

Data File : VX015191.D
Acq On : 11 Mar 2020 11:38
Operator : JC/SP
Sample : L1860-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Quant Time: Mar 12 05:44:37 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	294650	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	474550	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	463116	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	232479	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	172998	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
35) Dibromofluoromethane	5.49	113	149640	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
50) Toluene-d8	8.71	98	581108	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
62) 4-Bromofluorobenzene	11.13	95	211910	52.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.34%	

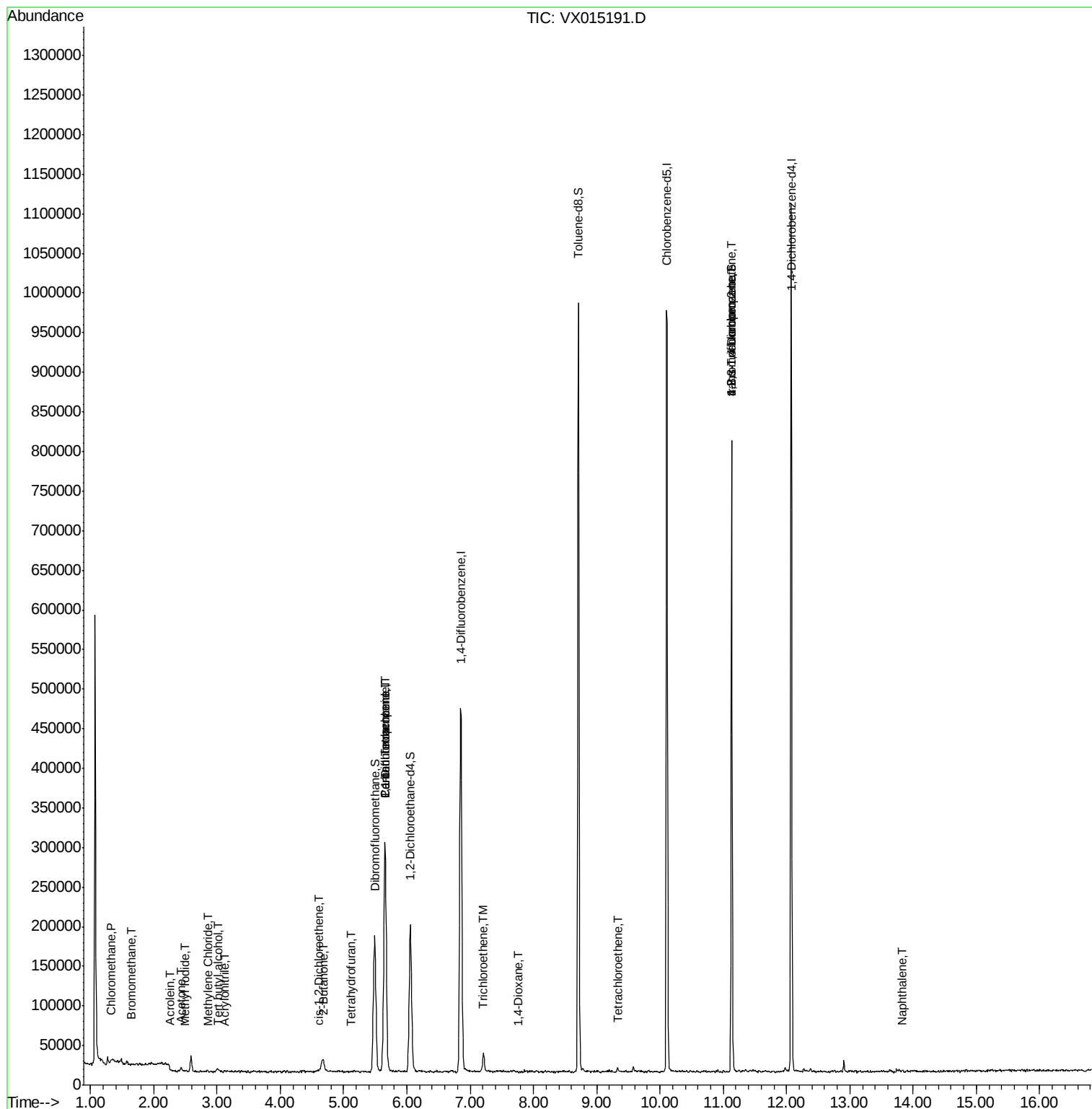
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	920	0.252	ug/l	93
5) Bromomethane	1.66	94	737	0.323	ug/l	89
10) Methyl Iodide	2.50	142	1074	0.343	ug/l #	61
11) Tert butyl alcohol	3.02	59	3597	5.931	ug/l #	91
13) Acrolein	2.26	56	420	0.737	ug/l	87
15) Acrylonitrile	3.12	53	513	0.340	ug/l #	51
16) Acetone	2.43	43	6483	4.579	ug/l	94
20) Methylene Chloride	2.86	84	1275	0.385	ug/l #	46
25) 2-Butanone	4.68	43	1401	0.676	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	873	0.255	ug/l	35
29) Tetrahydrofuran	5.11	42	294	0.220	ug/l #	22
36) 1,1-Dichloropropene	5.65	75	20287	4.624	ug/l #	52
38) Carbon Tetrachloride	5.65	117	25301	6.110	ug/l #	17
44) Trichloroethene	7.21	130	9699	2.676	ug/l	100
49) 1,4-Dioxane	7.76	88	151	1.917	ug/l #	52
64) Tetrachloroethene	9.33	164	1131	0.295	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	102025	22.001	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	102025	62.440	ug/l #	11
95) Naphthalene	13.83	128	1539	1.517	ug/l #	82

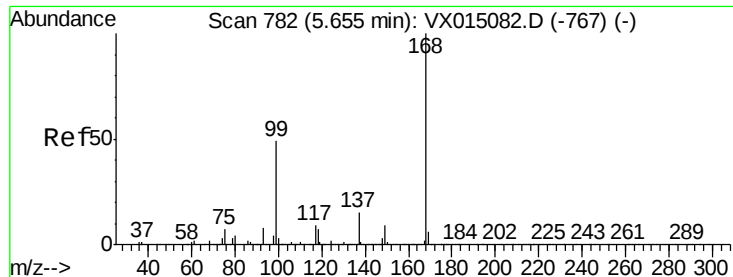
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

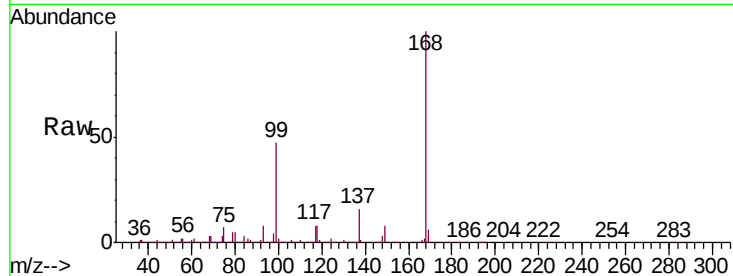
MW-4

Tgt Ion:168 Resp: 294650

Ion Ratio Lower Upper

168 100

99 47.0 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

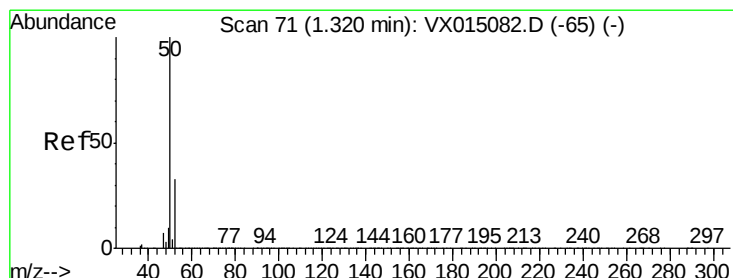
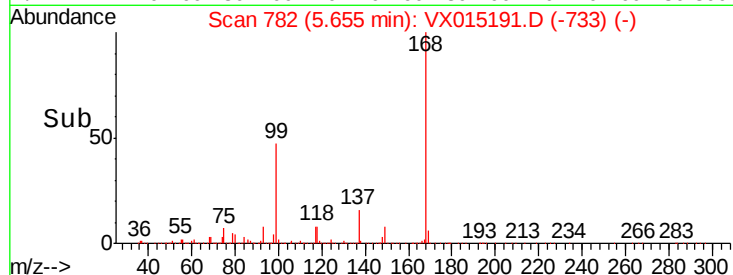
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.252 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015191.D

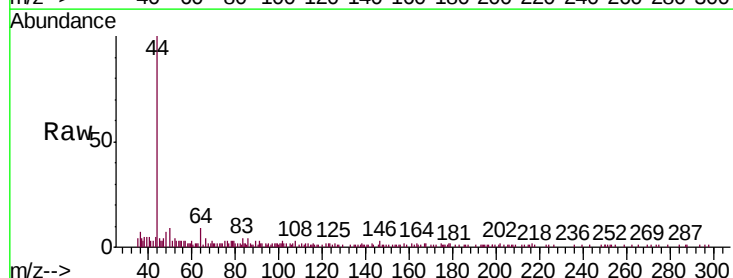
Acq: 11 Mar 2020 11:38

Tgt Ion: 50 Resp: 920

Ion Ratio Lower Upper

50 100

52 29.0 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

600

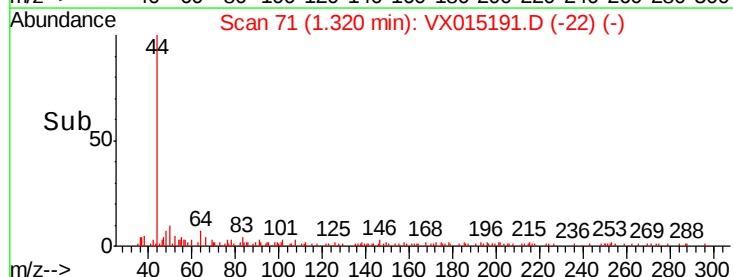
400

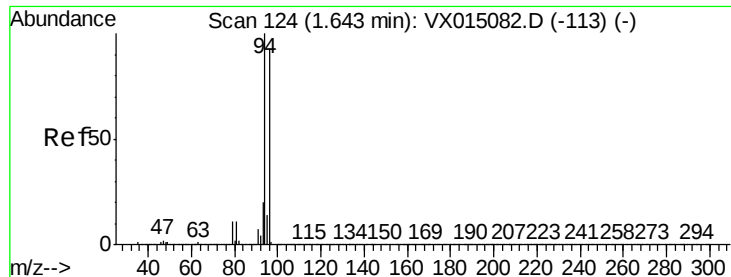
200

0

Time-->

1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: 0.323 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

