

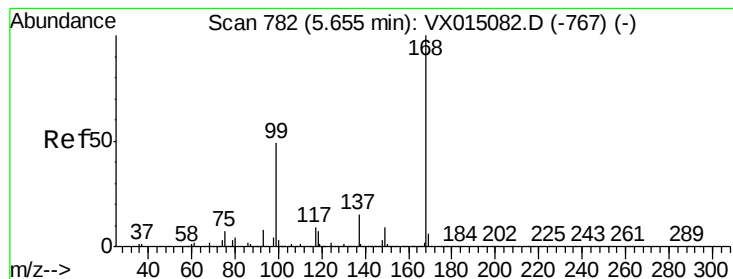
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031020\
 Data File : VX015169.D
 Acq On : 10 Mar 2020 14:34
 Operator : JC/SP
 Sample : L1842-23
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 11 07:29:43 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	317331	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	511298	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	514952	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	265897	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	183091	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
35) Dibromofluoromethane	5.49	113	158158	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
50) Toluene-d8	8.71	98	629902	51.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.68%	
62) 4-Bromofluorobenzene	11.14	95	240120	54.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.74%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	903	0.325	ug/l #	55
7) Trichlorofluoromethane	1.93	101	1558	0.328	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	74567	24.956	ug/l	97
11) Tert butyl alcohol	3.02	59	460	0.704	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	850	0.276	ug/l #	42
13) Acrolein	2.31	56	604	0.984	ug/l #	15
16) Acetone	2.44	43	3370	2.210	ug/l #	76
20) Methylene Chloride	2.85	84	1467	0.411	ug/l #	63
21) trans-1,2-Dichloroethene	3.16	96	1094	0.332	ug/l #	79
24) 1,1-Dichloroethane	3.69	63	2276	0.383	ug/l #	87
25) 2-Butanone	4.68	43	603	0.270	ug/l #	70
27) cis-1,2-Dichloroethene	4.59	96	8018	2.171	ug/l	82
36) 1,1-Dichloropropene	5.65	75	21153	4.475	ug/l #	52
38) Carbon Tetrachloride	5.65	117	27889	6.251	ug/l #	16
42) 1,2-Dichloroethane	6.17	62	1022	0.212	ug/l	86
44) Trichloroethene	7.21	130	484184	123.976	ug/l	99
49) 1,4-Dioxane	7.75	88	2924	34.449	ug/l #	87
55) 1,1,2-Trichloroethane	9.21	97	870	0.247	ug/l #	60
60) Dibromochloromethane	9.33	129	55120	14.868	ug/l #	11
64) Tetrachloroethene	9.33	164	63874	15.002	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	120686	22.754	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	120686	64.577	ug/l #	11
95) Naphthalene	13.83	128	734	1.460	ug/l #	81

(#) = 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: VX015169.D

Acq: 10 Mar 2020 14:34

Instrument :

MSVOA_X

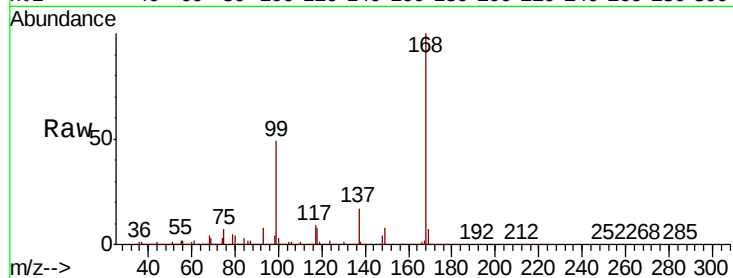
ClientSampleId :

Tot Ion:168 Resp: 317331

Ion Ratio Lower Upper

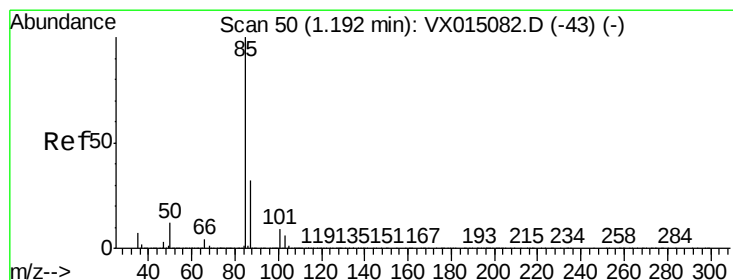
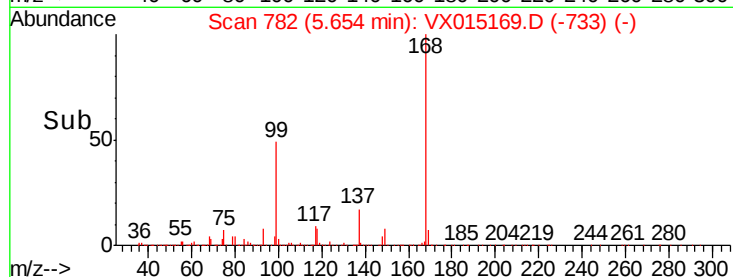
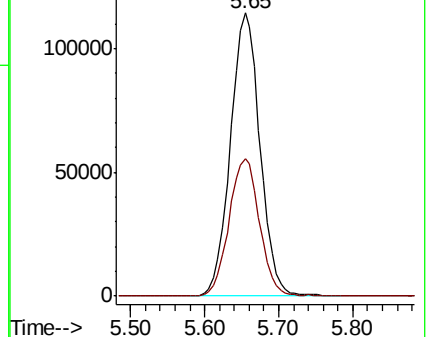
168 100

99 48.5 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: 0.325 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015169.D

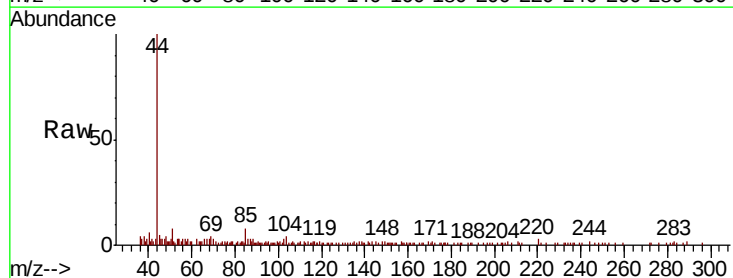
Acq: 10 Mar 2020 14:34

Tgt Ion: 85 Resp: 903

Ion Ratio Lower Upper

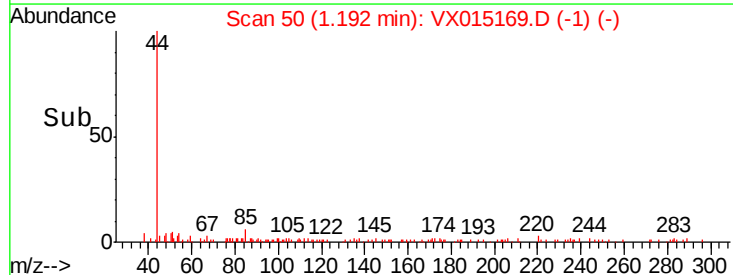
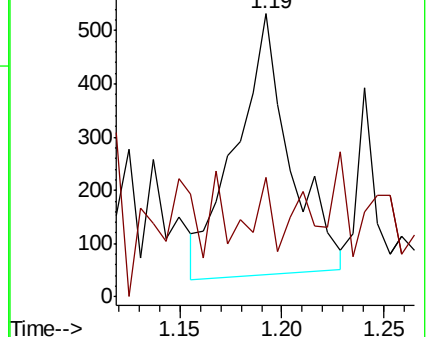
85 100

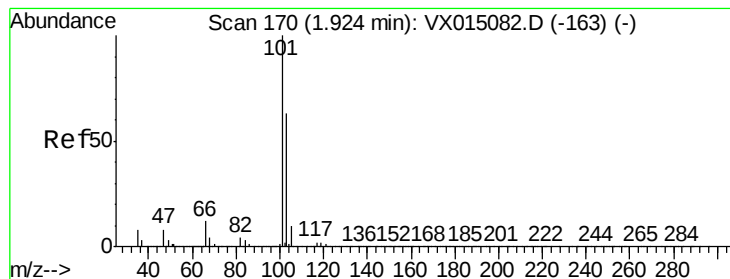
87 7.3 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0



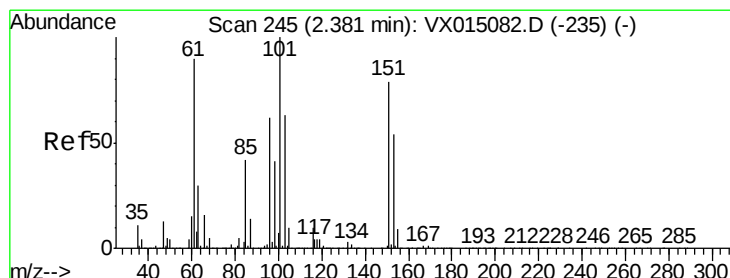
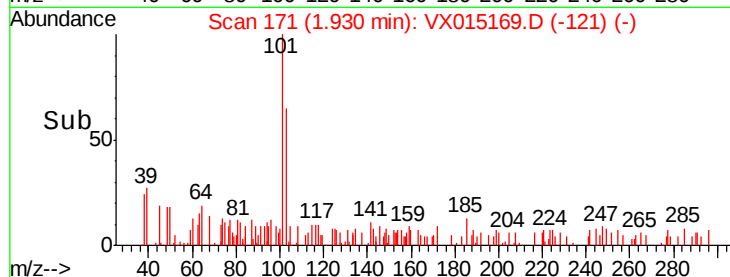
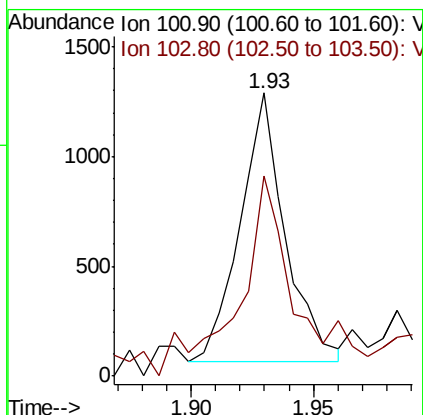
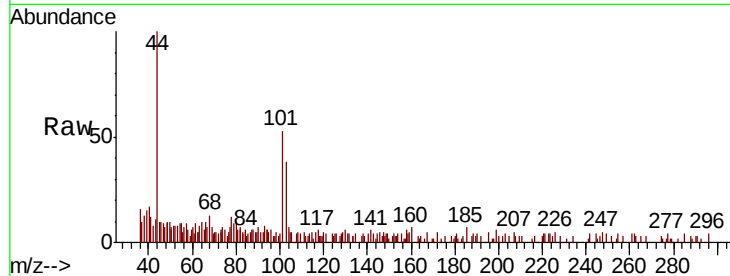


