

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX030920\
 Data File : VX015138.D
 Acq On : 09 Mar 2020 13:28
 Operator : JC/SP
 Sample : L1842-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20200303

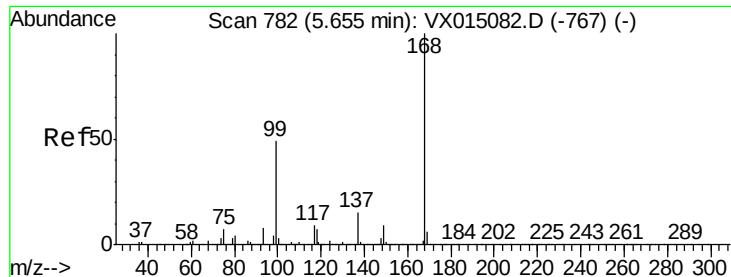
Quant Time: Mar 09 14:04:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	343483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	559646	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	538030	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	263631	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	210015	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
35) Dibromofluoromethane	5.49	113	174033	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
50) Toluene-d8	8.71	98	678915	50.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.10%	
62) 4-Bromofluorobenzene	11.13	95	244976	51.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	694	0.23	ug/l #	42
3) Chloromethane	1.32	50	2157	0.51	ug/l	97
5) Bromomethane	1.67	94	939	0.35	ug/l #	52
9) 1,1,2-Trichlorotrifluoroet	2.37	101	801	0.25	ug/l #	64
10) Methyl Iodide	2.51	142	993	0.27	ug/l #	46
11) Tert butyl alcohol	3.05	59	172	0.24	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	1322	0.40	ug/l #	66
13) Acrolein	2.30	56	156	0.23	ug/l #	1
15) Acrylonitrile	3.14	53	437	0.25	ug/l #	25
16) Acetone	2.44	43	4646	2.82	ug/l	94
27) cis-1,2-Dichloroethene	4.58	96	2347	0.59	ug/l	47
31) Cyclohexane	5.65	56	6682	1.16	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	24127	4.66	ug/l #	49
38) Carbon Tetrachloride	5.78	117	3889	0.80	ug/l #	73
44) Trichloroethene	7.21	130	229056	53.58	ug/l	96
49) 1,4-Dioxane	7.75	88	297	3.20	ug/l #	57
55) 1,1,2-Trichloroethane	9.21	97	1804	0.47	ug/l #	89
58) 2-Chloroethyl Vinyl ether	8.31	63	680	0.23	ug/l #	68
76) 1,2,3-Trichloropropane	11.13	75	122627	23.32	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	122627	66.18	ug/l #	11
95) Naphthalene	13.84	128	872	1.47	ug/l #	80

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

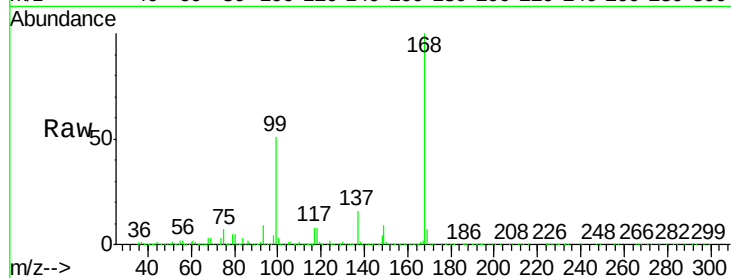
RE117D1-20200303

Tgt Ion: 168 Resp: 343483

Ion Ratio Lower Upper

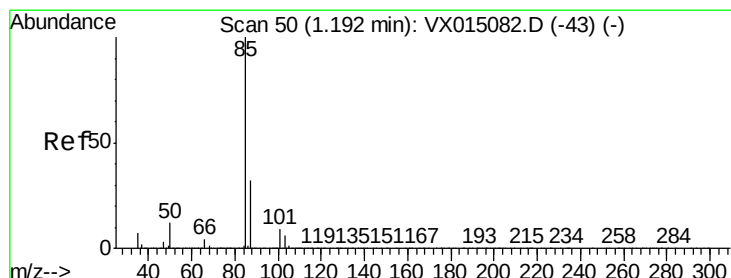
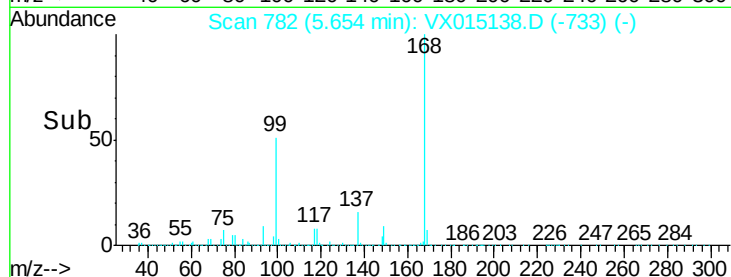
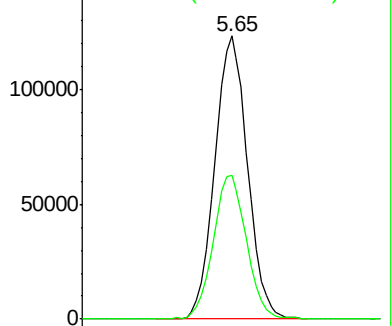
168 100

99 50.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.23 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX015138.D

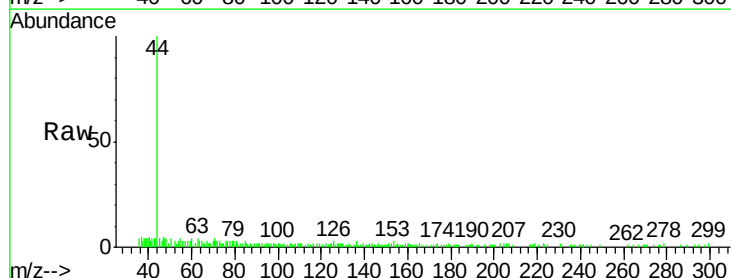
Acq: 09 Mar 2020 13:28

Tgt Ion: 85 Resp: 694

Ion Ratio Lower Upper

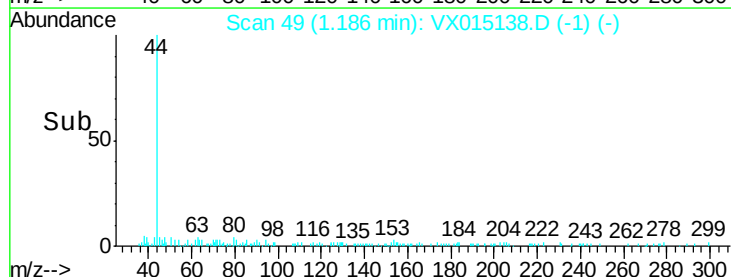
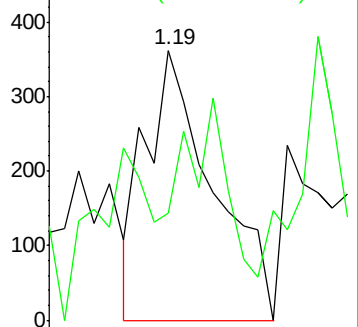
85 100

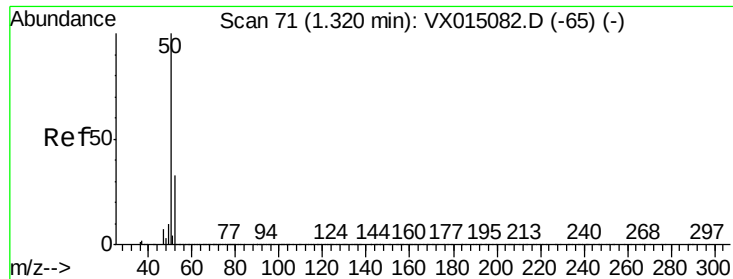
87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

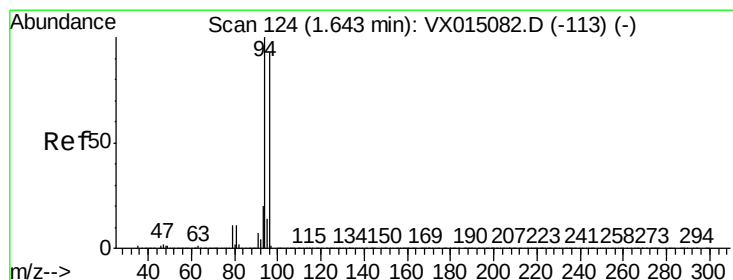
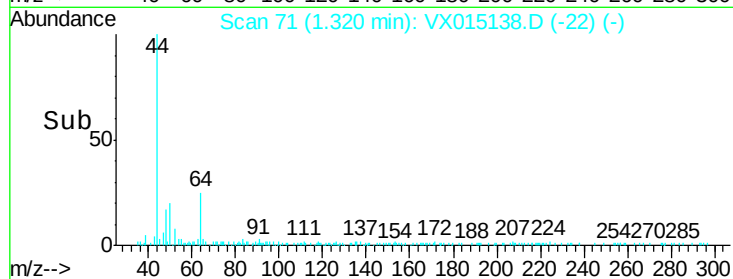
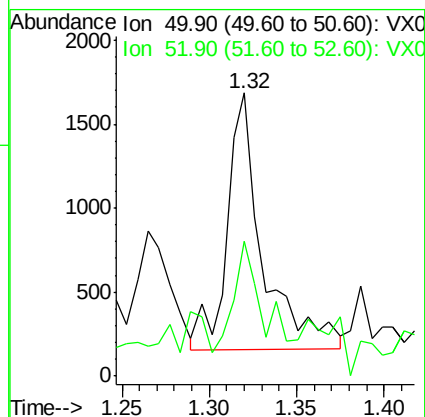
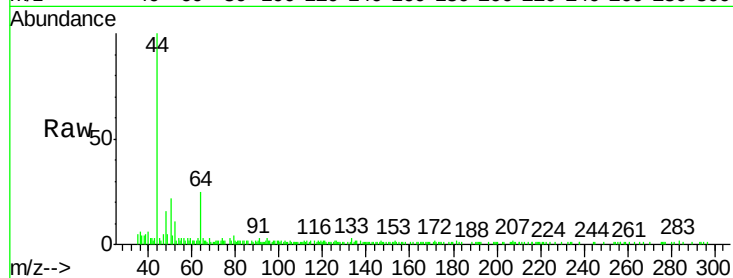




