

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042619\
 Data File : VX009185.D
 Acq On : 26 Apr 2019 13:26
 Operator : JC/SP
 Sample : K2581-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-02

Quant Time: Apr 27 04:01:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	209310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	335005	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	293472	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	129615	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	138340	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
35) Dibromofluoromethane	5.50	113	102342	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
50) Toluene-d8	8.71	98	420786	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
62) 4-Bromofluorobenzene	11.13	95	144541	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	

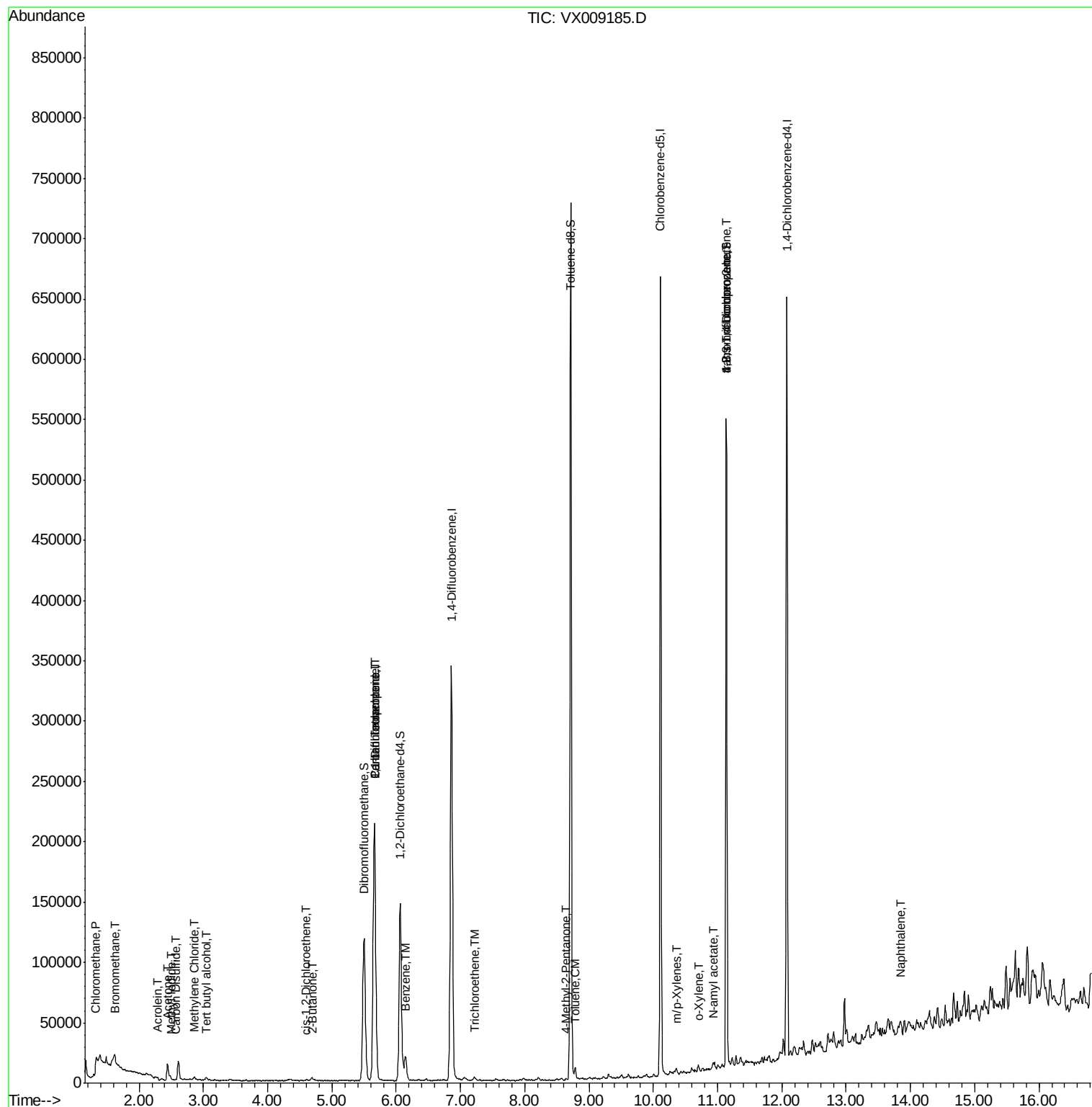
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1319	0.446	ug/l #	52
5) Bromomethane	1.64	94	201	3.951	ug/l #	7
10) Methyl Iodide	2.51	142	115	4.459	ug/l #	42
11) Tert butyl alcohol	3.04	59	2363	3.609	ug/l #	78
13) Acrolein	2.29	56	188	0.332	ug/l #	14
16) Acetone	2.44	43	14263	9.324	ug/l	98
17) Carbon Disulfide	2.57	76	1425	1.463	ug/l #	43
20) Methylene Chloride	2.86	84	1024	0.391	ug/l #	80
25) 2-Butanone	4.70	43	4052	1.657	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	556	0.205	ug/l	89
28) Bromochloromethane	5.03	49	82	Below Cal	#	21
36) 1,1-Dichloropropene	5.66	75	16372	4.725	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19792	6.738	ug/l #	18
40) Benzene	6.15	78	23005	2.251	ug/l	93
44) Trichloroethene	7.21	130	884	0.353	ug/l	86
51) 4-Methyl-2-Pentanone	8.64	43	969	0.212	ug/l #	85
52) Toluene	8.79	92	3076	0.502	ug/l	88
68) m/p-Xylenes	10.36	106	1139	0.277	ug/l #	70
69) o-Xylene	10.70	106	943	0.236	ug/l	73
74) N-amyl acetate	10.93	43	1989	0.353	ug/l #	69
76) 1,2,3-Trichloropropane	11.13	75	73239	23.141	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	73239	59.409	ug/l #	11
95) Naphthalene	13.83	128	5923	0.598	ug/l	99

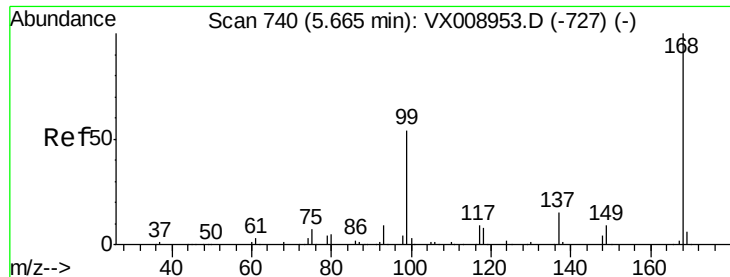
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampled :

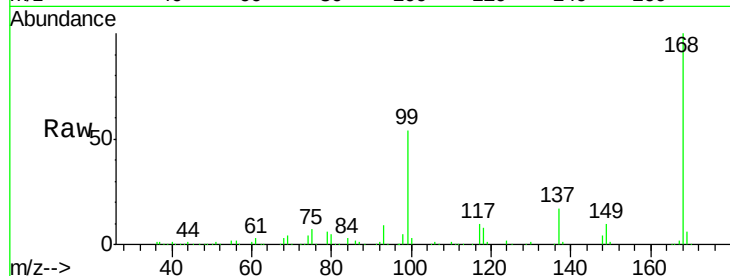
MW-02

Tot Ion:168 Resp: 209310

Ion Ratio Lower Upper

168 100

99 54.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

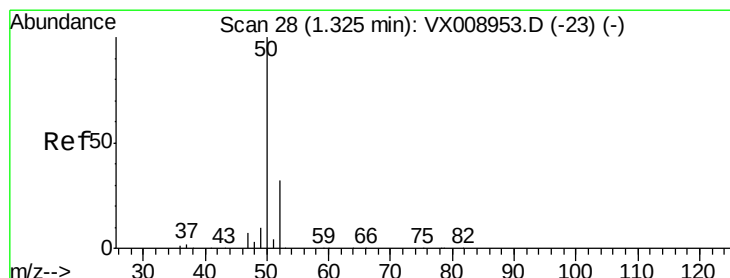
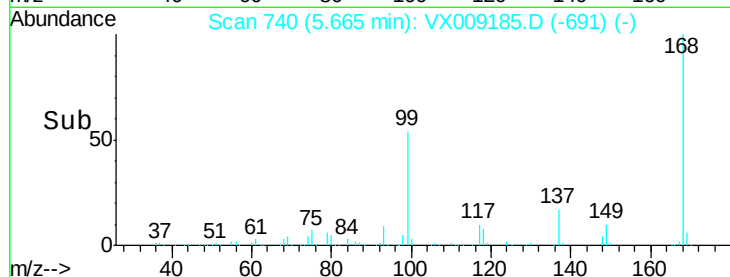
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.446 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009185.D