#7

Trichlorofluoromethane
 Concen: 0.328 ug/l
 RT: 1.93 min Scan# 171
 Delta R.T. 0.01 min
 Lab File: VX015169.D
 Acq: 10 Mar 2020 14:34

Instrument :
 MSVOA_X
 ClientSampled :

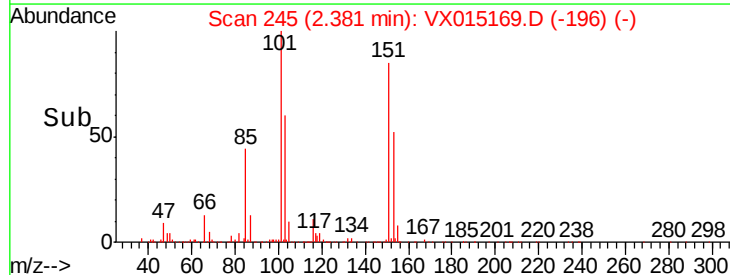
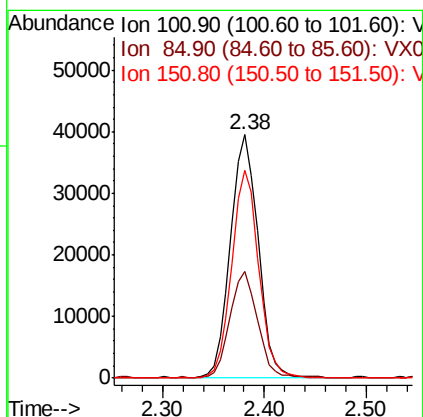
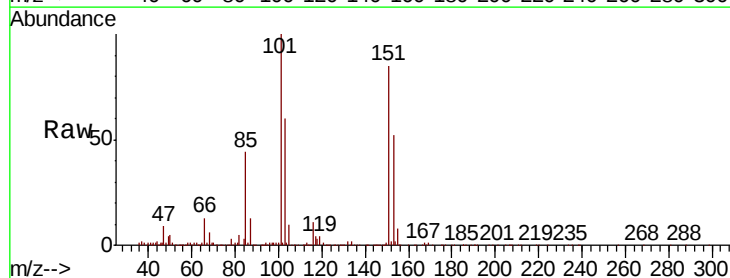
Tot Ion:101 Resp: 1558
 Ion Ratio Lower Upper
 101 100
 103 65.6 50.4 75.6

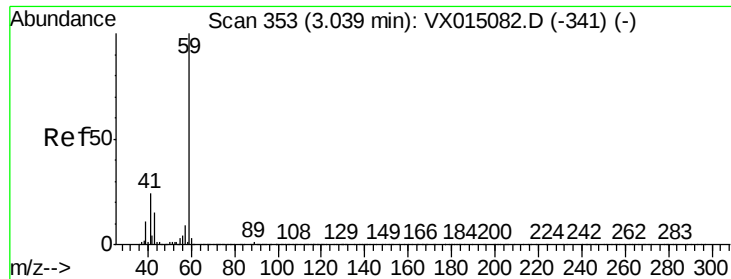


#9

1,1,2-Trichlorotrifluoroethane
 Concen: 24.956 ug/l
 RT: 2.38 min Scan# 245
 Delta R.T. -0.00 min
 Lab File: VX015169.D
 Acq: 10 Mar 2020 14:34

Tgt Ion:101 Resp: 74567
 Ion Ratio Lower Upper
 101 100
 85 43.7 33.7 50.5
 151 82.7 64.0 96.0





#11

Tert butyl alcohol

Concen: 0.704 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

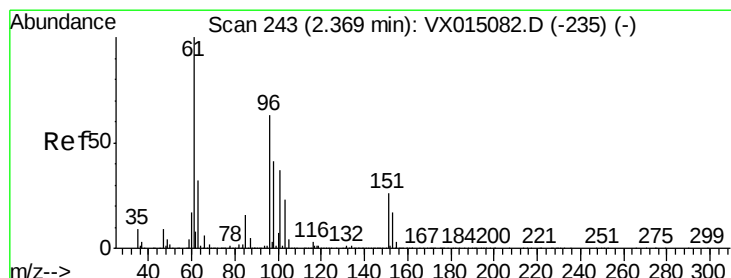
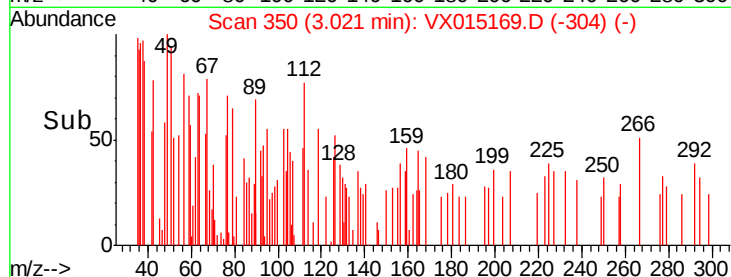
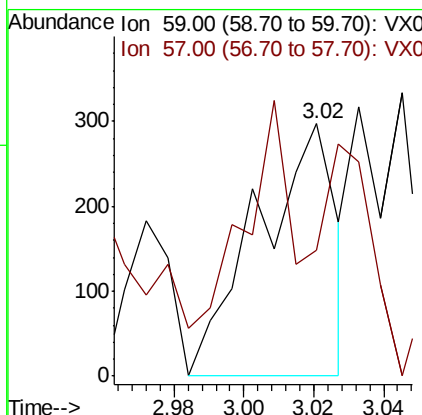
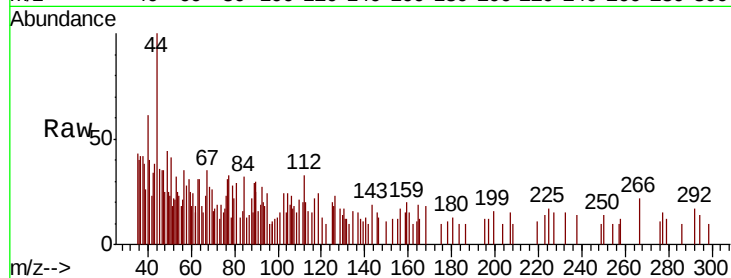
Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 59 Resp: 460

Ion	Ratio	Lower	Upper
59	100		
57	50.4	8.2	12.4#



#12

1,1-Dichloroethene

Concen: 0.276 ug/l

RT: 2.37 min Scan# 243

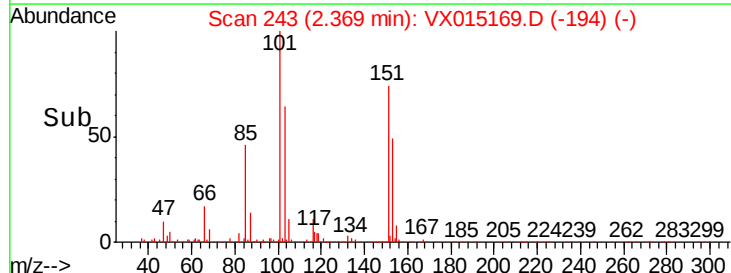
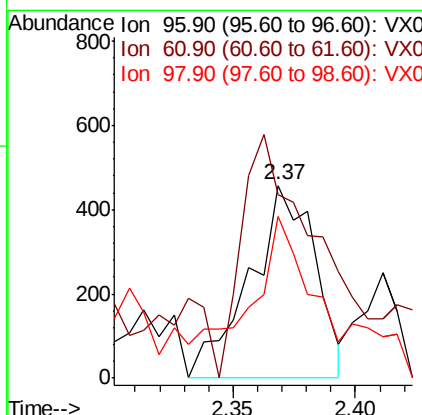
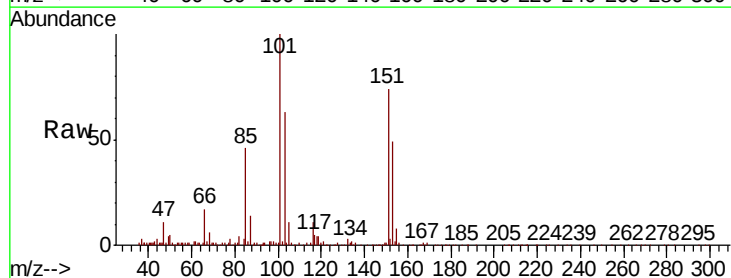
Delta R.T. -0.00 min

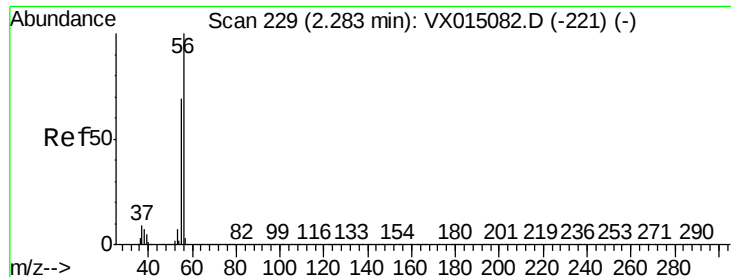
Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

