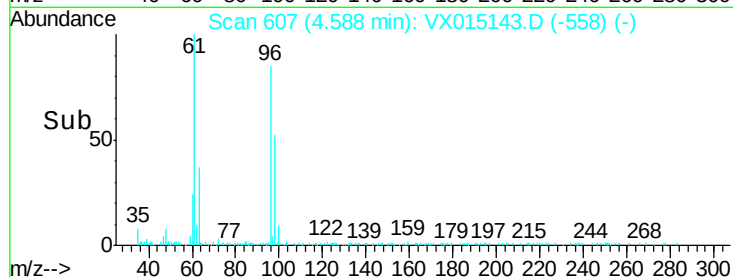
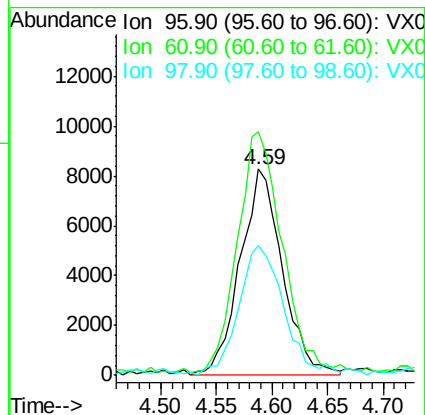
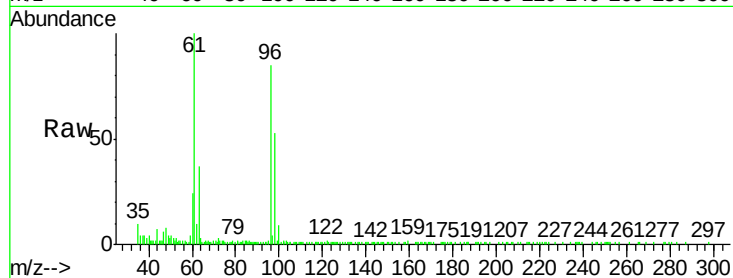
Tgt Ion: 96 Resp: 21880

Ion Ratio Lower Upper

96 100

61 122.3 0.0 286.8

98 67.1 0.0 128.4



#29

Tetrahydrofuran

Concen: 0.54 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

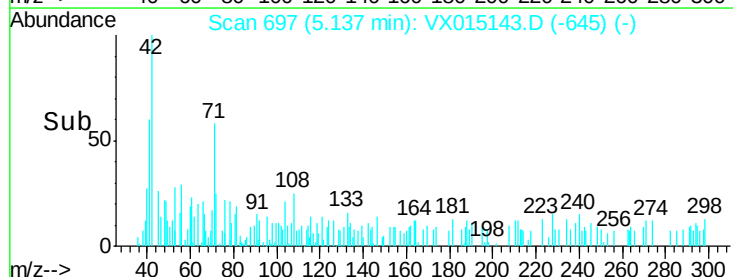
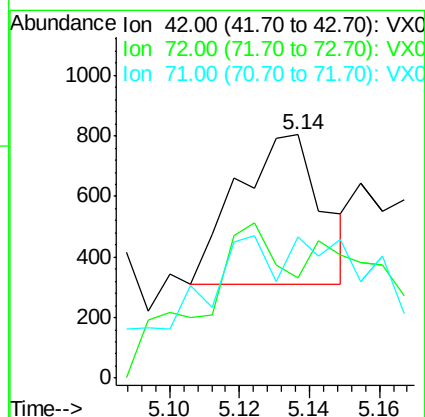
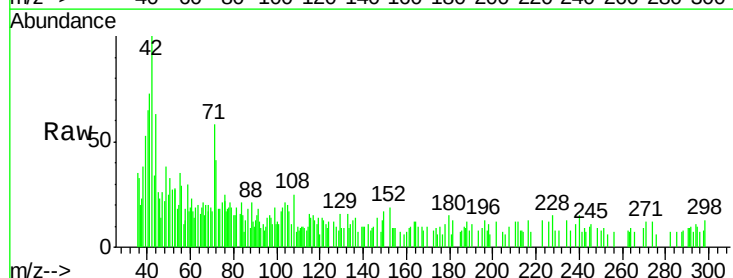
Tgt Ion: 42 Resp: 836

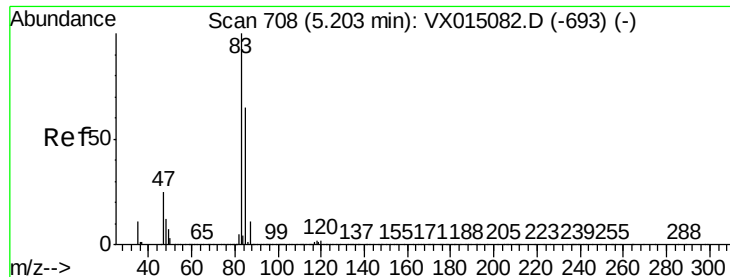
Ion Ratio Lower Upper

42 100

72 109.8 36.4 54.6#

71 78.5 33.3 49.9#





#30

Chloroform

Concen: 2.60 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

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MSVOA_X

ClientSampleId :

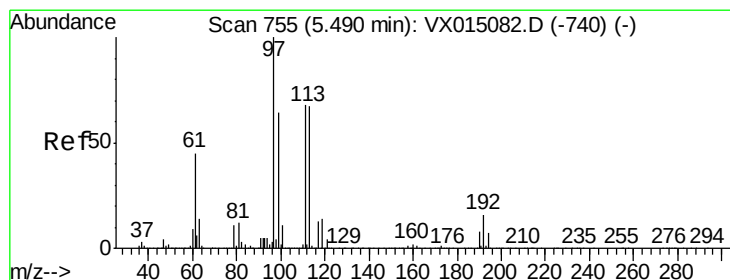
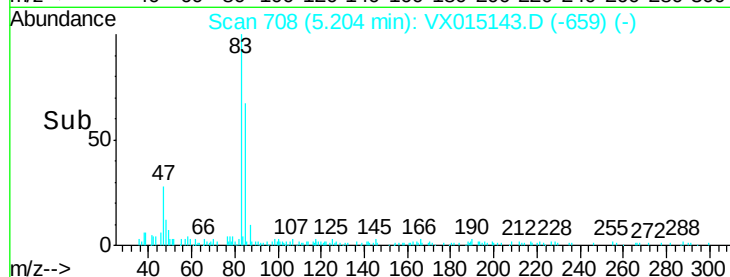
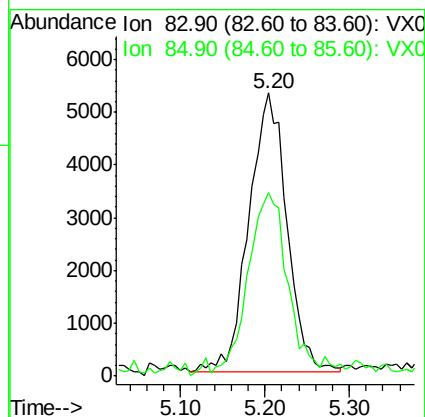
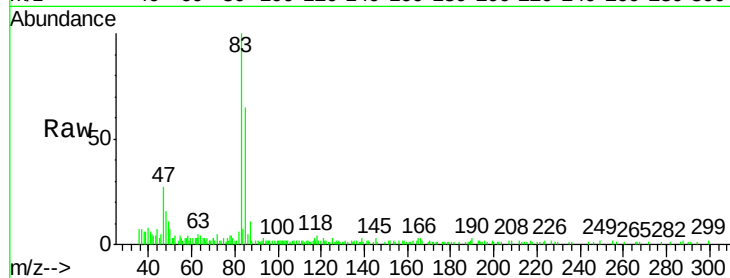
RE108D2-20200304

