

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031020\
 Data File : VX015157.D
 Acq On : 10 Mar 2020 09:45
 Operator : JC/SP
 Sample : VX0310WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 11 07:24:53 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	326439	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	519195	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	490545	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	235641	50.00	ug/l	0.00

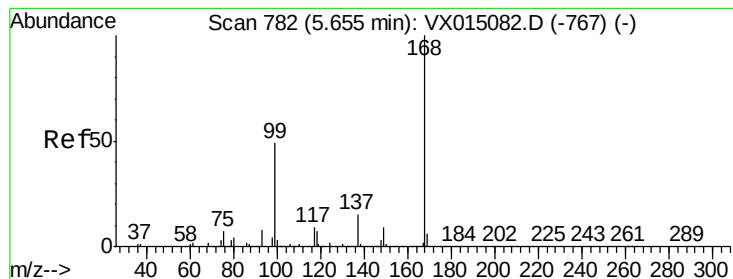
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	182711	47.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.36%	
35) Dibromofluoromethane	5.48	113	159138	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
50) Toluene-d8	8.71	98	625646	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.13	95	221666	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	

Target Compounds

						Qvalue
3) Chloromethane	1.32	50	1146	0.283	ug/l	94
5) Bromomethane	1.66	94	1593	0.631	ug/l #	67
10) Methyl Iodide	2.52	142	2091	0.602	ug/l #	77
11) Tert butyl alcohol	3.08	59	426	0.634	ug/l #	43
13) Acrolein	2.28	56	538	0.852	ug/l #	15
16) Acetone	2.43	43	1019	0.650	ug/l #	71
17) Carbon Disulfide	2.56	76	2530	0.287	ug/l #	81
18) Methyl Acetate	2.76	43	907	0.237	ug/l	99
20) Methylene Chloride	2.84	84	1072	0.292	ug/l #	51
21) trans-1,2-Dichloroethene	3.17	96	720	0.213	ug/l #	27
28) Bromochloromethane	5.00	49	572	0.205	ug/l #	32
31) Cyclohexane	5.64	56	5475	1.004	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	22746	4.739	ug/l #	50
38) Carbon Tetrachloride	5.65	117	28377	6.263	ug/l #	17
44) Trichloroethene	7.20	130	1159	0.292	ug/l	76
49) 1,4-Dioxane	7.77	88	237	2.750	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	105832	22.516	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	105832	63.900	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.64	180	1565	0.308	ug/l	91
94) Hexachlorobutadiene	13.78	225	559	0.214	ug/l	85
95) Naphthalene	13.83	128	3623	1.646	ug/l #	81
96) 1,2,3-Trichlorobenzene	14.01	180	1638	0.323	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

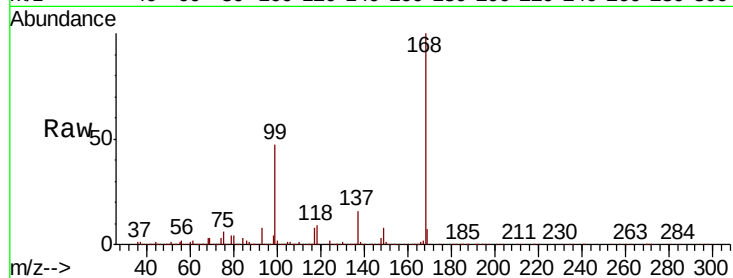
ClientSampleId :

Tot Ion:168 Resp: 326439

Ion Ratio Lower Upper

168 100

99 47.1 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

120000

100000

80000

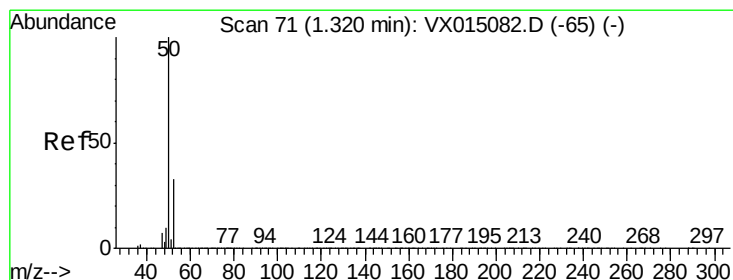
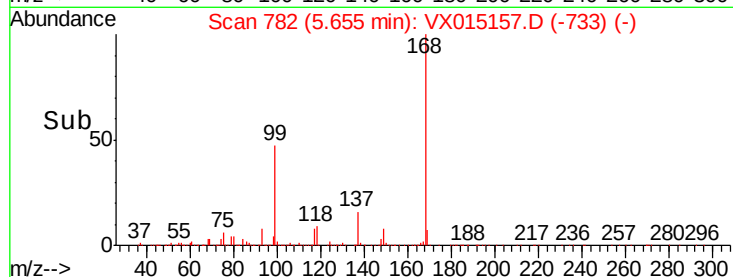
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.283 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015157.D

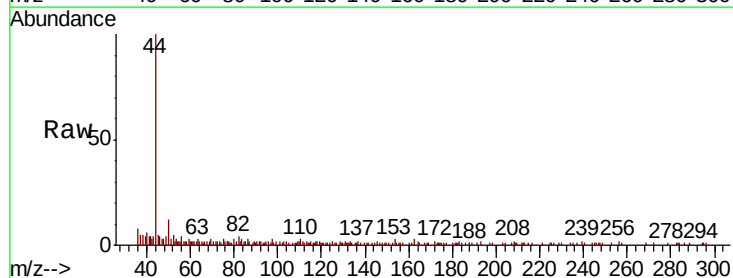
Acq: 10 Mar 2020 09:45

Tgt Ion: 50 Resp: 1146

Ion Ratio Lower Upper

50 100

52 36.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

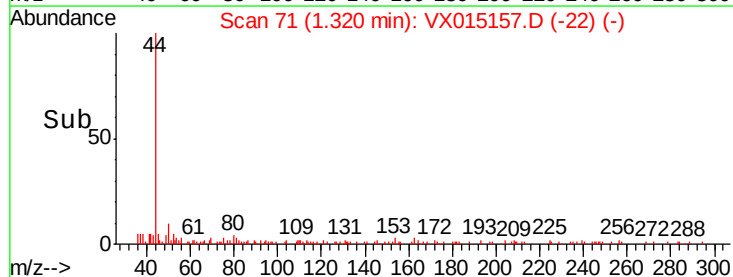
600

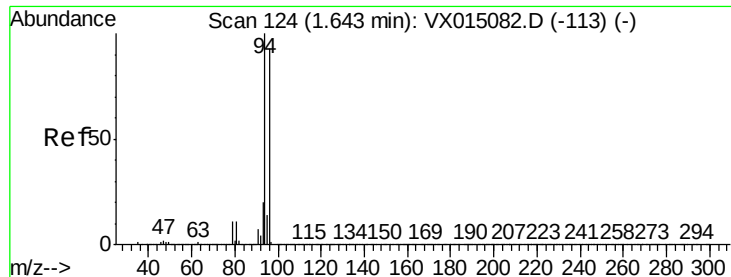
400

200

0

Time-->





#5

Bromomethane

Concen: 0.631 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

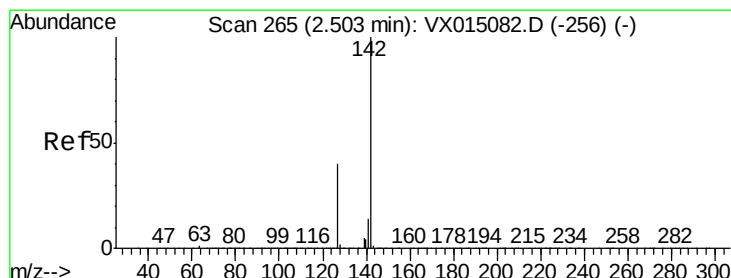
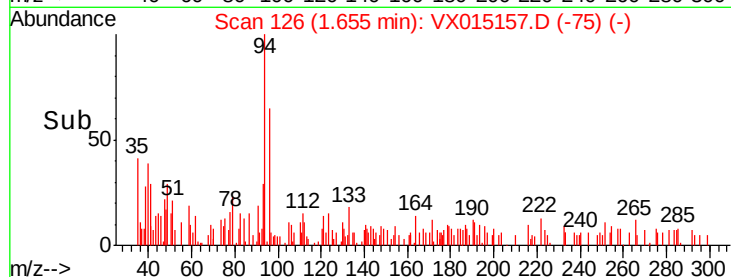
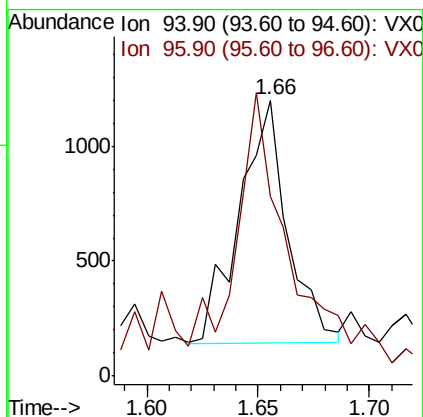
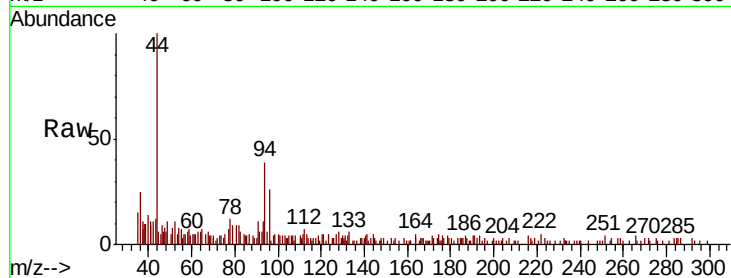
ClientSampled :