Tgt Ion: 96 Resp: 850

Ion	Ratio	Lower	Upper
96	100		
61	53.5	126.2	189.4#
98	66.6	51.4	77.0

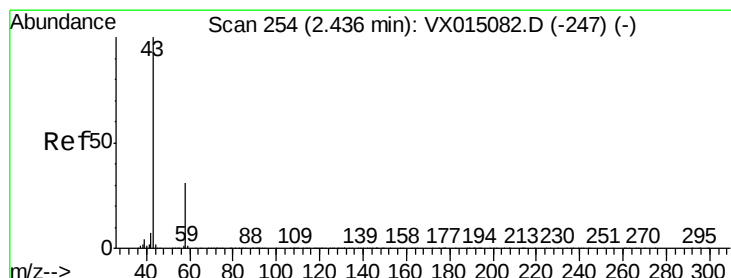
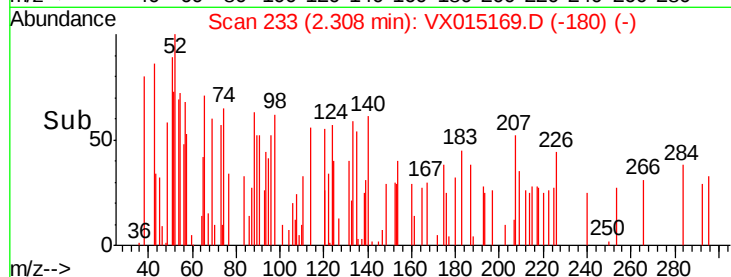
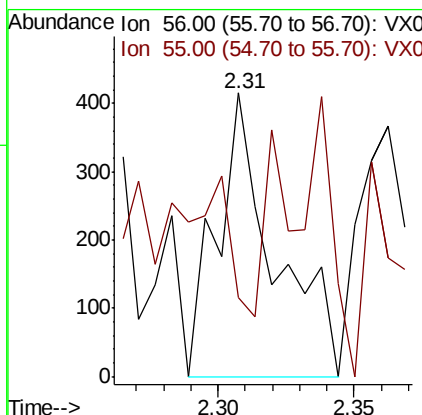
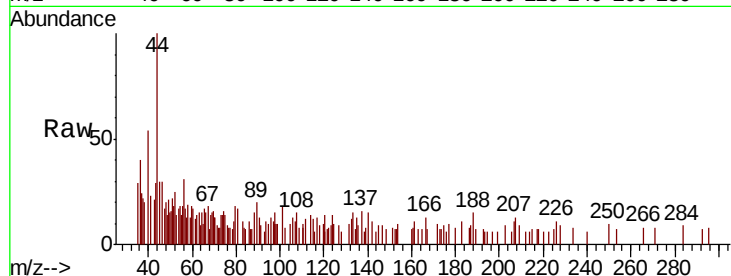




#13
Acrolein
Concen: 0.984 ug/l
RT: 2.31 min Scan# 233
Delta R.T. 0.02 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

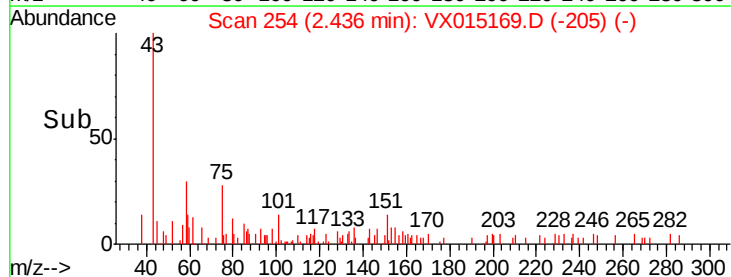
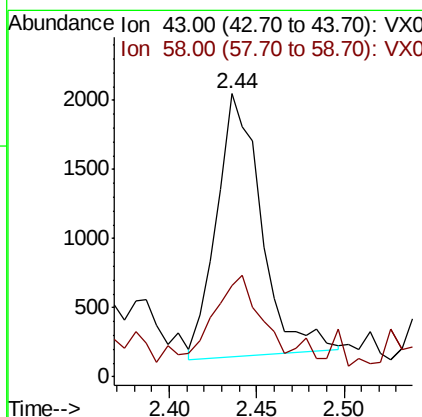
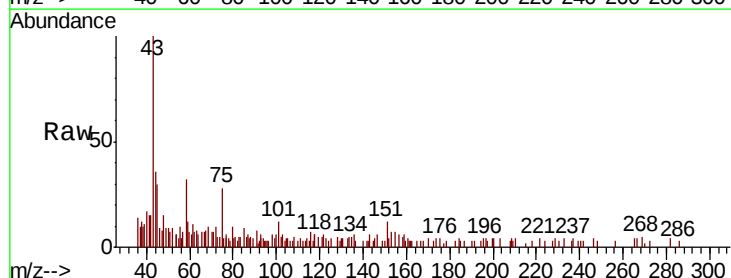
Instrument :
MSVOA_X
ClientSampled :

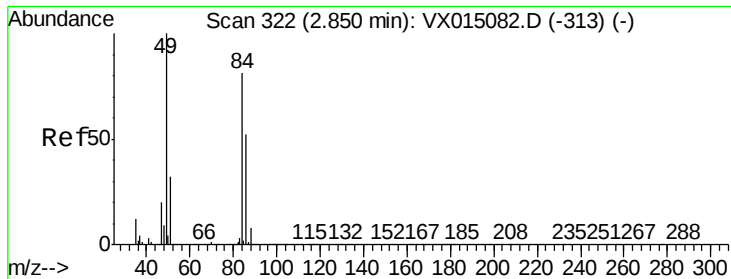
Tot Ion: 56 Resp: 604
Ion Ratio Lower Upper
56 100
55 0.0 55.4 83.0#



#16
Acetone
Concen: 2.210 ug/l
RT: 2.44 min Scan# 254
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

Tgt Ion: 43 Resp: 3370
Ion Ratio Lower Upper
43 100
58 17.9 24.8 37.2#

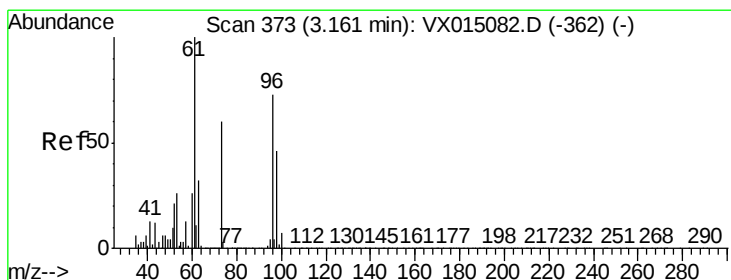
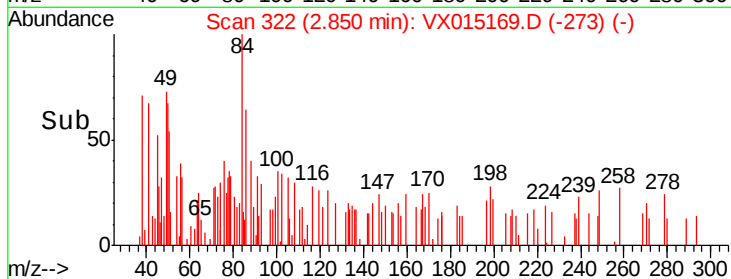
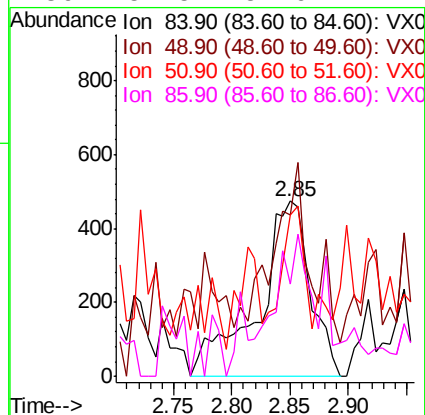
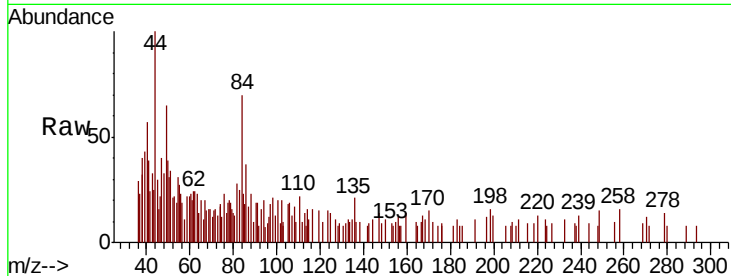




#20
Methvlene Chloride
Concen: 0.411 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

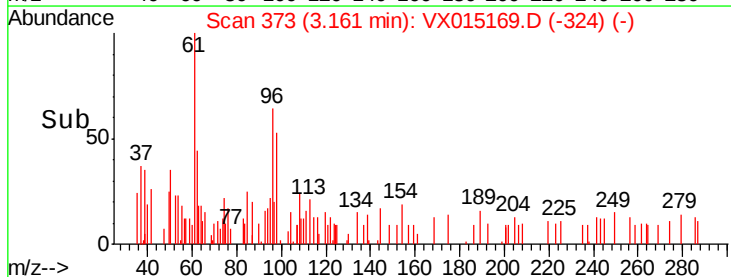
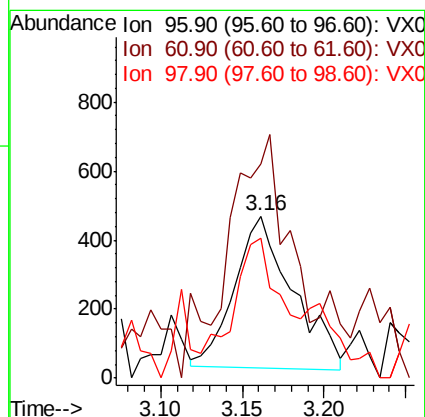
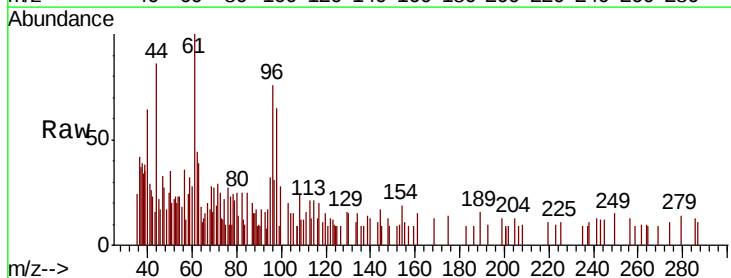
Instrument :
MSVOA_X
ClientSampled :

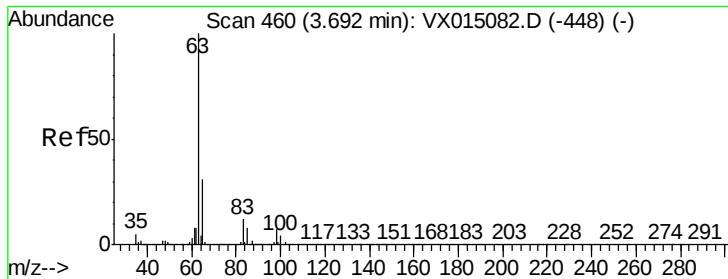
Tot Ion:	84	Resp:	1467
Ion	Ratio	Lower	Upper
84	100		
49	72.8	99.4	149.2#
51	66.0	31.5	47.3#
86	52.5	51.6	77.4



#21
trans-1,2-Dichloroethene
Concen: 0.332 ug/l
RT: 3.16 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

Tgt Ion:	96	Resp:	1094
Ion	Ratio	Lower	Upper
96	100		
61	111.3	109.9	164.9
98	76.9	50.2	75.2#