#3
Chloromethane
Concen: 0.51 ug/l
RT: 1.32 min Scan# 71
Delta R.T. -0.00 min
Lab File: VX015138.D
Acq: 09 Mar 2020 13:28

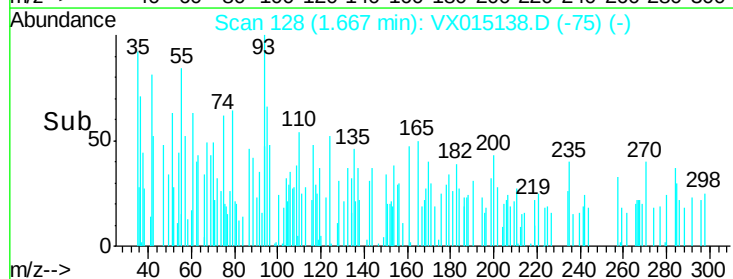
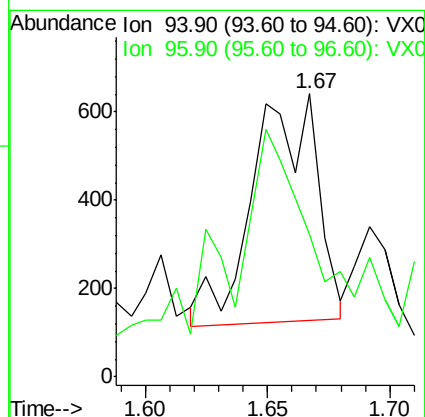
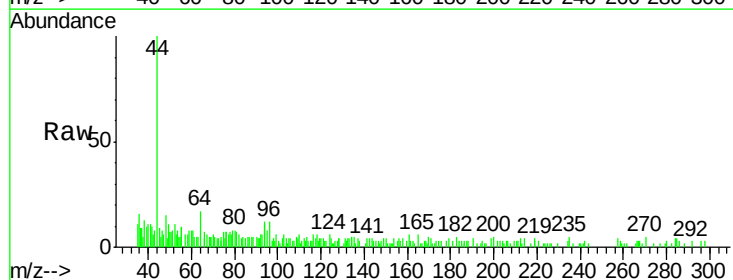
Instrument :
MSVOA_X
ClientSampleId :
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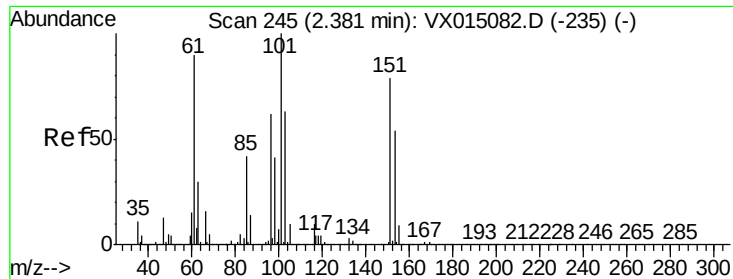
Tgt Ion: 50 Resp: 2157
Ion Ratio Lower Upper
50 100
52 30.7 26.2 39.2



#5
Bromomethane
Concen: 0.35 ug/l
RT: 1.67 min Scan# 128
Delta R.T. 0.02 min
Lab File: VX015138.D
Acq: 09 Mar 2020 13:28

Tgt Ion: 94 Resp: 939
Ion Ratio Lower Upper
94 100
96 46.8 74.6 111.8#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.25 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.01 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

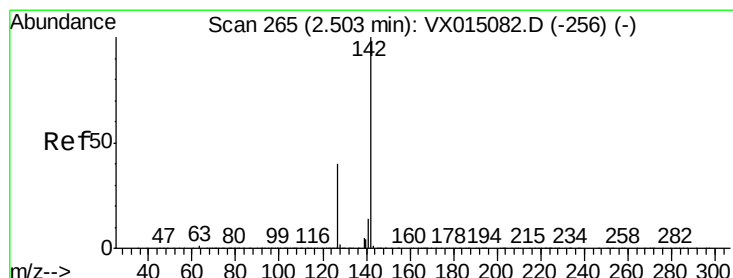
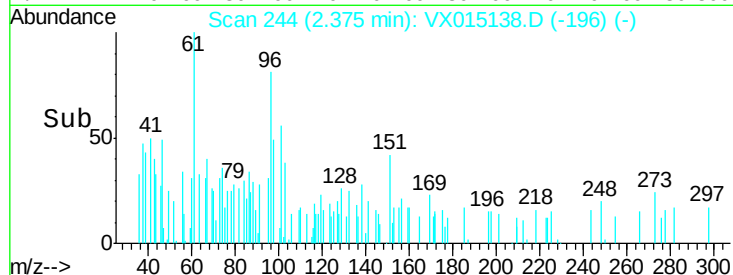
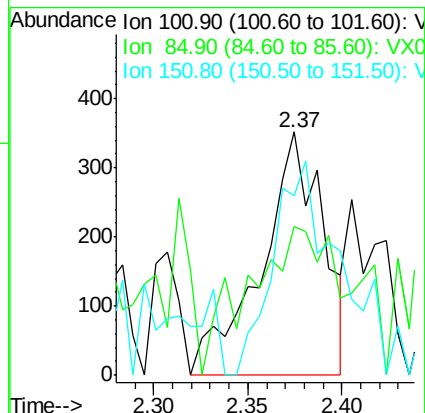
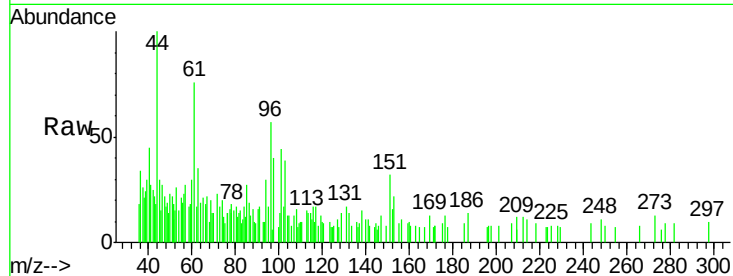
Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20200303

Tgt Ion:	101	Resp:	801
Ion Ratio	Lower	Upper	
101	100		
85	87.0	33.7	50.5#
151	95.1	64.0	96.0



#10

Methyl Iodide

Concen: 0.27 ug/l

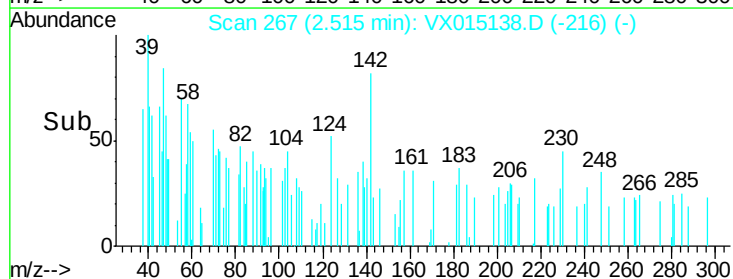
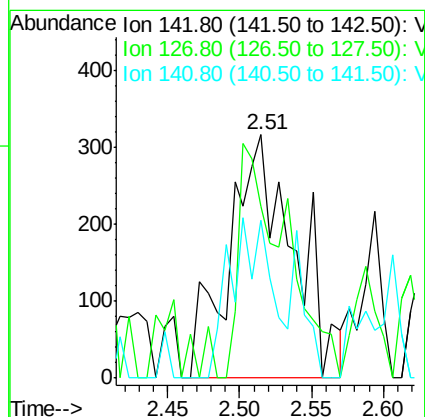
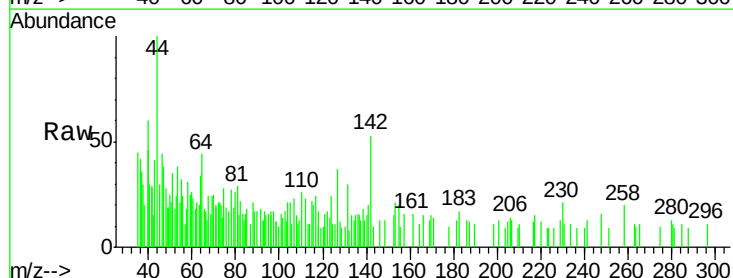
RT: 2.51 min Scan# 267

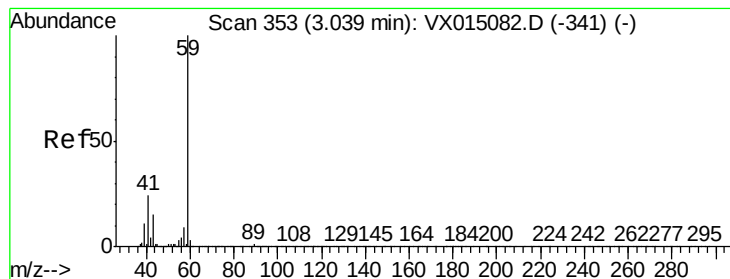
Delta R.T. 0.01 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Tgt Ion:	142	Resp:	993
Ion Ratio	Lower	Upper	
142	100		
127	69.7	31.7	47.5#
141	42.3	11.3	16.9#