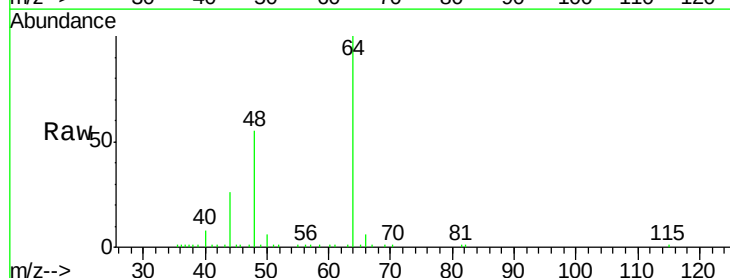
Acq: 26 Apr 2019 13:26

Tgt Ion: 50 Resp: 1319

Ion Ratio Lower Upper

50 100

52 5.2 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

300

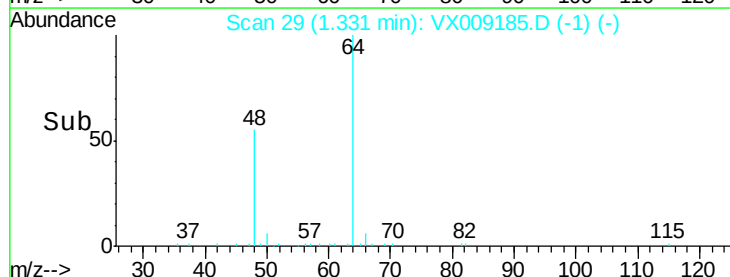
200

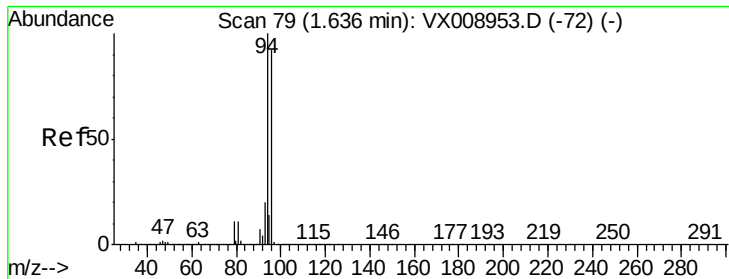
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 3.951 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampled :

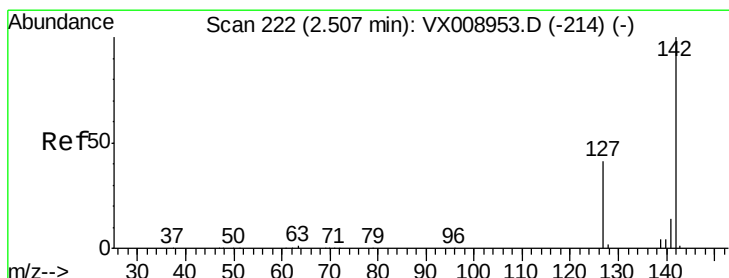
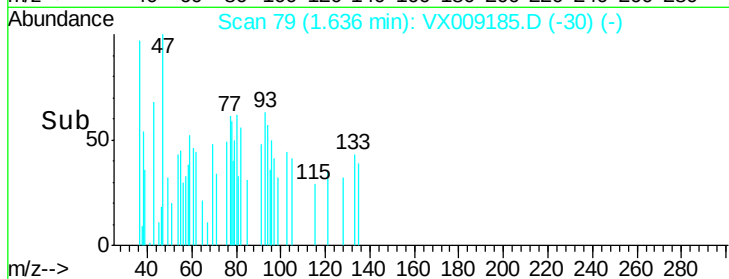
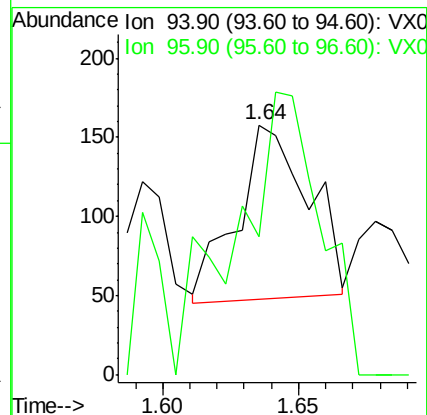
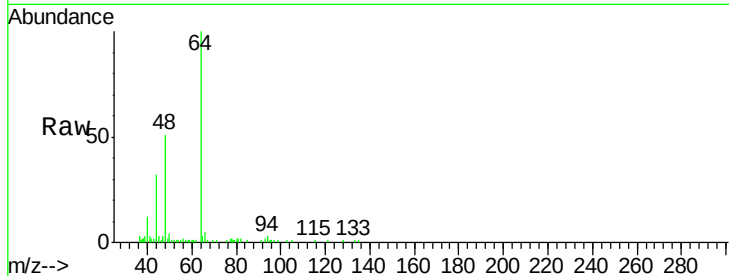
MW-02

Tot Ion: 94 Resp: 201

Ion Ratio Lower Upper

94 100

96 3.7 73.9 110.9#



#10

Methyl Iodide

Concen: 4.459 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

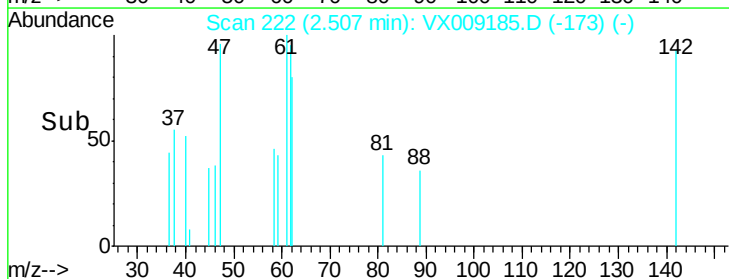
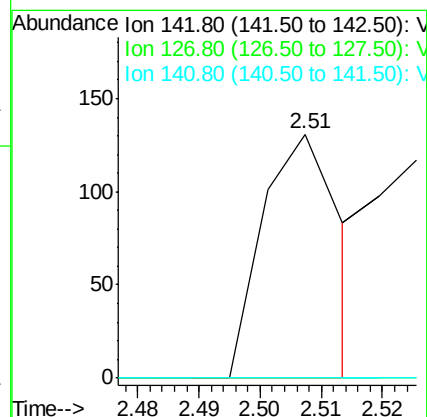
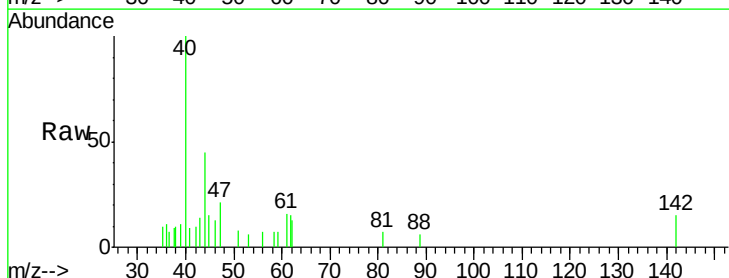
Tgt Ion: 142 Resp: 115

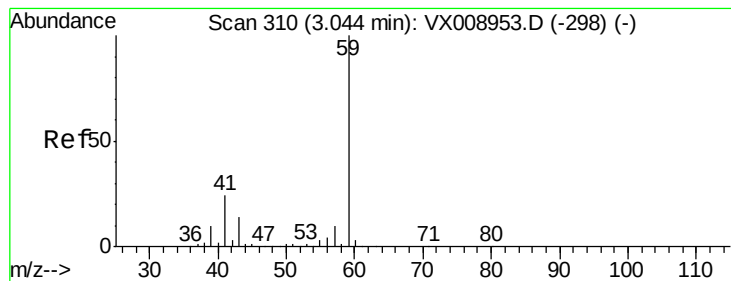
Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#