#24

1,1-Dichloroethane

Concen: 0.383 ug/l

RT: 3.69 min Scan# 460

Delta R.T. -0.00 min

Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

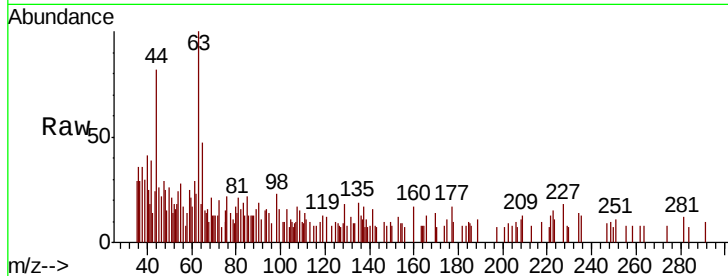
Tot Ion: 63 Resp: 2276

Ion Ratio Lower Upper

63 100

98 11.9 3.7 11.1#

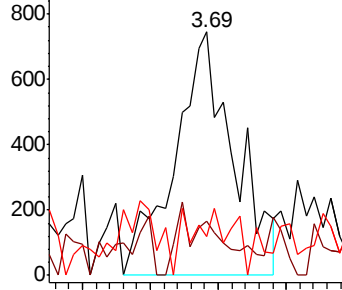
100 8.8 2.1 6.5#



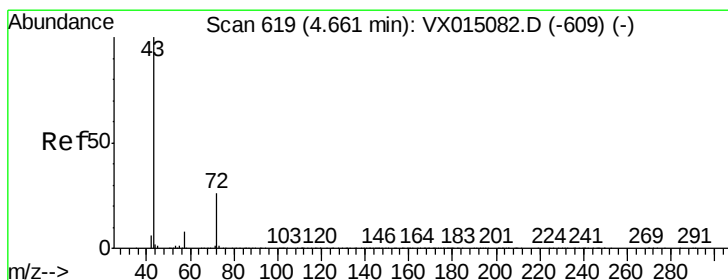
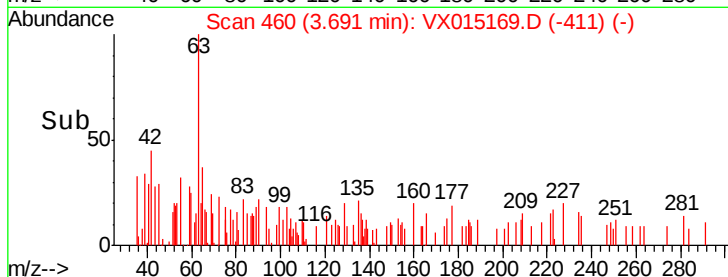
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



Time-->



#25

2-Butanone

Concen: 0.270 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX015169.D

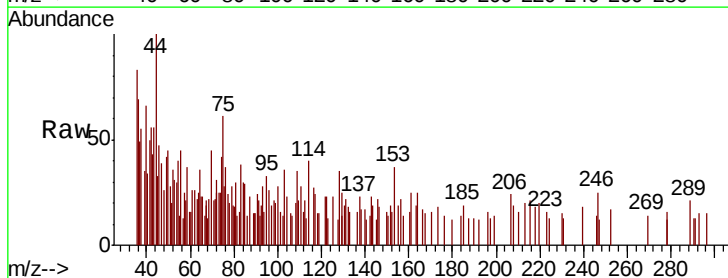
Acq: 10 Mar 2020 14:34

Tgt Ion: 43 Resp: 603

Ion Ratio Lower Upper

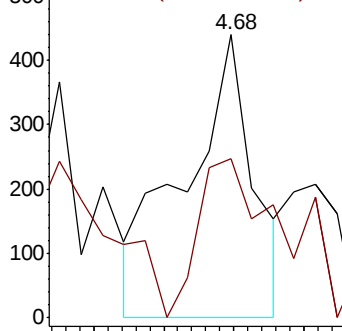
43 100

72 41.1 20.6 30.8#

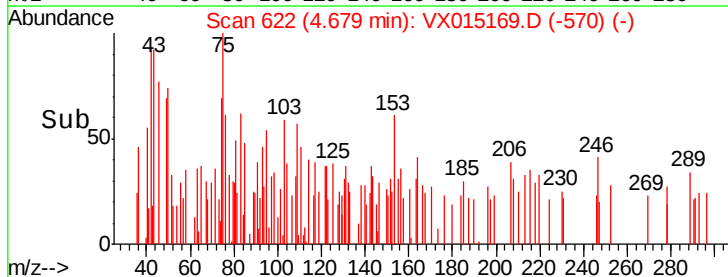


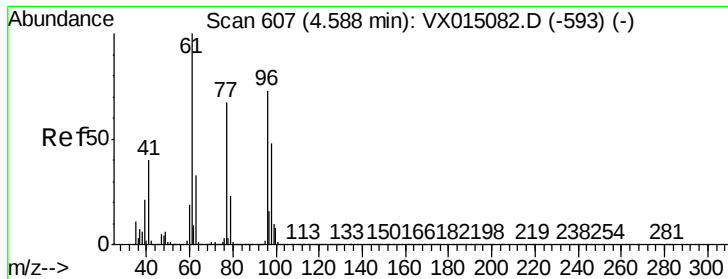
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



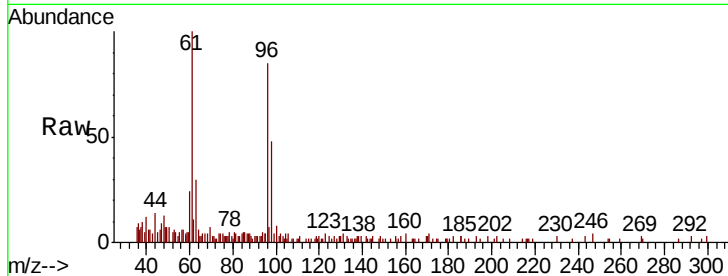


#27

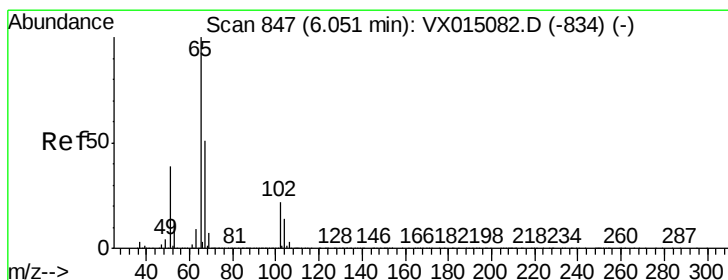
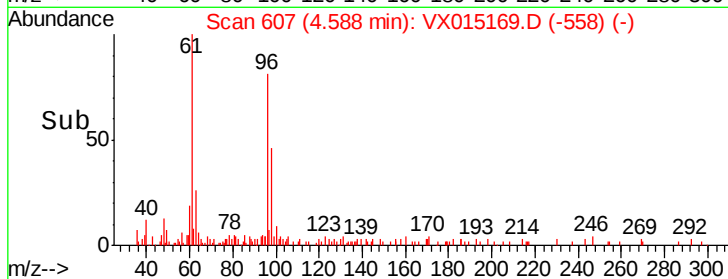
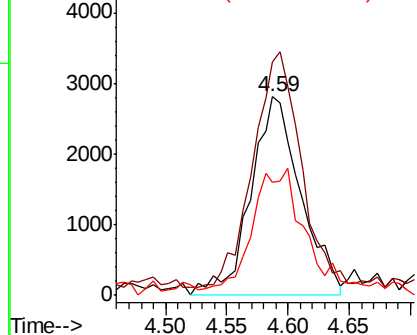
cis-1,2-Dichloroethene
Concen: 2.171 ug/l
RT: 4.59 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	113.6	0.0	286.8
98	60.1	0.0	128.4



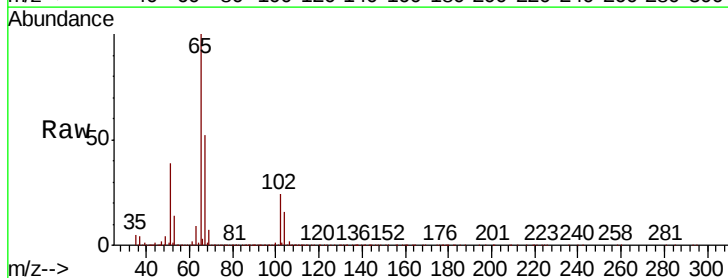
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



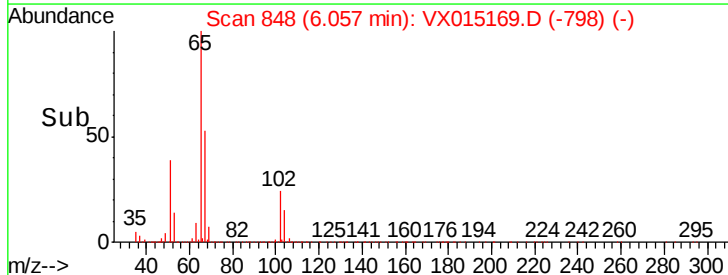
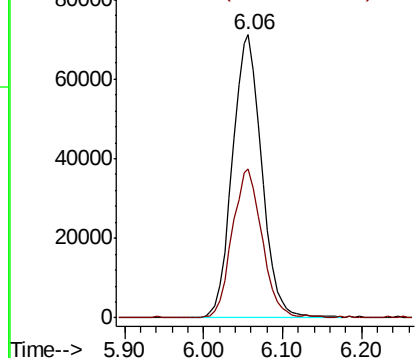
#33

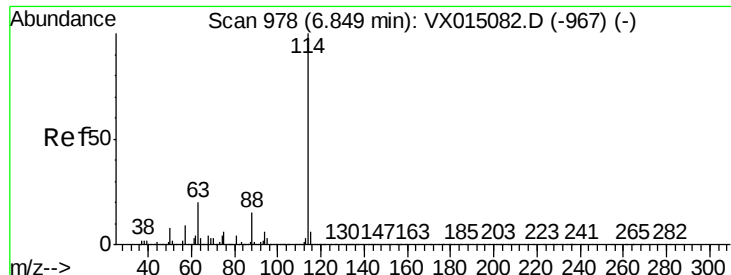
1,2-Dichloroethane-d4
Concen: 48.633 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.6