Instrument :

MSVOA_X

ClientSampled :

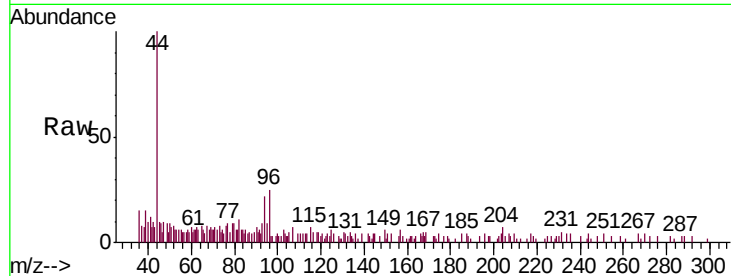
MW-4

Tgt Ion: 94 Resp: 737

Ion Ratio Lower Upper

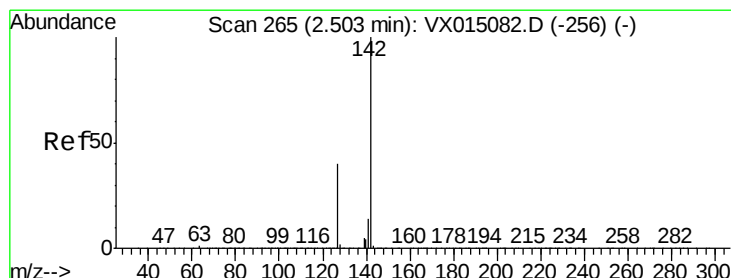
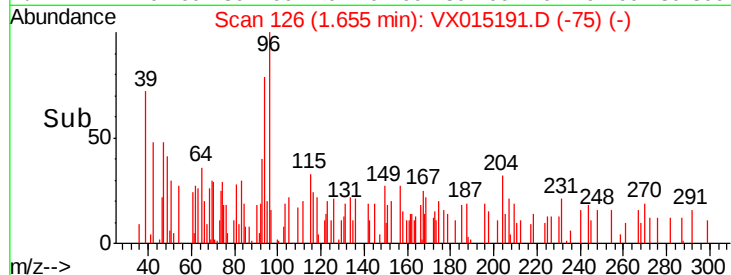
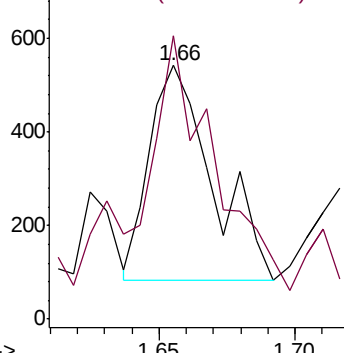
94 100

96 104.1 74.6 111.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.343 ug/l

RT: 2.50 min Scan# 264

Delta R.T. -0.01 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

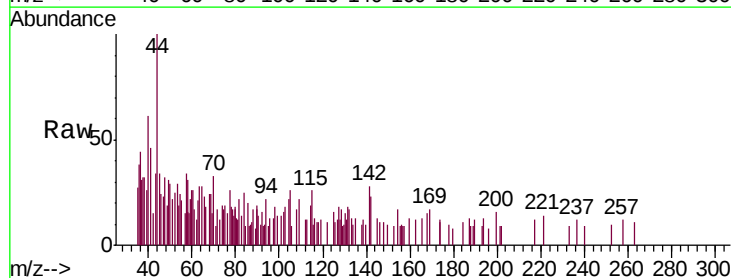
Tgt Ion: 142 Resp: 1074

Ion Ratio Lower Upper

142 100

127 14.9 31.7 47.5#

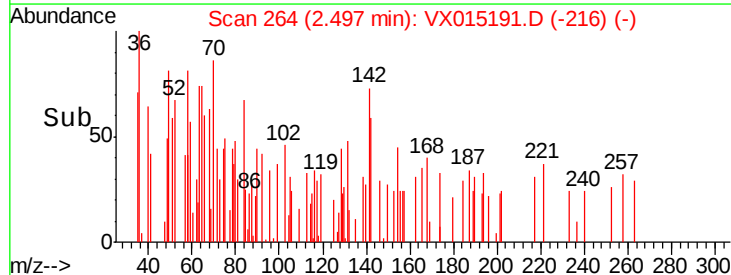
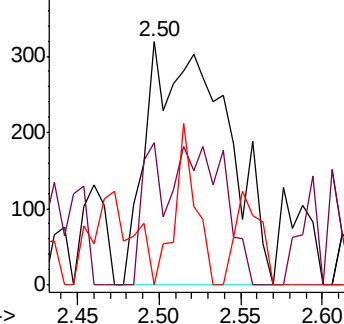
141 0.0 11.3 16.9#

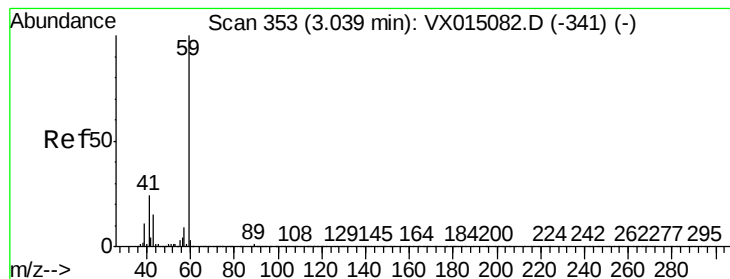


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 5.931 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

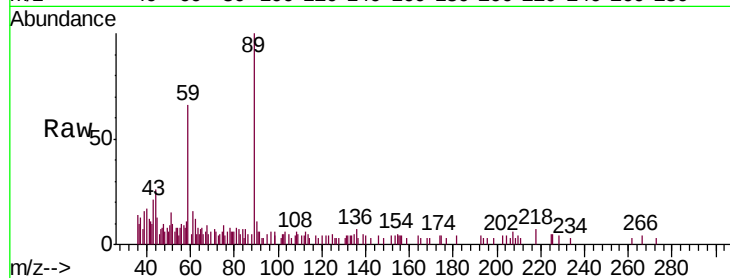
MW-4

Tgt Ion: 59 Resp: 3597

Ion Ratio Lower Upper

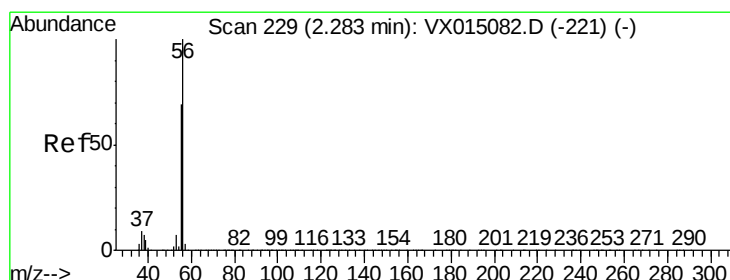
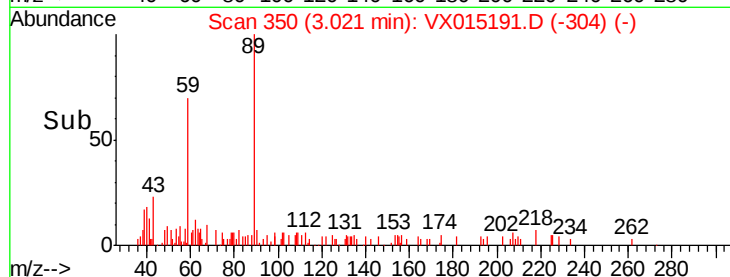
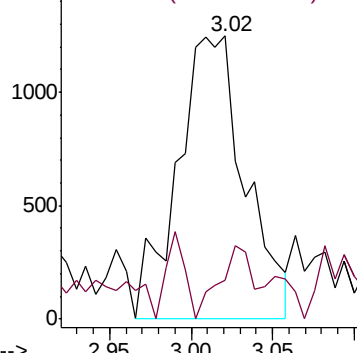
59 100