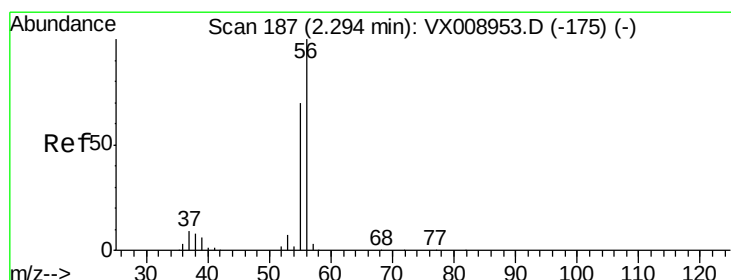
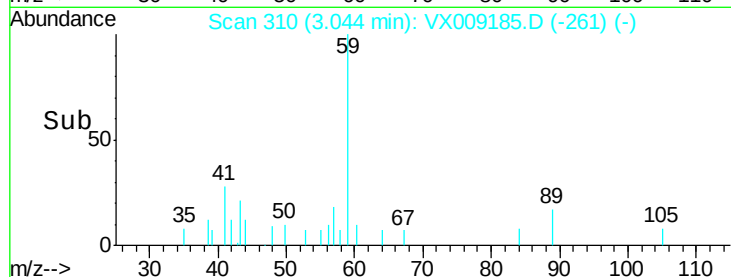
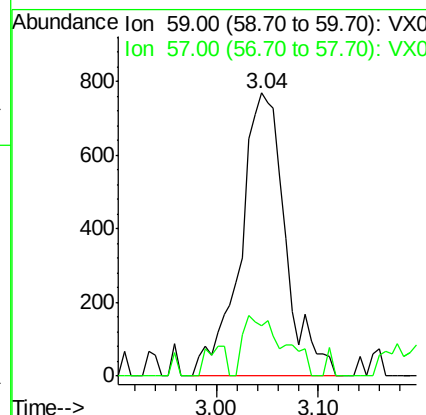
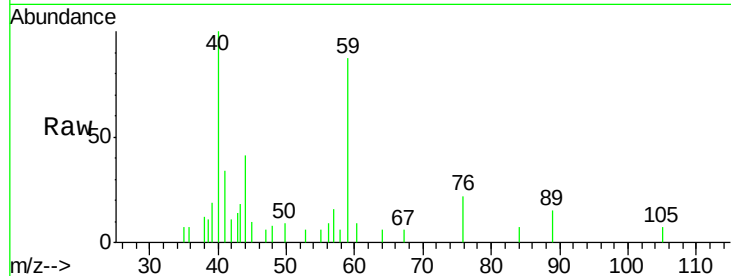


#11

Tert butyl alcohol
 Concen: 3.609 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.00 min
 Lab File: VX009185.D
 Acq: 26 Apr 2019 13:26

Instrument :
 MSVOA_X
 ClientSampled :
 MW-02

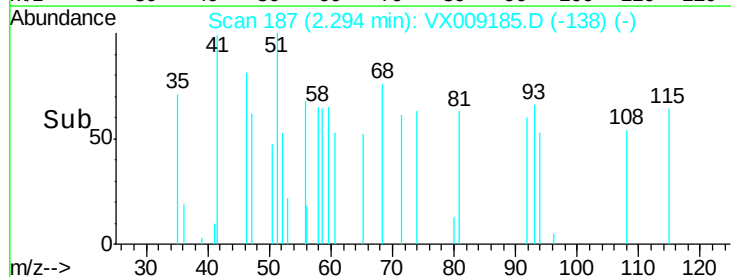
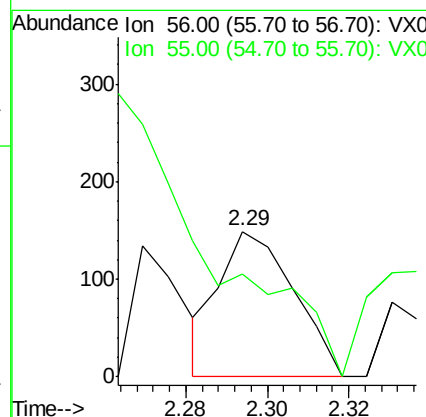
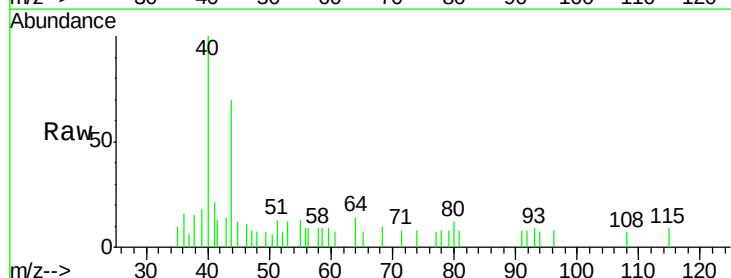
Tot Ion: 59 Resp: 2363
 Ion Ratio Lower Upper
 59 100
 57 18.7 8.4 12.6#

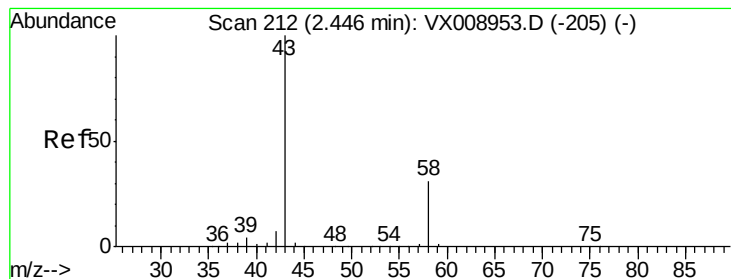


#13

Acrolein
 Concen: 0.332 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX009185.D
 Acq: 26 Apr 2019 13:26

Tgt Ion: 56 Resp: 188
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.6 84.8#





#16

Acetone

Concen: 9.324 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

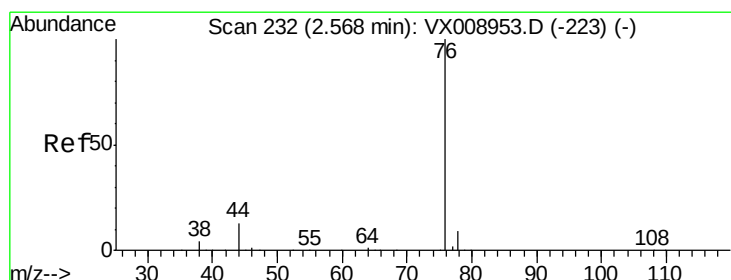
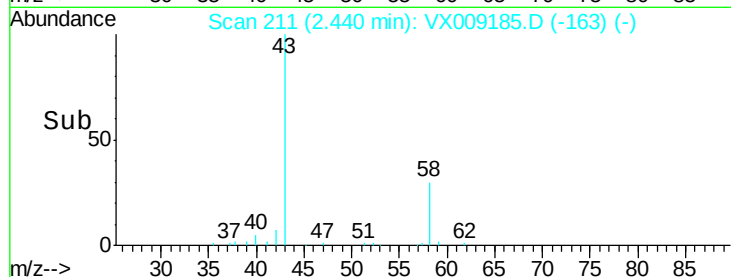
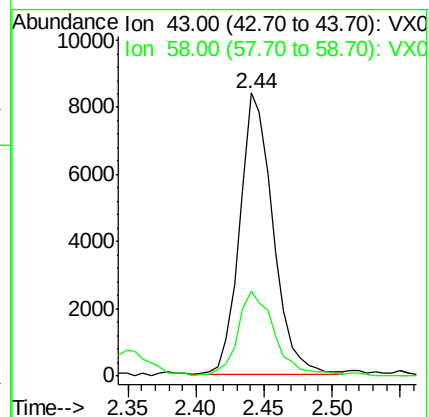
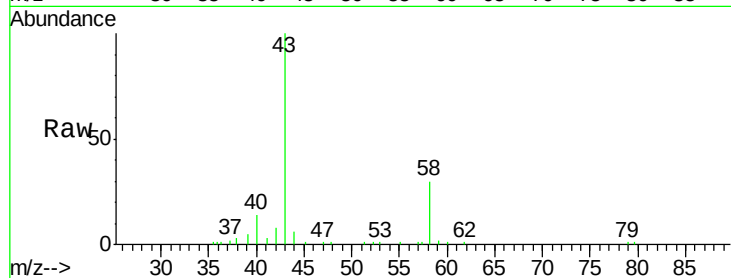
MW-02