#11

Tert butyl alcohol

Concen: 0.24 ug/l

RT: 3.05 min Scan# 354

Delta R.T. 0.01 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

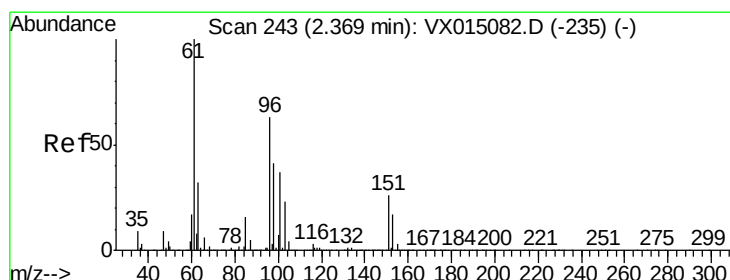
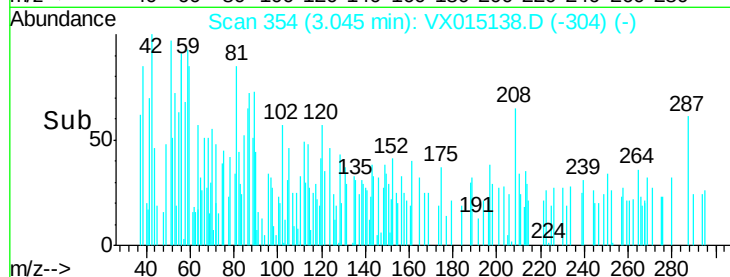
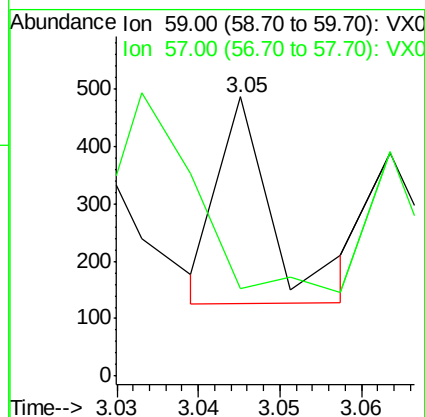
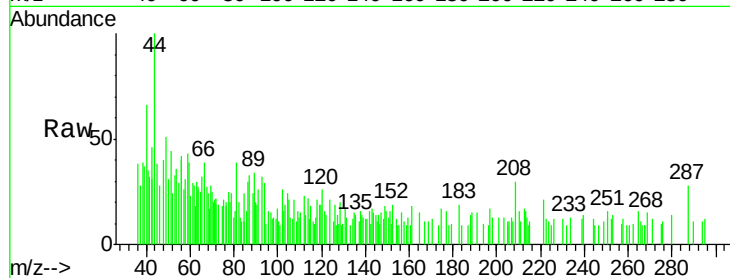
RE117D1-20200303

Tgt Ion: 59 Resp: 172

Ion Ratio Lower Upper

59 100

57 382.6 8.2 12.4#



#12

1,1-Dichloroethene

Concen: 0.40 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.00 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

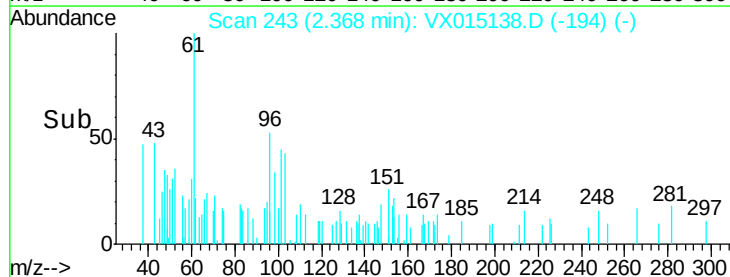
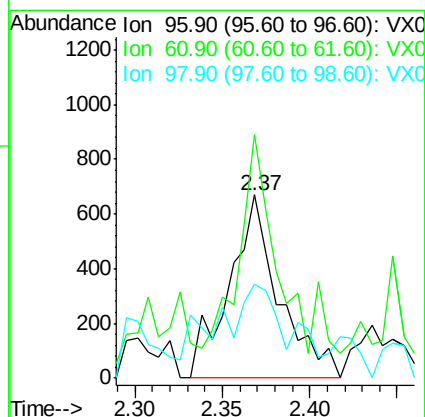
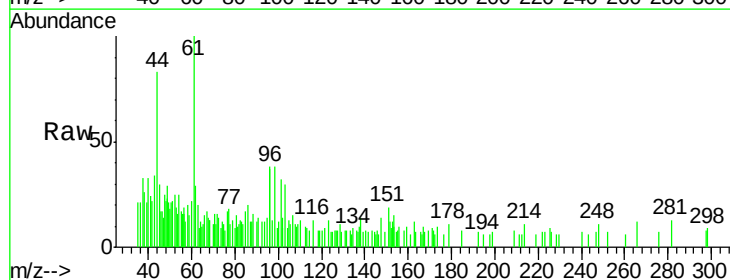
Tgt Ion: 96 Resp: 1322

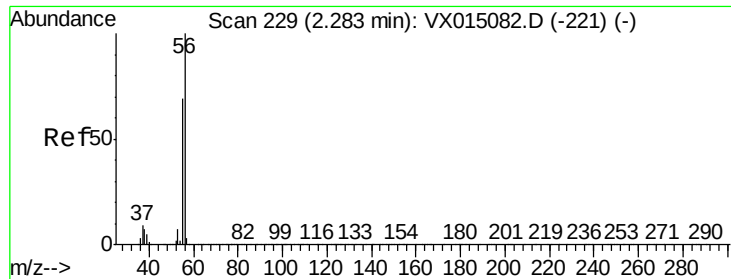
Ion Ratio Lower Upper

96 100

61 119.9 126.2 189.4#

98 28.4 51.4 77.0#





#13

Acrolein

Concen: 0.23 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

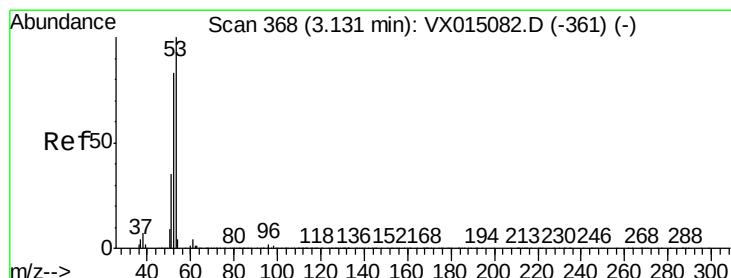
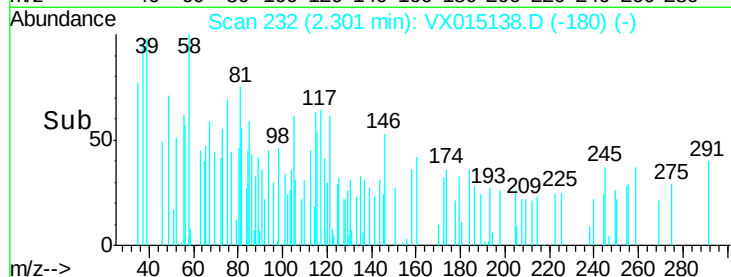
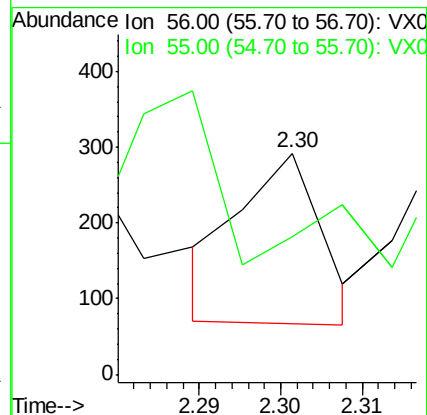
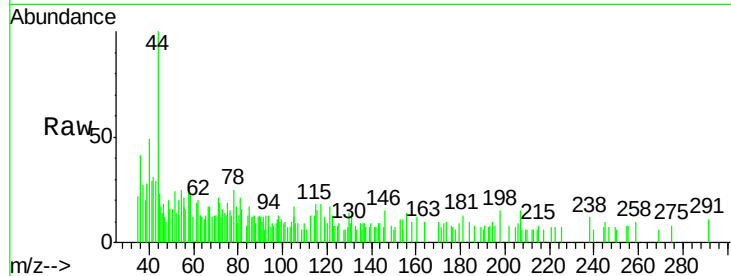
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Tgt Ion: 56 Resp: 156

Ion Ratio Lower Upper

56 100

55 162.2 55.4 83.0#



#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

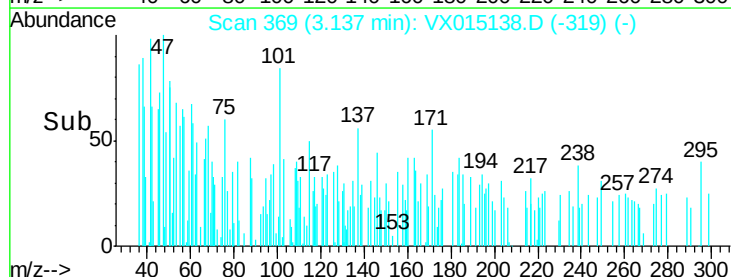
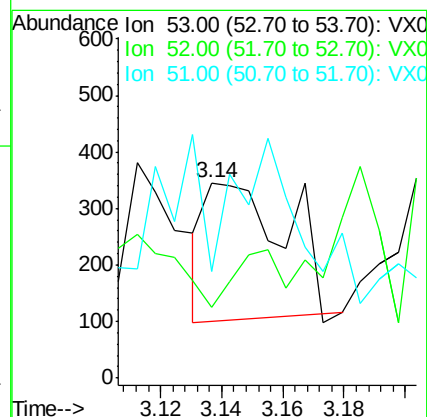
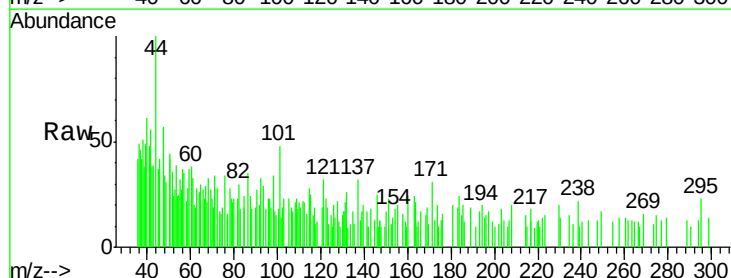
Tgt Ion: 53 Resp: 437