57 13.5 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.737 ug/l

RT: 2.26 min Scan# 225

Delta R.T. -0.02 min

Lab File: VX015191.D

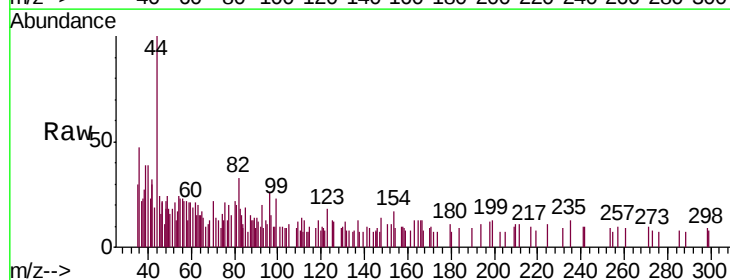
Acq: 11 Mar 2020 11:38

Tgt Ion: 56 Resp: 420

Ion Ratio Lower Upper

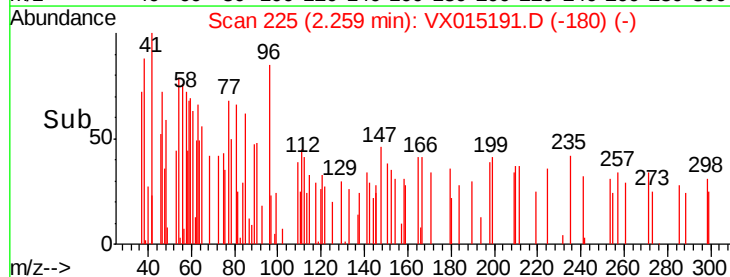
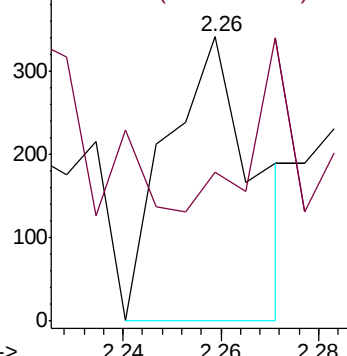
56 100

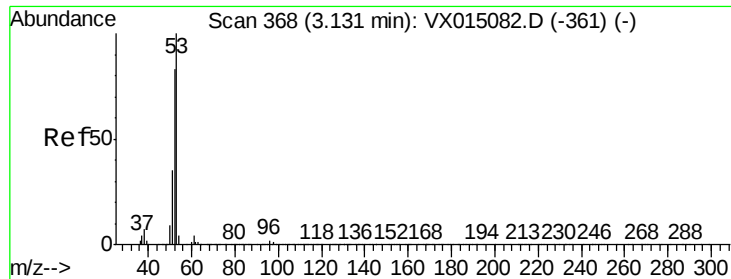
55 58.6 55.4 83.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.340 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

Instrument :

MSVOA_X

ClientSampled :

MW-4

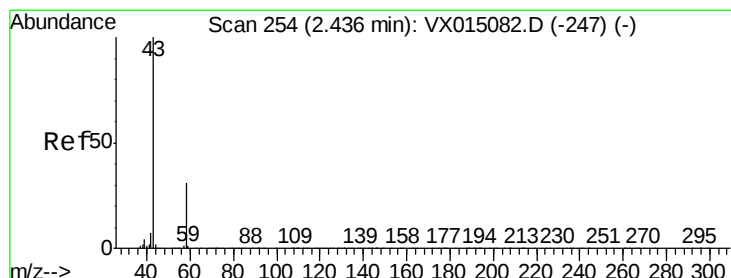
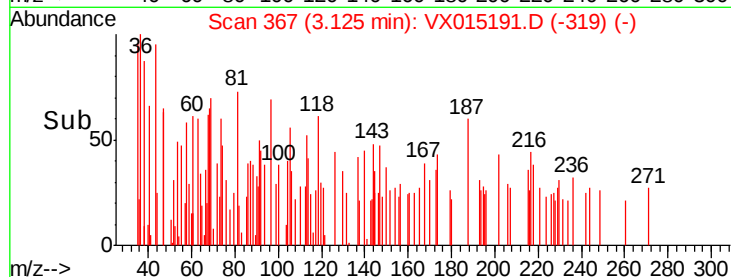
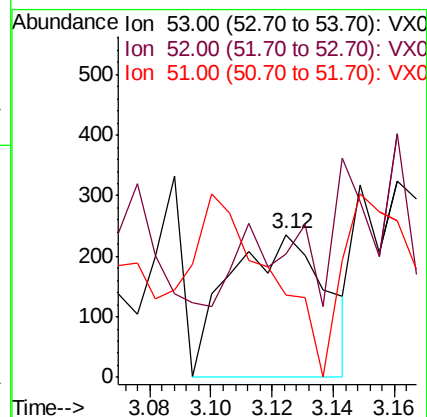
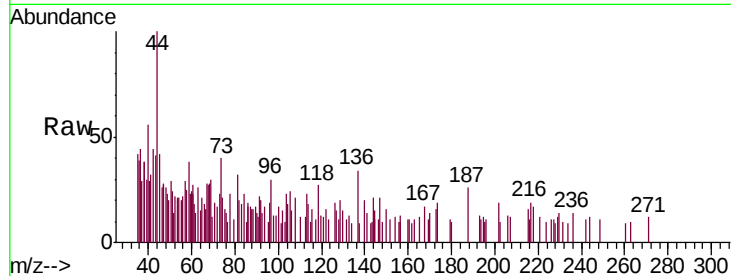
Tgt Ion: 53 Resp: 513

Ion Ratio Lower Upper

53 100

52 43.7 66.6 100.0#

51 0.0 29.0 43.6#



#16

Acetone

Concen: 4.579 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX015191.D

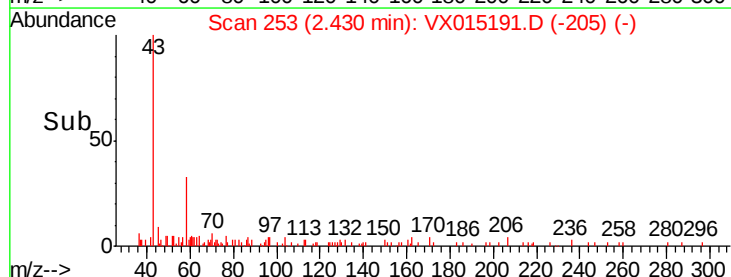
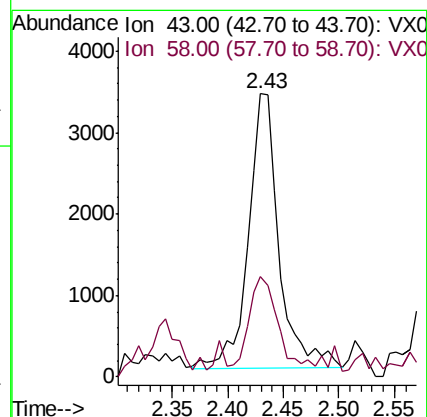
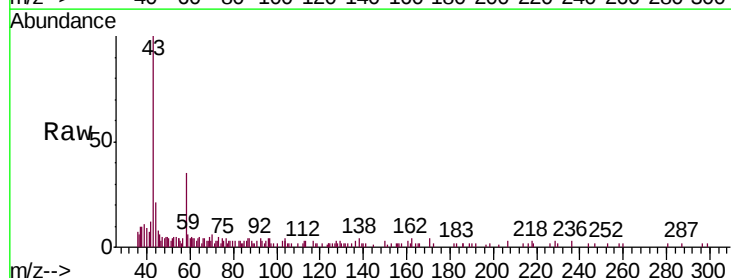
Acq: 11 Mar 2020 11:38

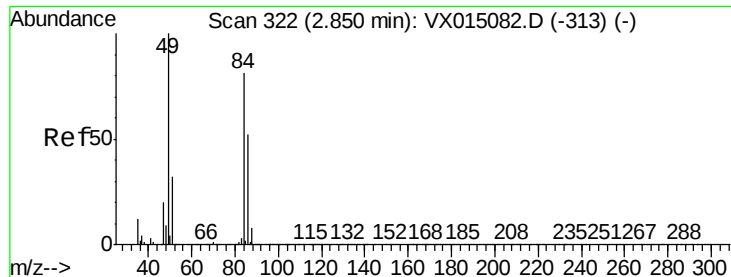
Tgt Ion: 43 Resp: 6483

Ion Ratio Lower Upper

43 100

58 34.5 24.8 37.2

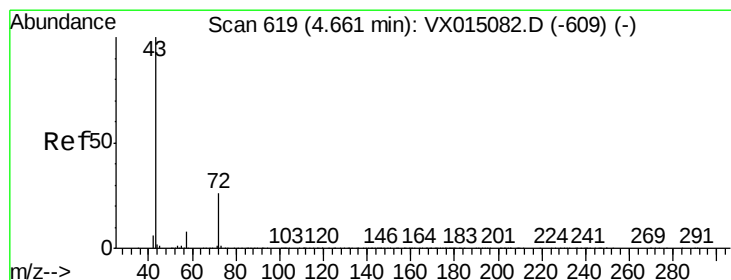
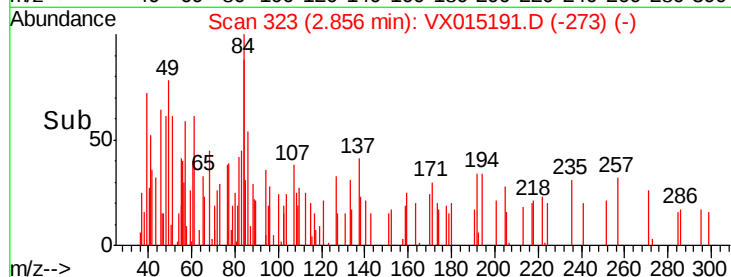
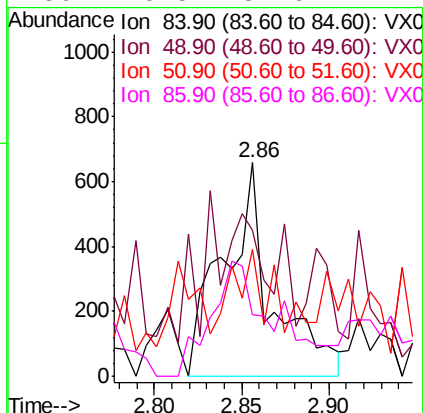
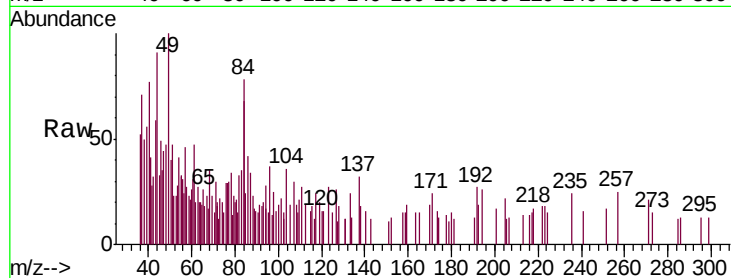