Tot Ion: 43 Resp: 14263

Ion Ratio Lower Upper

43 100

58 30.1 24.8 37.2



#17

Carbon Disulfide

Concen: 1.463 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009185.D

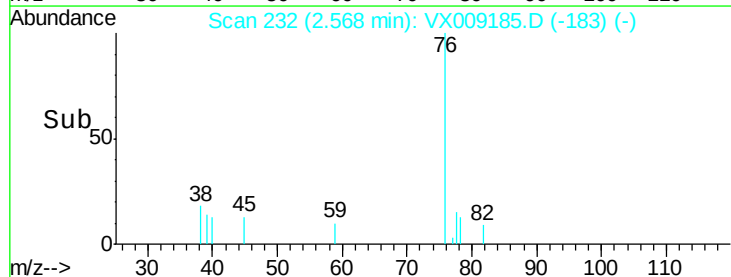
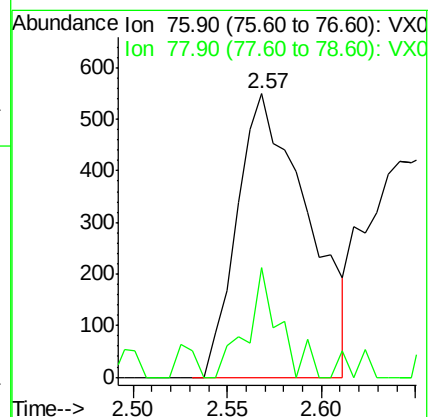
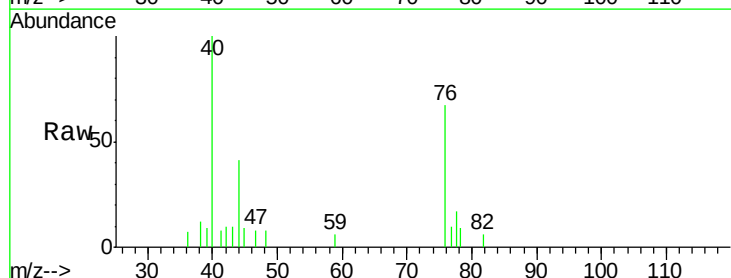
Acq: 26 Apr 2019 13:26

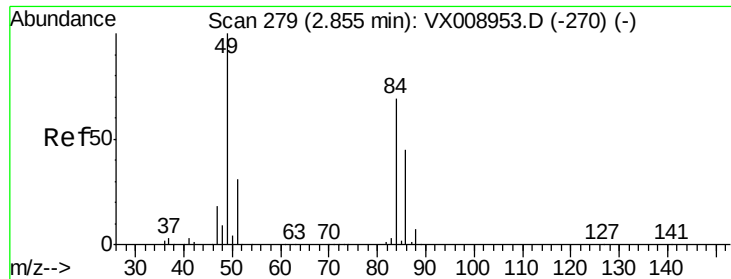
Tgt Ion: 76 Resp: 1425

Ion Ratio Lower Upper

76 100

78 29.7 7.2 10.8#

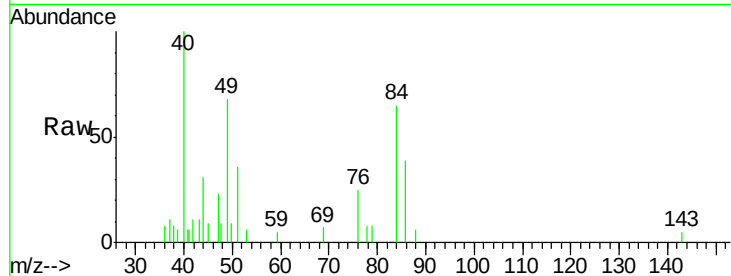




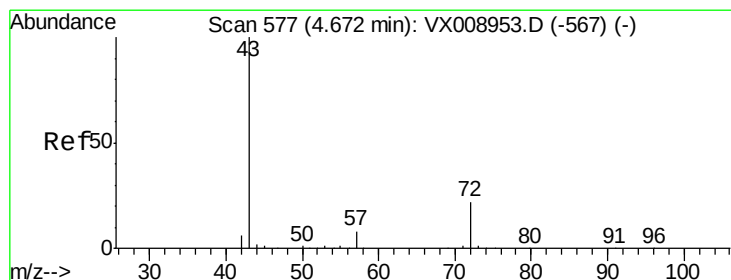
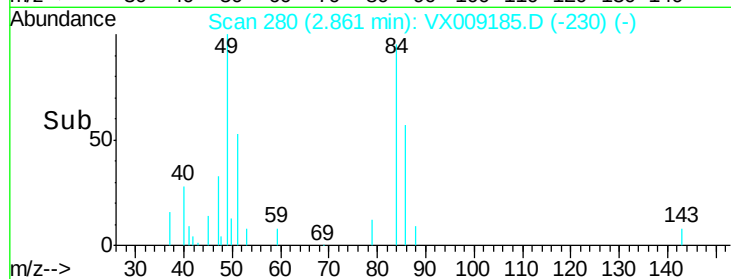
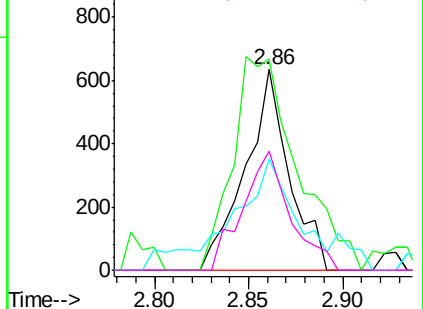
#20
Methvlene Chloride
Concen: 0.391 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009185.D
Acq: 26 Apr 2019 13:26

Instrument :
MSVOA_X
ClientSampleId :
MW-02

Tot Ion: 84 Resp: 1024
Ion Ratio Lower Upper
84 100
49 105.4 115.4 173.0#
51 45.3 35.8 53.6
86 59.6 52.1 78.1

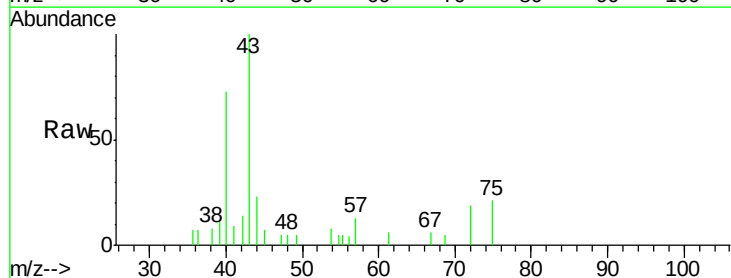


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

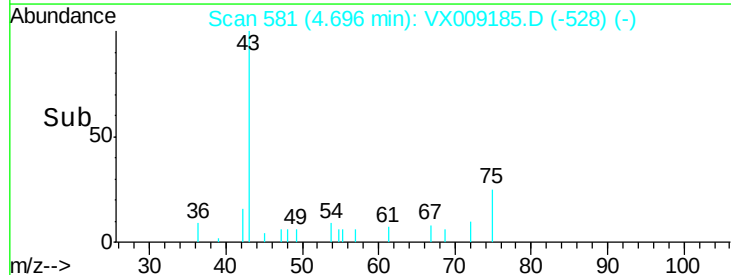
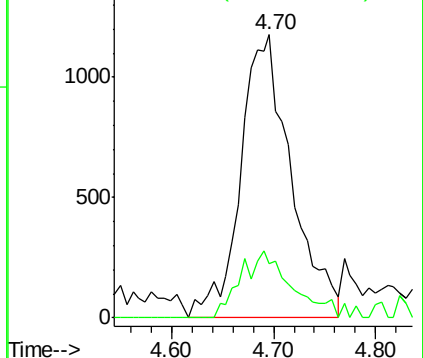