Tgt Ion: 83 Resp: 16144

Ion Ratio Lower Upper

83 100

85 66.6 52.0 78.0



#32

1,1,1-Trichloroethane

Concen: 0.72 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

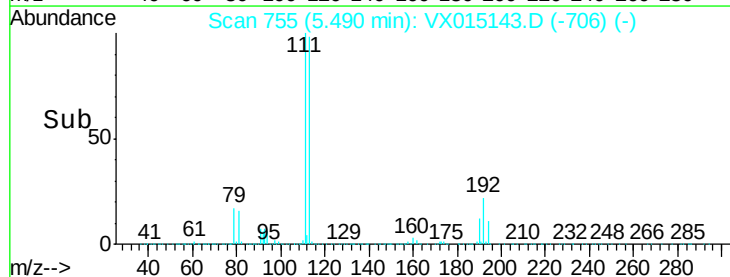
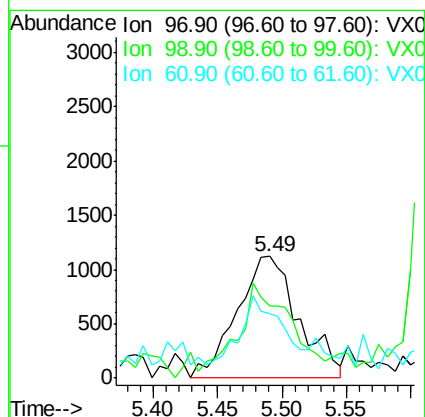
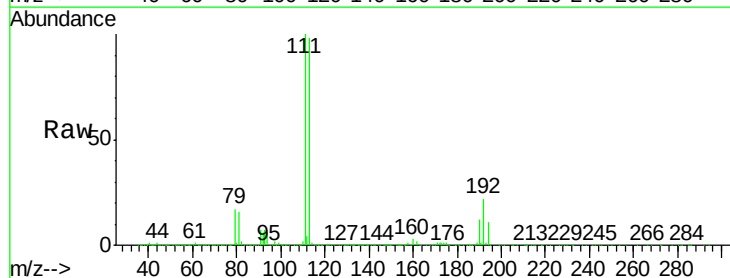
Tgt Ion: 97 Resp: 3716

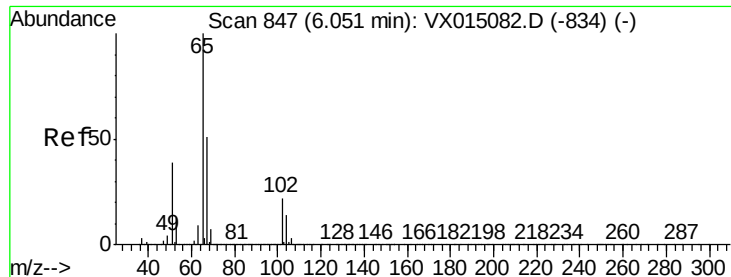
Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2#

61 37.4 36.6 54.8

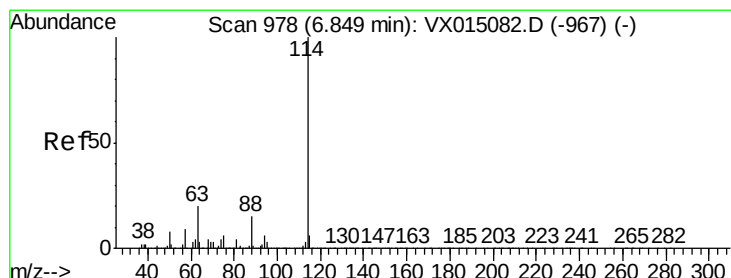
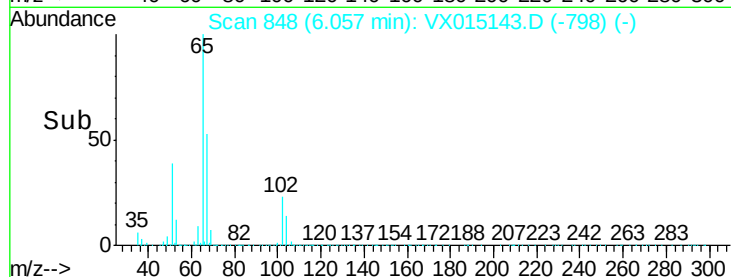
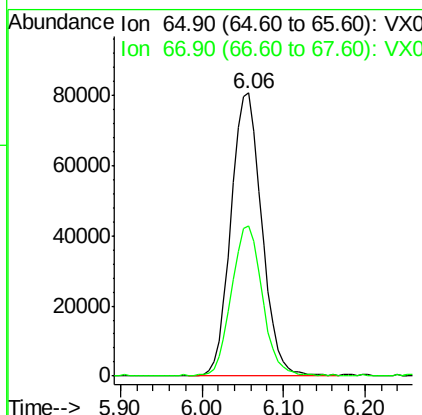
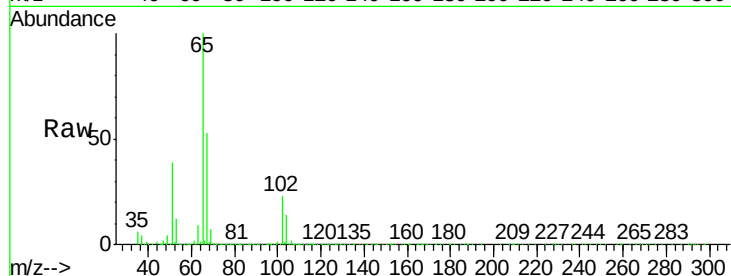




#33
 1,2-Dichloroethane-d4
 Concen: 52.17 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX015143.D
 Acq: 09 Mar 2020 15:21

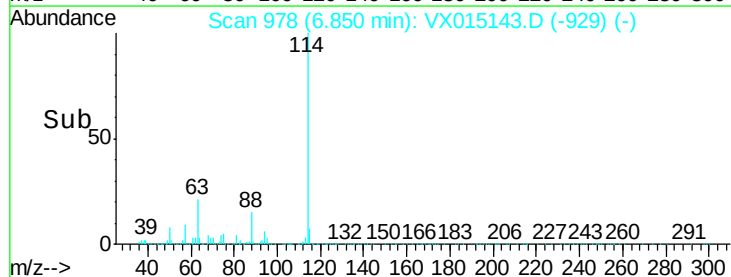
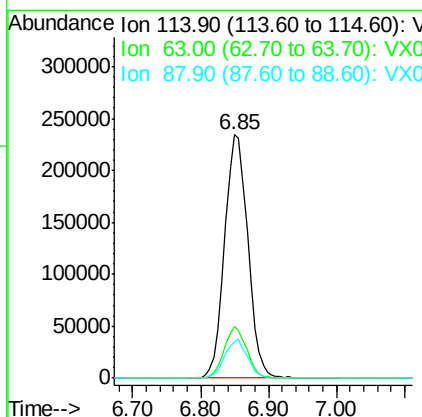
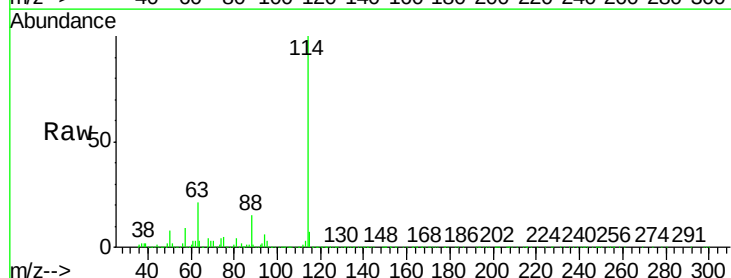
Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-20200304

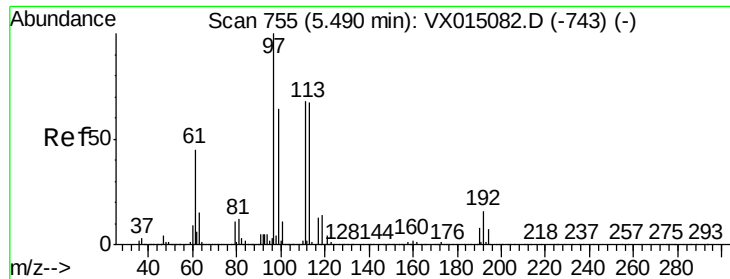
Tgt Ion: 65 Resp: 210271
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX015143.D
 Acq: 09 Mar 2020 15:21

Tgt Ion: 114 Resp: 556491
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.0
 88 14.9 0.0 30.6