Tot Ion: 94 Resp: 1593

Ion Ratio Lower Upper

94 100

96 61.8 74.6 111.8#



#10

Methyl Iodide

Concen: 0.602 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

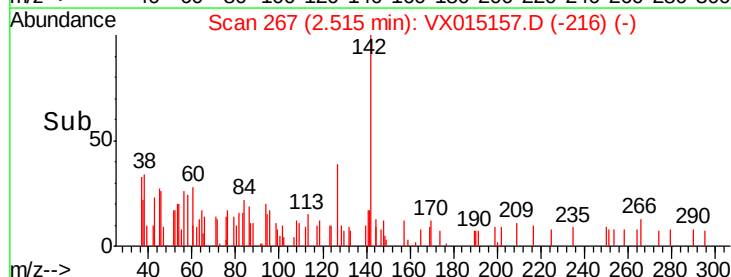
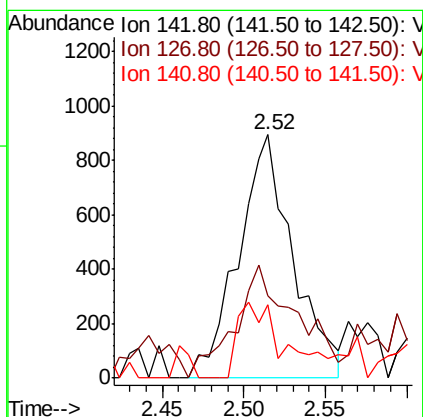
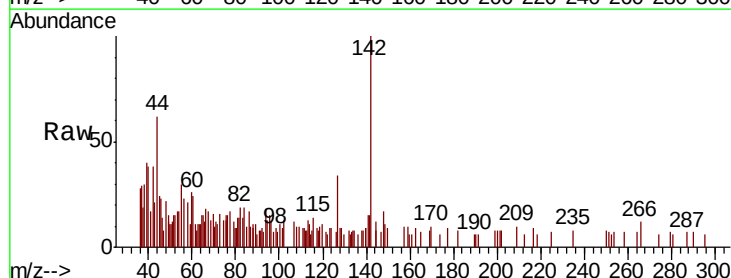
Tgt Ion: 142 Resp: 2091

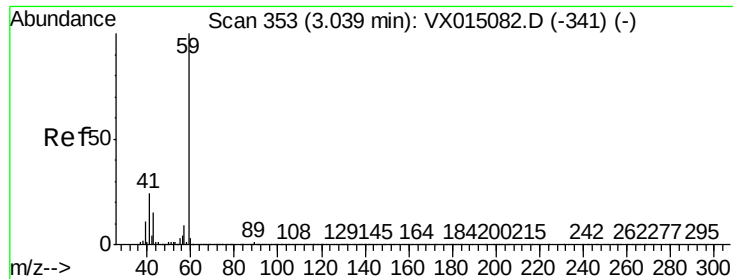
Ion Ratio Lower Upper

142 100

127 52.4 31.7 47.5#

141 26.7 11.3 16.9#



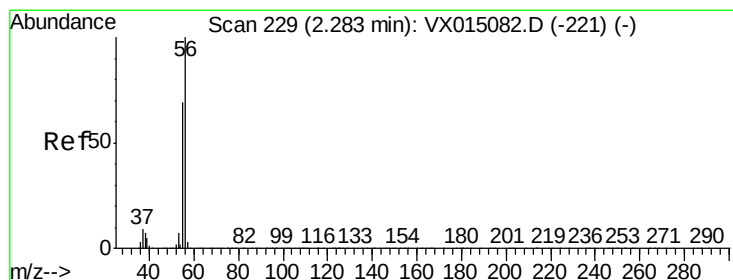
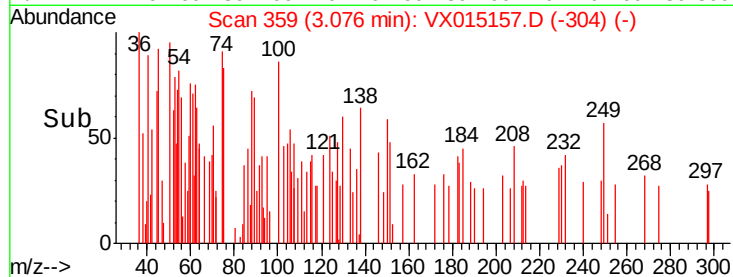
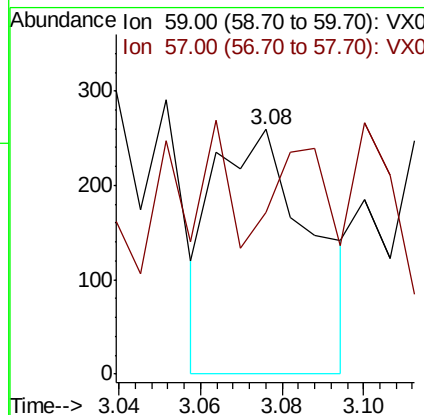
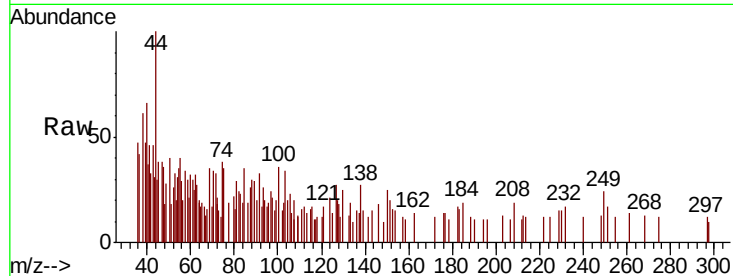


#11

Tert butyl alcohol
Concen: 0.634 ug/l
RT: 3.08 min Scan# 359
Delta R.T. 0.04 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

Instrument :
MSVOA_X
ClientSampled :

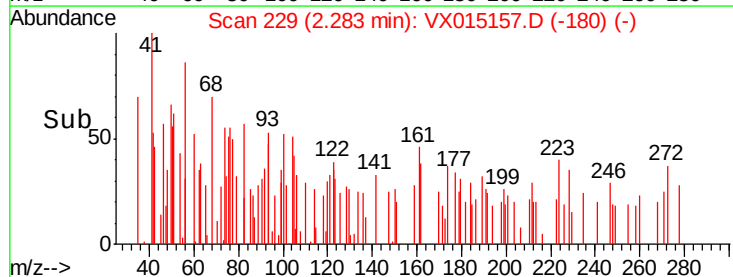
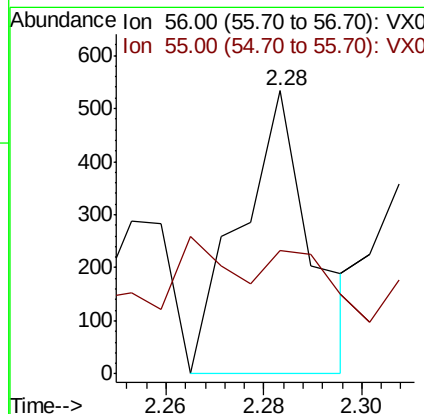
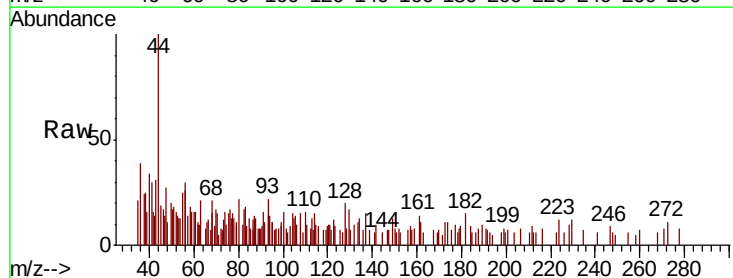
Tot Ion: 59 Resp: 426
Ion Ratio Lower Upper
59 100
57 31.5 8.2 12.4#

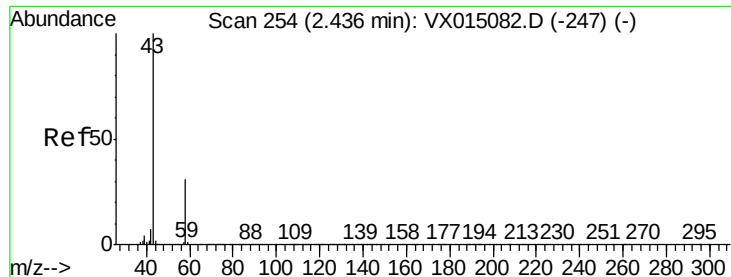


#13

Acrolein
Concen: 0.852 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

Tgt Ion: 56 Resp: 538
Ion Ratio Lower Upper
56 100
55 0.0 55.4 83.0#





#16

Acetone

Concen: 0.650 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

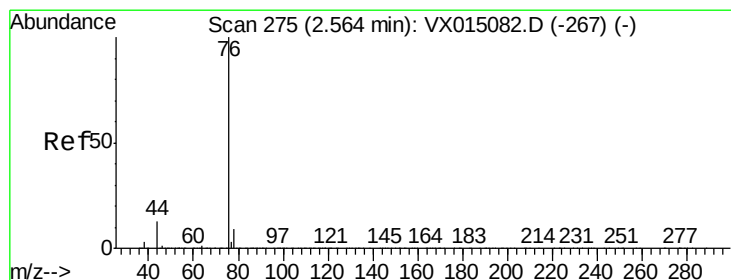
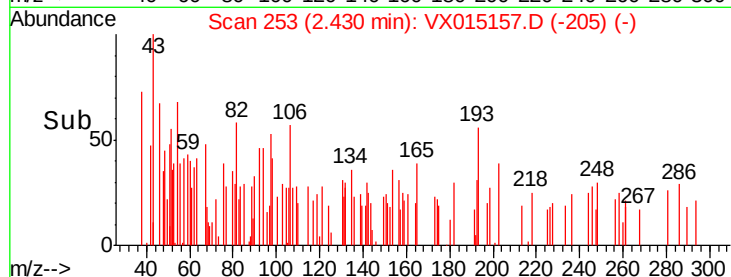
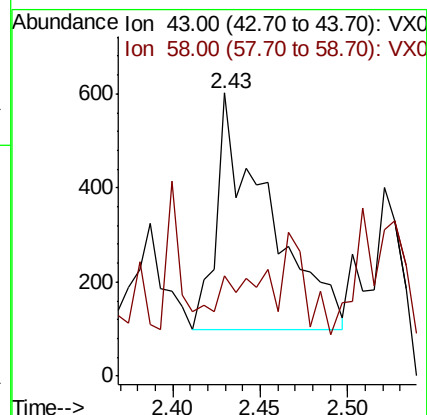
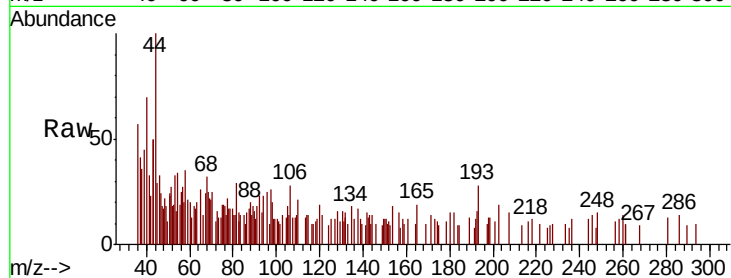
ClientSampled :