#20
Methylene Chloride
Concen: 0.385 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

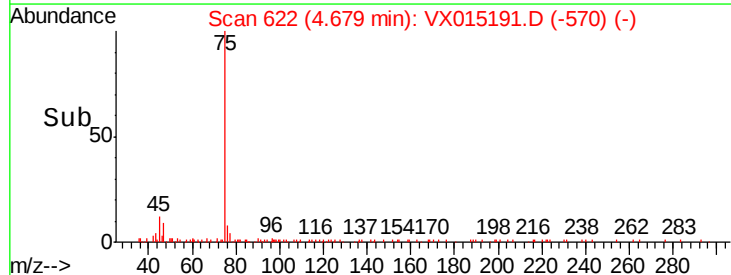
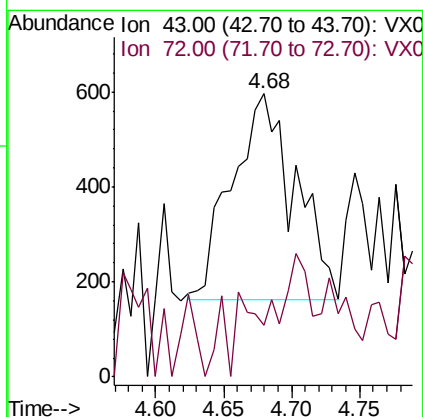
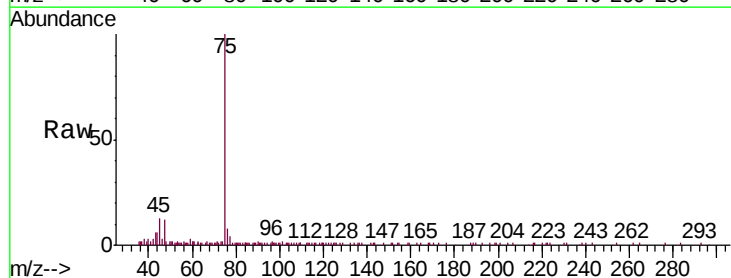
Instrument :
MSVOA_X
ClientSampleId :
MW-4

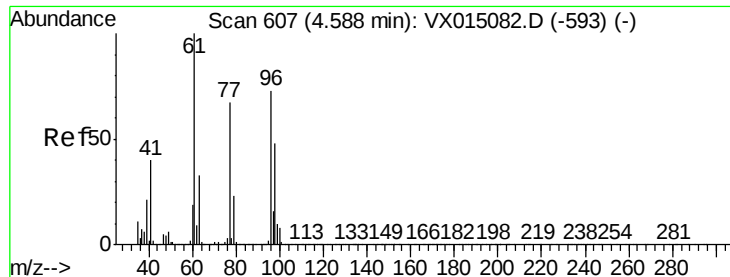
Tgt Ion:	84	Resp:	1275
Ion	Ratio	Lower	Upper
84	100		
49	53.3	99.4	149.2#
51	50.1	31.5	47.3#
86	16.5	51.6	77.4#



#25
2-Butanone
Concen: 0.676 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

Tgt Ion:	43	Resp:	1401
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.6	30.8#



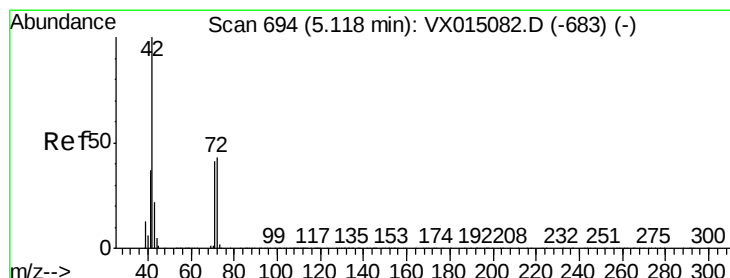
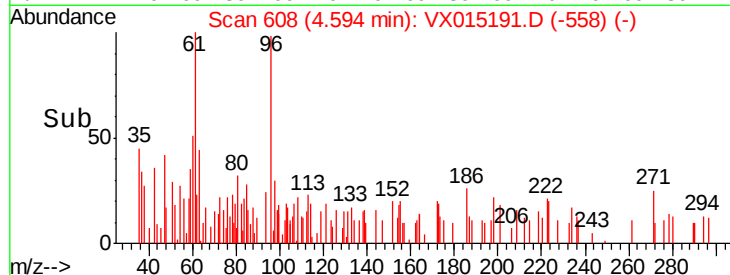
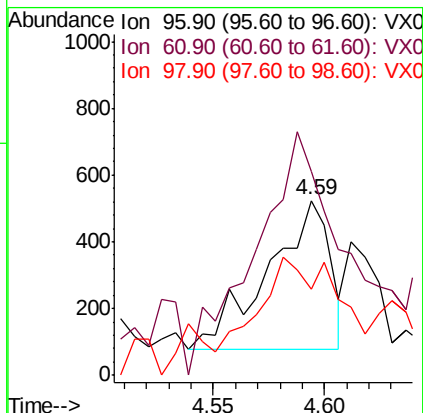
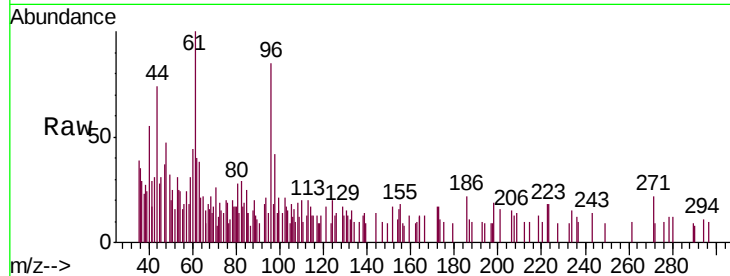


#27

cis-1,2-Dichloroethene
 Concen: 0.255 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX015191.D
 Acq: 11 Mar 2020 11:38

Instrument :
 MSVOA_X
 ClientSampled :
 MW-4

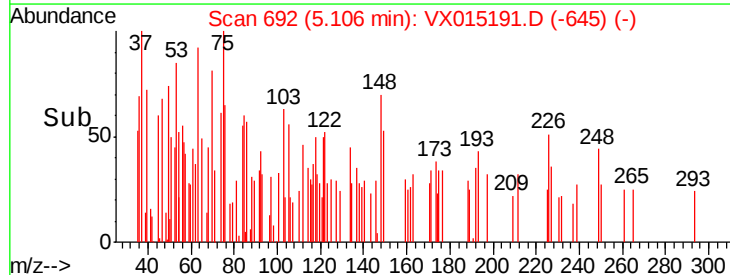
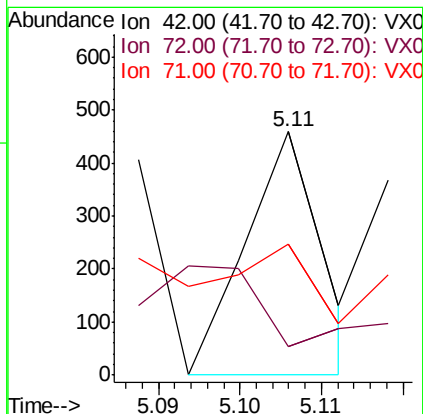
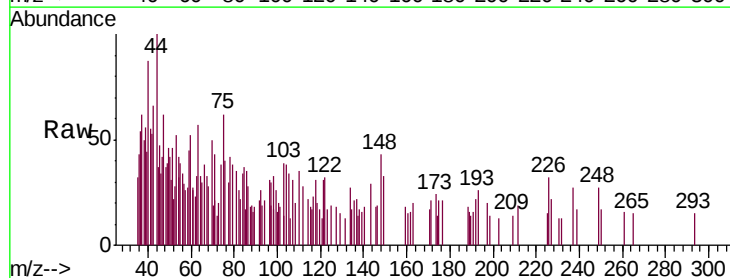
Tgt Ion: 96 Resp: 873
 Ion Ratio Lower Upper
 96 100
 61 246.5 0.0 286.8
 98 84.0 0.0 128.4

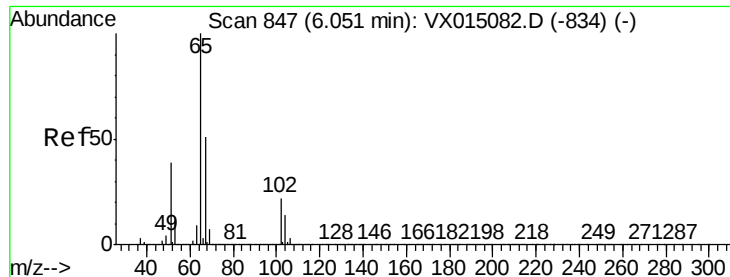


#29

Tetrahydrofuran
 Concen: 0.220 ug/l
 RT: 5.11 min Scan# 692
 Delta R.T. -0.01 min
 Lab File: VX015191.D
 Acq: 11 Mar 2020 11:38

Tgt Ion: 42 Resp: 294
 Ion Ratio Lower Upper
 42 100
 72 80.6 36.4 54.6#
 71 107.5 33.3 49.9#