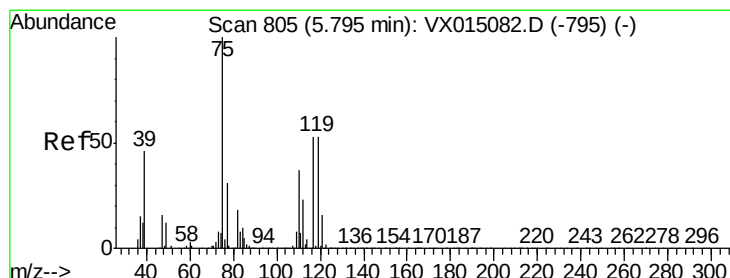
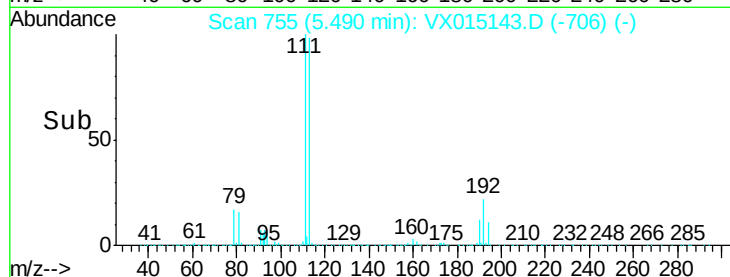
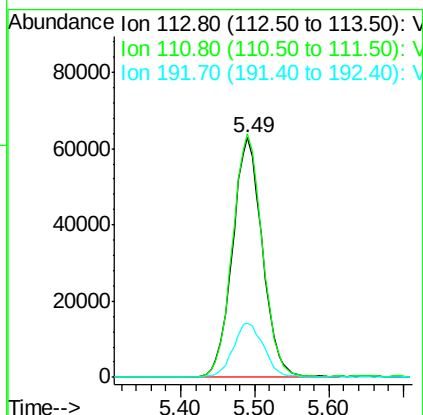
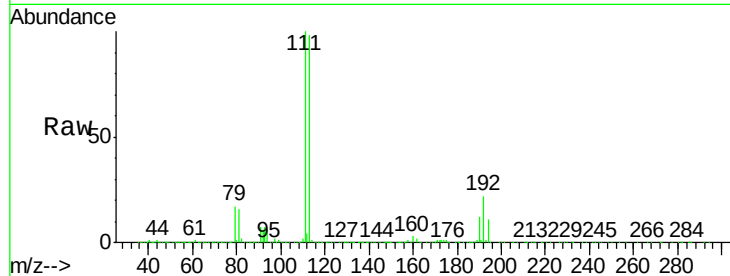




#35
 Dibromofluoromethane
 Concen: 50.24 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX015143.D
 Acq: 09 Mar 2020 15:21

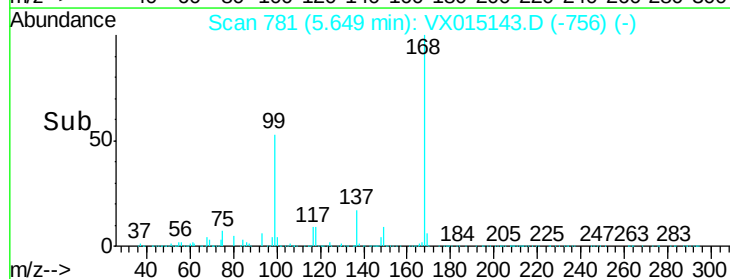
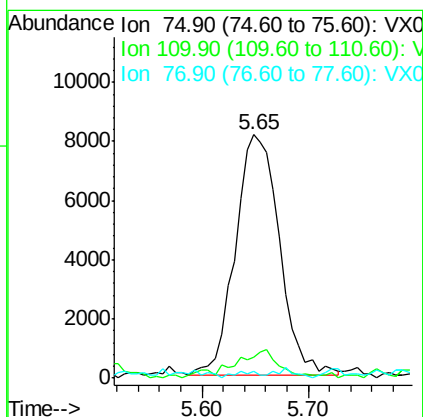
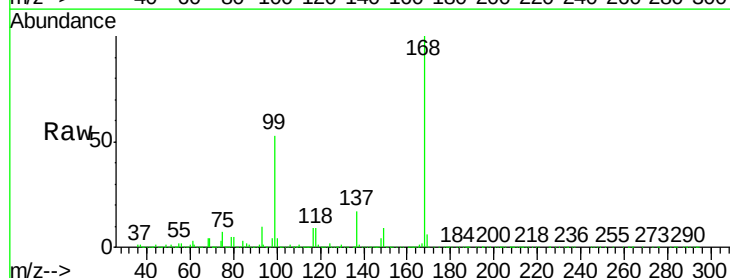
Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-20200304

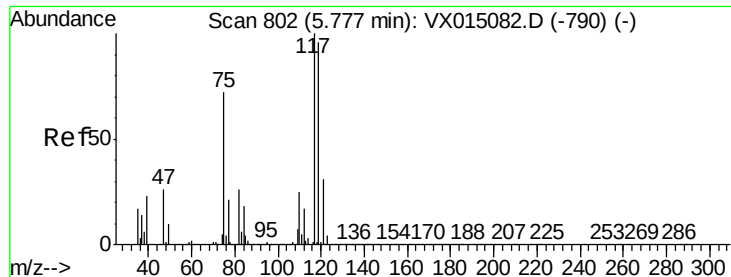
Tgt Ion: 113 Resp: 176378
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.6 123.8
 192 23.2 18.6 28.0



#36
 1,1-Dichloropropene
 Concen: 4.58 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015143.D
 Acq: 09 Mar 2020 15:21

Tgt Ion: 75 Resp: 23537
 Ion Ratio Lower Upper
 75 100
 110 12.7 17.9 53.8#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 1.37 ug/l

RT: 5.78 min Scan# 802

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20200304

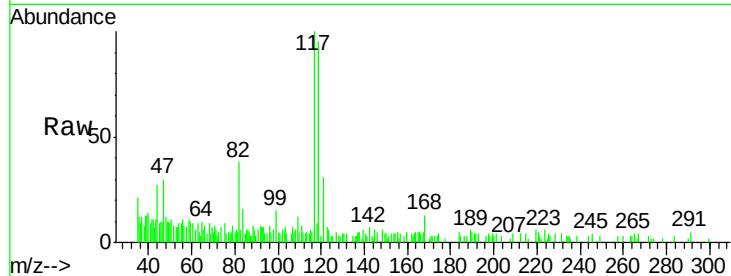
Tgt Ion:117 Resp: 6660

Ion Ratio Lower Upper

117 100

119 91.5 76.9 115.3

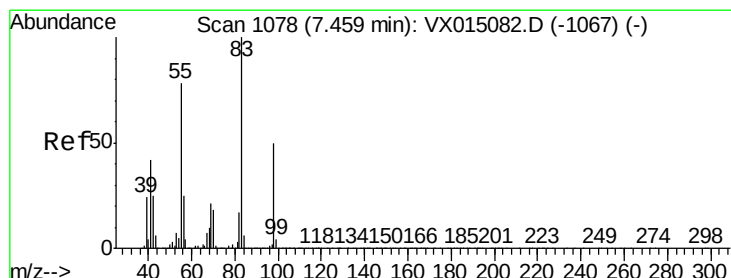
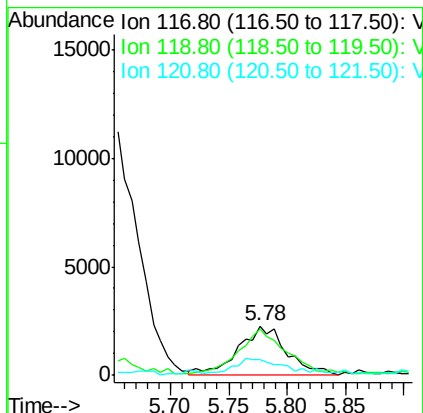
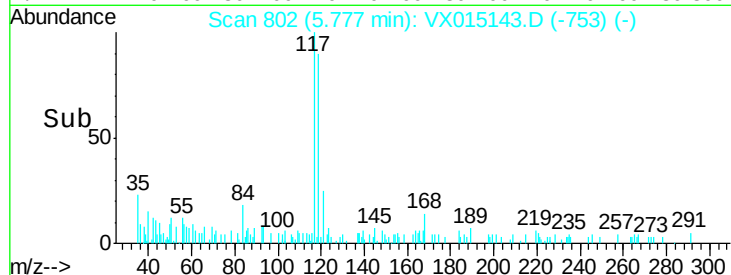
121 23.8 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 22.51 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. -0.24 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