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

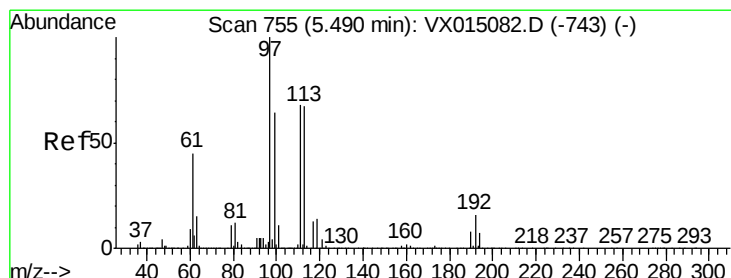
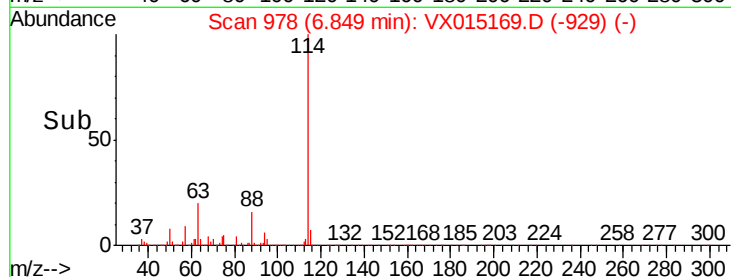
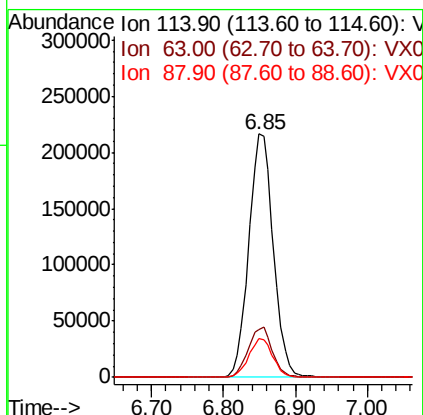
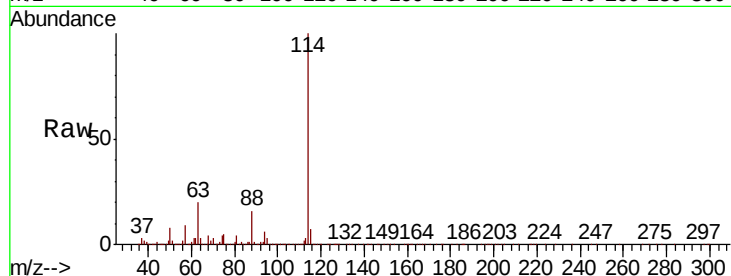




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

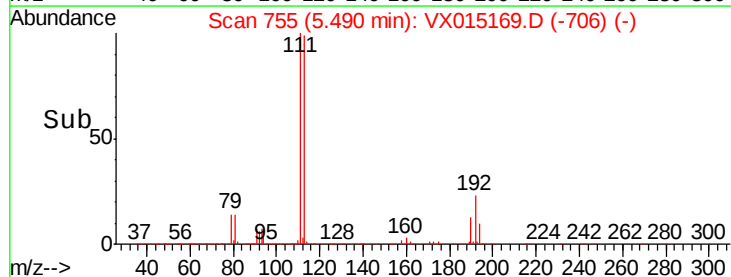
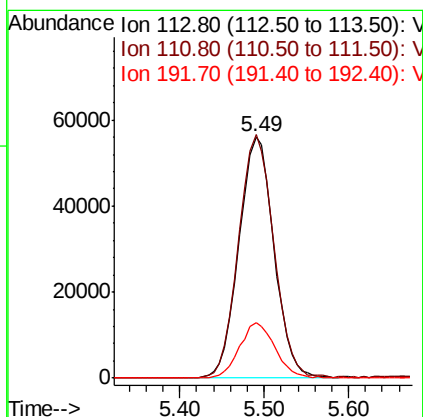
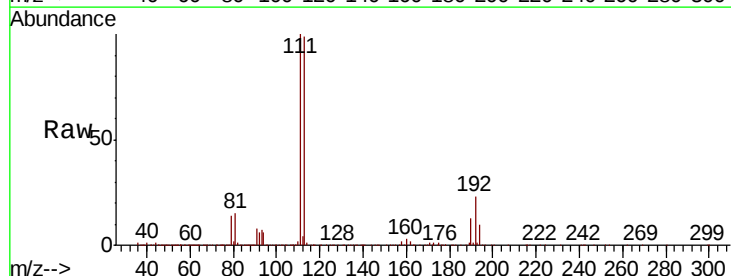
Instrument :
MSVOA_X
ClientSampleId :

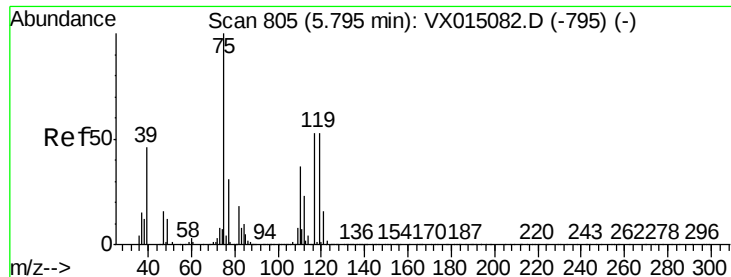
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.0
88	15.8	0.0	30.6



#35
Dibromofluoromethane
Concen: 49.032 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.7	82.6	123.8
192	23.4	18.6	28.0





#36

1,1-Dichloropropene

Concen: 4.475 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

Instrument :

MSVOA_X

ClientSampled :

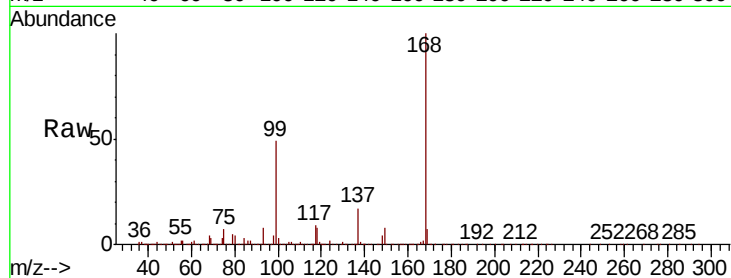
Tot Ion: 75 Resp: 21153

Ion Ratio Lower Upper

75 100

110 11.1 17.9 53.8#

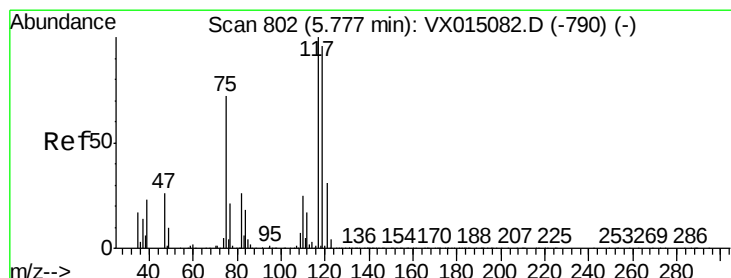
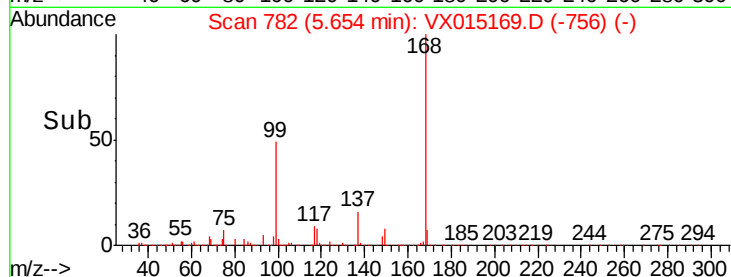
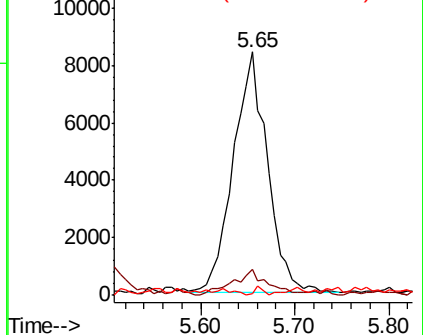
77 0.9 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.251 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

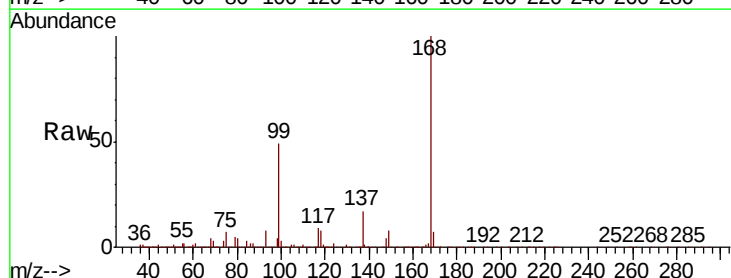
Tgt Ion:117 Resp: 27889

Ion Ratio Lower Upper

117 100

119 5.1 76.9 115.3#

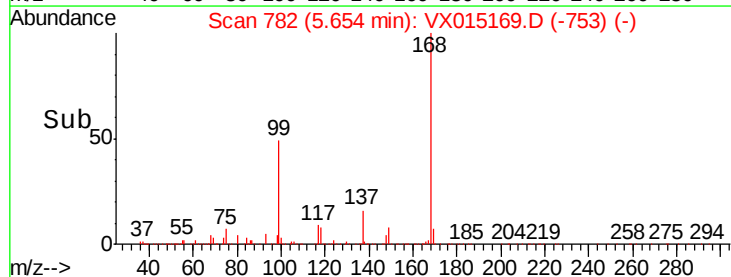
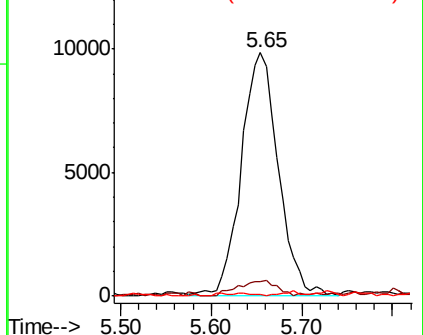
121 0.7 24.6 37.0#

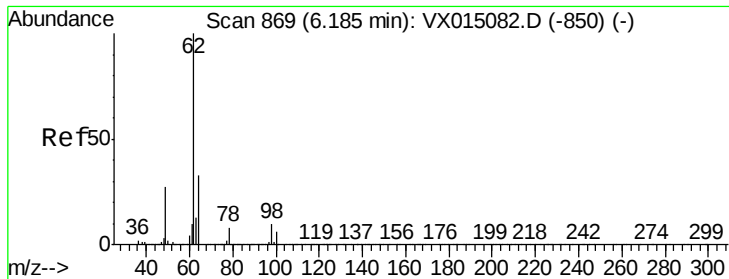


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#42

1,2-Dichloroethane

Concen: 0.212 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

Instrument :