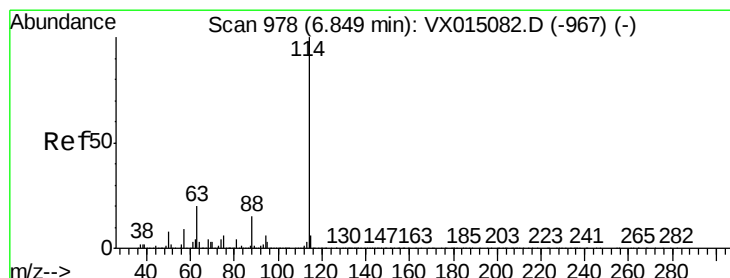
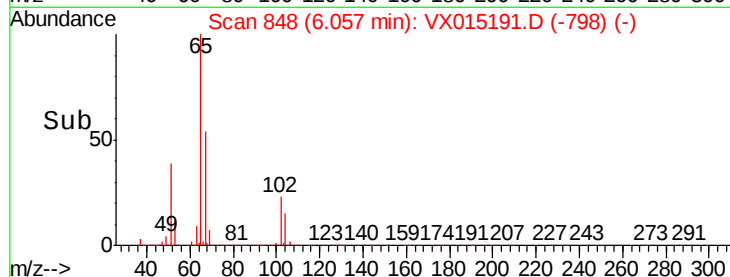
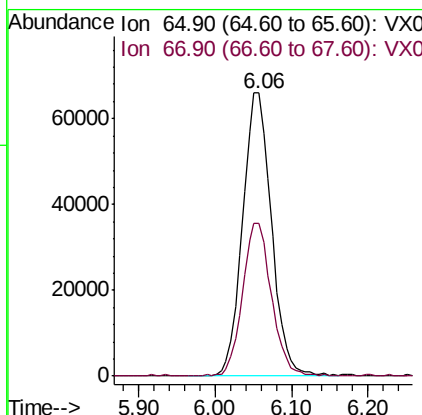
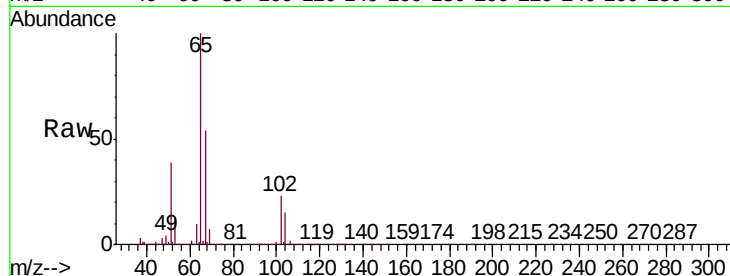




#33
 1,2-Dichloroethane-d4
 Concen: 49.489 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX015191.D
 Acq: 11 Mar 2020 11:38

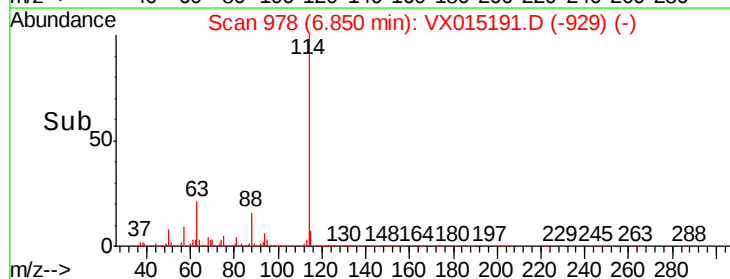
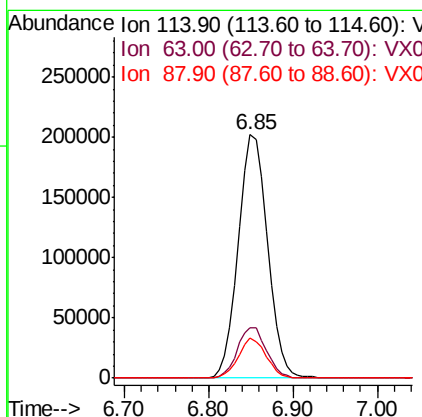
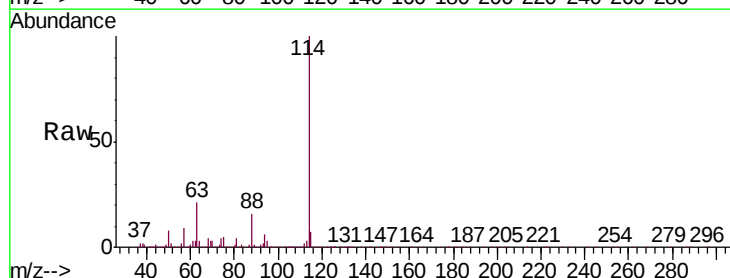
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

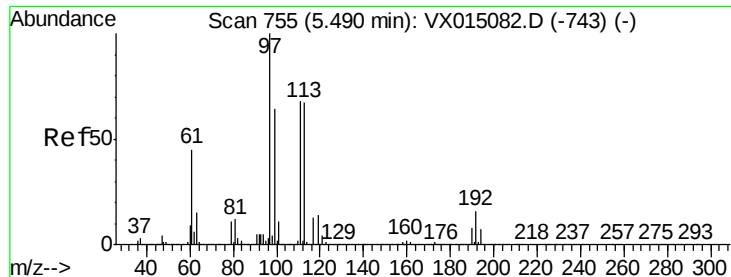
Tgt Ion: 65 Resp: 172998
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX015191.D
 Acq: 11 Mar 2020 11:38

Tgt Ion: 114 Resp: 474550
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.0
 88 16.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.983 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

MW-4

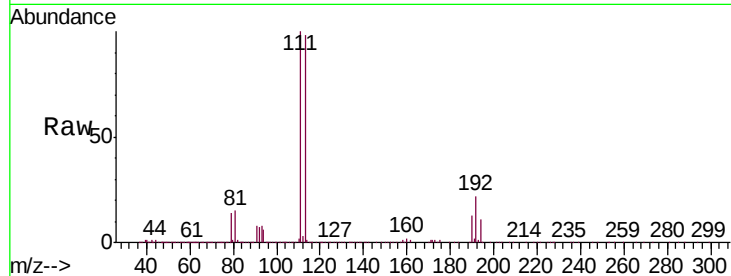
Tgt Ion:113 Resp: 149640

Ion Ratio Lower Upper

113 100

111 100.8 82.6 123.8

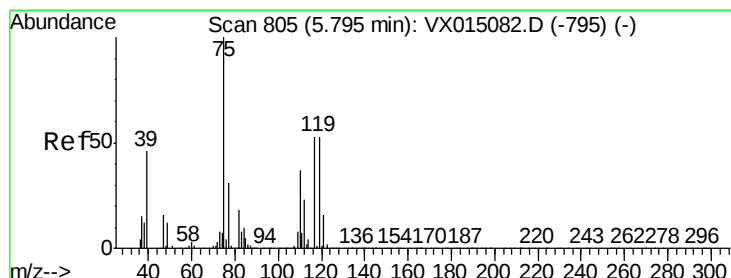
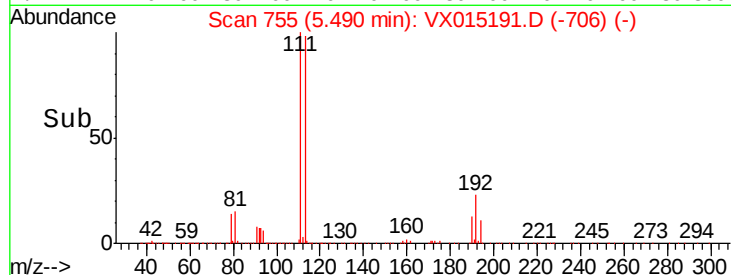
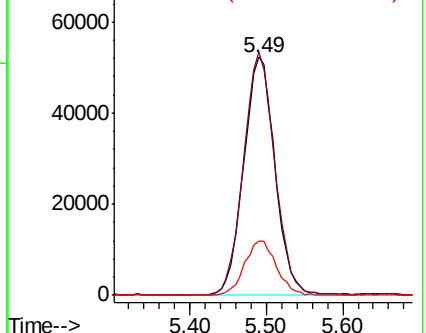
192 23.3 18.6 28.0



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: 4.624 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

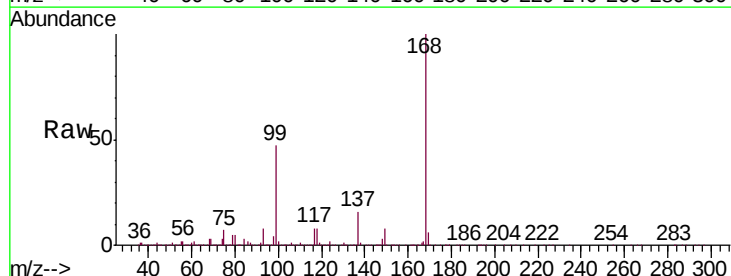
Tgt Ion: 75 Resp: 20287

Ion Ratio Lower Upper

75 100

110 11.7 17.9 53.8#

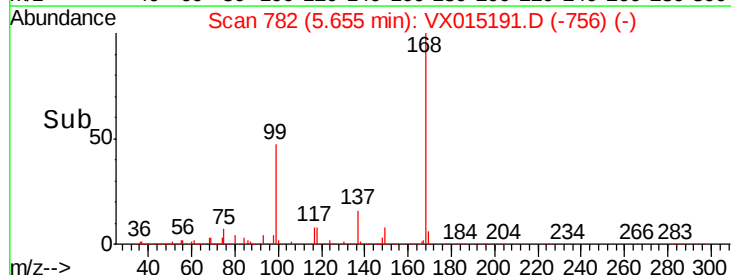
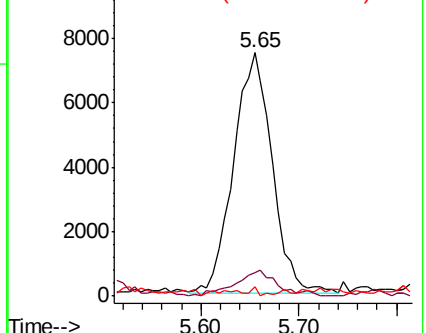
77 0.3 24.8 37.2#