Tot Ion: 43 Resp: 1019

Ion Ratio Lower Upper

43 100

58 15.1 24.8 37.2#



#17

Carbon Disulfide

Concen: 0.287 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX015157.D

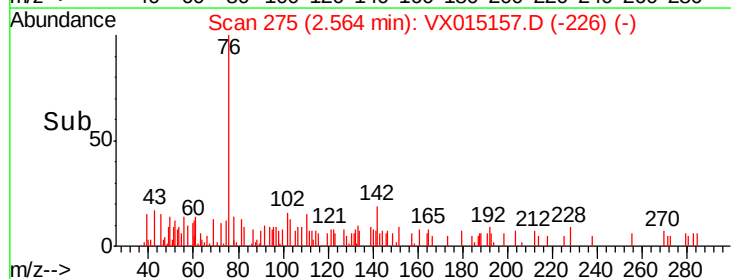
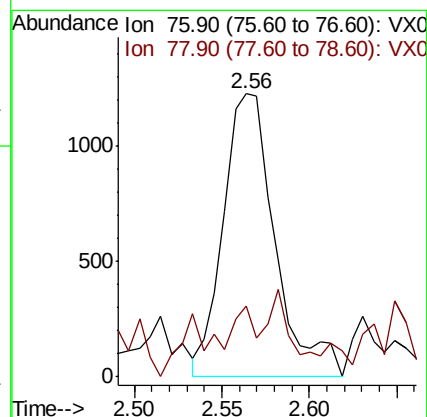
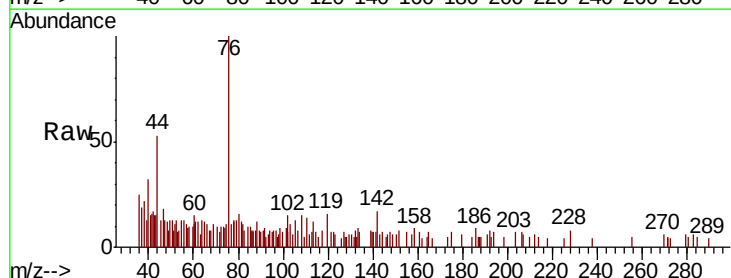
Acq: 10 Mar 2020 09:45

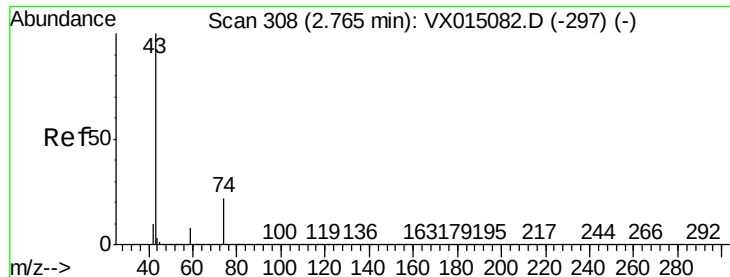
Tgt Ion: 76 Resp: 2530

Ion Ratio Lower Upper

76 100

78 15.8 7.3 10.9#

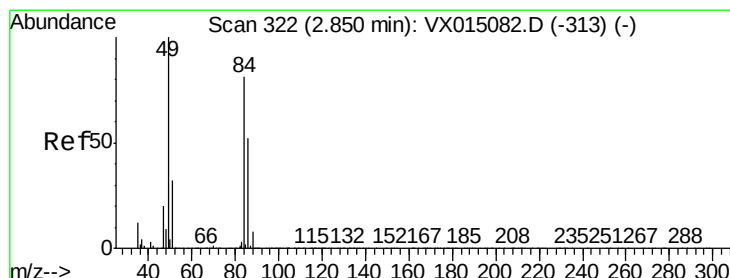
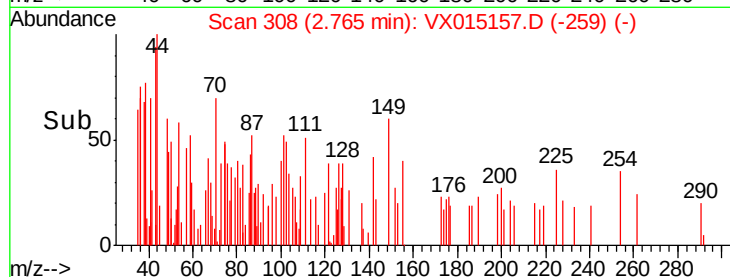
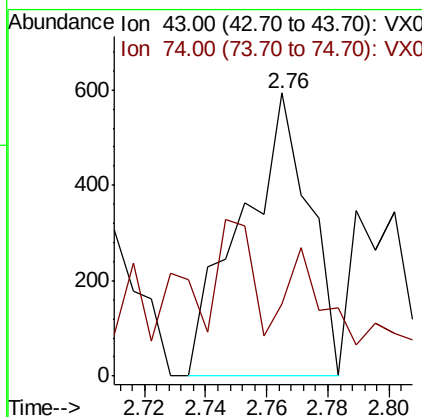
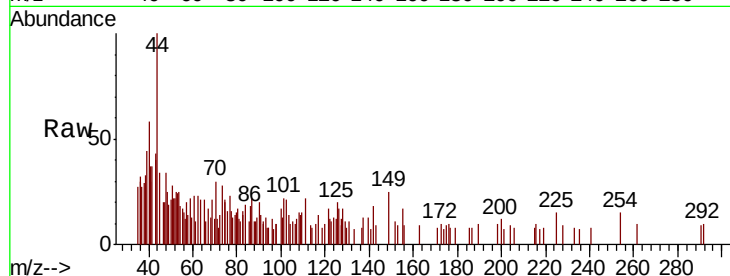




#18
Methyl Acetate
Concen: 0.237 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

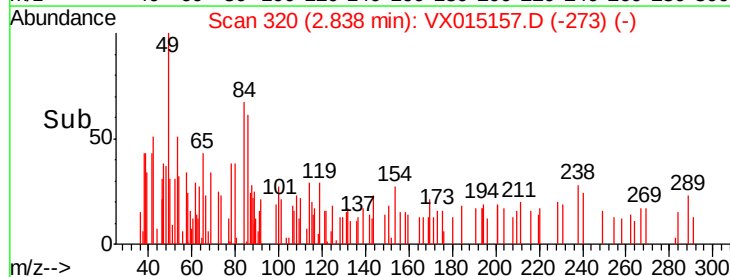
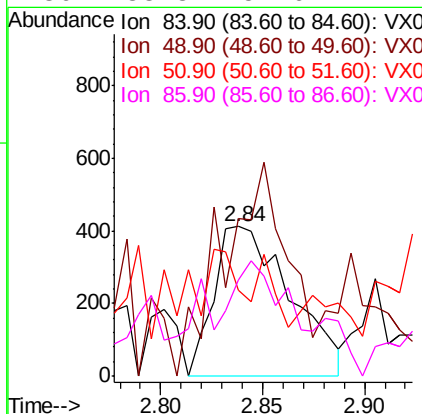
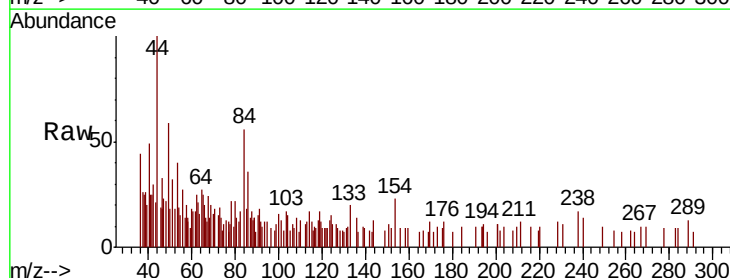
Instrument :
MSVOA_X
ClientSampled :

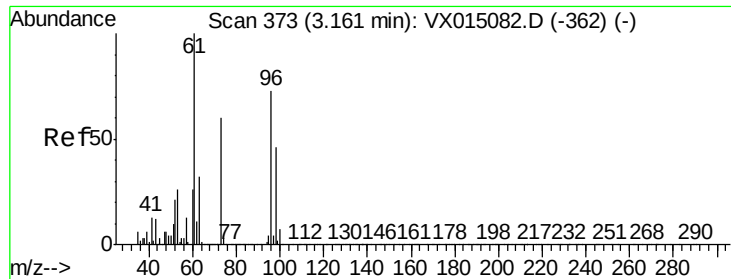
Tot Ion: 43 Resp: 907
Ion Ratio Lower Upper
43 100
74 24.0 18.8 28.2



#20
Methylene Chloride
Concen: 0.292 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

Tgt Ion: 84 Resp: 1072
Ion Ratio Lower Upper
84 100
49 63.6 99.4 149.2#
51 8.5 31.5 47.3#
86 33.3 51.6 77.4#





#21

trans-1,2-Dichloroethene

Concen: 0.213 ug/l

RT: 3.17 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :
MSVOA_X
ClientSampled :