MSVOA_X

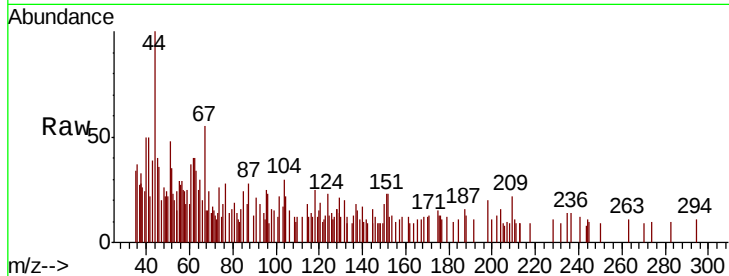
ClientSampleId :

Tot Ion: 62 Resp: 1022

Ion Ratio Lower Upper

62 100

98 5.1 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.17

500

400

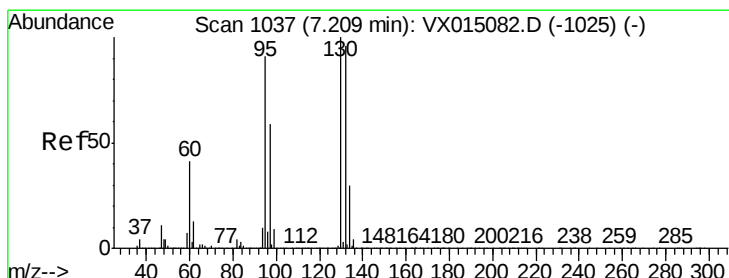
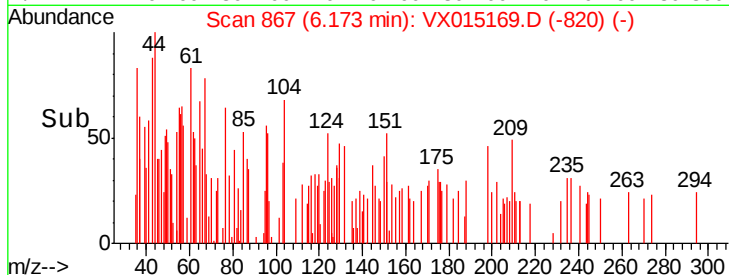
300

200

100

0

Time--> 6.10 6.15 6.20



#44

Trichloroethene

Concen: 123.976 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015169.D

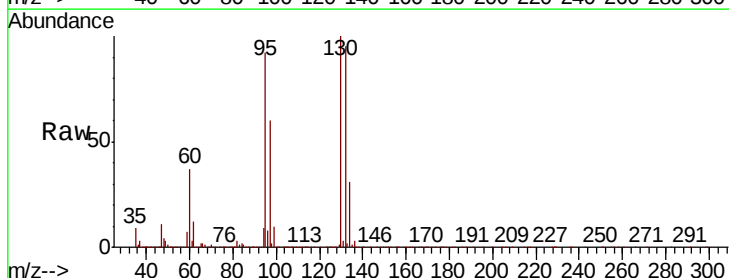
Acq: 10 Mar 2020 14:34

Tgt Ion:130 Resp: 484184

Ion Ratio Lower Upper

130 100

95 91.6 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

250000

200000

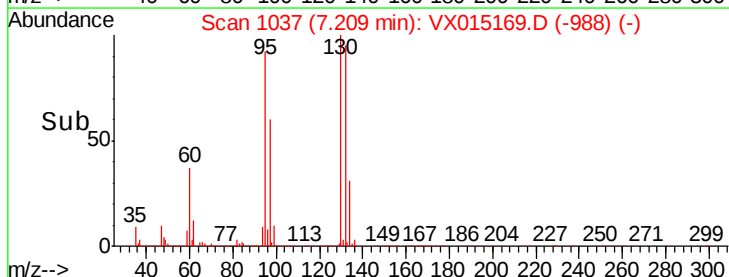
150000

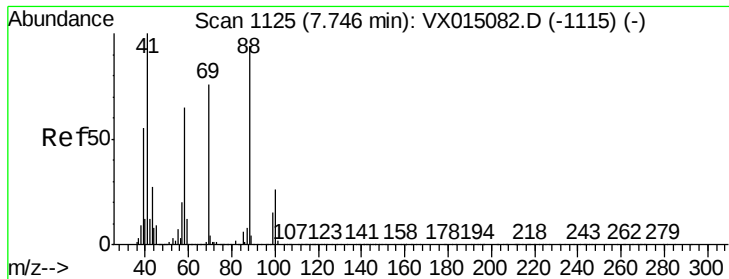
100000

50000

0

Time--> 7.10 7.20 7.30

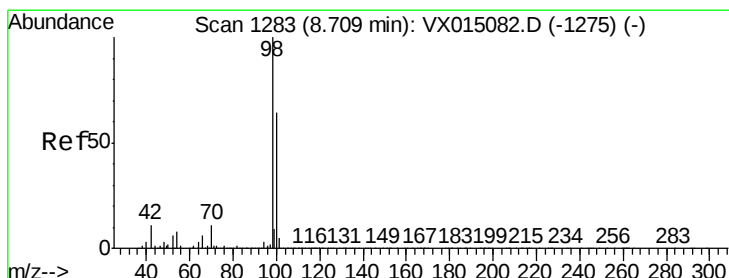
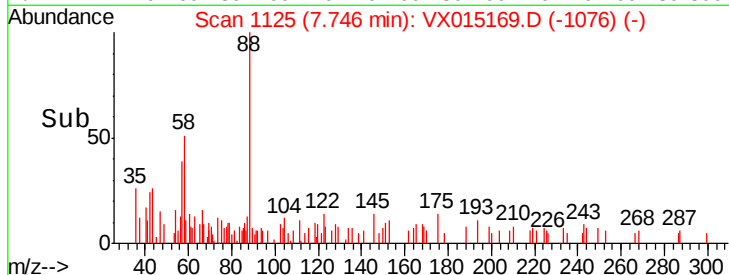
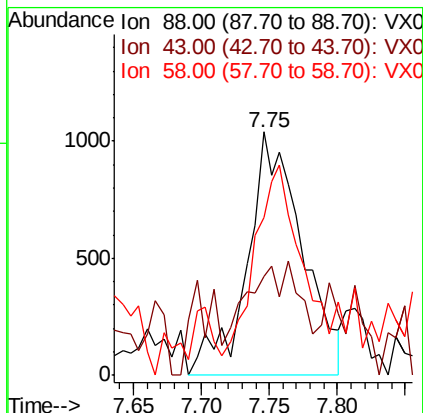
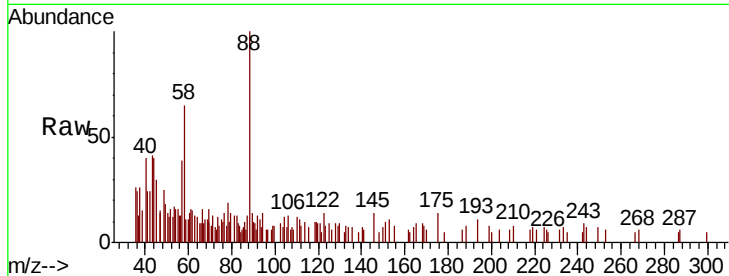




#49
1,4-Dioxane
Concen: 34.449 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

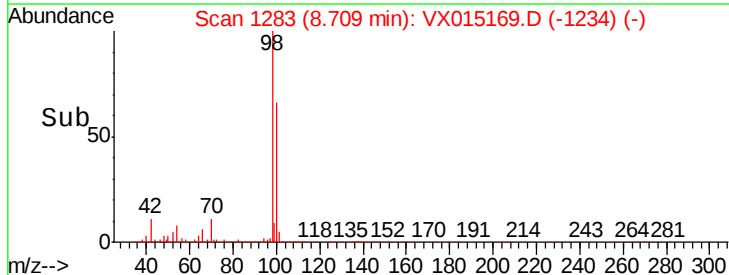
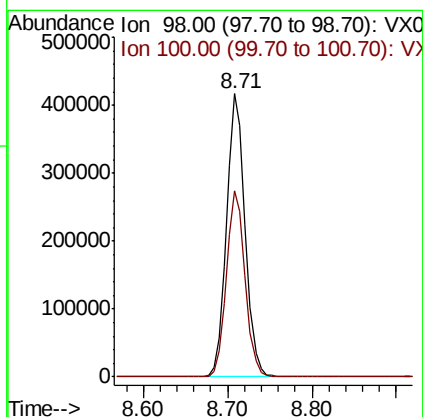
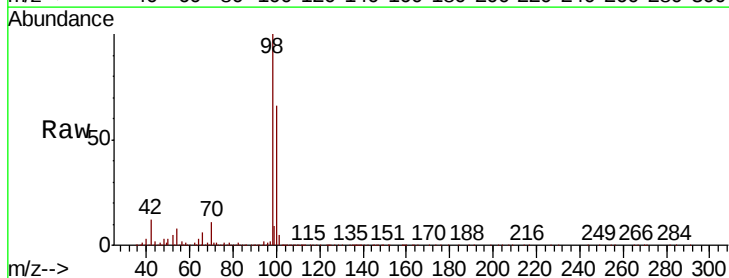
Instrument :
MSVOA_X
ClientSampled :

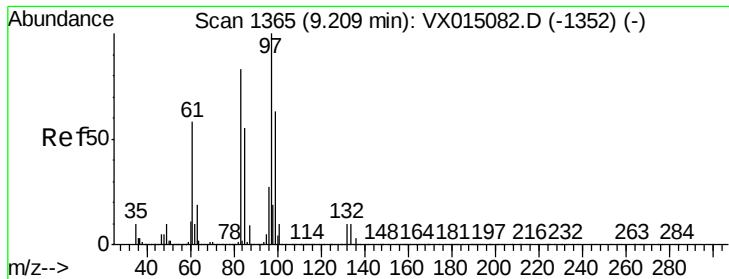
Tot Ion: 88 Resp: 2924
Ion Ratio Lower Upper
88 100
43 19.8 27.0 40.4#
58 63.3 55.6 83.4



#50
Toluene-d8
Concen: 51.338 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