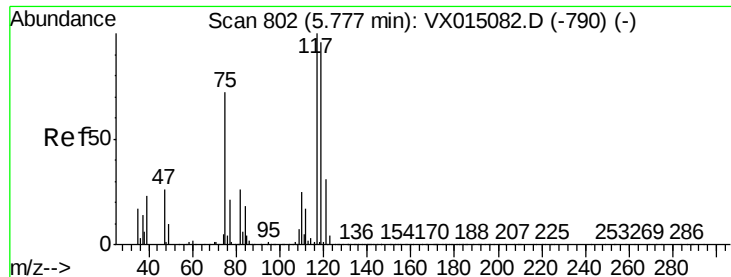


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

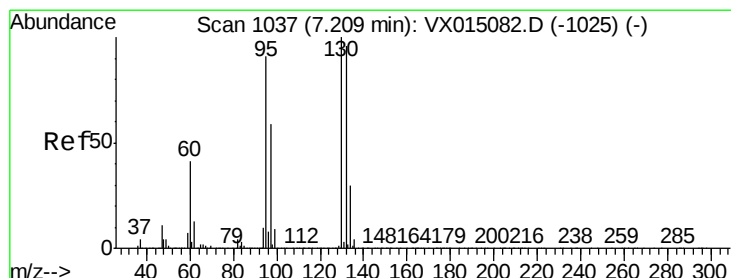
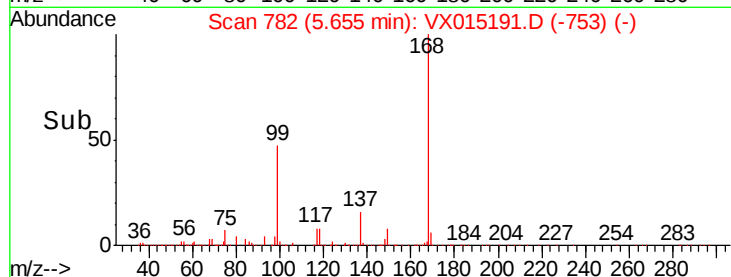
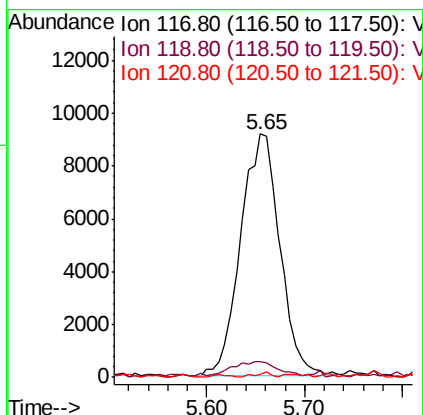
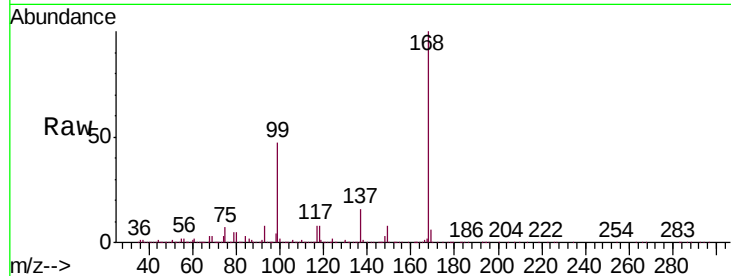




#38
Carbon Tetrachloride
Concen: 6.110 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

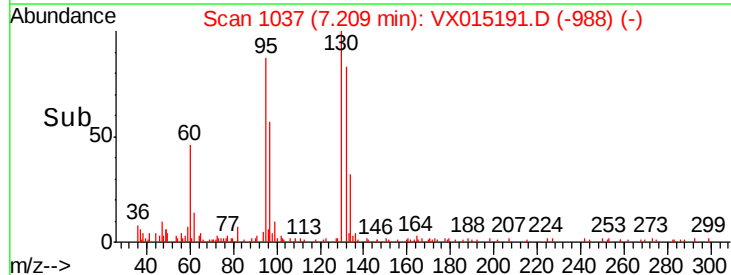
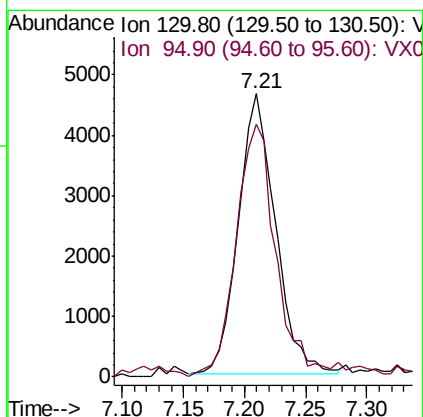
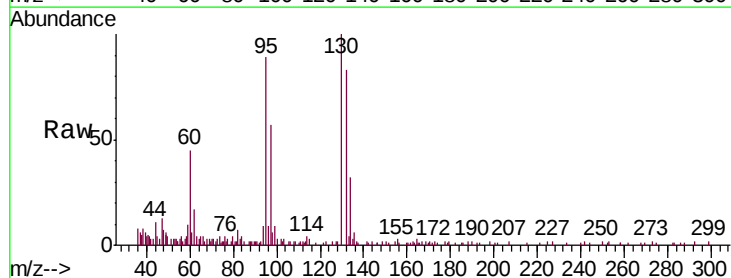
Instrument :
MSVOA_X
ClientSampleId :
MW-4

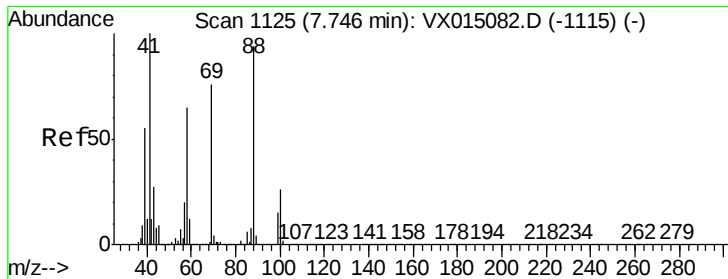
Tgt Ion:117 Resp: 25301
Ion Ratio Lower Upper
117 100
119 5.8 76.9 115.3#
121 1.7 24.6 37.0#



#44
Trichloroethene
Concen: 2.676 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

Tgt Ion:130 Resp: 9699
Ion Ratio Lower Upper
130 100
95 90.4 0.0 181.2

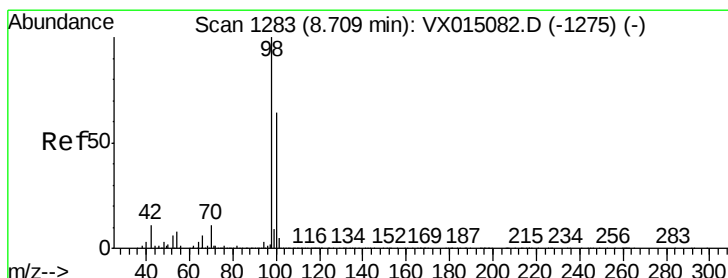
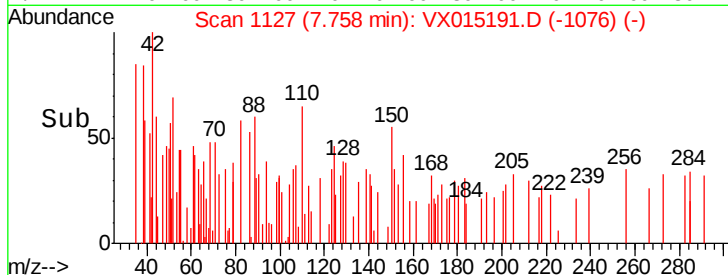
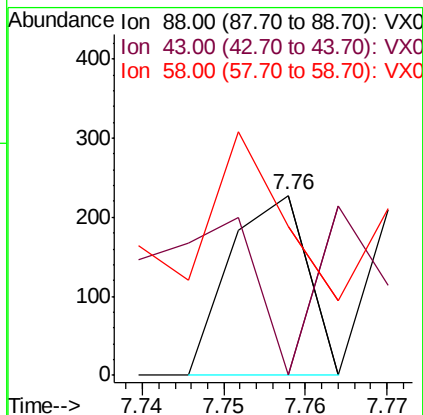
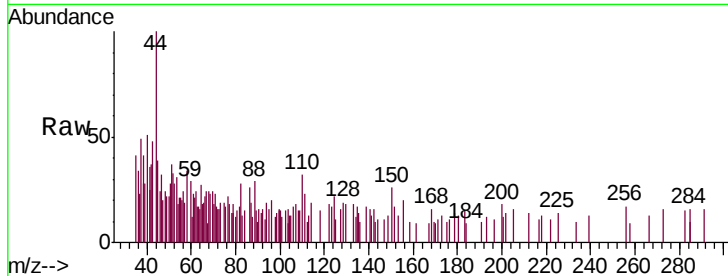




#49
1,4-Dioxane
Concen: 1.917 ug/l
RT: 7.76 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