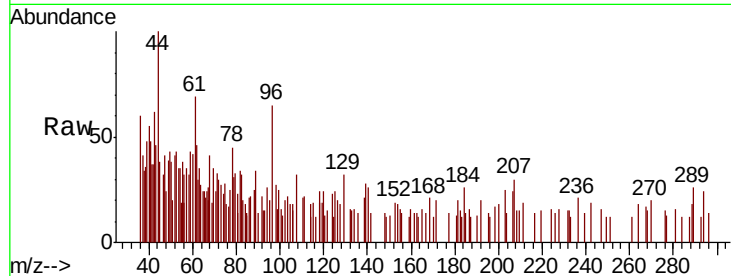
Tot Ion: 96 Resp: 720

Ion Ratio Lower Upper

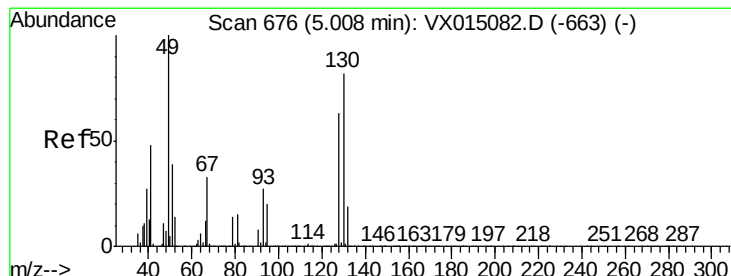
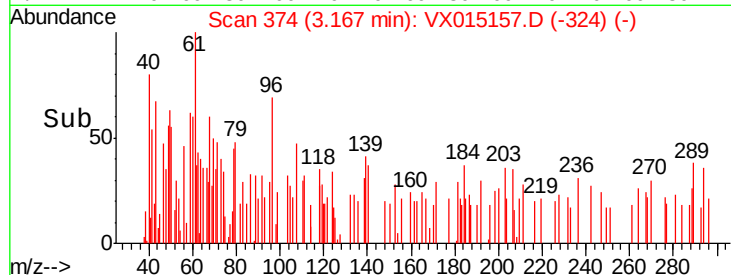
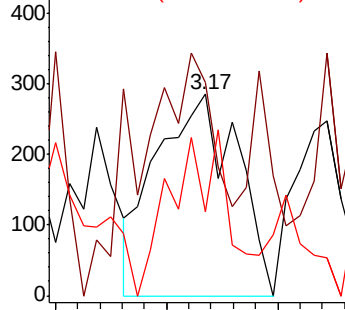
96 100

61 46.0 109.9 164.9#

98 11.2 50.2 75.2#



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



#28

Bromochloromethane

Concen: 0.205 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

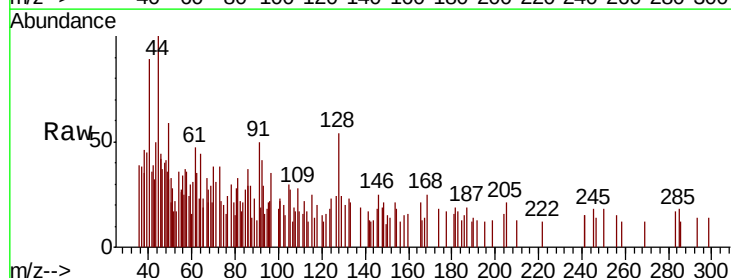
Tgt Ion: 49 Resp: 572

Ion Ratio Lower Upper

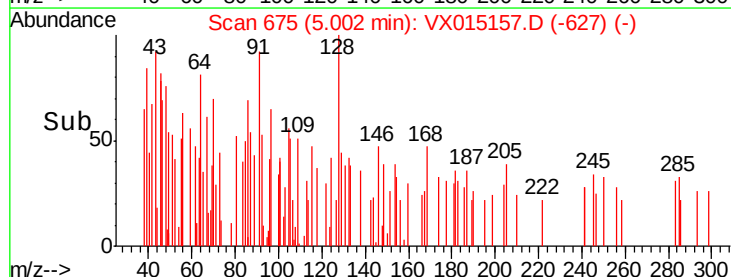
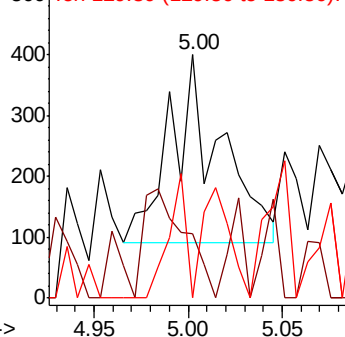
49 100

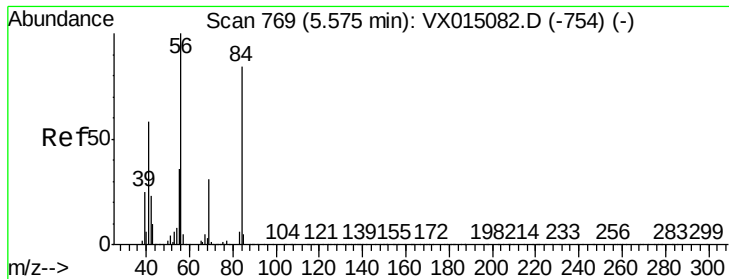
129 47.7 0.0 4.4#

130 22.7 65.0 97.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

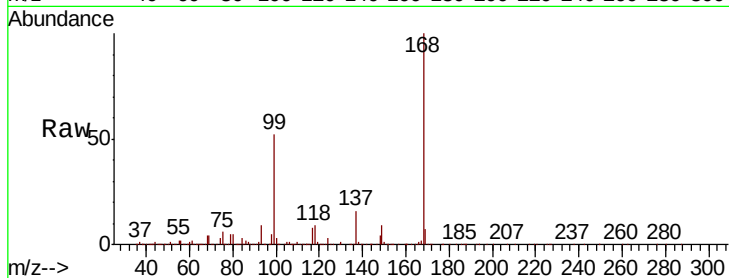




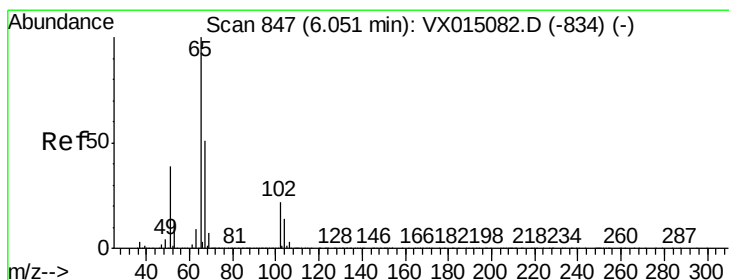
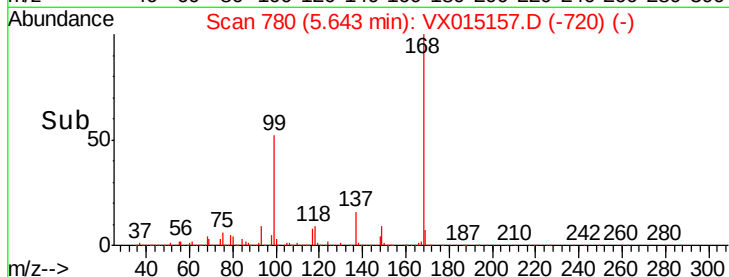
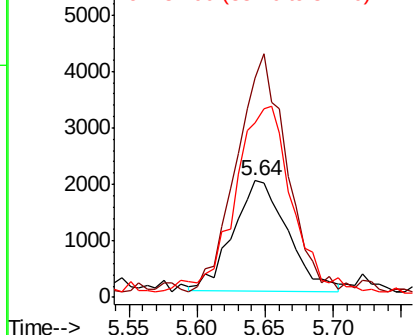
#31
Cyclohexane
Concen: 1.004 ug/l
RT: 5.64 min Scan# 780
Delta R.T. 0.07 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 5475
Ion Ratio Lower Upper
56 100
69 202.8 25.0 37.6#
84 149.8 67.6 101.4#

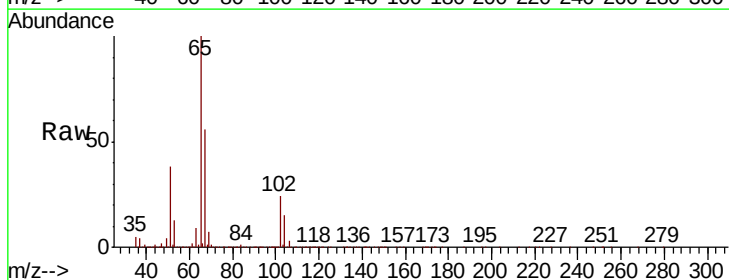


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

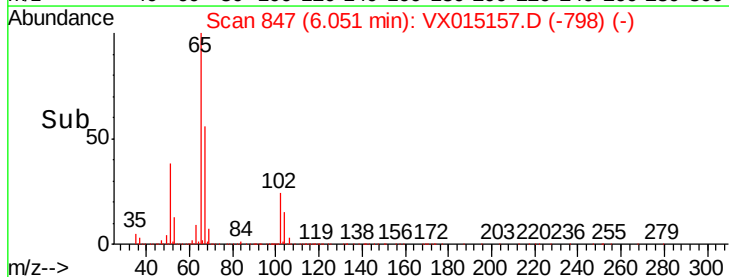
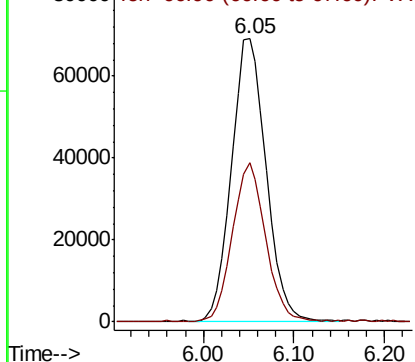


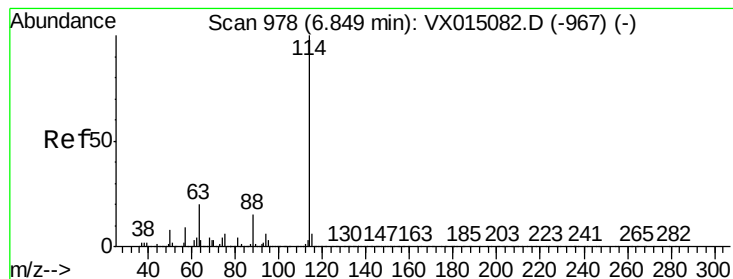
#33
1,2-Dichloroethane-d4
Concen: 47.178 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

Tgt Ion: 65 Resp: 182711
Ion Ratio Lower Upper
65 100
67 53.8 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

ClientSampleId :