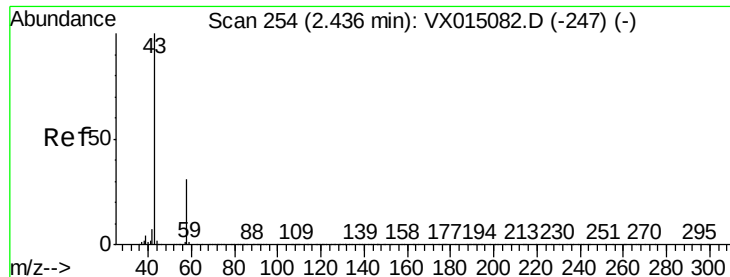
Ion Ratio Lower Upper

53 100

52 0.0 66.6 100.0#

51 57.7 29.0 43.6#





#16

Acetone

Concen: 2.82 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

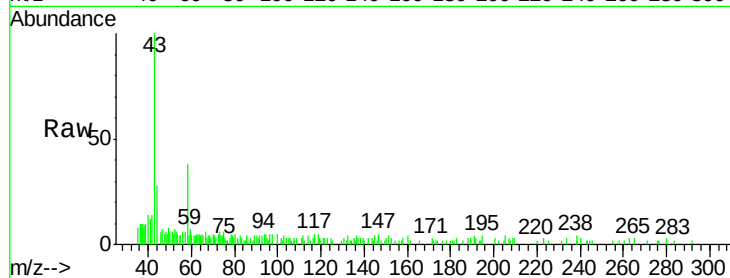
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Tgt Ion: 43 Resp: 4646

Ion Ratio Lower Upper

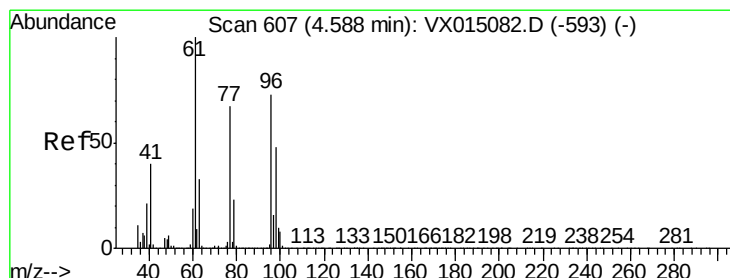
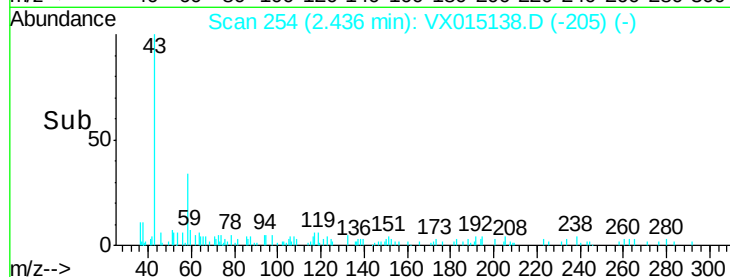
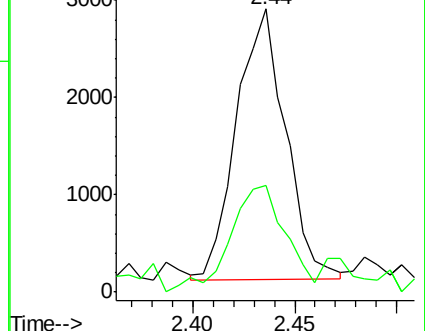
43 100

58 34.3 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.59 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

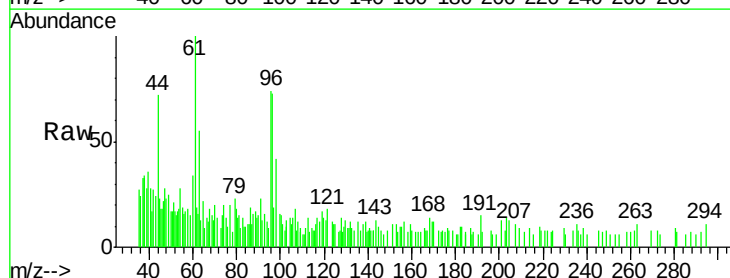
Tgt Ion: 96 Resp: 2347

Ion Ratio Lower Upper

96 100

61 55.6 0.0 286.8

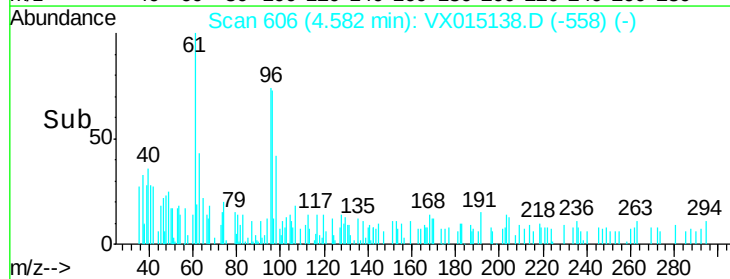
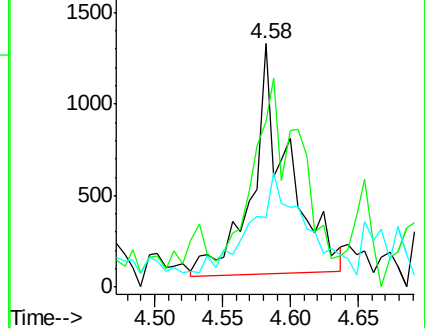
98 73.9 0.0 128.4

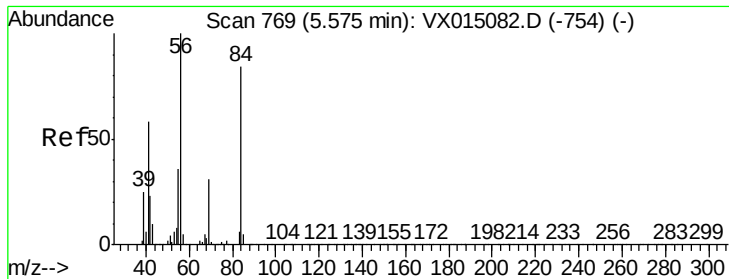


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

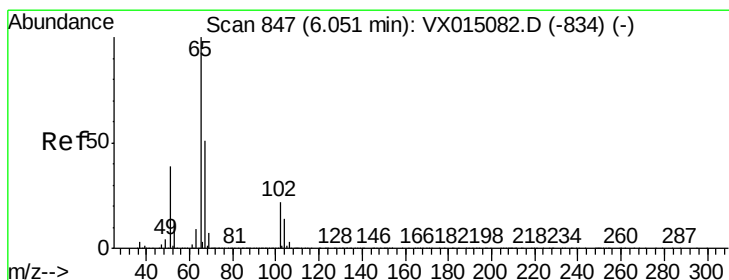
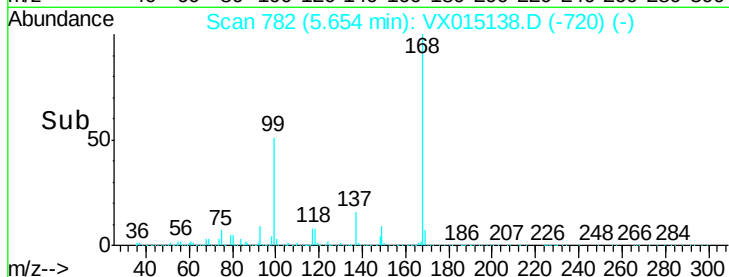
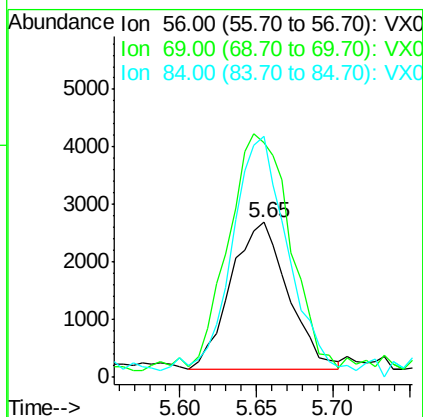
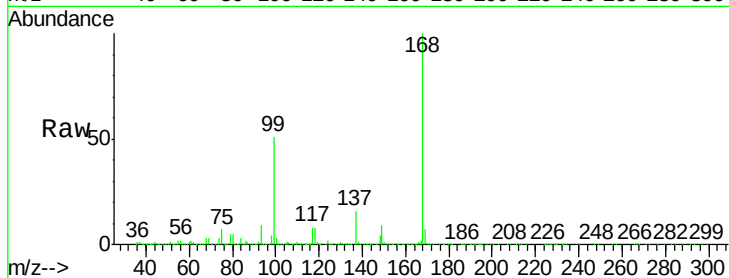




#31
Cyclohexane
Concen: 1.16 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.08 min
Lab File: VX015138.D
Acq: 09 Mar 2020 13:28