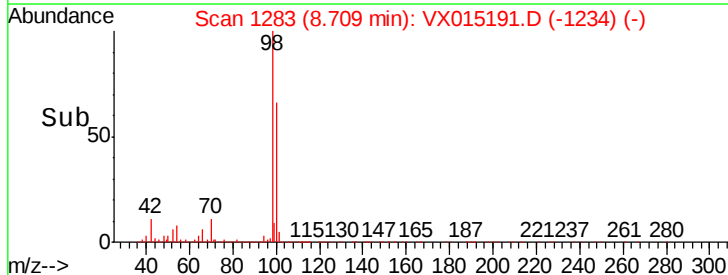
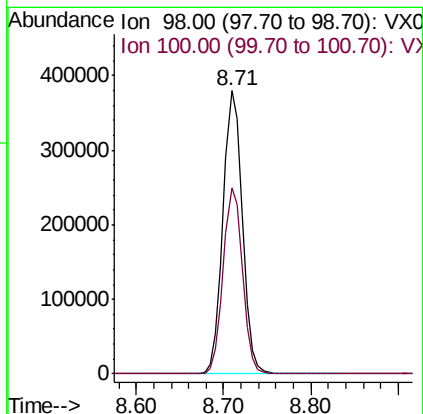
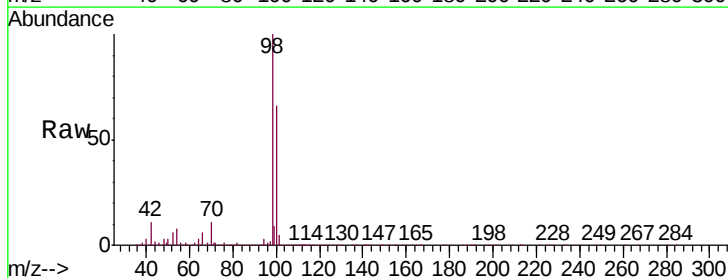
Instrument :
MSVOA_X
ClientSampled :
MW-4

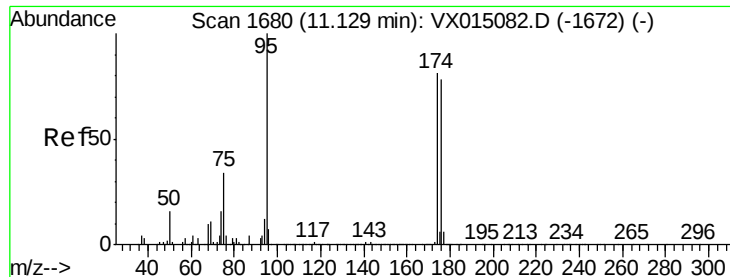
Tgt Ion: 88 Resp: 151
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 104.6 55.6 83.4#



#50
Toluene-d8
Concen: 51.028 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

Tgt Ion: 98 Resp: 581108
Ion Ratio Lower Upper
98 100
100 65.3 52.4 78.6

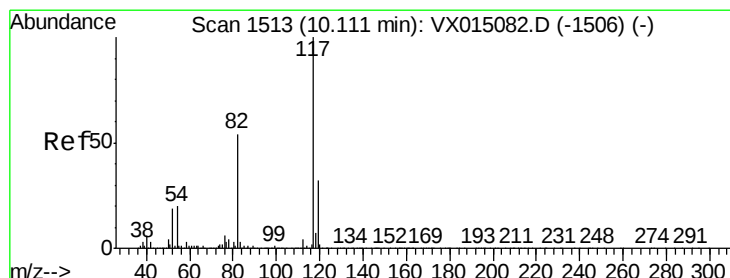
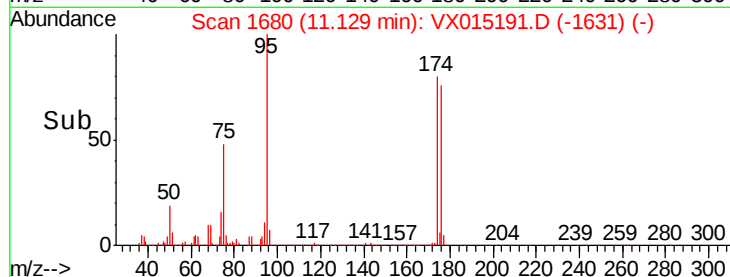
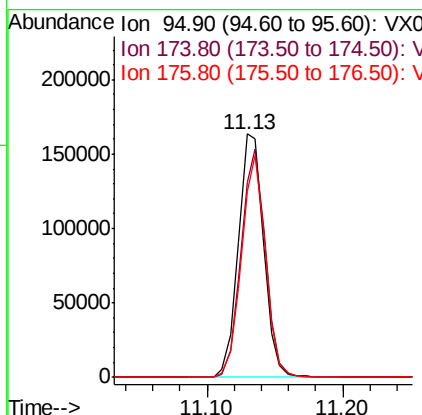
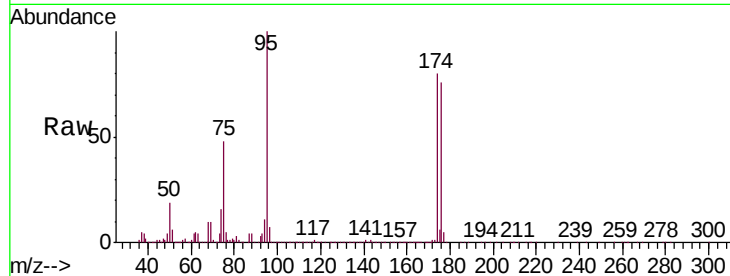




#62
4-Bromofluorobenzene
Concen: 52.169 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

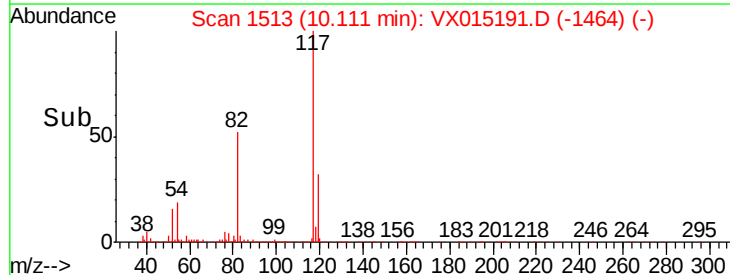
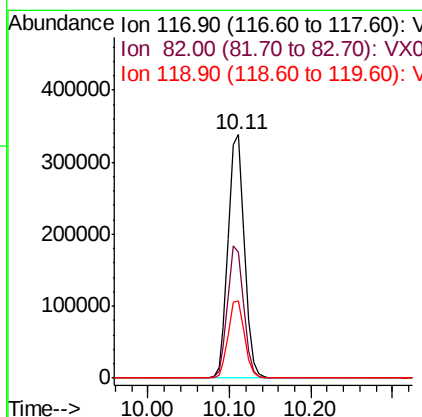
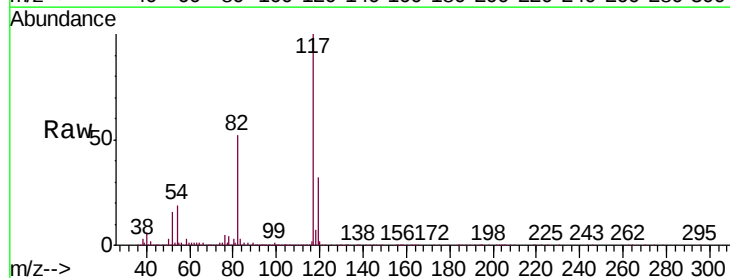
Instrument :
MSVOA_X
ClientSampled :
MW-4

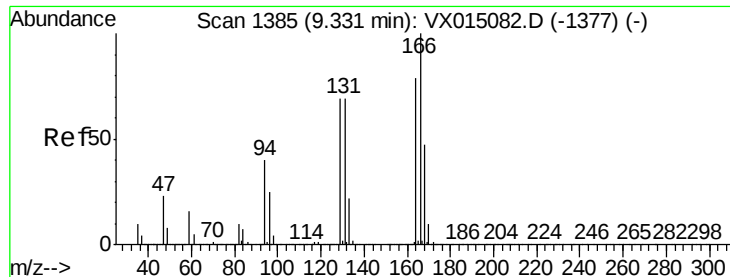
Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.5	0.0	177.6
176	87.0	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.8	43.3	64.9
119	32.0	25.8	38.8





#64

Tetrachloroethene

Concen: 0.295 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

Instrument :

MSVOA_X

ClientSampled :

MW-4

Tgt Ion:164 Resp: 1131

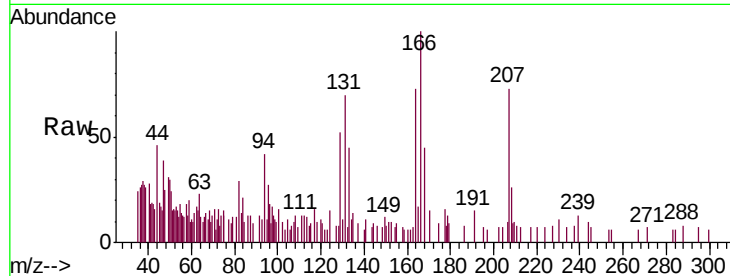
Ion Ratio Lower Upper

164 100

166 118.1 101.1 151.7

129 70.9 69.4 104.0

131 95.6 69.8 104.8

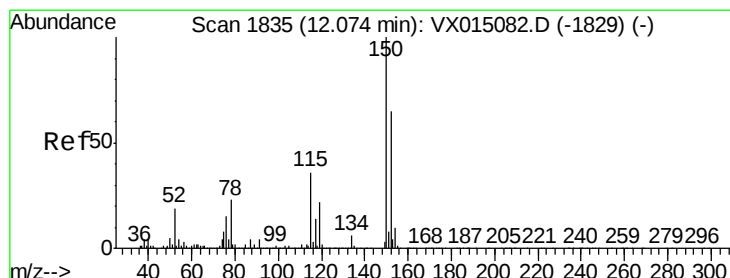
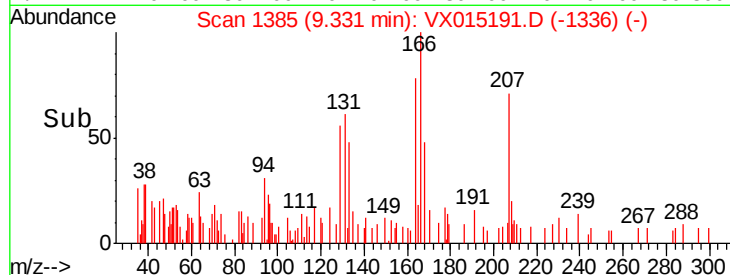
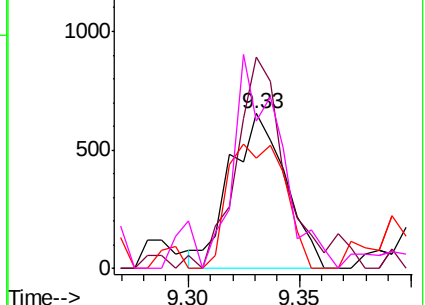