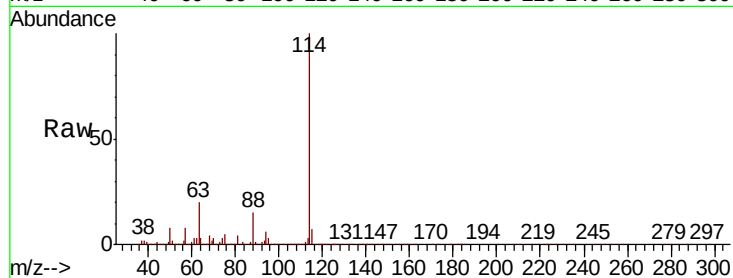
Tot Ion:114 Resp: 519195

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.0

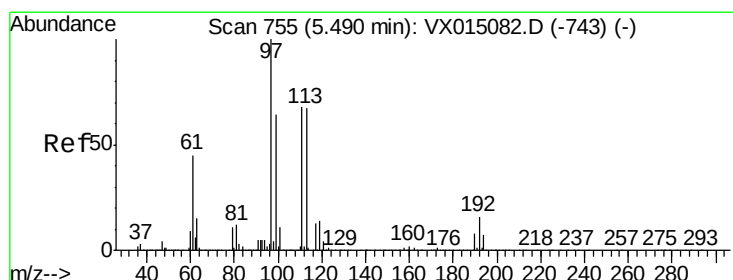
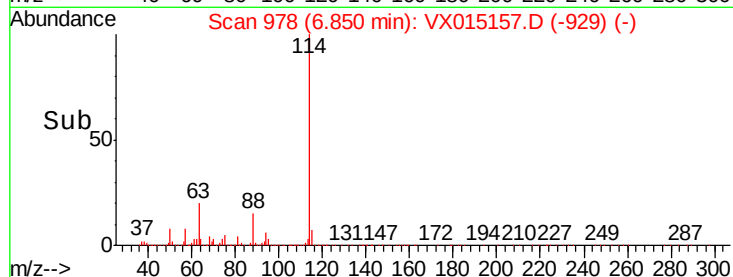
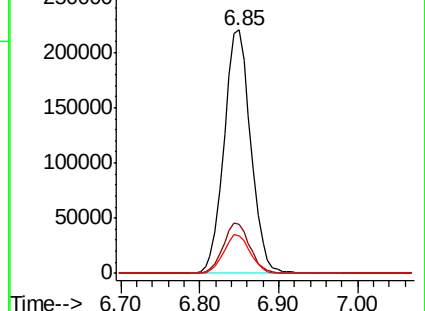
88 15.2 0.0 30.6



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



#35

Dibromofluoromethane

Concen: 48.585 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

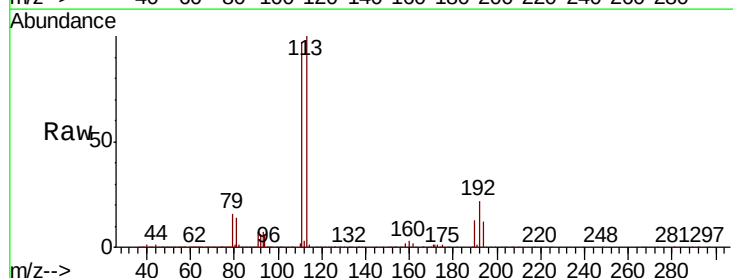
Tgt Ion:113 Resp: 159138

Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

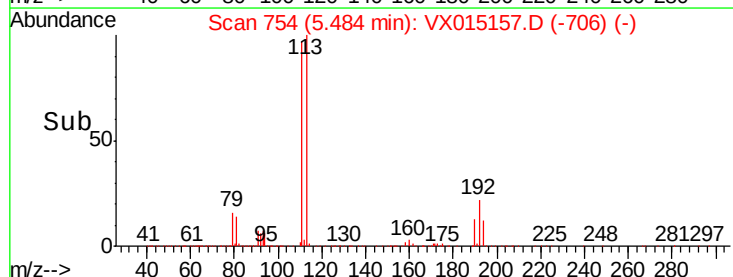
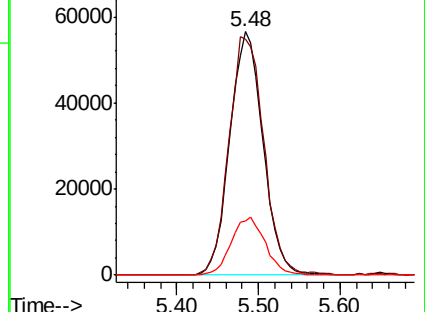
192 24.4 18.6 28.0

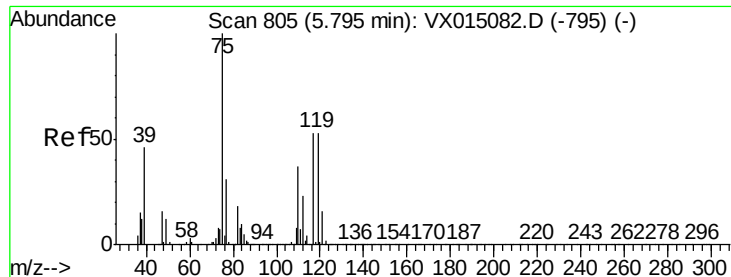


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.739 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

ClientSampleId :

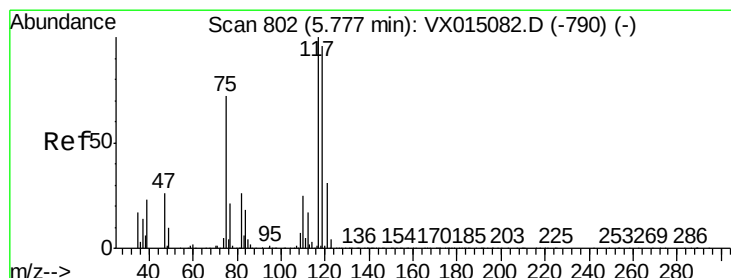
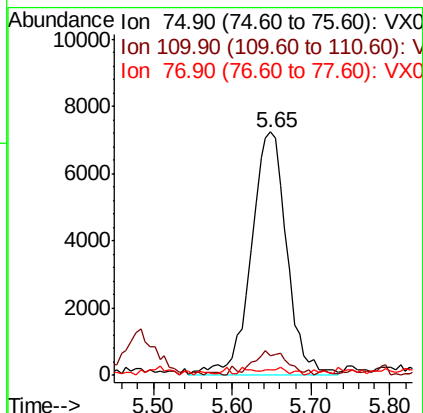
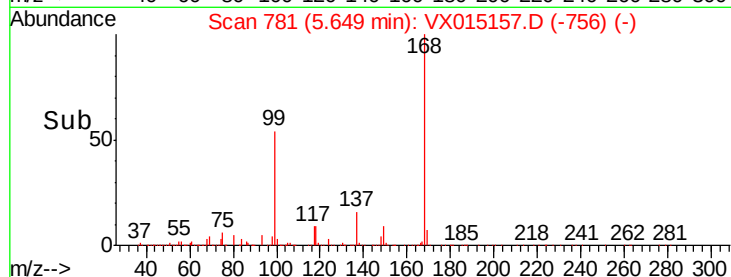
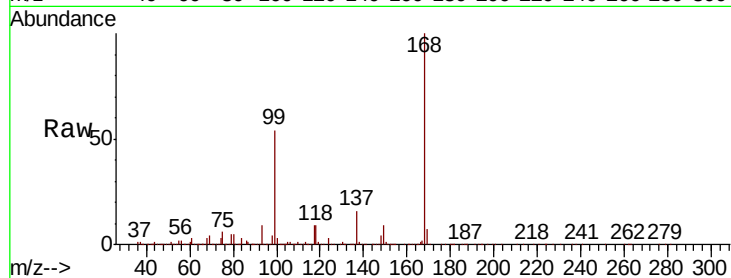
Tot Ion: 75 Resp: 22746

Ion Ratio Lower Upper

75 100

110 9.1 17.9 53.8#

77 1.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.263 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

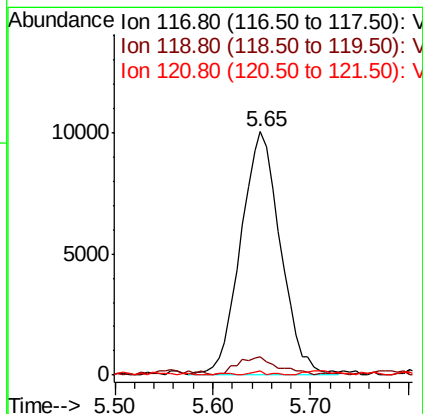
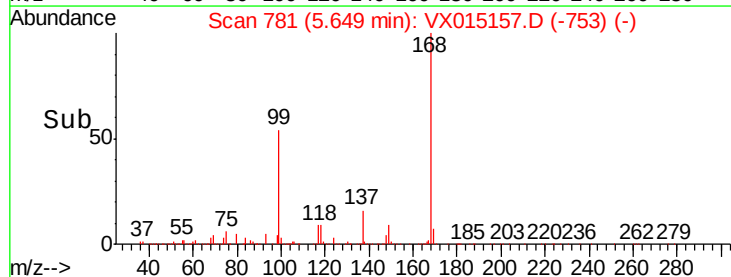
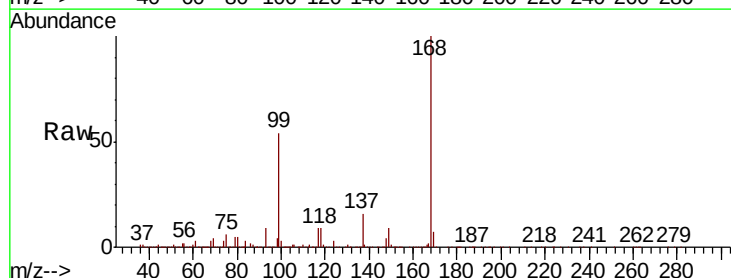
Tgt Ion: 117 Resp: 28377

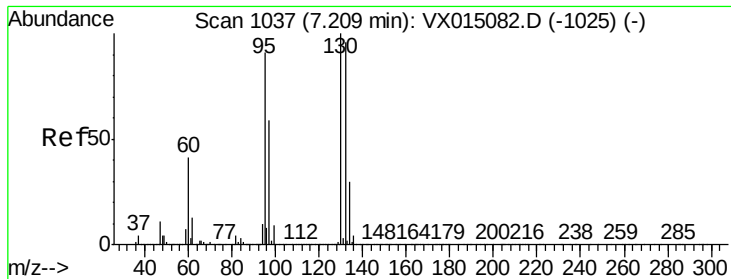
Ion Ratio Lower Upper

117 100

119 6.6 76.9 115.3#

121 0.9 24.6 37.0#





#44

Trichloroethene

Concen: 0.292 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

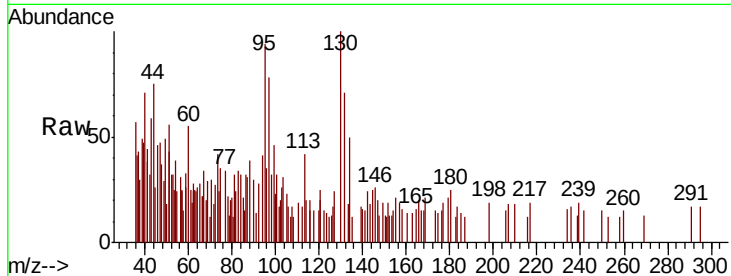
ClientSampled :