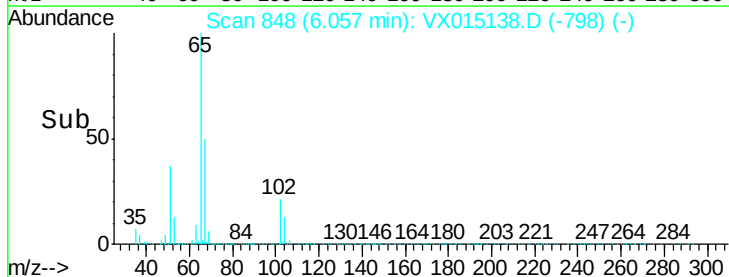
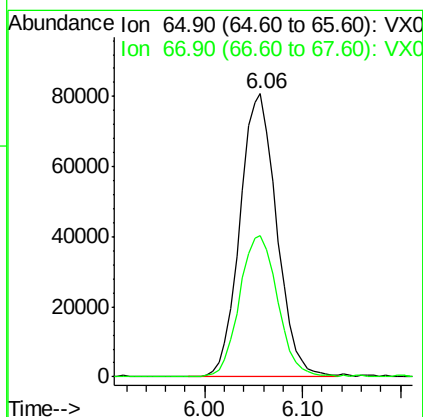
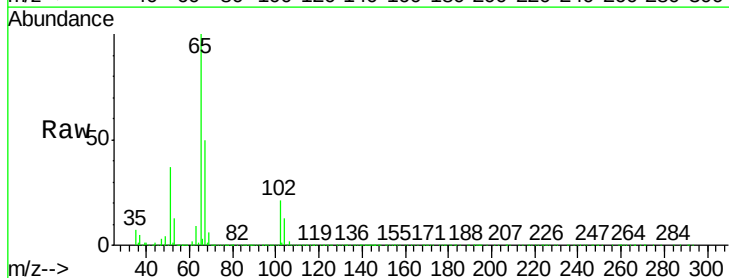
Instrument :
MSVOA_X
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RE117D1-20200303

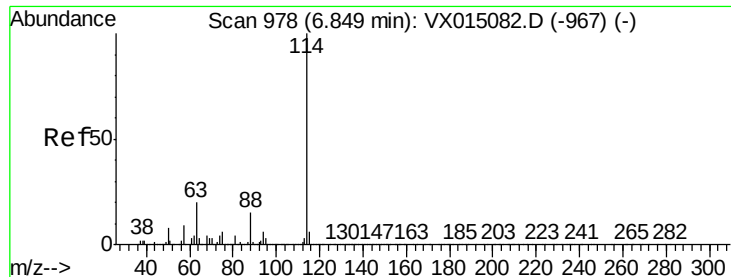
Tgt Ion: 56 Resp: 6682
Ion Ratio Lower Upper
56 100
69 152.9 25.0 37.6#
84 156.2 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 51.54 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX015138.D
Acq: 09 Mar 2020 13:28

Tgt Ion: 65 Resp: 210015
Ion Ratio Lower Upper
65 100
67 52.1 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: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20200303

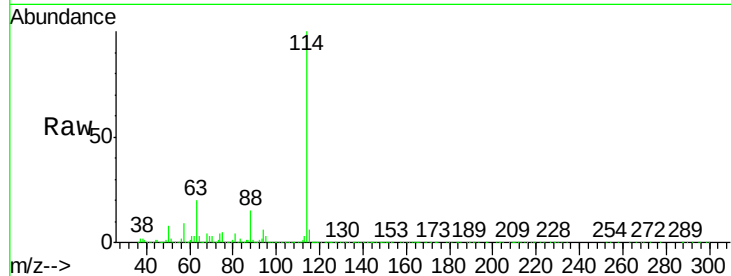
Tgt Ion:114 Resp: 559646

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

88 15.0 0.0 30.6



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

300000

250000

200000

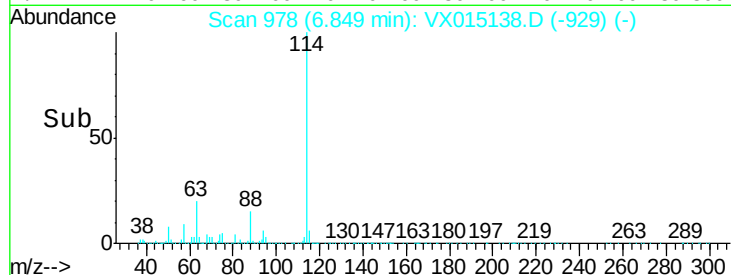
150000

100000

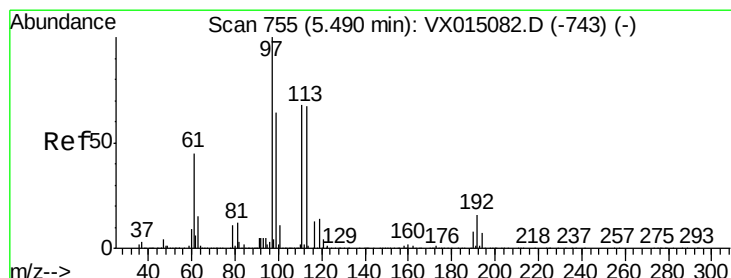
50000

0

6.70 6.80 6.90 7.00



Time-->



#35

Dibromofluoromethane

Concen: 49.29 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

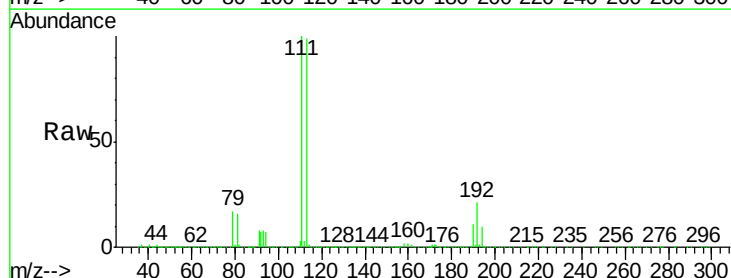
Tgt Ion:113 Resp: 174033

Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

192 22.7 18.6 28.0



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

80000

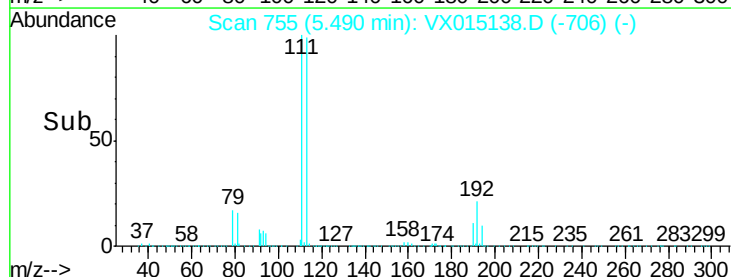
60000

40000

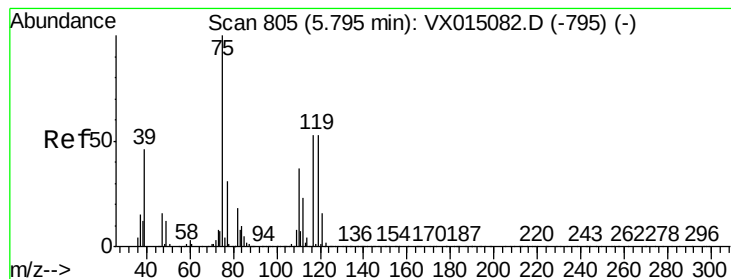
20000

0

5.40 5.50 5.60



Time-->



#36

1,1-Dichloropropene

Concen: 4.66 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.13 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20200303

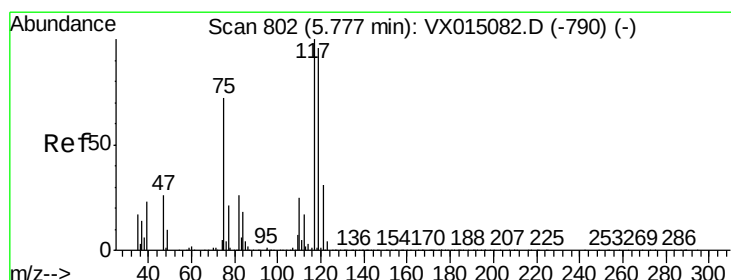
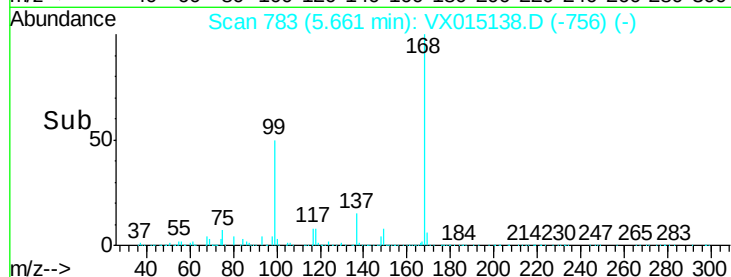
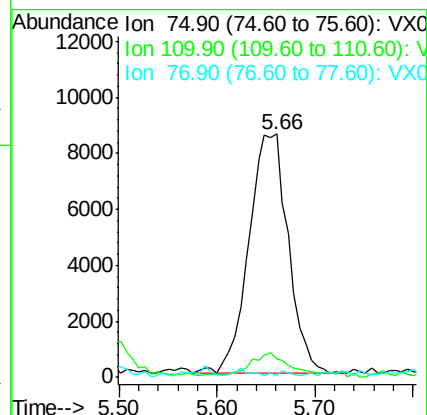
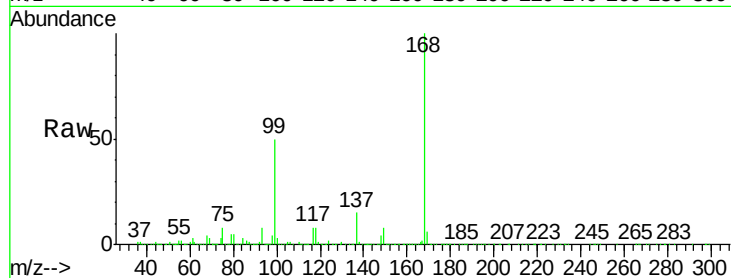
Tgt Ion: 75 Resp: 24127