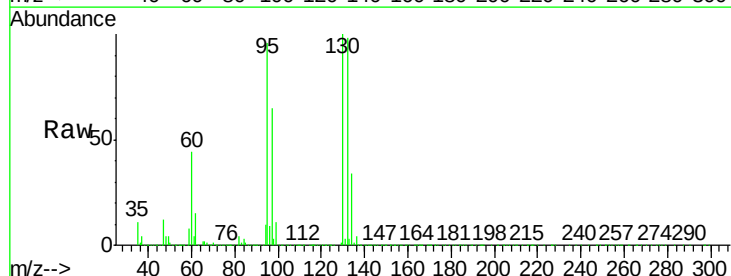
Tgt Ion: 83 Resp: 135236

Ion Ratio Lower Upper

83 100

55 0.1 62.4 93.6#

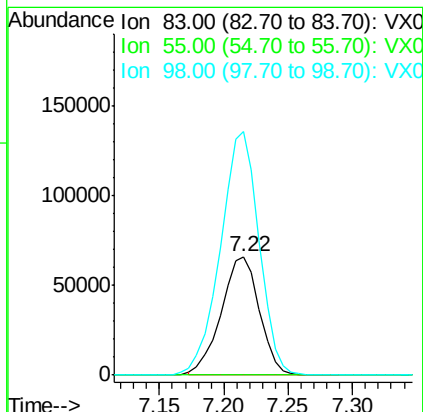
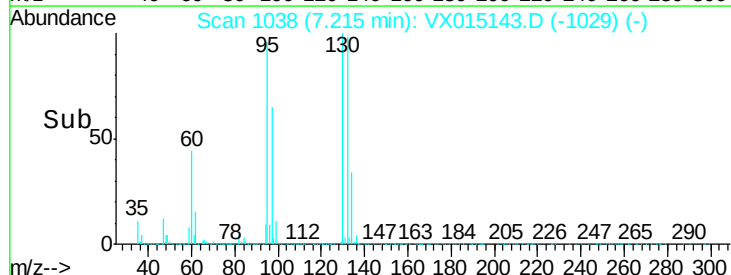
98 205.5 39.7 59.5#

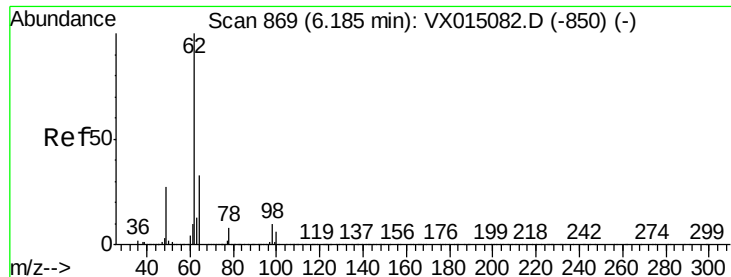


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

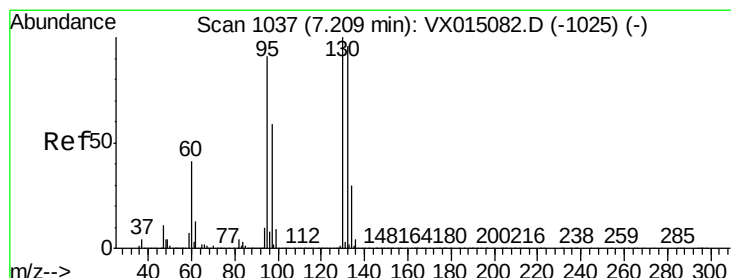
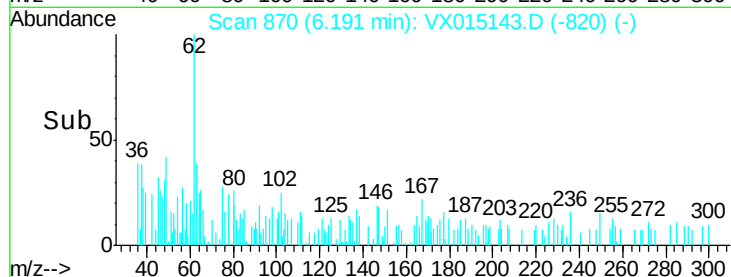
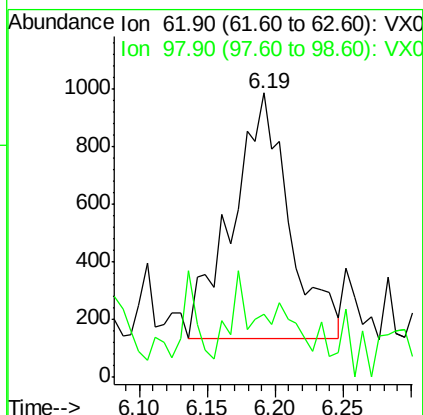
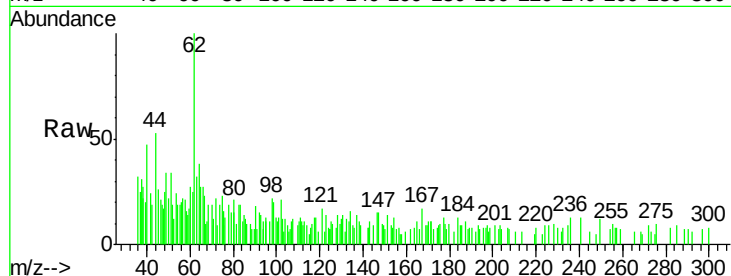




#42
1,2-Dichloroethane
Concen: 0.47 ug/l
RT: 6.19 min Scan# 870
Delta R.T. 0.01 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

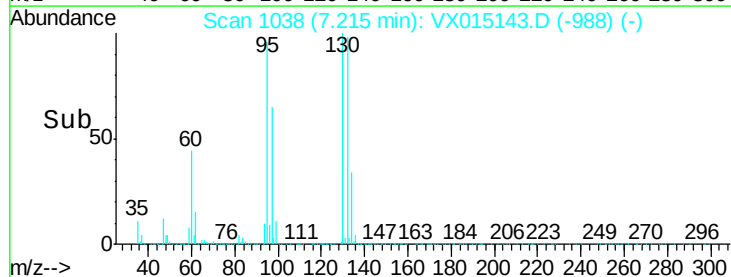
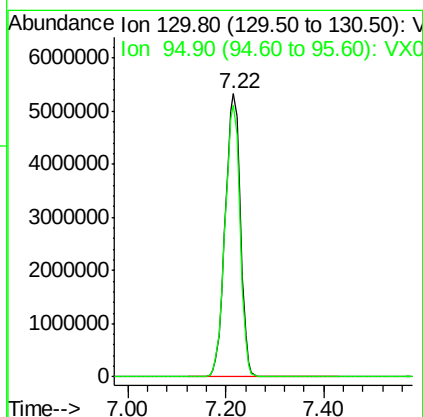
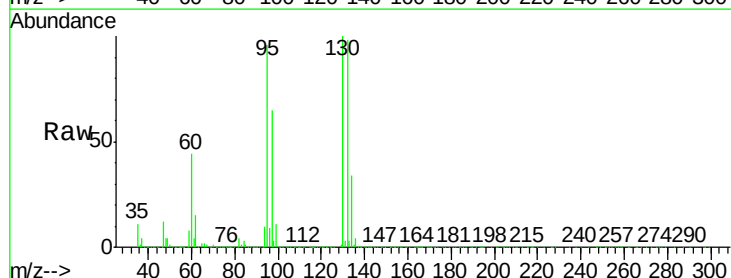
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20200304

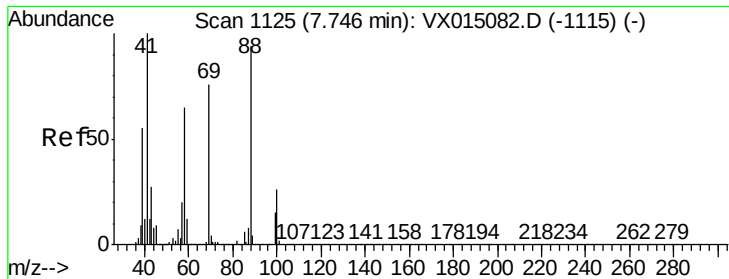
Tgt Ion: 62 Resp: 2474
Ion Ratio Lower Upper
62 100
98 11.4 0.0 20.6



#44
Trichloroethene
Concen: 2701.02 ug/l
RT: 7.22 min Scan# 1038
Delta R.T. 0.01 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