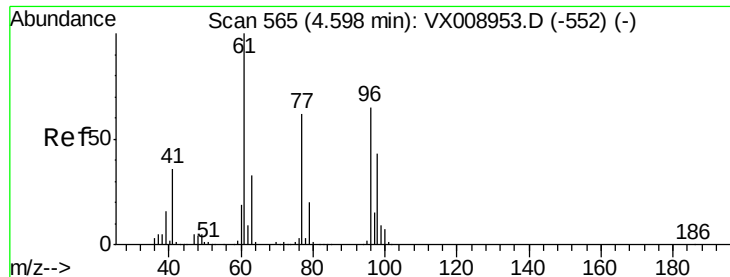
#25
2-Butanone
Concen: 1.657 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX009185.D
Acq: 26 Apr 2019 13:26

Tgt Ion: 43 Resp: 4052
Ion Ratio Lower Upper
43 100
72 19.4 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



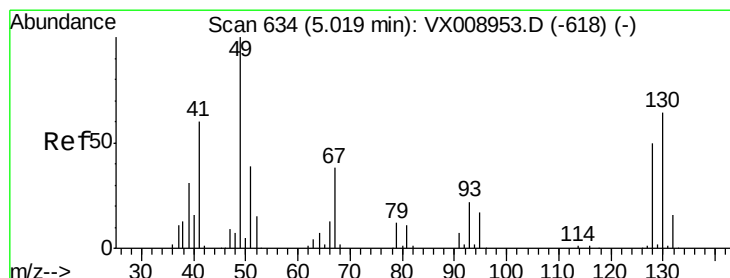
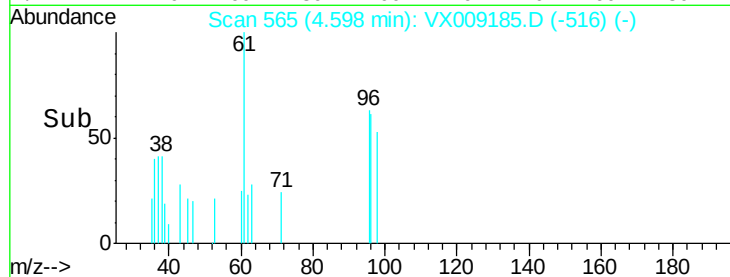
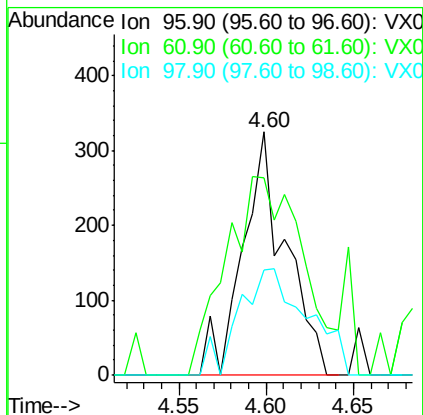
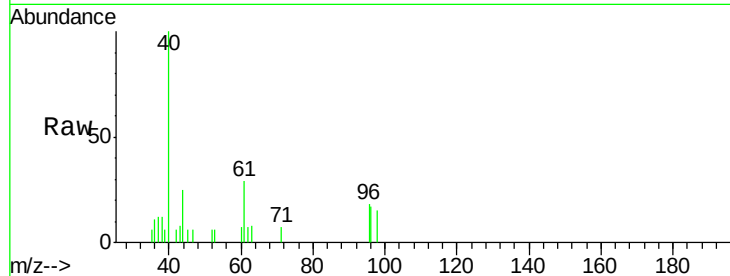


#27

cis-1,2-Dichloroethene
 Concen: 0.205 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX009185.D
 Acq: 26 Apr 2019 13:26

Instrument :
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 MW-02

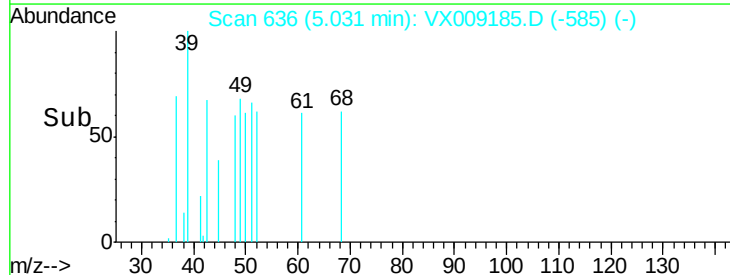
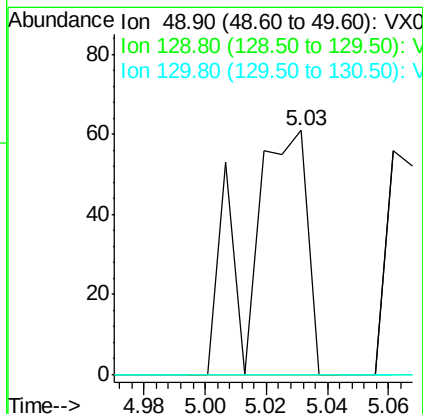
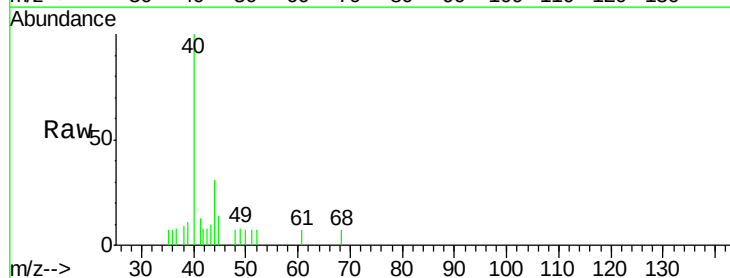
Tot Ion: 96 Resp: 556
 Ion Ratio Lower Upper
 96 100
 61 144.8 0.0 322.0
 98 70.0 0.0 128.4

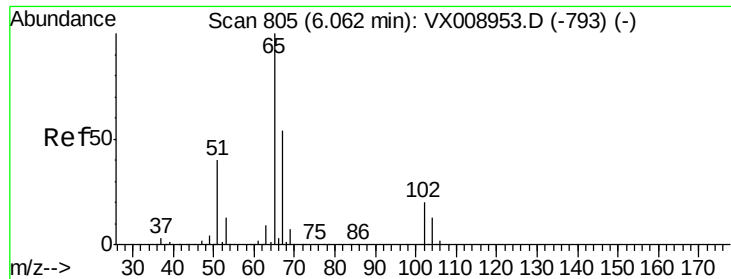


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.03 min Scan# 636
 Delta R.T. 0.01 min
 Lab File: VX009185.D
 Acq: 26 Apr 2019 13:26

Tgt Ion: 49 Resp: 82
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.6
 130 0.0 50.4 75.6#