Ion Ratio Lower Upper

75 100

110 8.1 17.9 53.8#

77 0.8 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 0.80 ug/l

RT: 5.78 min Scan# 803

Delta R.T. 0.01 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

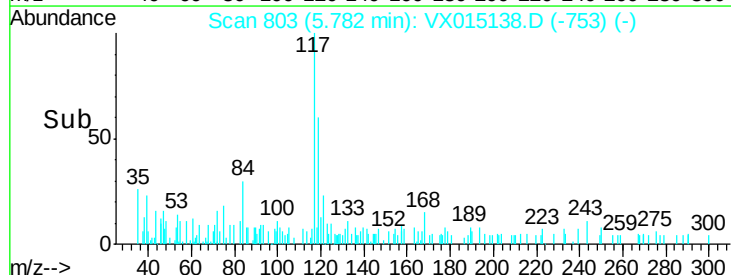
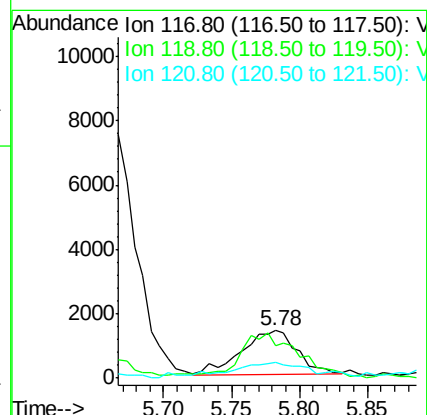
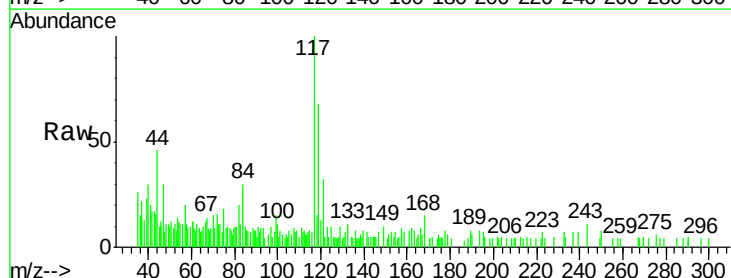
Tgt Ion: 117 Resp: 3889

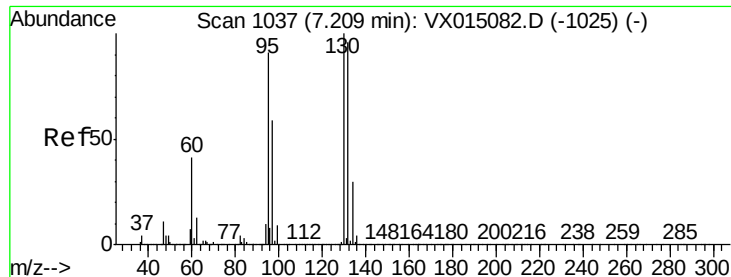
Ion Ratio Lower Upper

117 100

119 64.9 76.9 115.3#

121 24.0 24.6 37.0#





#44

Trichloroethene

Concen: 53.58 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

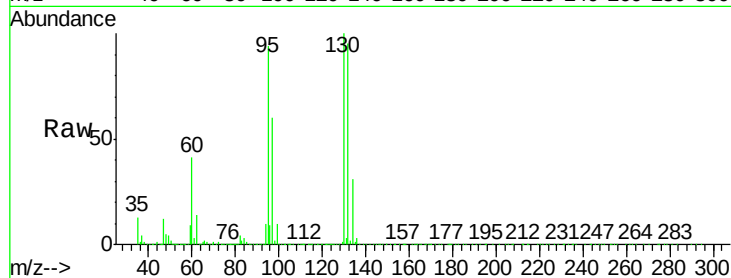
RE117D1-20200303

Tgt Ion: 130 Resp: 229056

Ion Ratio Lower Upper

130 100

95 94.2 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

120000

100000

80000

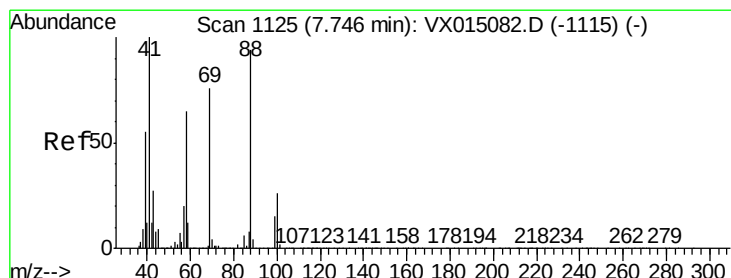
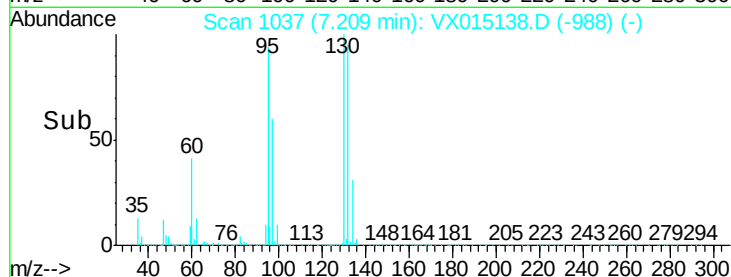
60000

40000

20000

0

Time-->



#49

1,4-Dioxane

Concen: 3.20 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

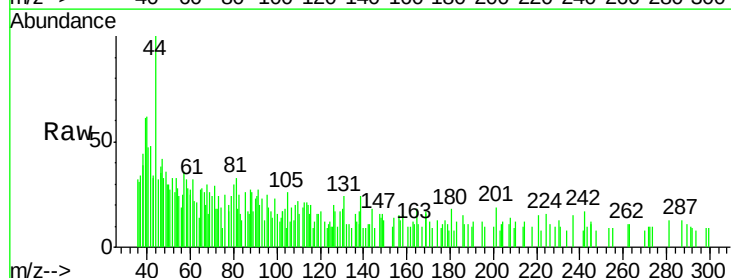
Tgt Ion: 88 Resp: 297

Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

58 40.7 55.6 83.4#



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

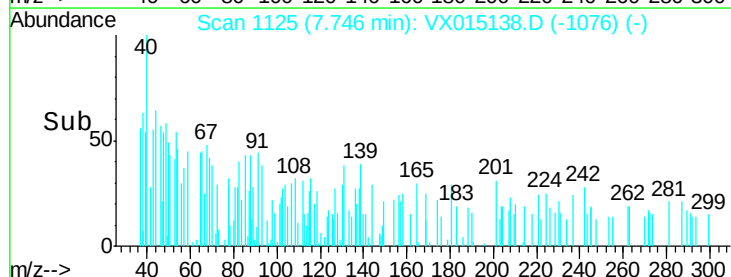
600

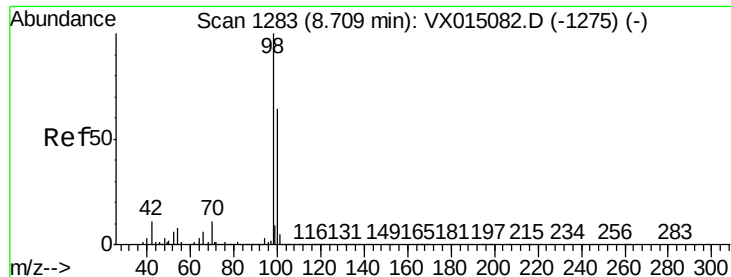
400

200

0

Time-->





#50

Toluene-d8

Concen: 50.55 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

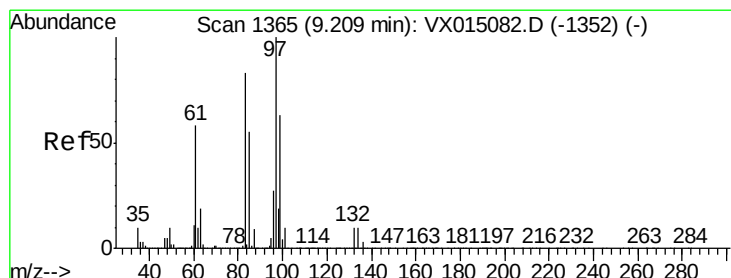
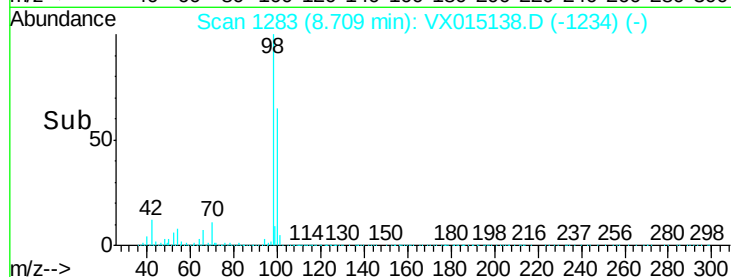
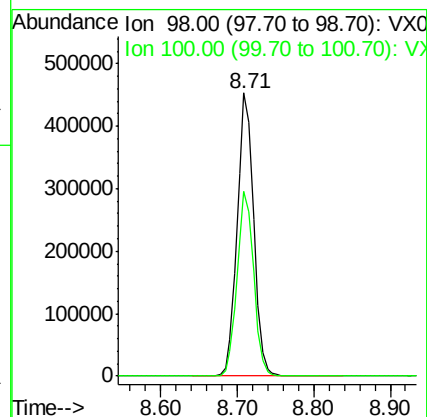
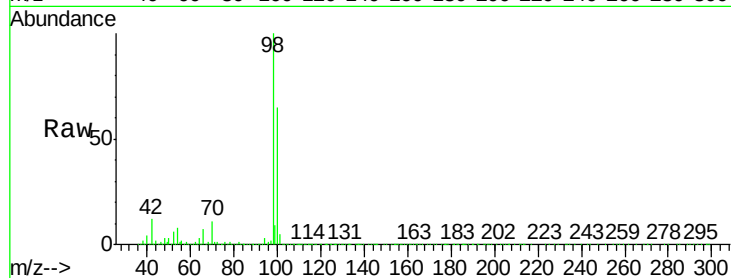
RE117D1-20200303

Tgt Ion: 98 Resp: 678915

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6



#55

1,1,2-Trichloroethane

Concen: 0.47 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Tgt Ion: 97 Resp: 1804