Tgt Ion: 130 Resp: 11481190
Ion Ratio Lower Upper
130 100
95 96.1 0.0 181.2

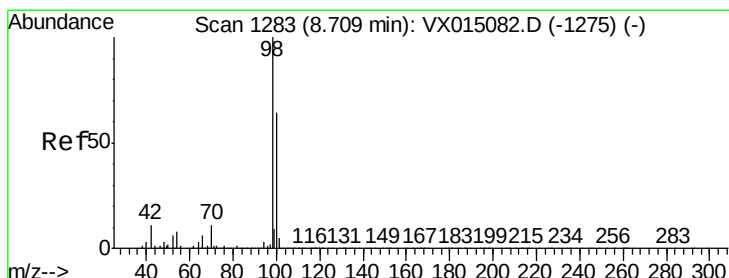
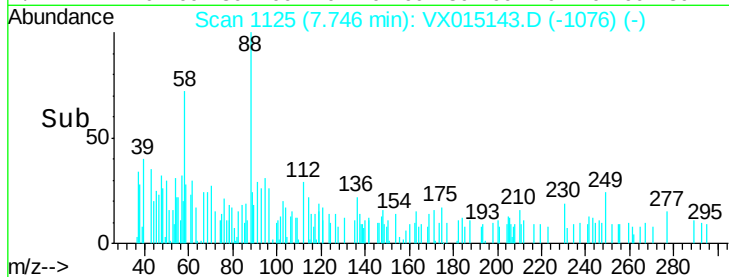
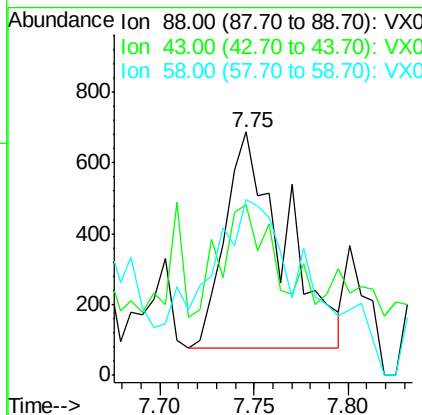
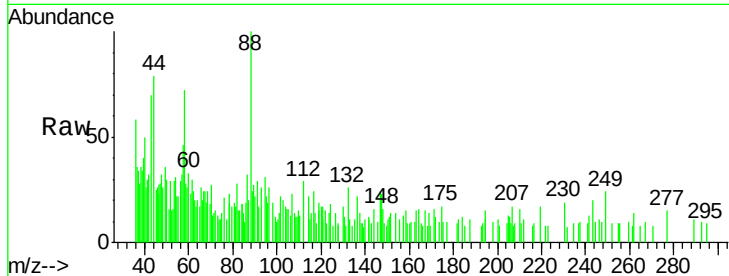




#49
1,4-Dioxane
Concen: 14.31 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.00 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

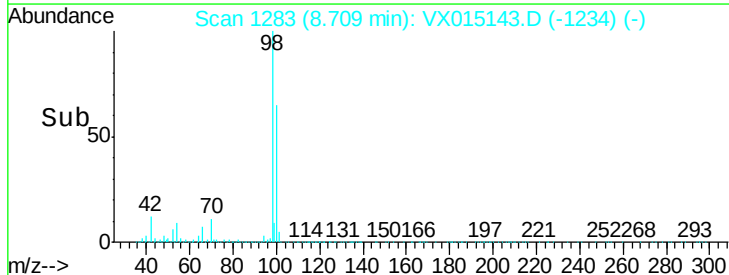
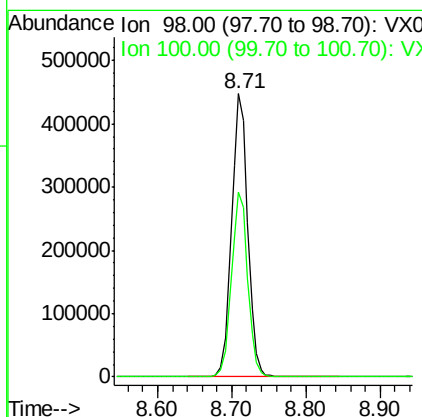
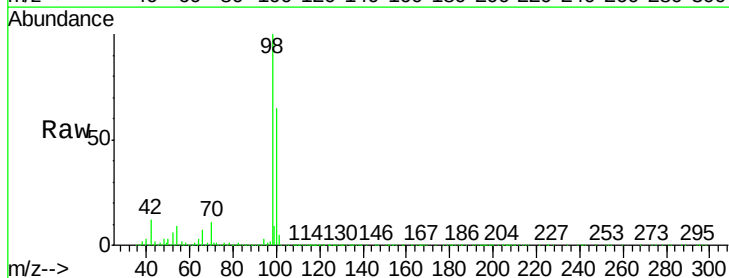
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20200304

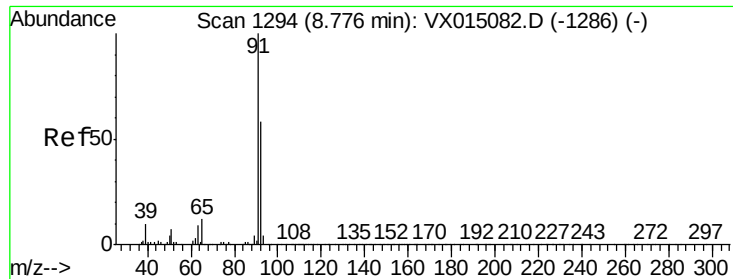
Tgt Ion: 88 Resp: 1322
Ion Ratio Lower Upper
88 100
43 37.3 27.0 40.4
58 147.1 55.6 83.4#



#50
Toluene-d8
Concen: 50.96 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

Tgt Ion: 98 Resp: 680562
Ion Ratio Lower Upper
98 100
100 65.3 52.4 78.6





#52

Toluene

Concen: 0.26 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

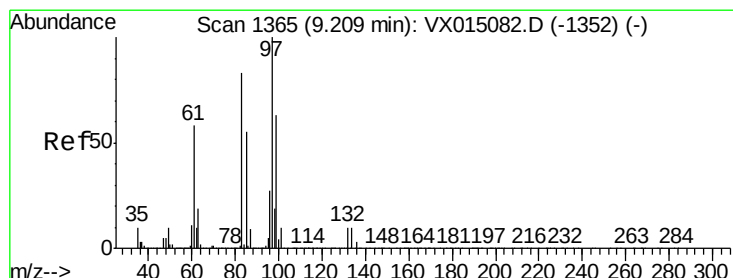
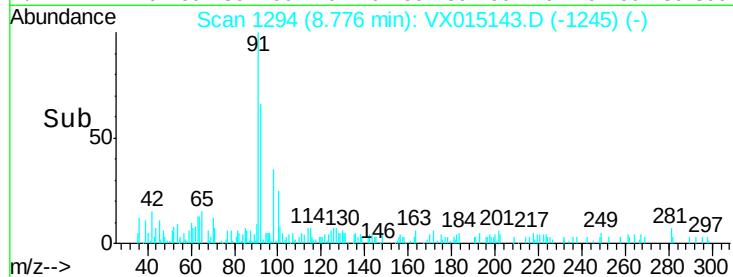
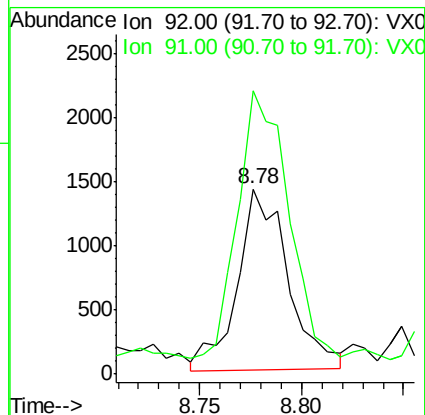
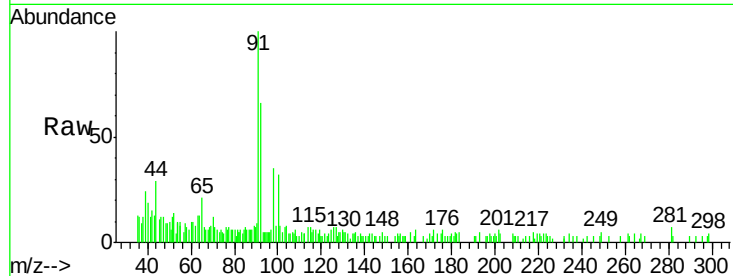
RE108D2-20200304

Tgt Ion: 92 Resp: 2426

Ion Ratio Lower Upper

92 100

91 147.4 136.9 205.3



#55

1,1,2-Trichloroethane

Concen: 1.34 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Tgt Ion: 97 Resp: 5128