Tot Ion:130 Resp: 1159

Ion Ratio Lower Upper

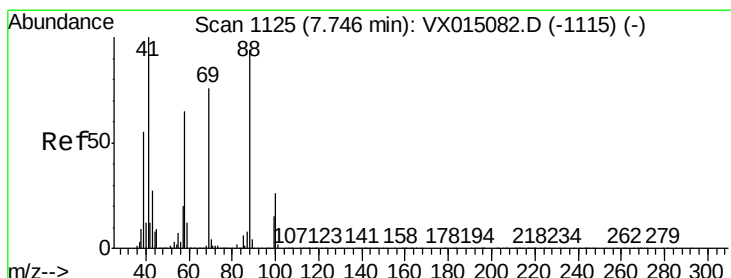
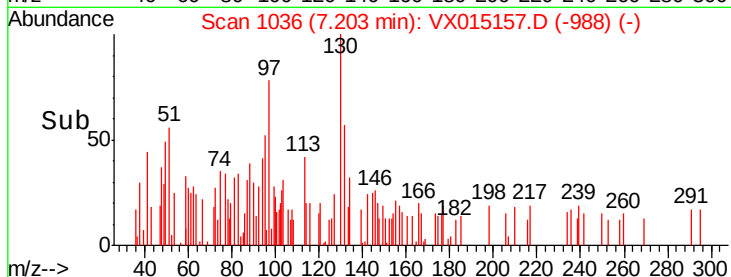
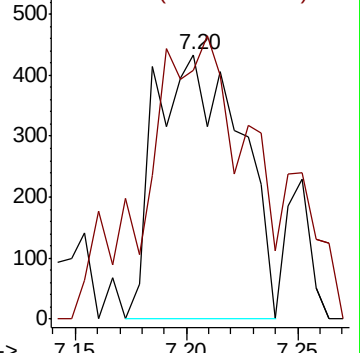
130 100

95 68.2 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 2.750 ug/l

RT: 7.77 min Scan# 1129

Delta R.T. 0.02 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

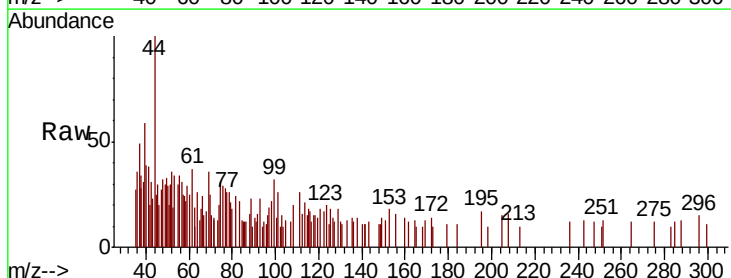
Tgt Ion: 88 Resp: 237

Ion Ratio Lower Upper

88 100

43 70.0 27.0 40.4#

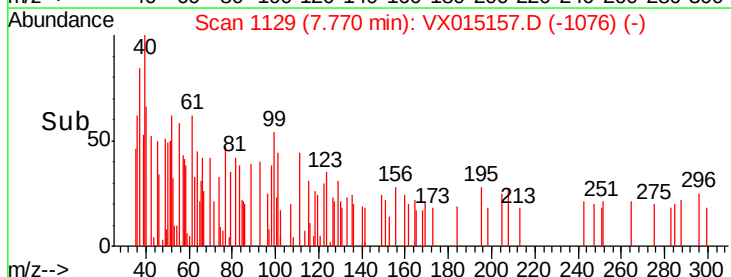
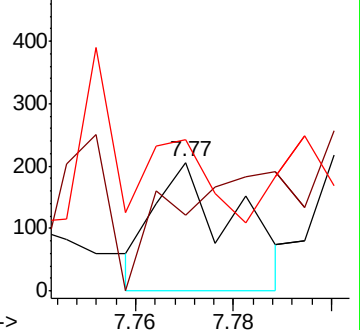
58 101.7 55.6 83.4#

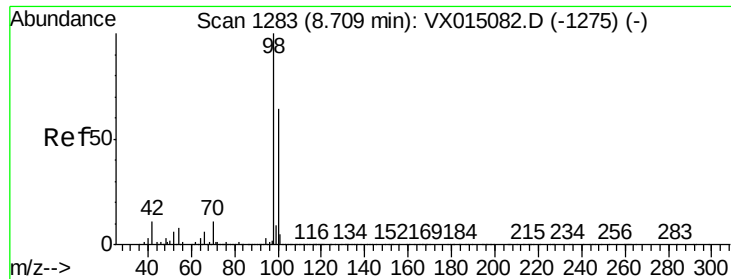


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

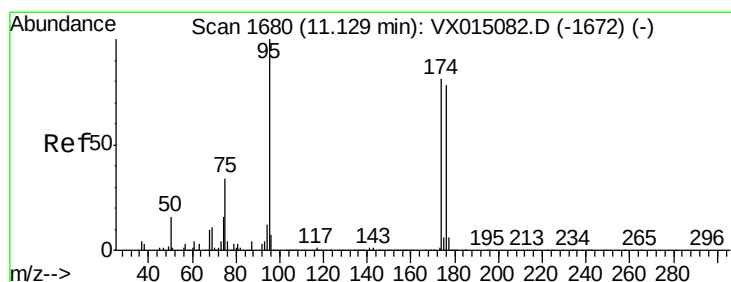
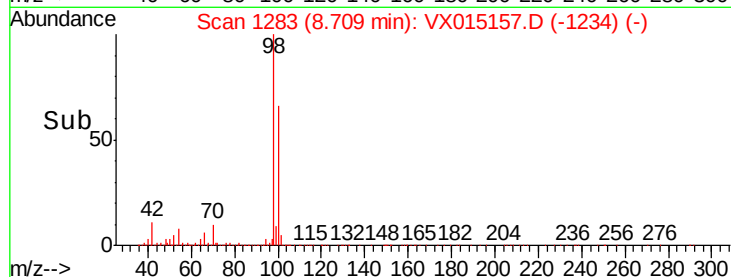
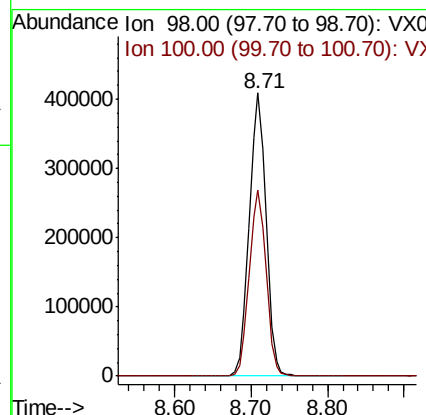
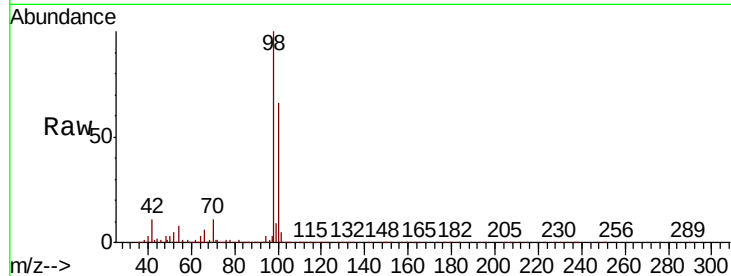




#50
Toluene-d8
Concen: 50.215 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

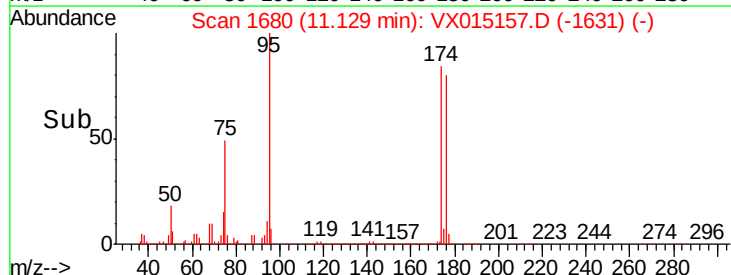
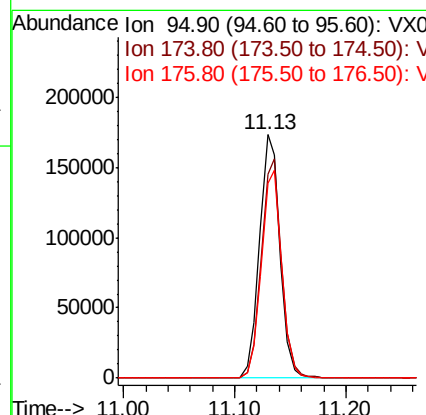
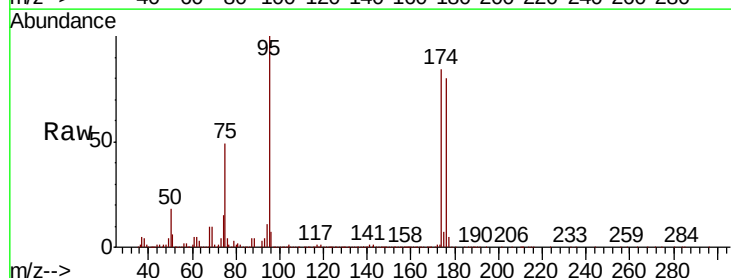
Instrument :
MSVOA_X
ClientSampleId :