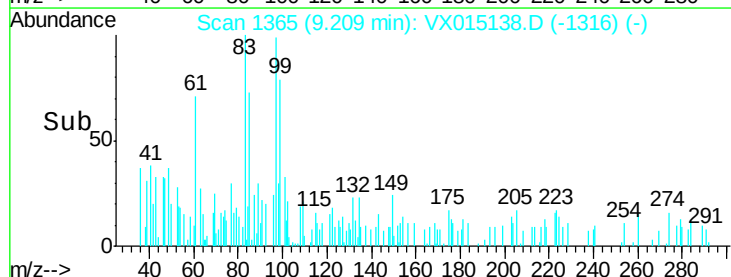
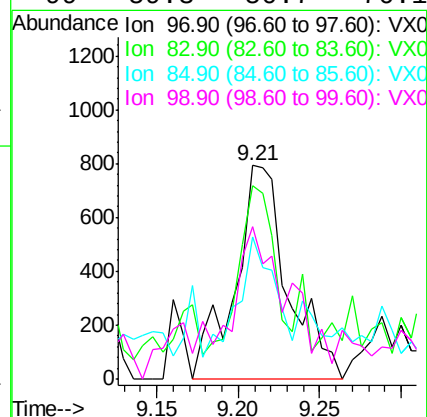
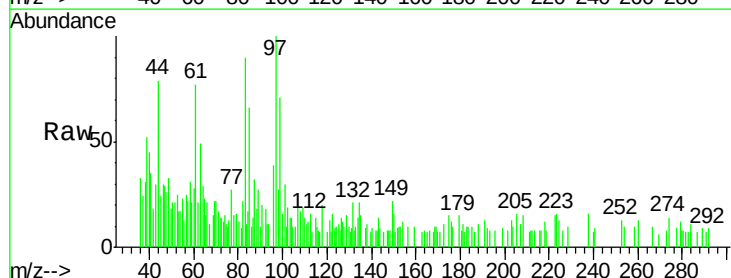
Ion Ratio Lower Upper

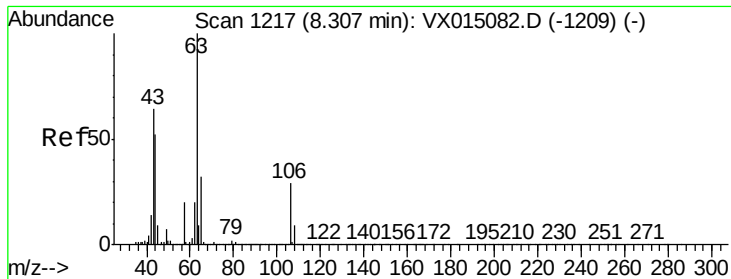
97 100

83 72.0 66.4 99.6

85 42.3 43.5 65.3#

99 59.3 50.7 76.1

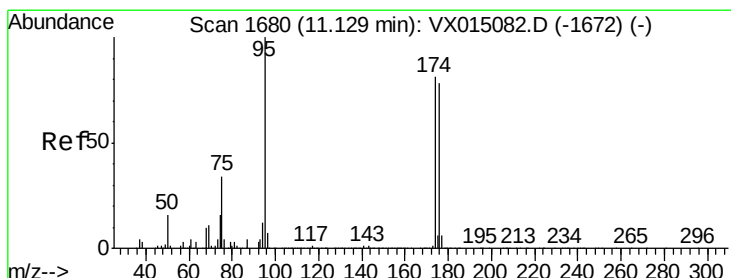
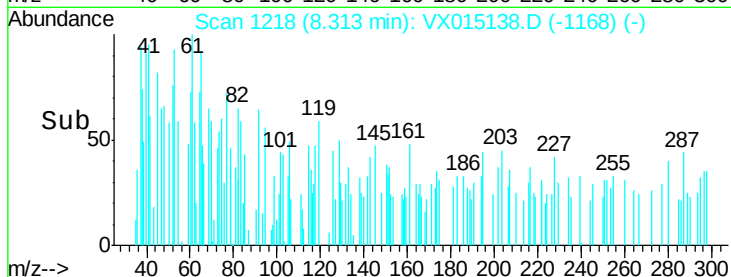
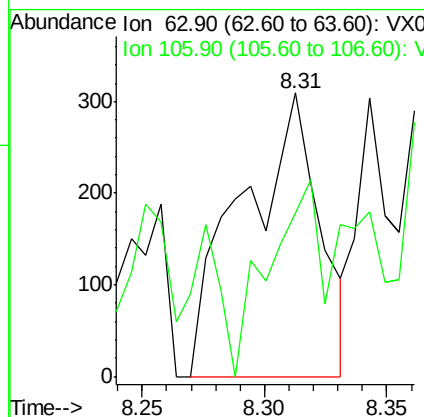
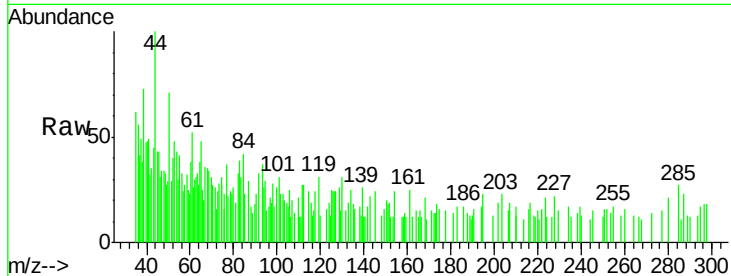




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.23 ug/l
 RT: 8.31 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VX015138.D
 Acq: 09 Mar 2020 13:28

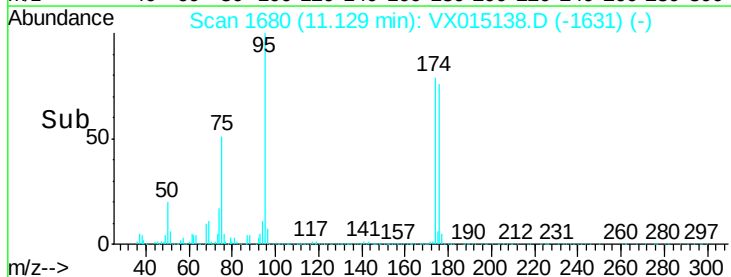
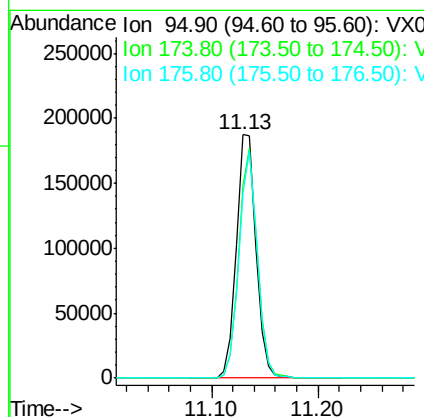
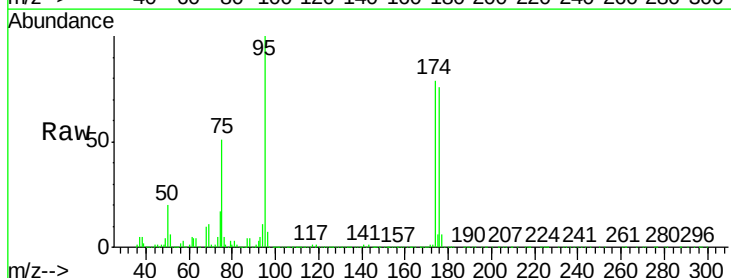
Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20200303

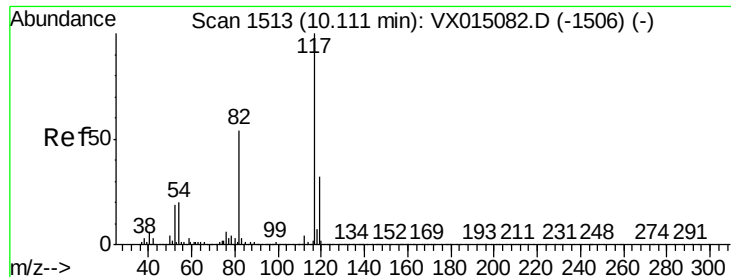
Tgt Ion: 63 Resp: 680
 Ion Ratio Lower Upper
 63 100
 106 45.4 22.8 34.2#



#62
 4-Bromofluorobenzene
 Concen: 51.14 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.00 min
 Lab File: VX015138.D
 Acq: 09 Mar 2020 13:28

Tgt Ion: 95 Resp: 244976
 Ion Ratio Lower Upper
 95 100
 174 88.7 0.0 177.6
 176 86.9 0.0 170.2

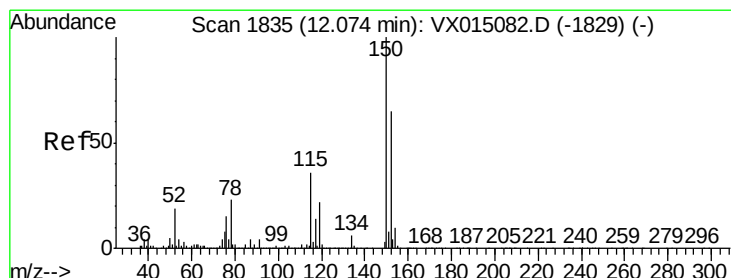
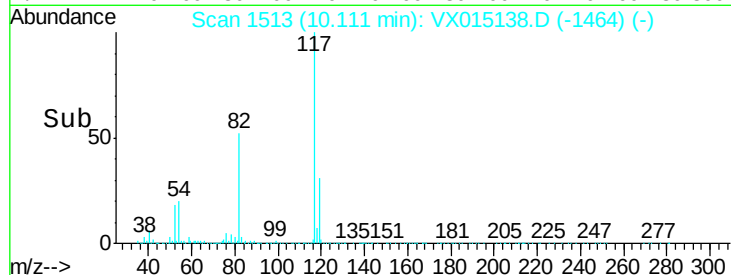
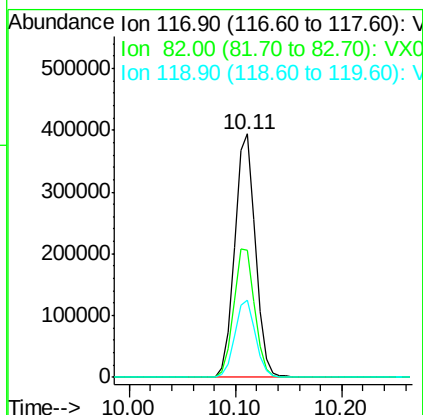
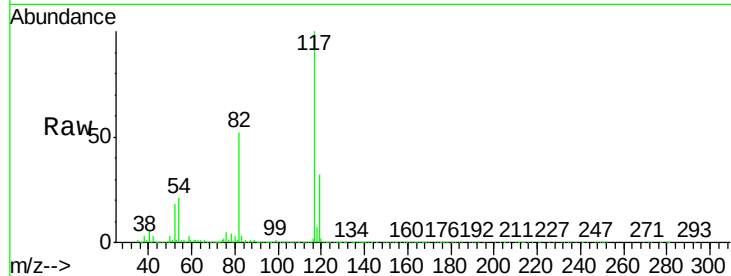