Tgt Ion: 98 Resp: 629902
Ion Ratio Lower Upper
98 100
100 66.2 52.4 78.6

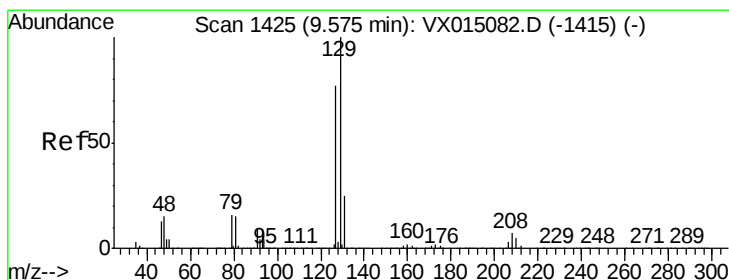
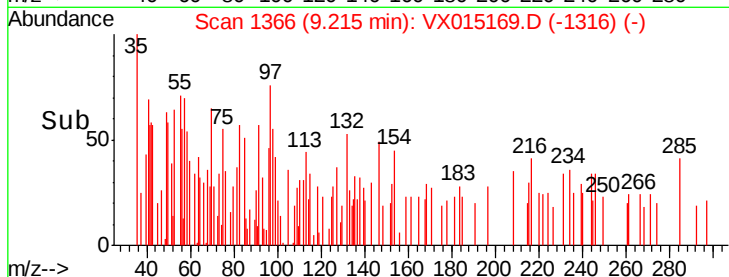
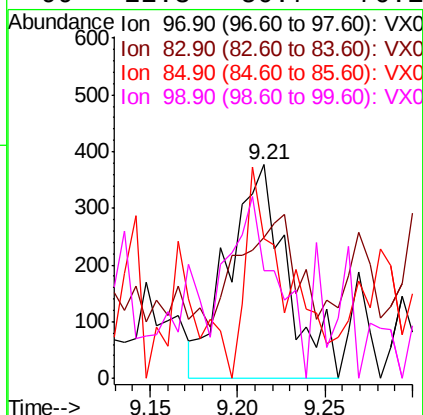
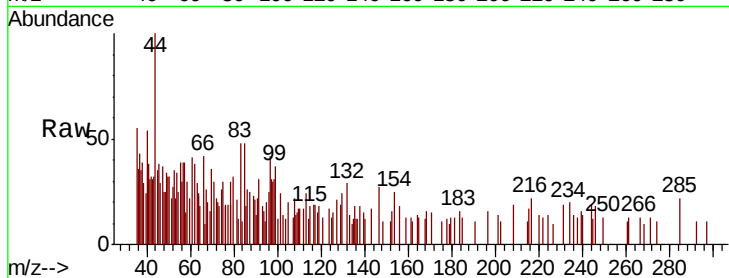




#55
 1,1,2-Trichloroethane
 Concen: 0.247 ug/l
 RT: 9.21 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VX015169.D
 Acq: 10 Mar 2020 14:34

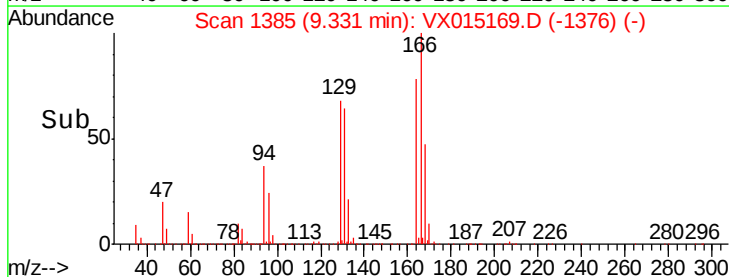
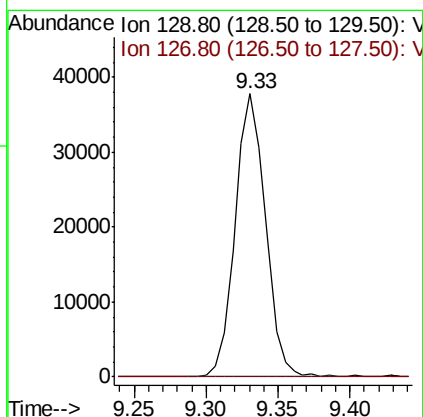
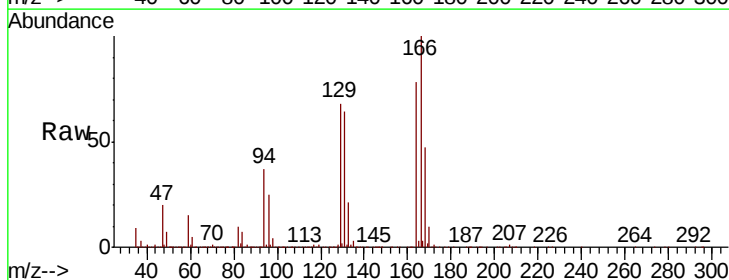
Instrument :
 MSVOA_X
 ClientSampleId :

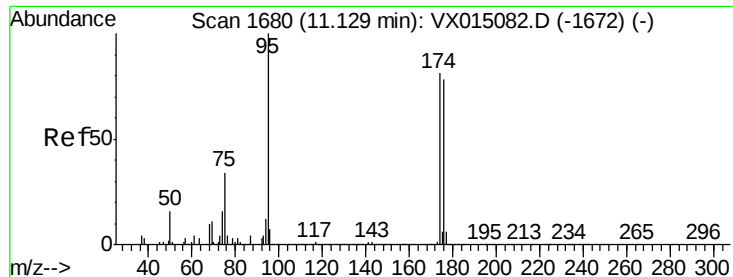
Tot Ion: 97 Resp: 870
 Ion Ratio Lower Upper
 97 100
 83 38.2 66.4 99.6#
 85 45.9 43.5 65.3
 99 22.3 50.7 76.1#



#60
 Dibromochloromethane
 Concen: 14.868 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.24 min
 Lab File: VX015169.D
 Acq: 10 Mar 2020 14:34

Tgt Ion: 129 Resp: 55120
 Ion Ratio Lower Upper
 129 100
 127 0.5 38.8 116.3#

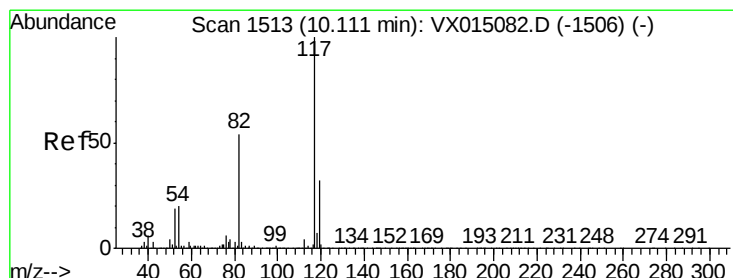
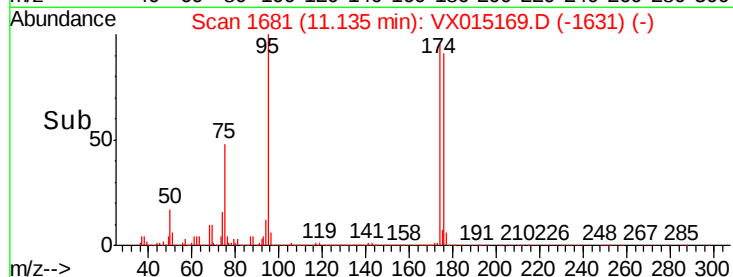
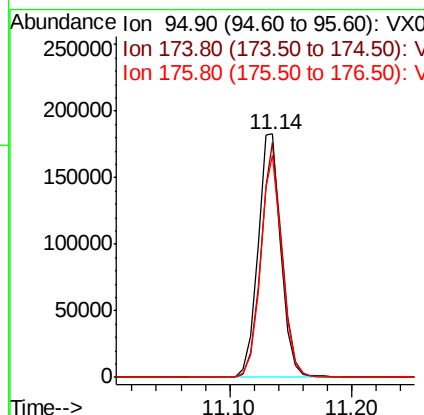
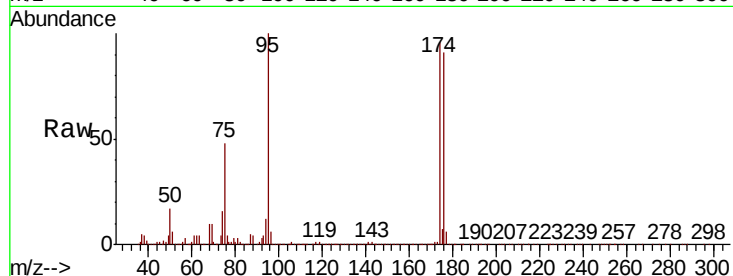




#62
4-Bromofluorobenzene
Concen: 54.866 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

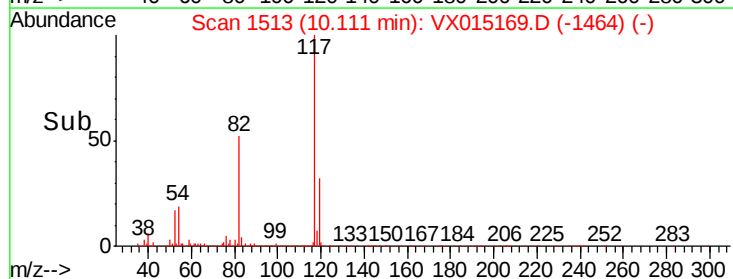
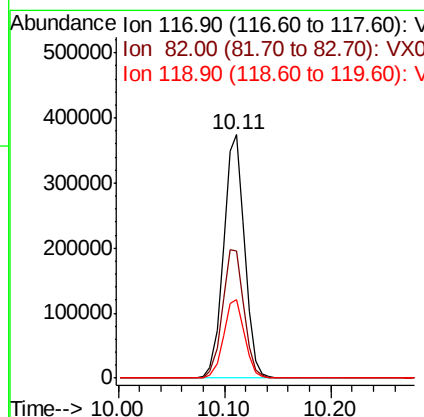
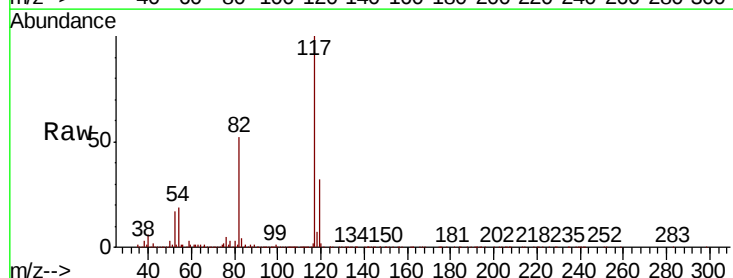
Instrument :
MSVOA_X
ClientSampled :

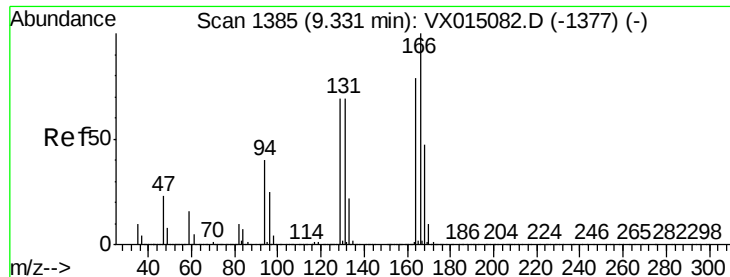
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	177.6
176	86.0	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.3	43.3	64.9
119	32.1	25.8	38.8