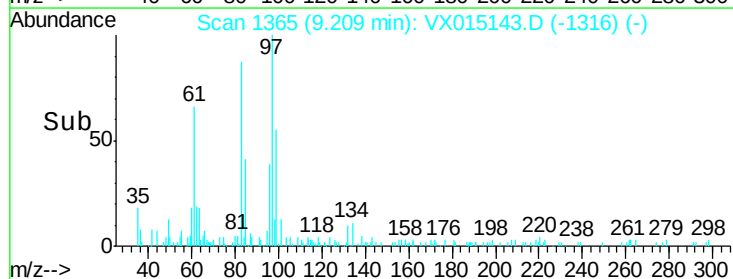
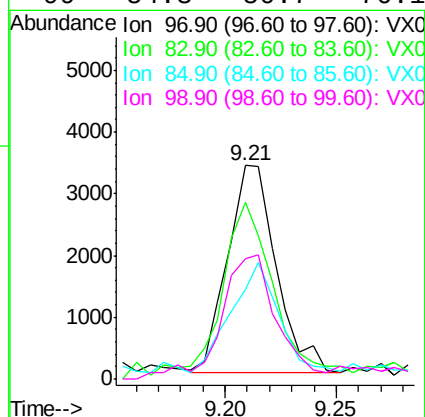
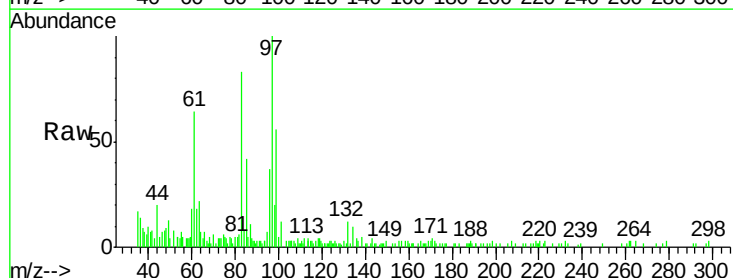
Ion Ratio Lower Upper

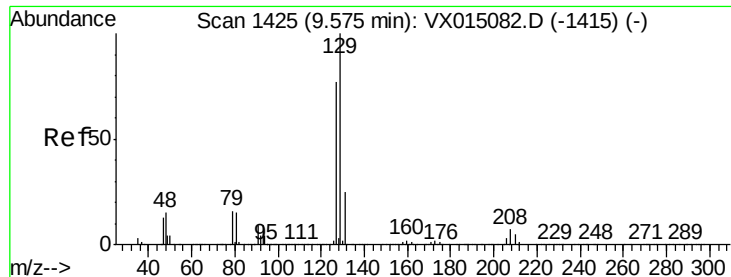
97 100

83 79.1 66.4 99.6

85 39.7 43.5 65.3#

99 54.3 50.7 76.1





#60

Dibromochloromethane

Concen: 2.25 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.24 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

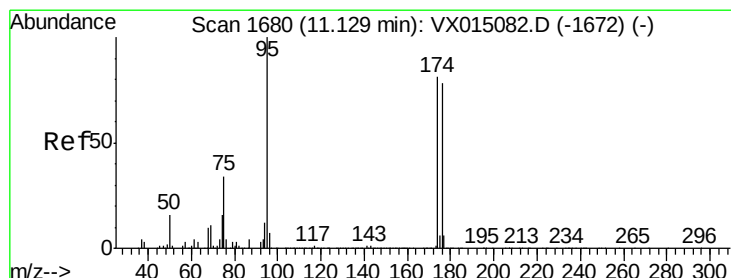
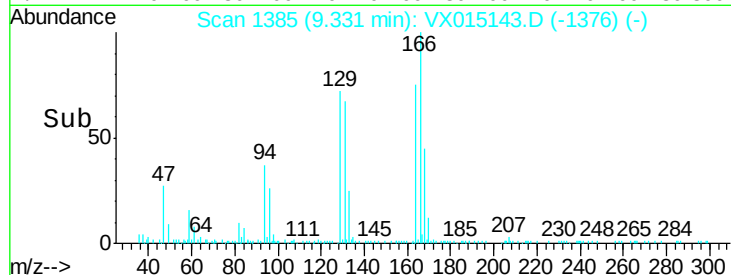
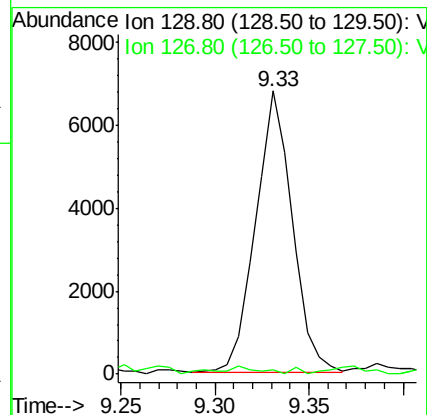
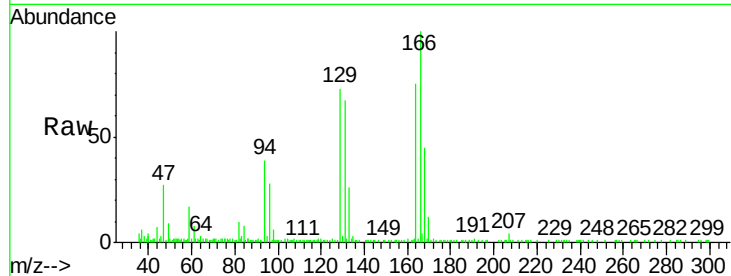
RE108D2-20200304

Tgt Ion:129 Resp: 9089

Ion Ratio Lower Upper

129 100

127 0.6 38.8 116.3#



#62

4-Bromofluorobenzene

Concen: 52.00 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

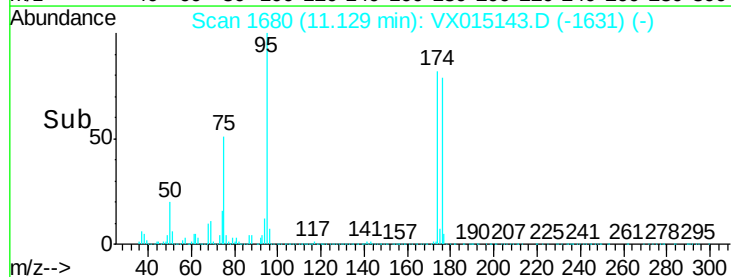
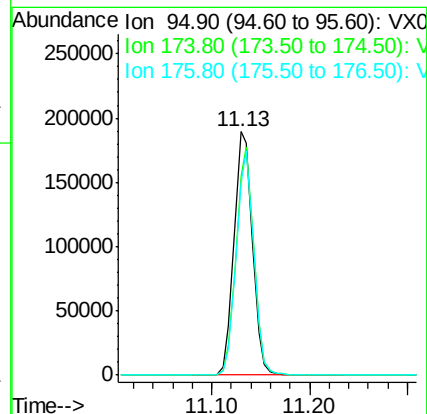
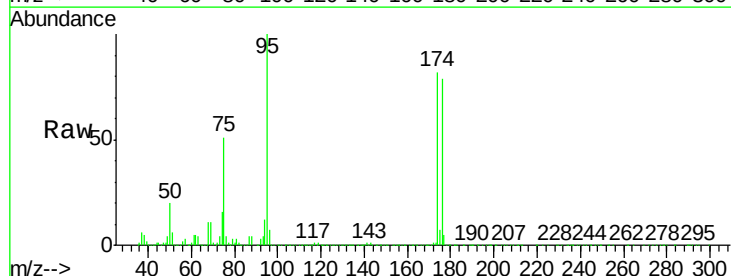
Tgt Ion: 95 Resp: 247700