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015138.D
Acq: 09 Mar 2020 13:28

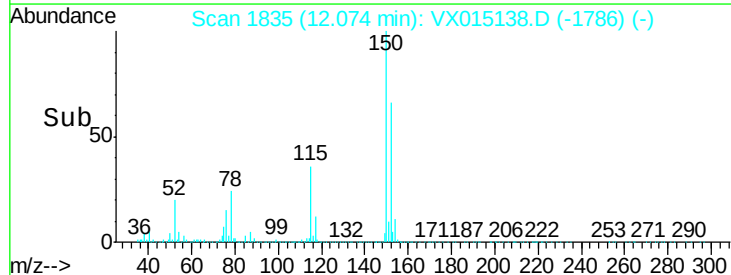
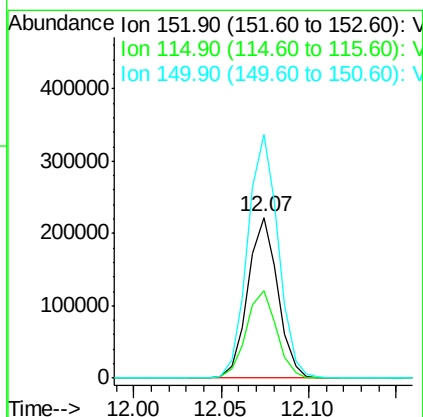
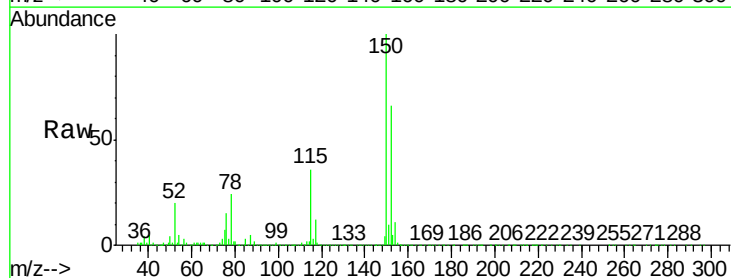
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20200303

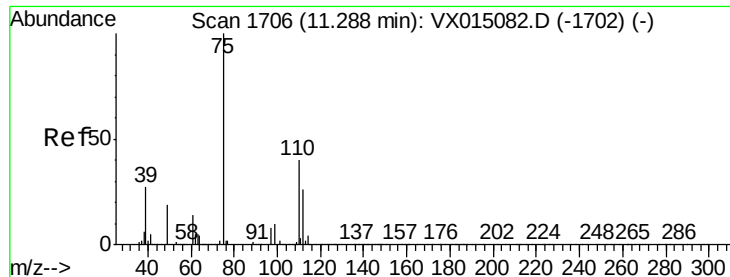
Tgt Ion:117 Resp: 538030
Ion Ratio Lower Upper
117 100
82 52.4 43.3 64.9
119 31.5 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015138.D
Acq: 09 Mar 2020 13:28

Tgt Ion:152 Resp: 263631
Ion Ratio Lower Upper
152 100
115 55.1 38.2 114.6
150 155.2 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 23.32 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

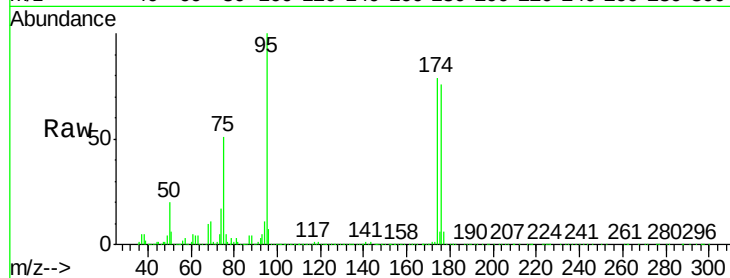
RE117D1-20200303

Tgt Ion: 75 Resp: 122627

Ion Ratio Lower Upper

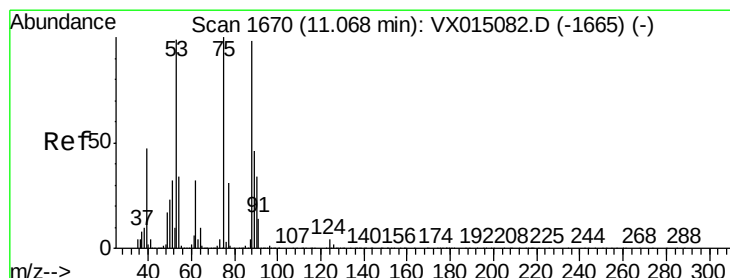
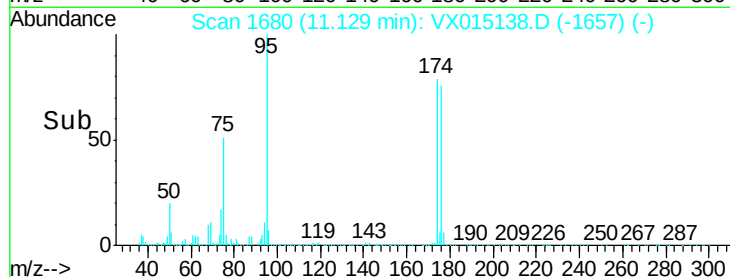
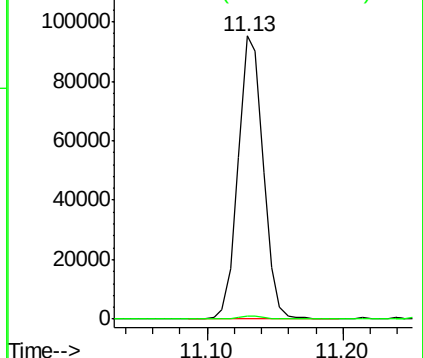
75 100

77 1.2 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: 66.18 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

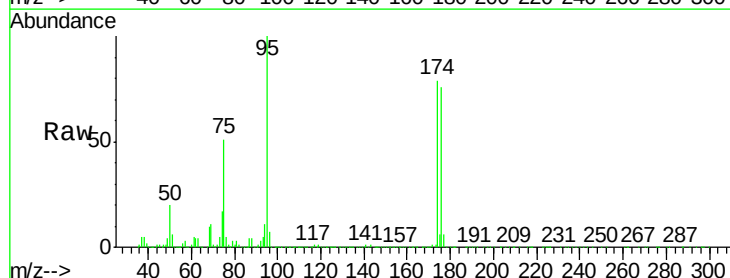
Tgt Ion: 75 Resp: 122627

Ion Ratio Lower Upper

75 100

53 0.1 77.9 116.9#

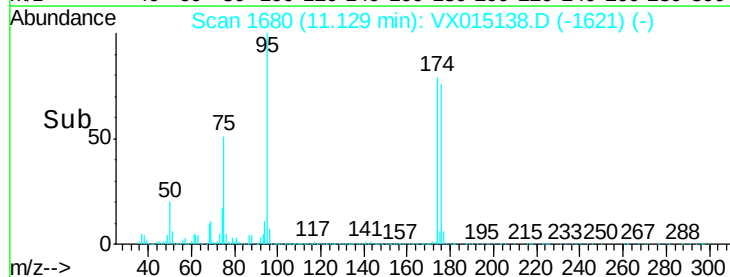
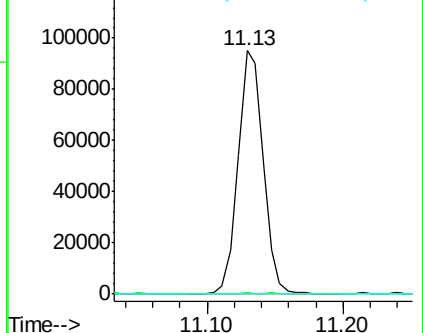
89 0.2 36.2 54.2#

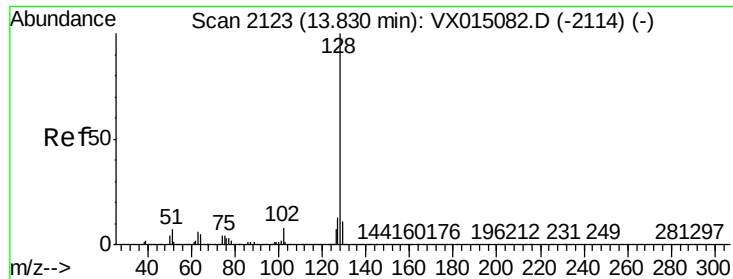


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 1.47 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX015138.D

Acq: 09 Mar 2020 13:28

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20200303

Tgt Ion:128 Resp: 872

Ion Ratio Lower Upper

128 100

127 5.5 10.3 15.5#

129 18.8 8.6 13.0#