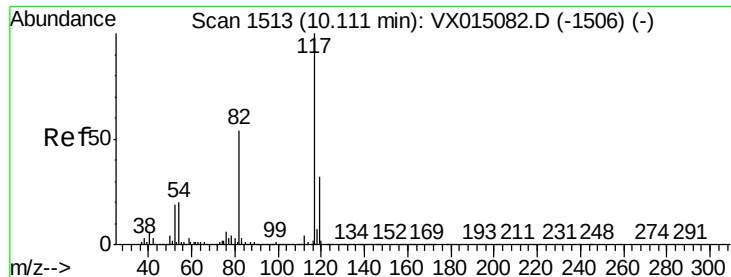
Tot Ion: 98 Resp: 625646
Ion Ratio Lower Upper
98 100
100 65.9 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 49.879 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

Tgt Ion: 95 Resp: 221666
Ion Ratio Lower Upper
95 100
174 90.0 0.0 177.6
176 86.1 0.0 170.2

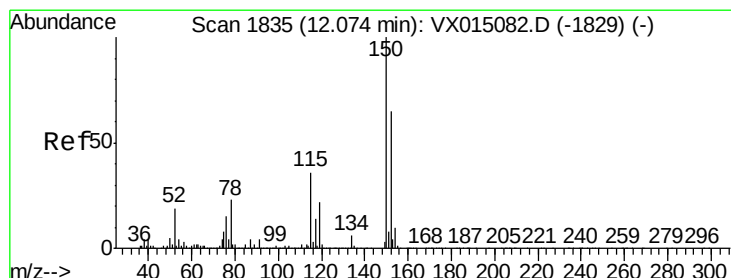
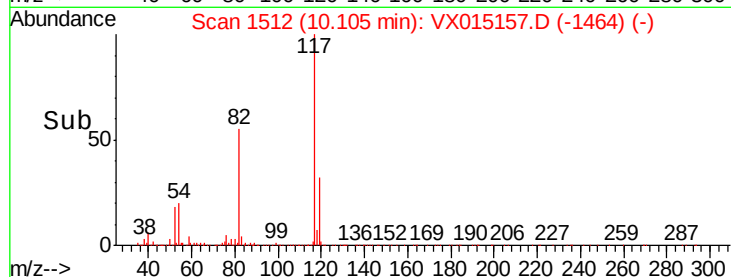
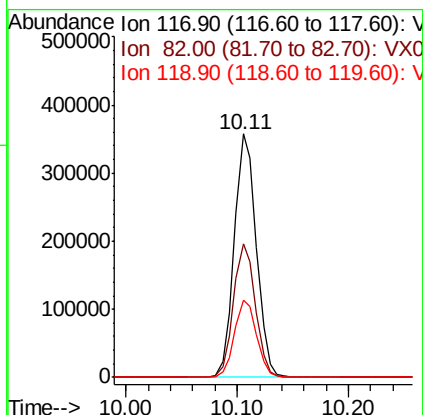
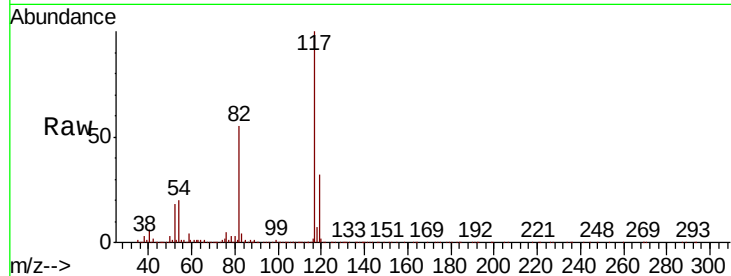




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

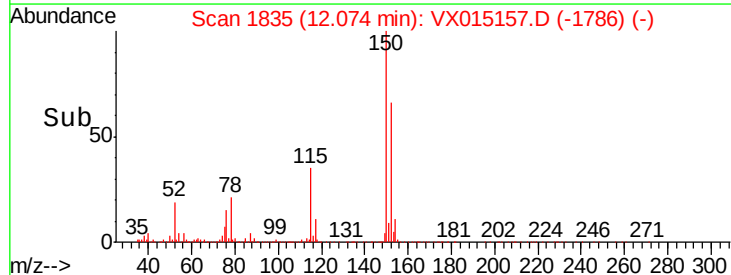
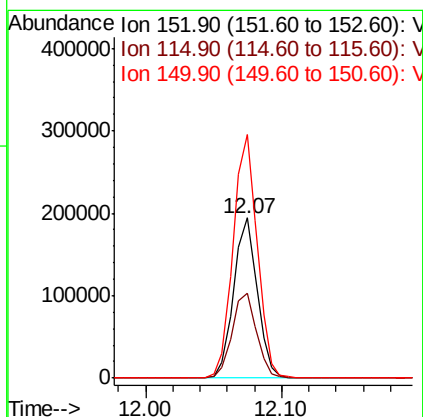
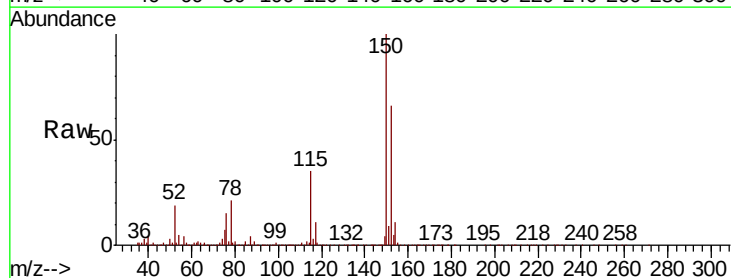
Instrument :
MSVOA_X
ClientSampleId :

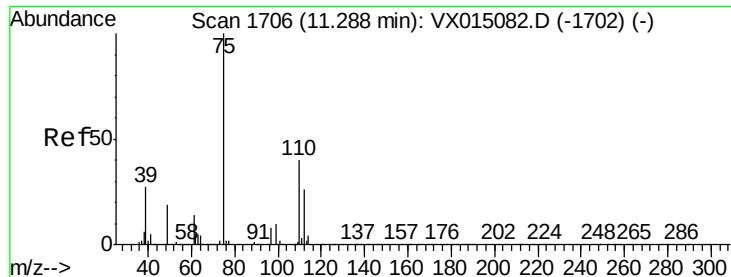
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.0	43.3	64.9
119	31.7	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX015157.D
Acq: 10 Mar 2020 09:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	38.2	114.6
150	154.3	0.0	343.8





#76

1,2,3-Trichloropropane

Concen: 22.516 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

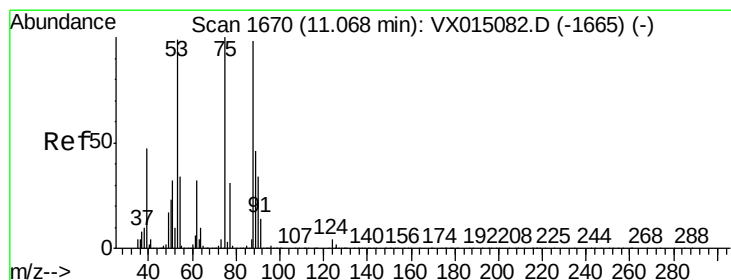
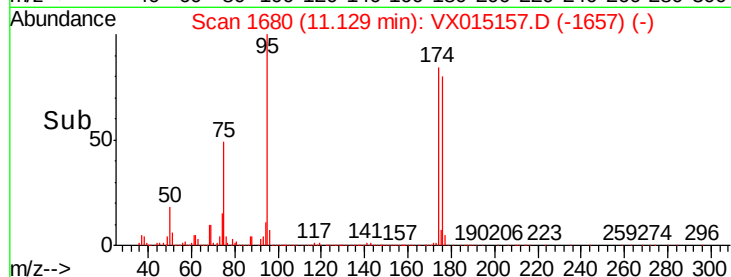
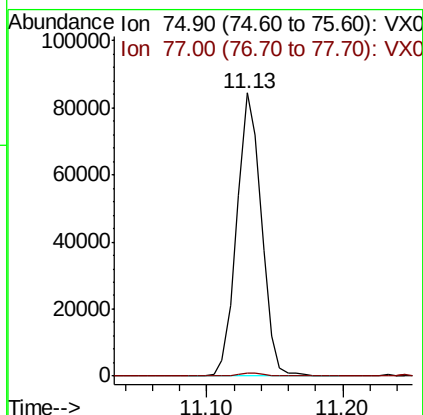
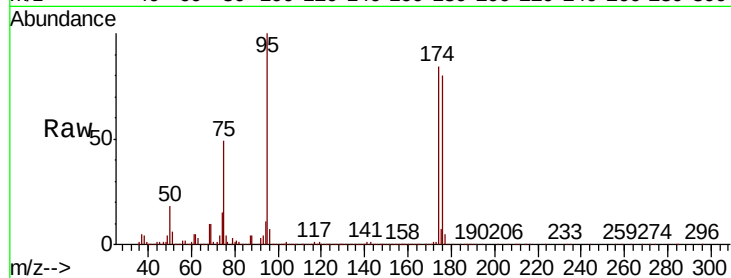
ClientSampleId :

Tot Ion: 75 Resp: 105832

Ion Ratio Lower Upper

75 100

77 1.5 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.900 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

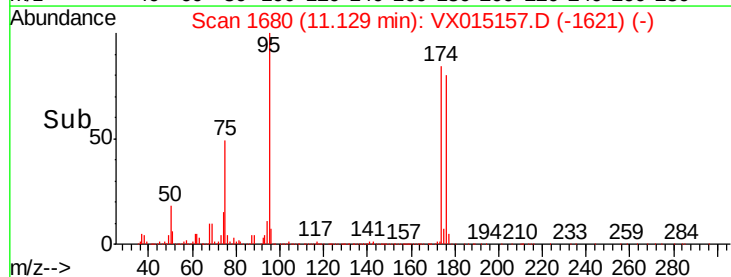
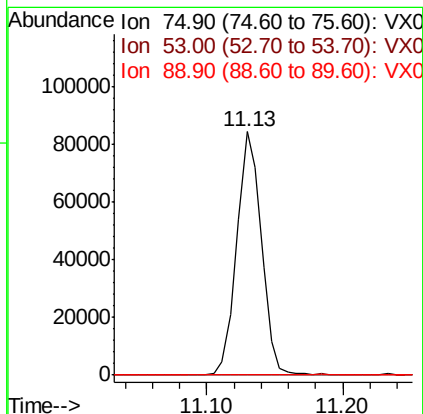
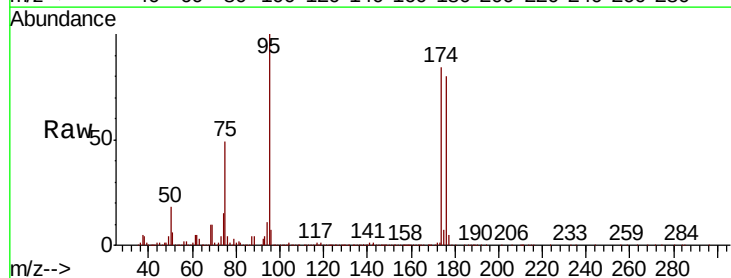
Tgt Ion: 75 Resp: 105832