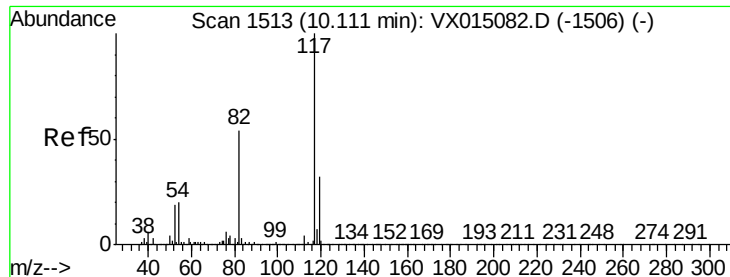
Ion Ratio Lower Upper

95 100

174 90.2 0.0 177.6

176 87.7 0.0 170.2

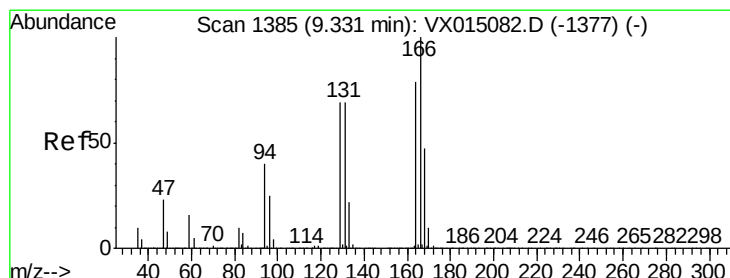
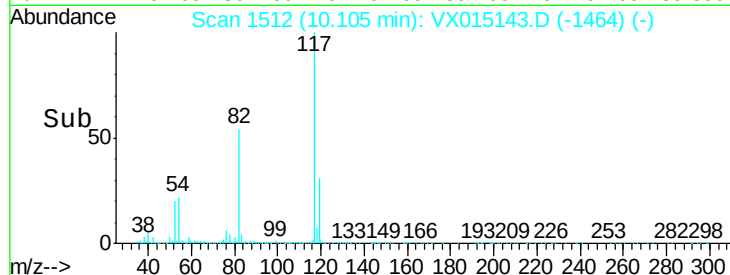
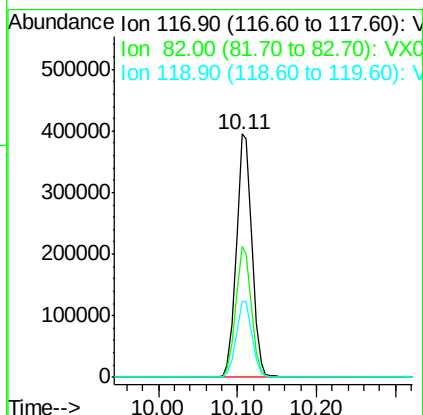
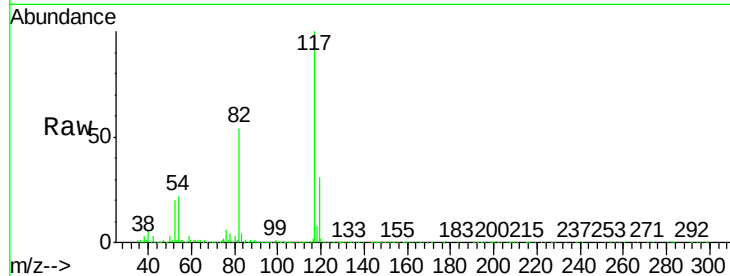




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

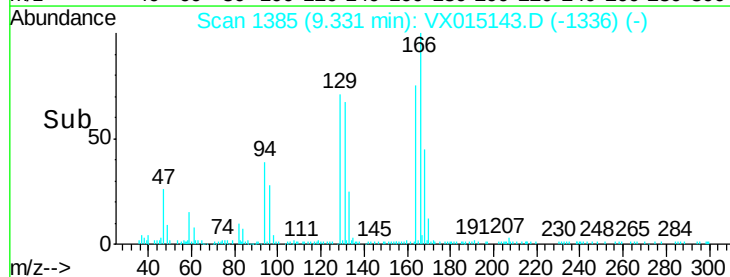
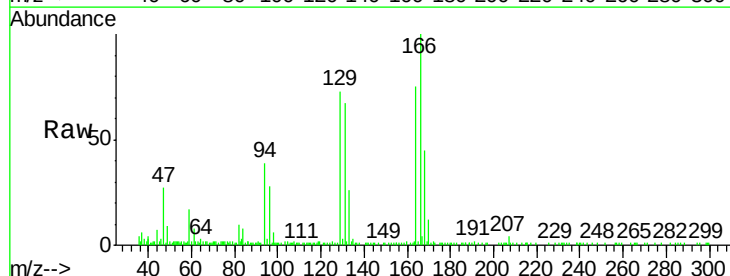
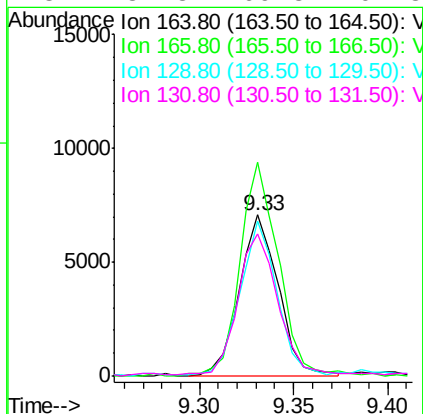
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20200304

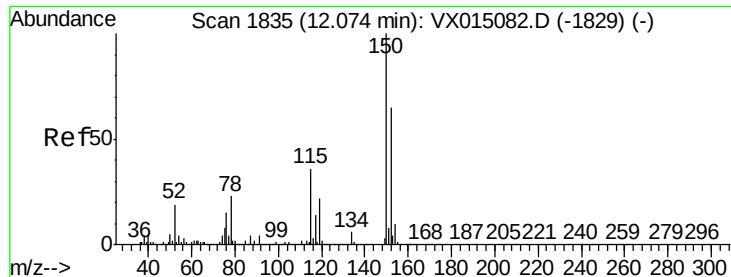
Tgt Ion:117 Resp: 545046
Ion Ratio Lower Upper
117 100
82 53.6 43.3 64.9
119 31.4 25.8 38.8



#64
Tetrachloroethene
Concen: 2.25 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

Tgt Ion:164 Resp: 10156
Ion Ratio Lower Upper
164 100
166 131.0 101.1 151.7
129 95.7 69.4 104.0
131 87.3 69.8 104.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20200304

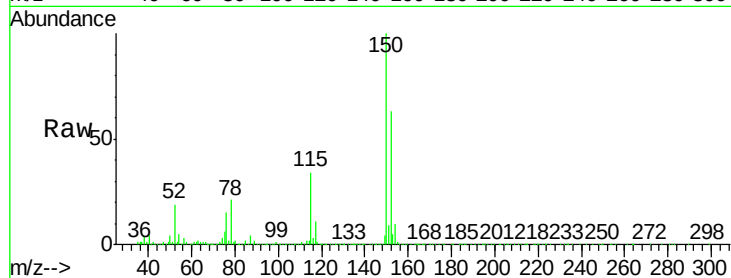
Tgt Ion: 152 Resp: 278405

Ion Ratio Lower Upper

152 100

115 54.8 38.2 114.6

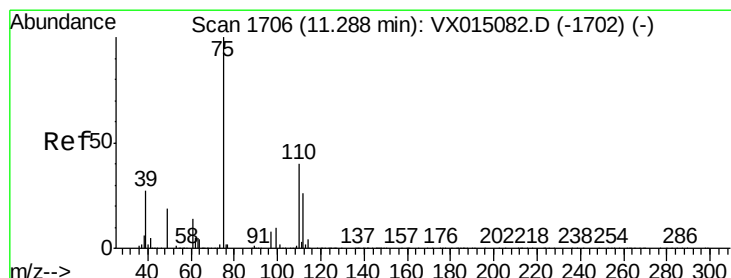
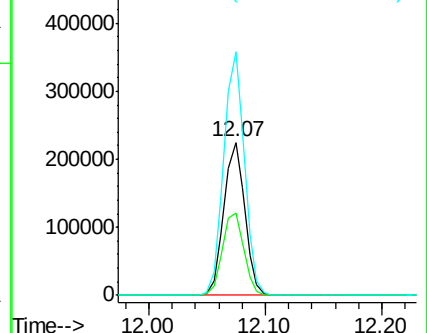
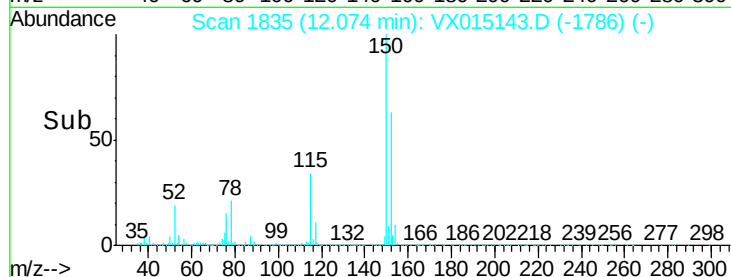
150 157.2 0.0 343.8



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: 22.42 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015143.D