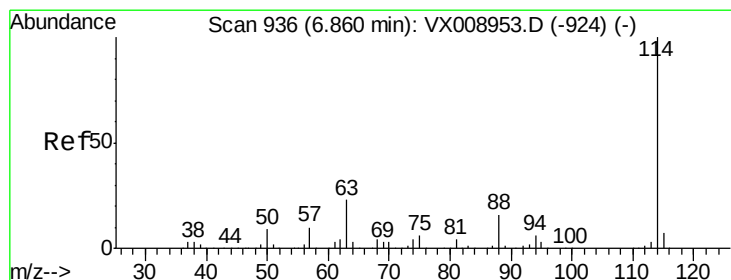
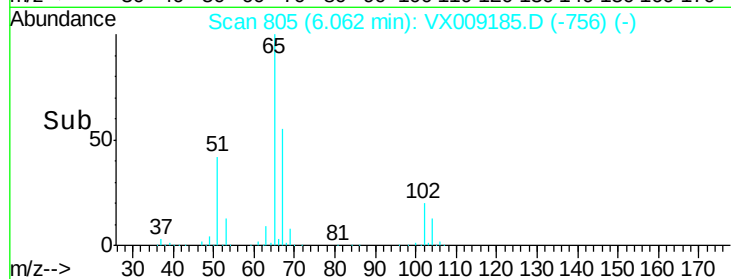
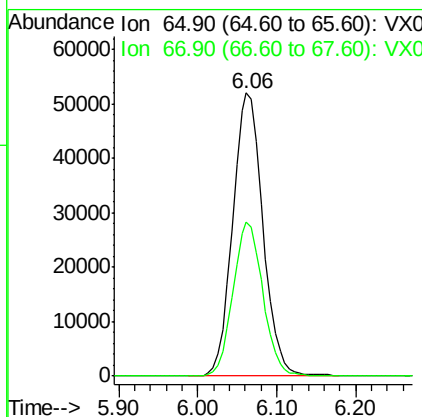
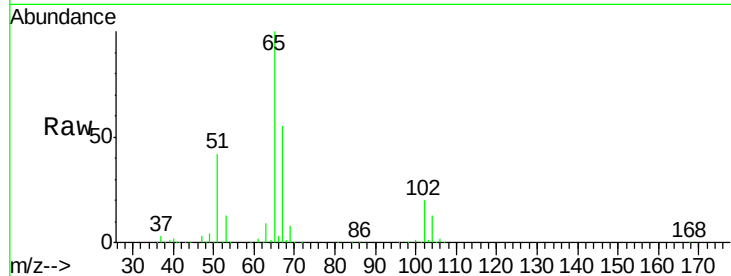




#33
 1,2-Dichloroethane-d4
 Concen: 46.899 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009185.D
 Acq: 26 Apr 2019 13:26

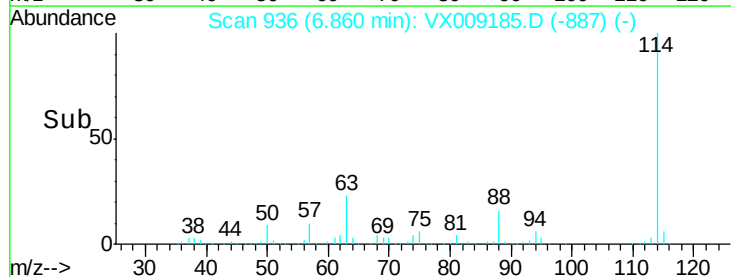
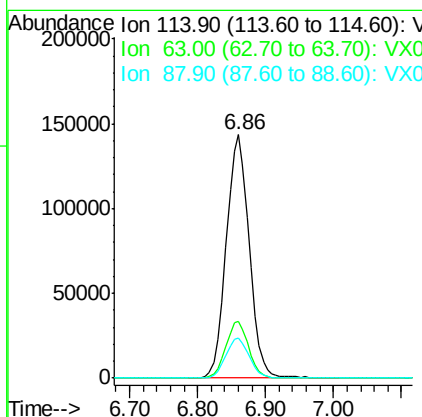
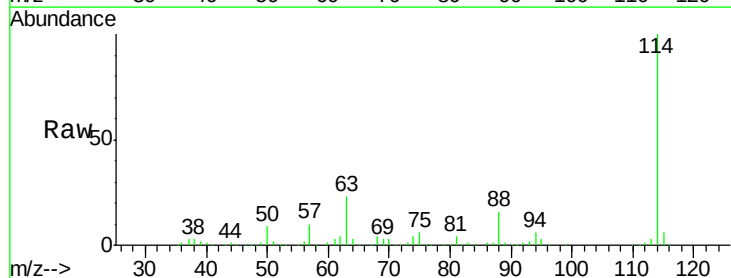
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-02

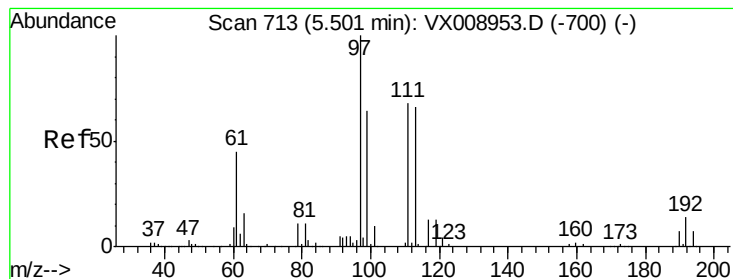
Tot Ion: 65 Resp: 138340
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009185.D
 Acq: 26 Apr 2019 13:26

Tgt Ion: 114 Resp: 335005
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.0
 88 16.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.601 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

MW-02

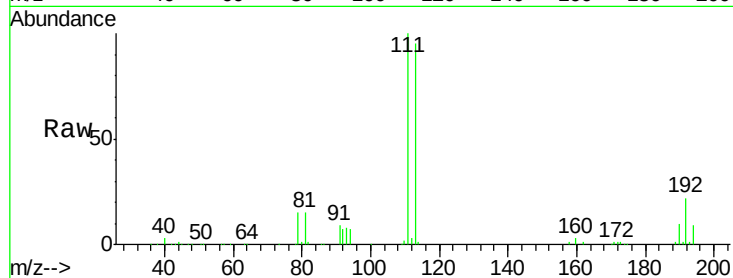
Tot Ion:113 Resp: 102342

Ion Ratio Lower Upper

113 100

111 103.2 82.9 124.3

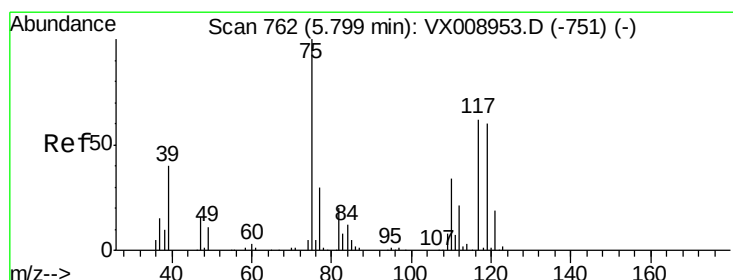
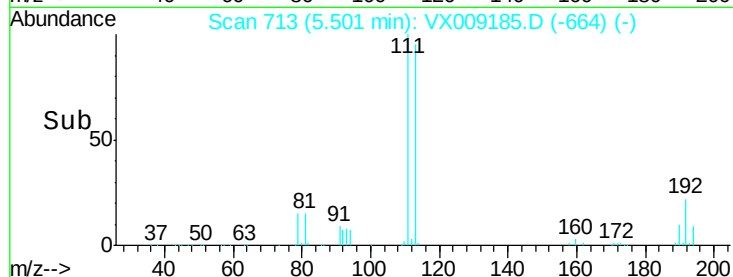
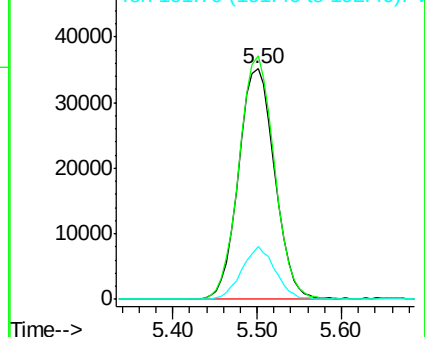
192 21.2 17.4 26.0



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: 4.725 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