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

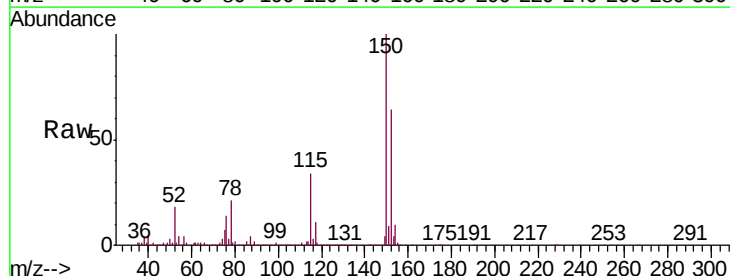
Tgt Ion:152 Resp: 232479

Ion Ratio Lower Upper

152 100

115 54.7 38.2 114.6

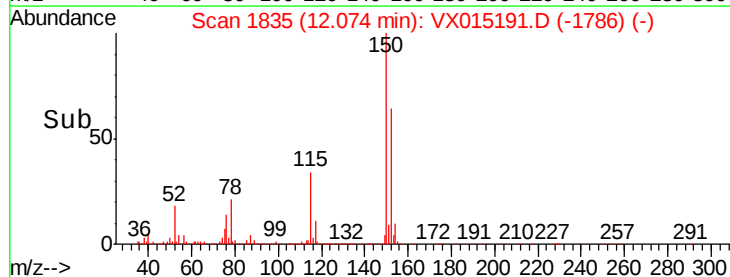
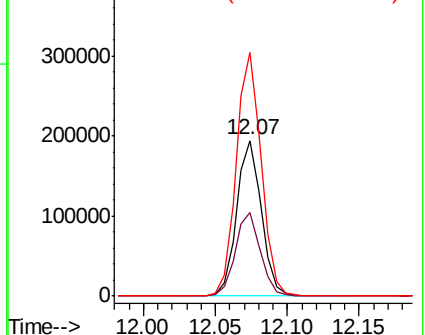
150 158.5 0.0 343.8

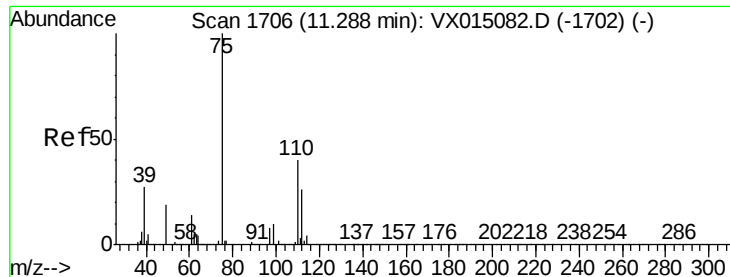


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.001 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

Instrument :

MSVOA_X

ClientSampled :

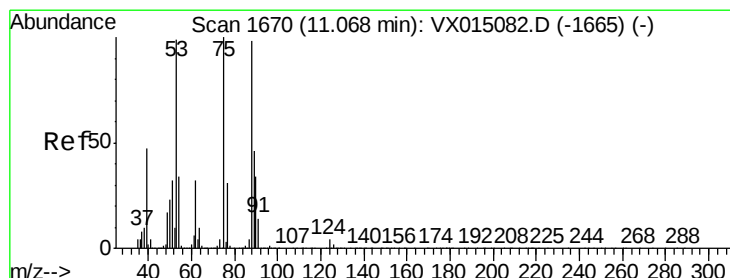
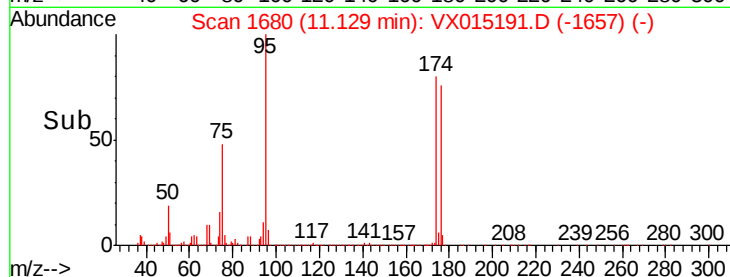
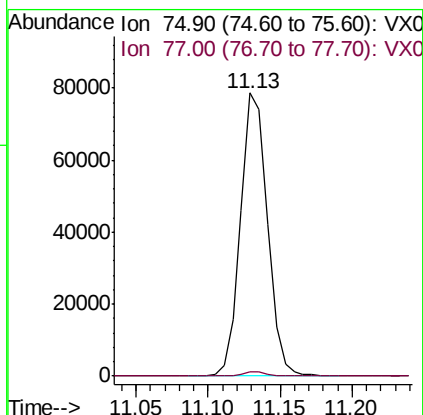
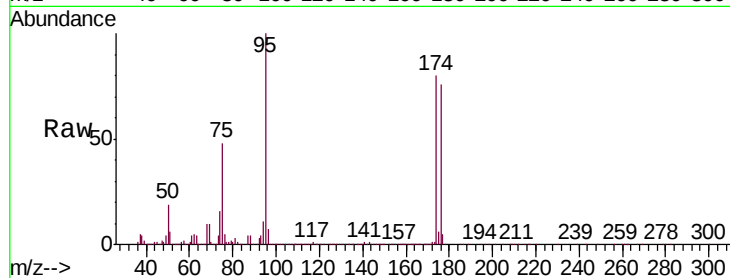
MW-4

Tgt Ion: 75 Resp: 102025

Ion Ratio Lower Upper

75 100

77 1.5 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.440 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015191.D

Acq: 11 Mar 2020 11:38

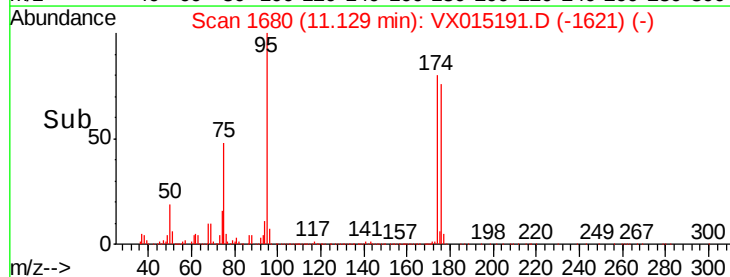
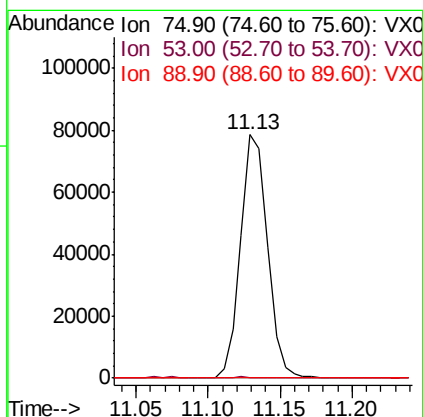
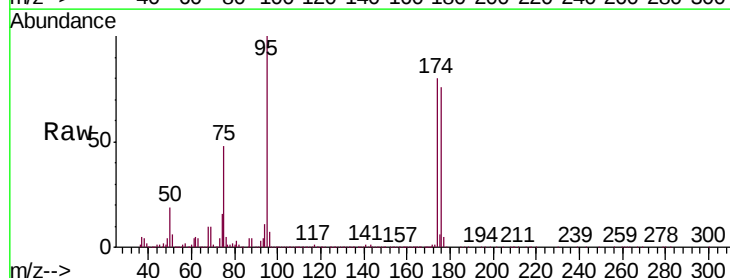
Tgt Ion: 75 Resp: 102025

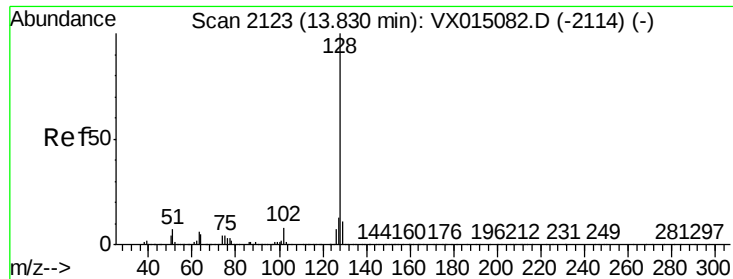
Ion Ratio Lower Upper

75 100

53 0.2 77.9 116.9#

89 0.0 36.2 54.2#





#95
Naphthalene
Concen: 1.517 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015191.D
Acq: 11 Mar 2020 11:38

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Tgt Ion	Ratio	Lower	Upper
128	100		
127	16.2	10.3	15.5#
129	0.0	8.6	13.0#