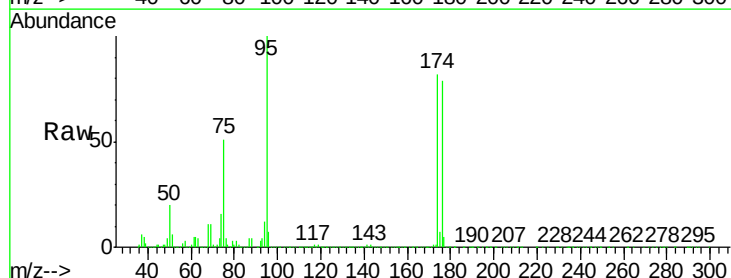
Acq: 09 Mar 2020 15:21

Tgt Ion: 75 Resp: 124505

Ion Ratio Lower Upper

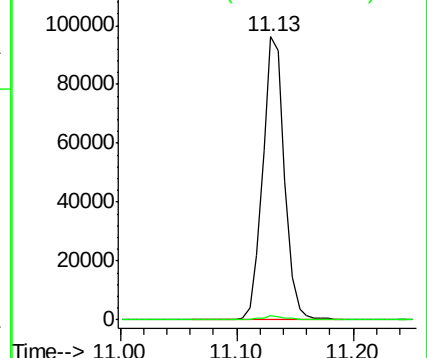
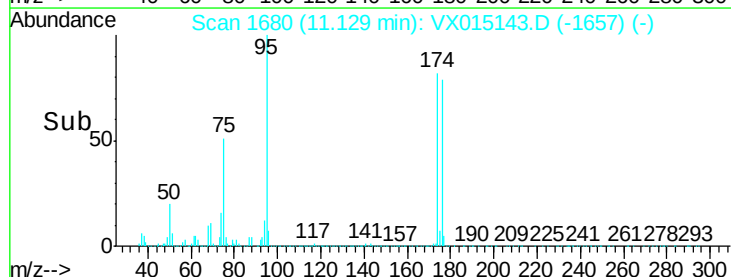
75 100

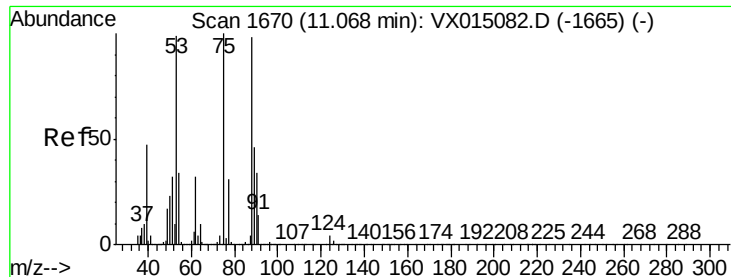
77 1.8 22.6 67.8#



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: 63.63 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20200304

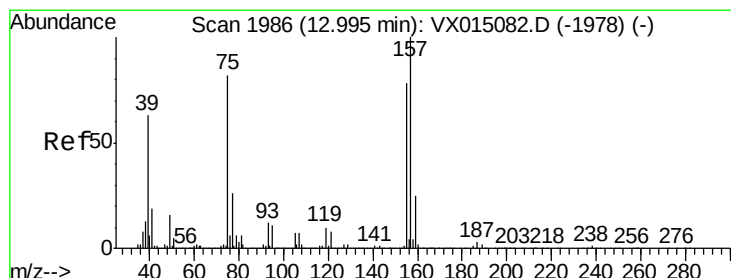
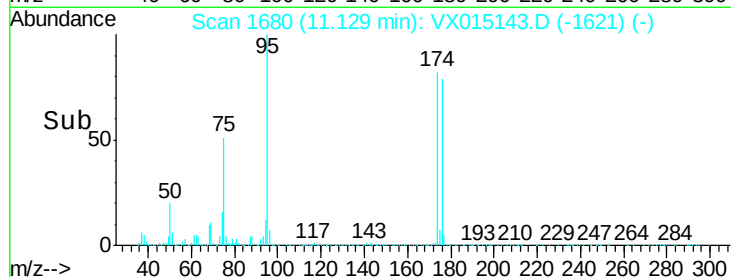
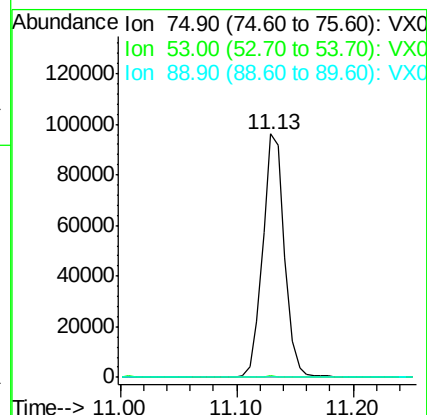
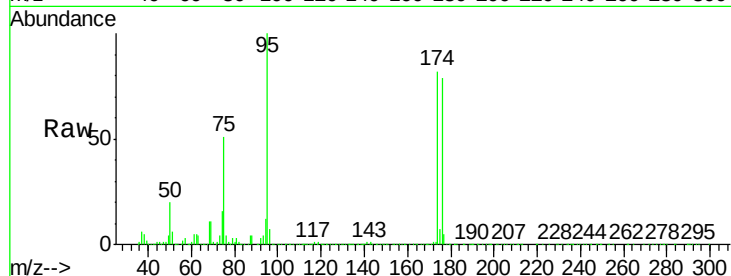
Tgt Ion: 75 Resp: 124505

Ion Ratio Lower Upper

75 100

53 0.5 77.9 116.9#

89 0.0 36.2 54.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.42 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX015143.D

Acq: 09 Mar 2020 15:21

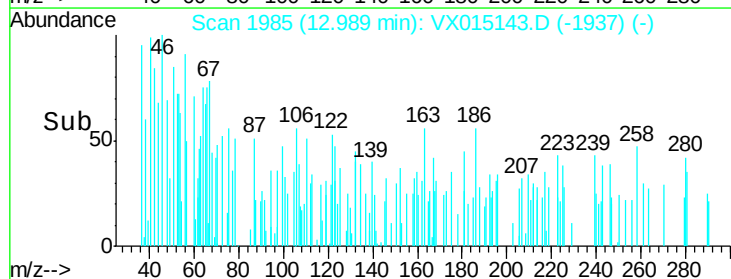
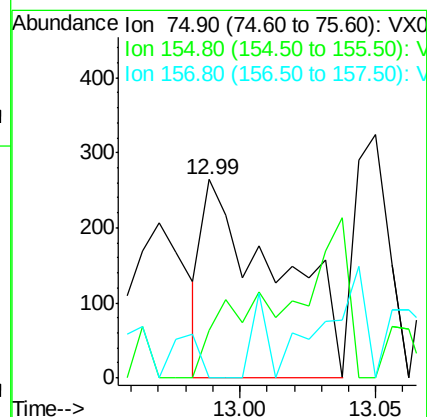
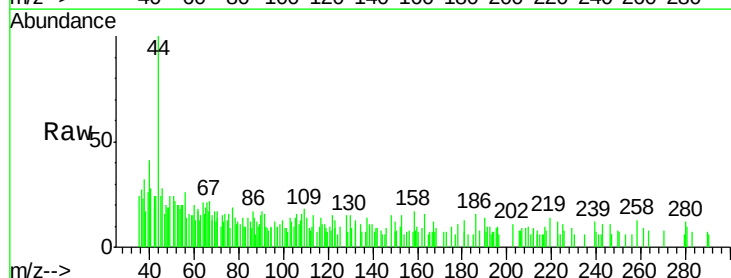
Tgt Ion: 75 Resp: 496

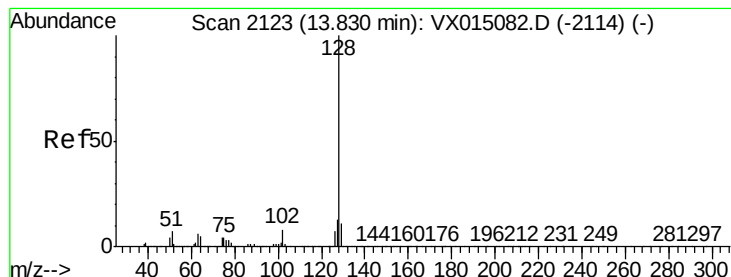
Ion Ratio Lower Upper

75 100

155 0.0 46.6 139.7#

157 8.3 59.2 177.5#





#95
Naphthalene
Concen: 1.45 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015143.D
Acq: 09 Mar 2020 15:21

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20200304

Tgt Ion	Ratio	Lower	Upper
128	100		
127	25.6	10.3	15.5#
129	12.2	8.6	13.0