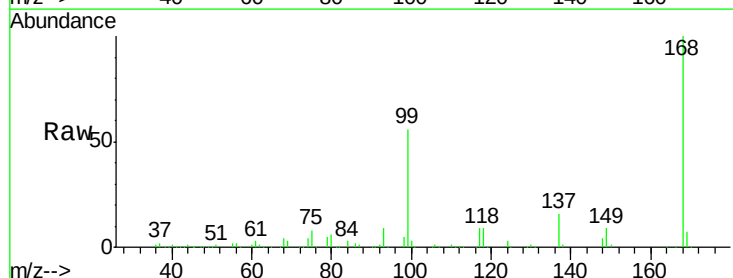
Tgt Ion: 75 Resp: 16372

Ion Ratio Lower Upper

75 100

110 8.6 16.9 50.7#

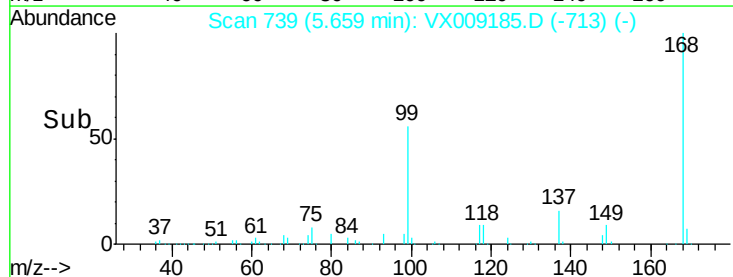
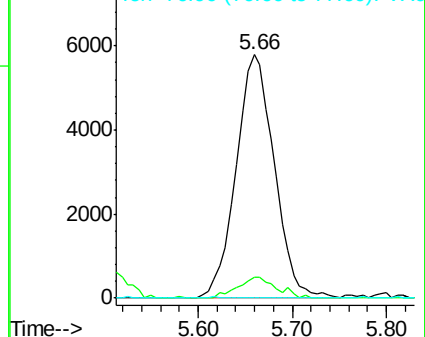
77 0.0 25.0 37.4#

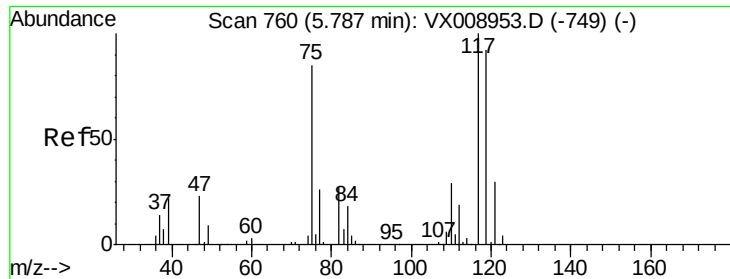


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

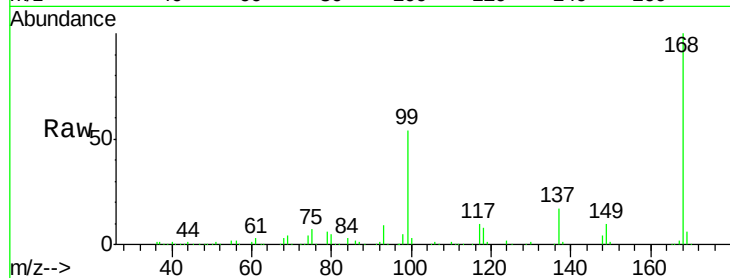




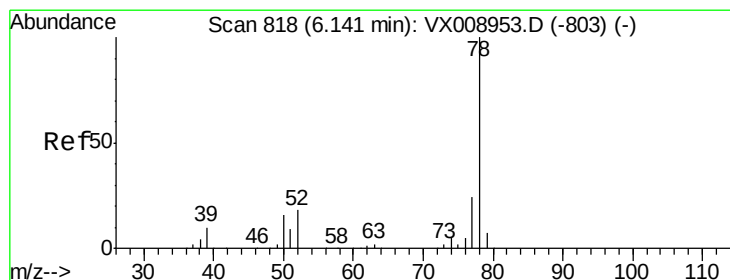
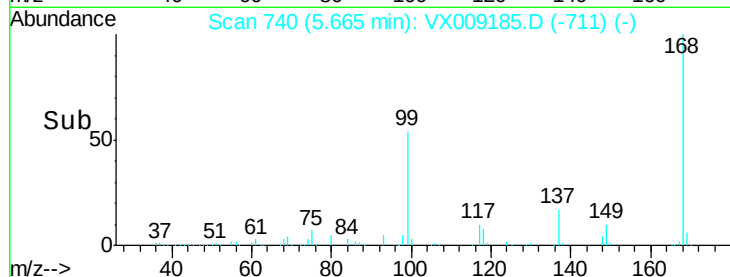
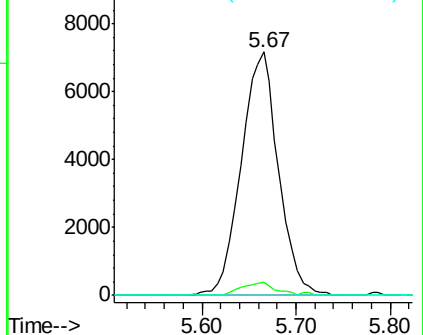
#38
Carbon Tetrachloride
Concen: 6.738 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009185.D
Acq: 26 Apr 2019 13:26

Instrument :
MSVOA_X
ClientSampled :
MW-02

Tot Ion:117 Resp: 19792
Ion Ratio Lower Upper
117 100
119 5.4 73.8 110.8#
121 0.0 23.6 35.4#

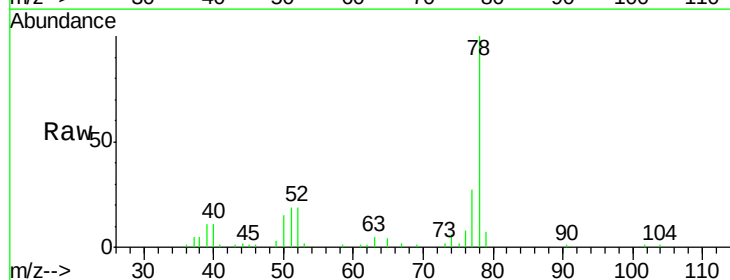


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

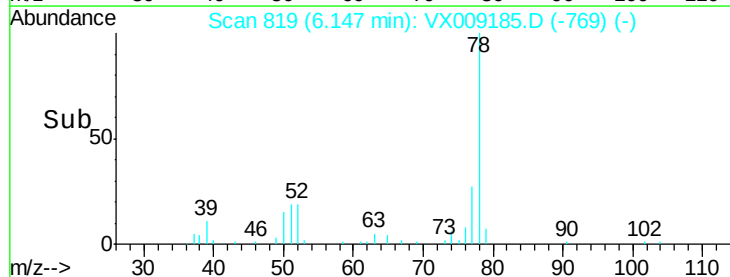
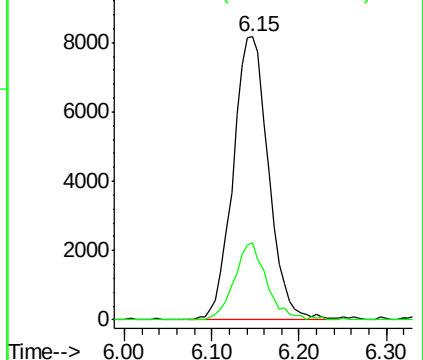


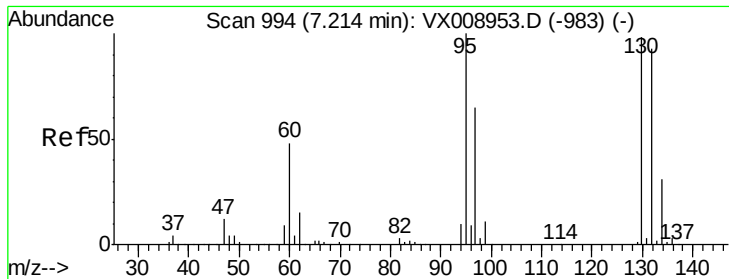
#40
Benzene
Concen: 2.251 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX009185.D
Acq: 26 Apr 2019 13:26

Tgt Ion: 78 Resp: 23005
Ion Ratio Lower Upper
78 100
77 27.4 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.353 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampled :