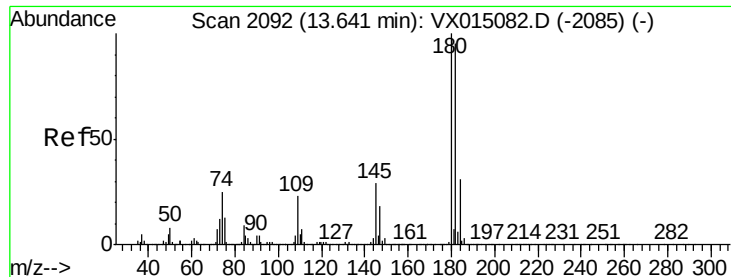
Ion Ratio Lower Upper

75 100

53 0.3 77.9 116.9#

89 0.1 36.2 54.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.308 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

ClientSampleId :

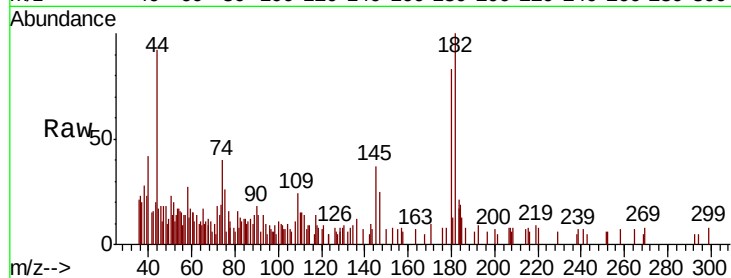
Tot Ion:180 Resp: 1565

Ion Ratio Lower Upper

180 100

182 99.0 47.6 142.8

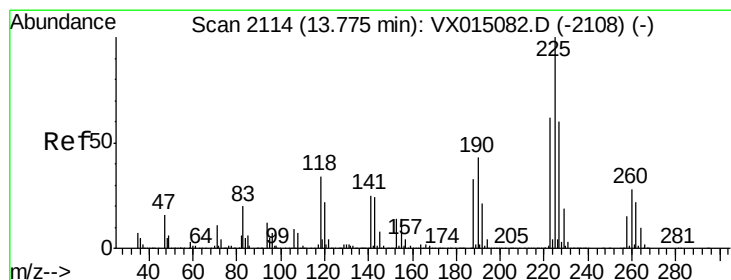
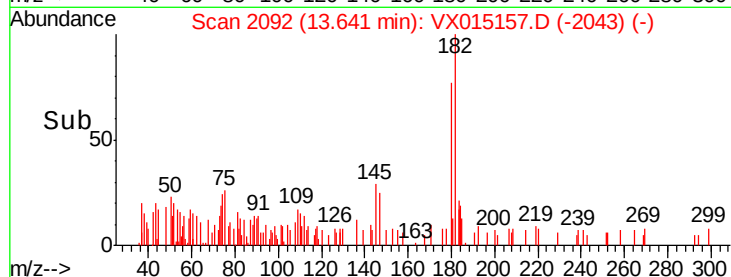
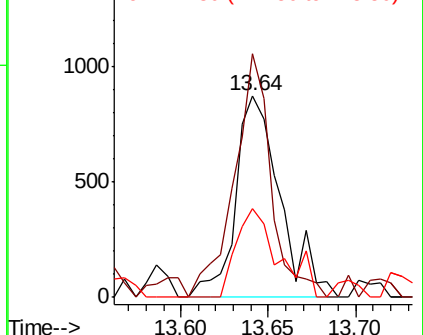
145 41.9 14.1 42.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 0.214 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

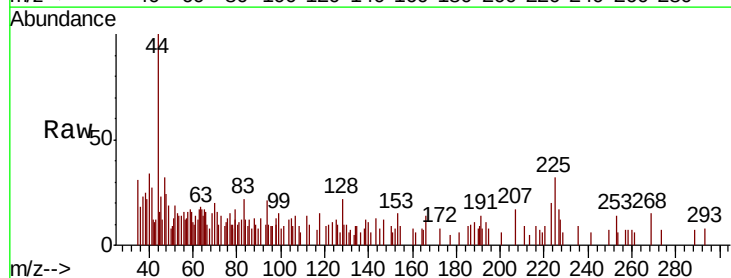
Tgt Ion:225 Resp: 559

Ion Ratio Lower Upper

225 100

223 47.2 31.3 93.9

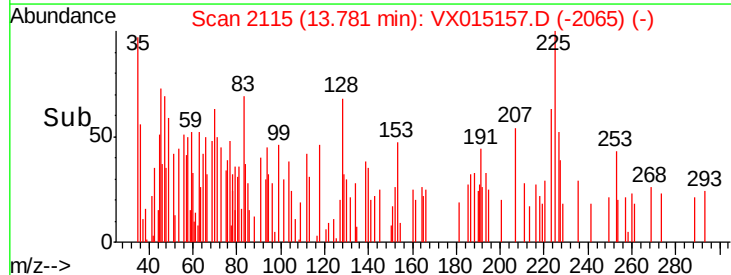
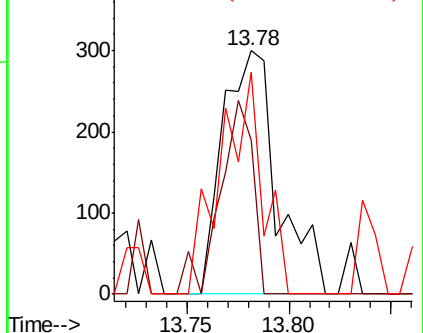
227 70.5 31.1 93.2

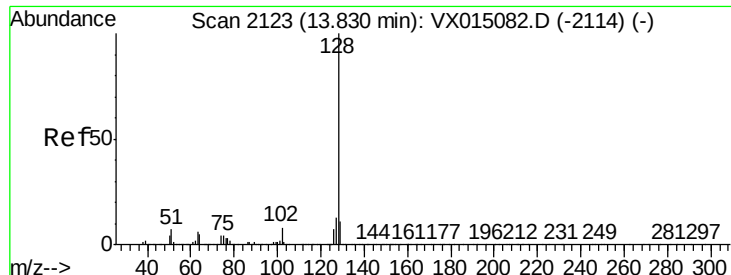


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.646 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

Instrument :

MSVOA_X

ClientSampled :

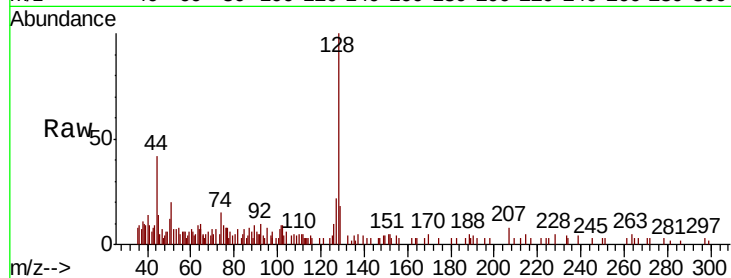
Tot Ion:128 Resp: 3623

Ion Ratio Lower Upper

128 100

127 18.6 10.3 15.5#

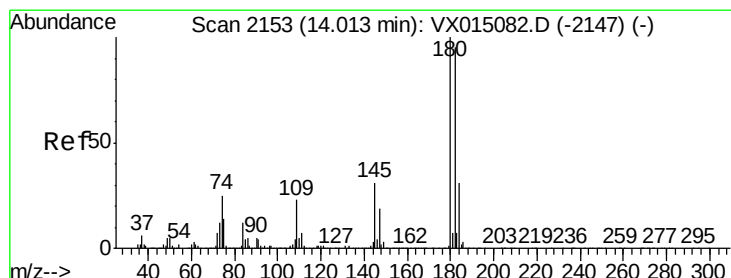
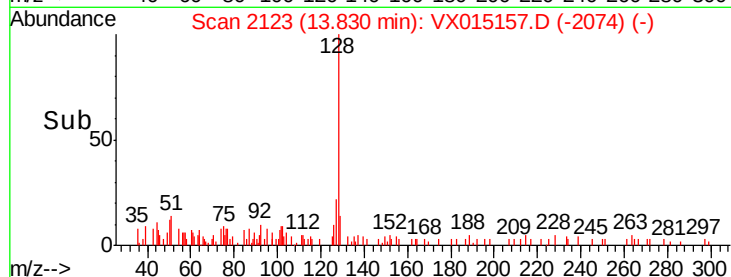
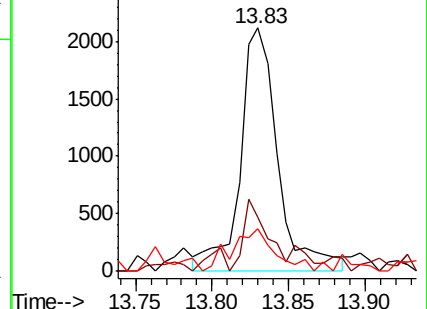
129 20.1 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.323 ug/l

RT: 14.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VX015157.D

Acq: 10 Mar 2020 09:45

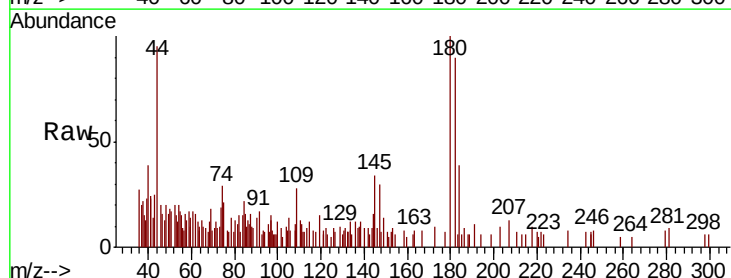
Tgt Ion:180 Resp: 1638

Ion Ratio Lower Upper

180 100

182 93.0 47.8 143.4

145 31.9 15.1 45.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