#64

Tetrachloroethene

Concen: 15.002 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 63874

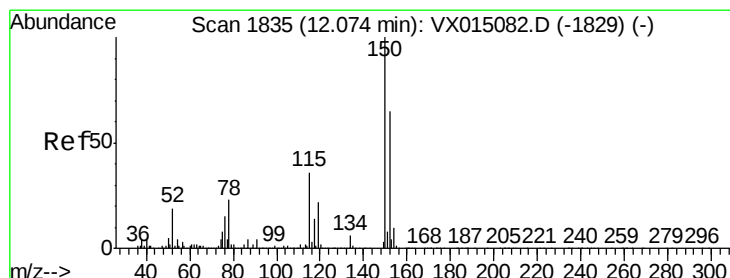
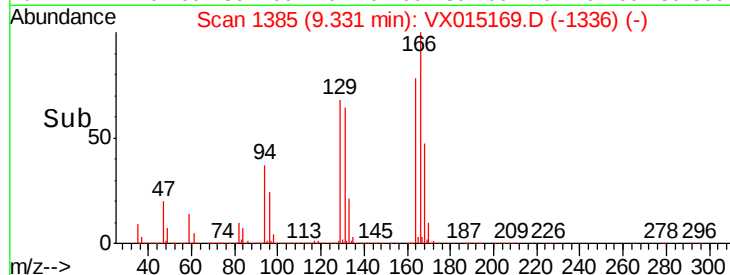
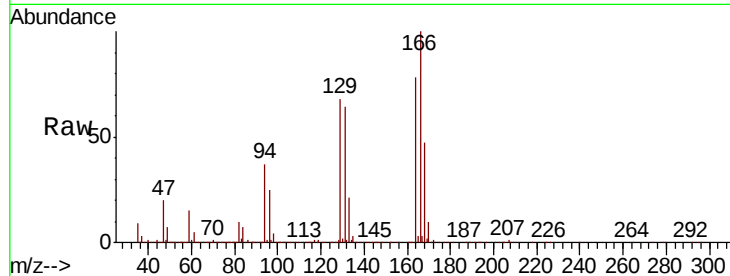
Ion Ratio Lower Upper

164 100

166 128.3 101.1 151.7

129 86.8 69.4 104.0

131 82.1 69.8 104.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

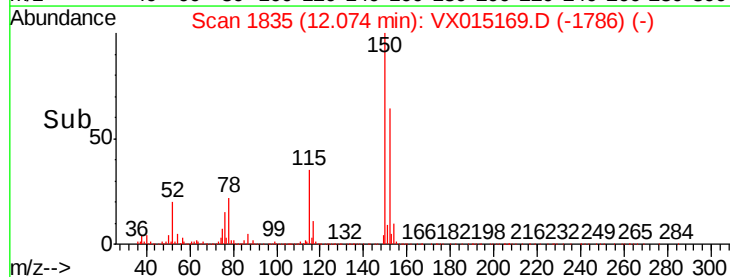
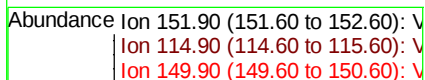
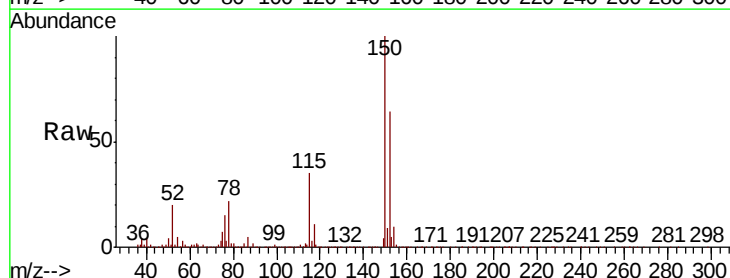
Tgt Ion:152 Resp: 265897

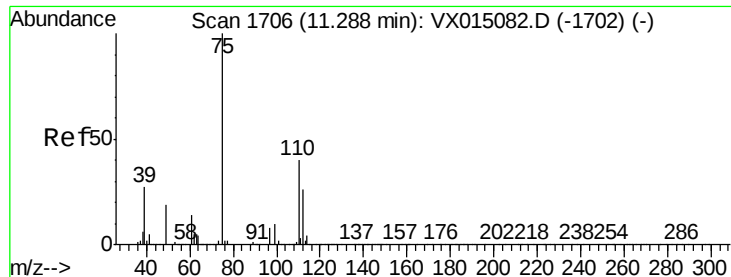
Ion Ratio Lower Upper

152 100

115 56.8 38.2 114.6

150 157.1 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 22.754 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

Instrument :

MSVOA_X

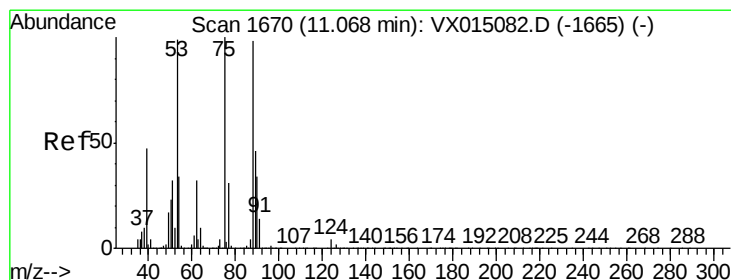
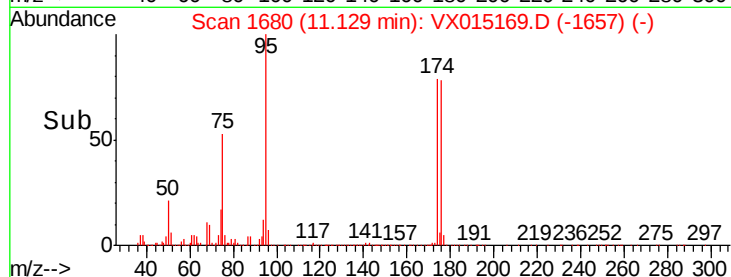
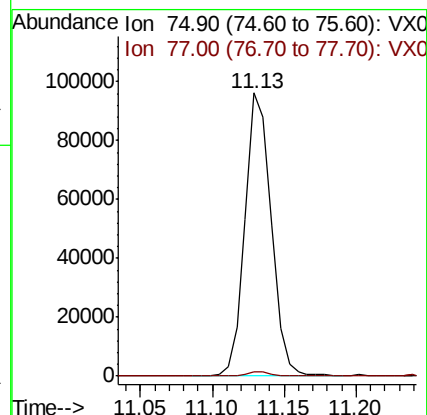
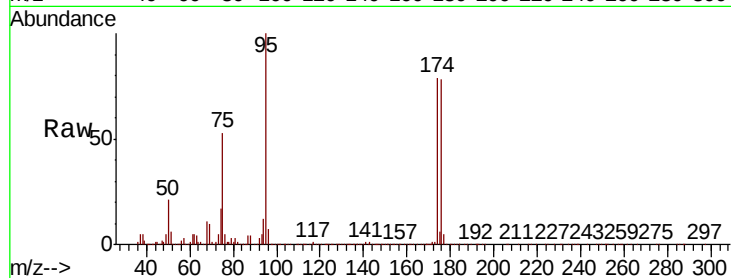
ClientSampled :

Tot Ion: 75 Resp: 120686

Ion Ratio Lower Upper

75 100

77 1.2 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.577 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015169.D

Acq: 10 Mar 2020 14:34

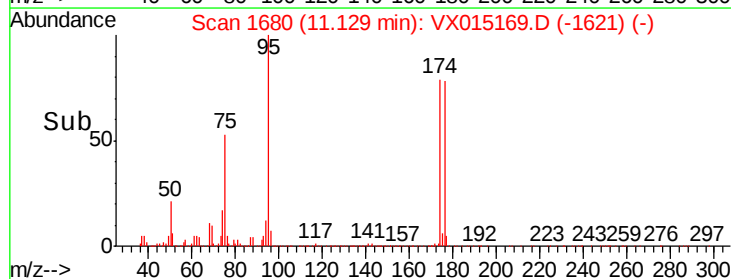
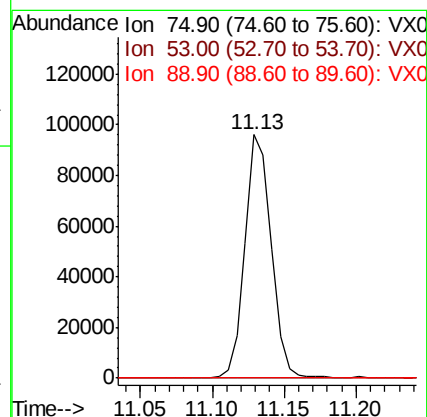
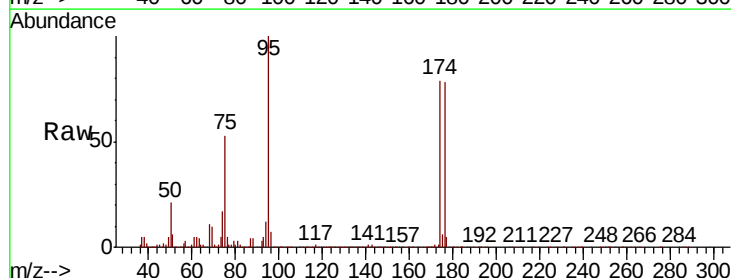
Tgt Ion: 75 Resp: 120686

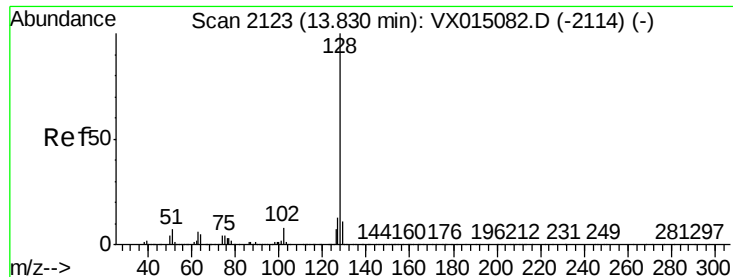
Ion Ratio Lower Upper

75 100

53 0.3 77.9 116.9#

89 0.1 36.2 54.2#





#95
Naphthalene
Concen: 1.460 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015169.D
Acq: 10 Mar 2020 14:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 734
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 9.5 8.6 13.0