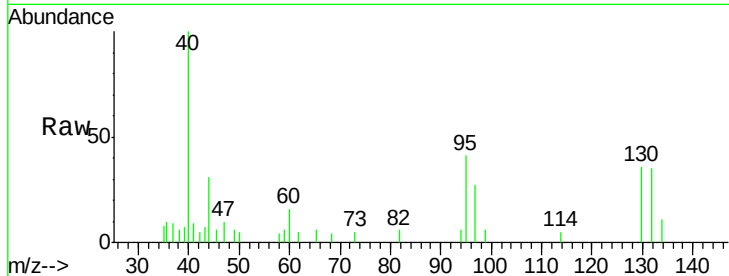
MW-02

Tot Ion:130 Resp: 884

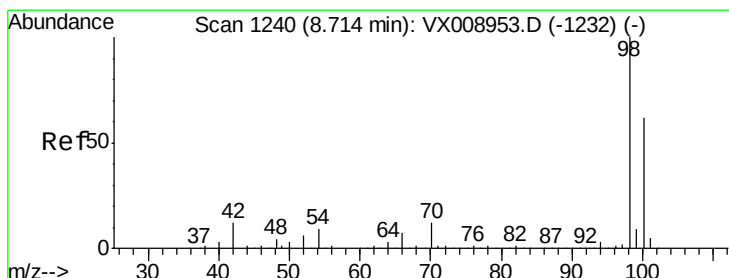
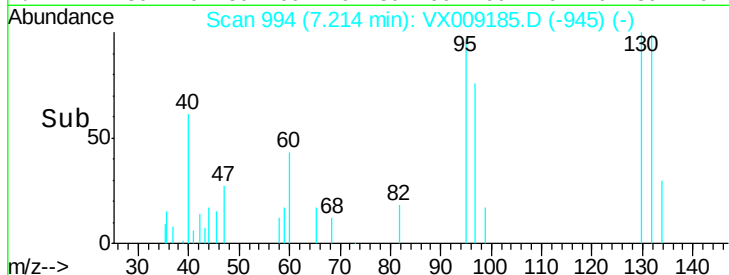
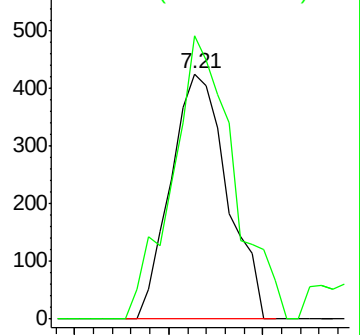
Ion Ratio Lower Upper

130 100

95 115.5 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 49.076 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009185.D

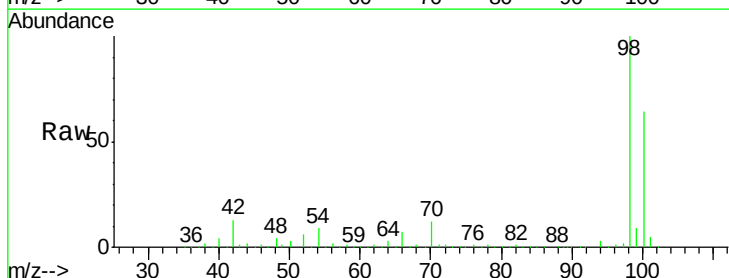
Acq: 26 Apr 2019 13:26

Tgt Ion: 98 Resp: 420786

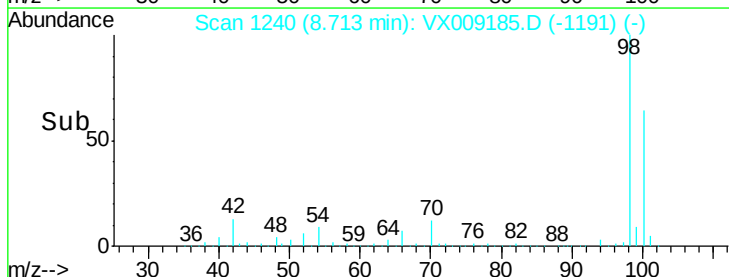
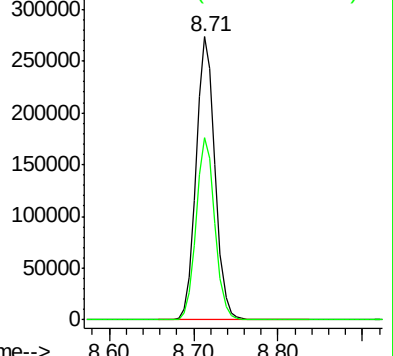
Ion Ratio Lower Upper

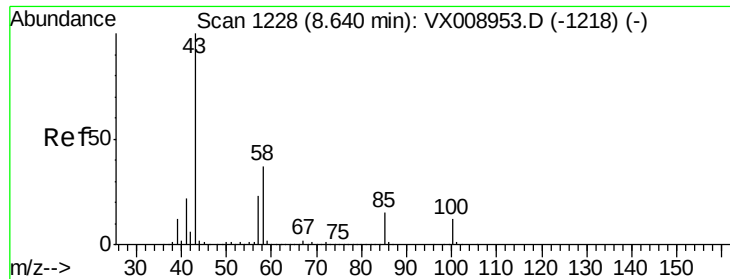
98 100

100 63.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.212 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampled :

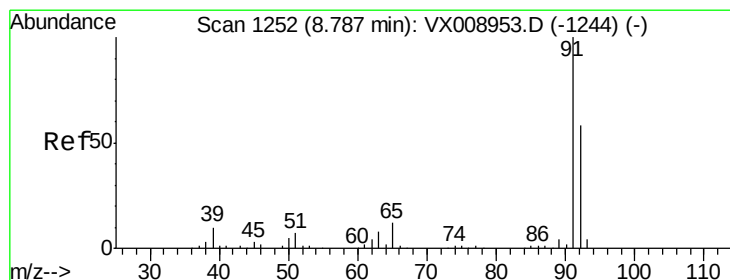
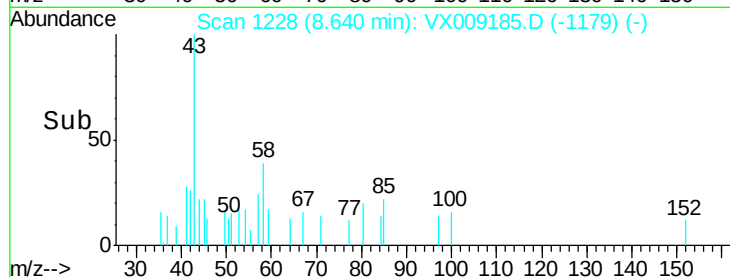
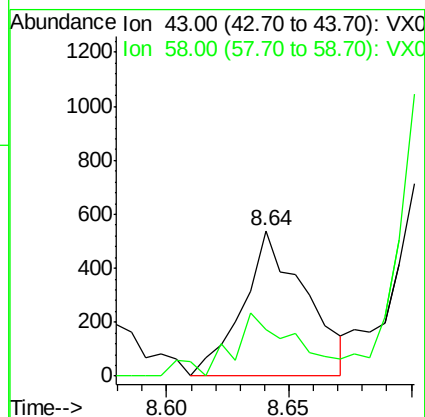
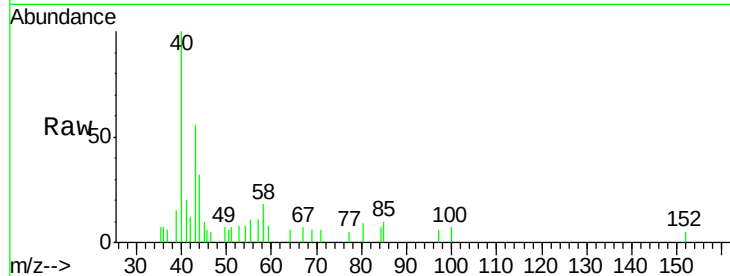
MW-02

Tot Ion: 43 Resp: 969

Ion Ratio Lower Upper

43 100

58 46.1 29.8 44.6#



#52

Toluene

Concen: 0.502 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX009185.D

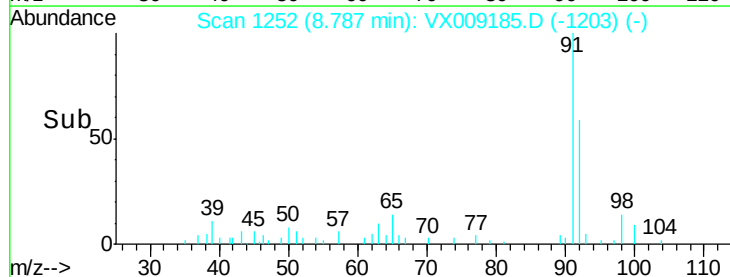
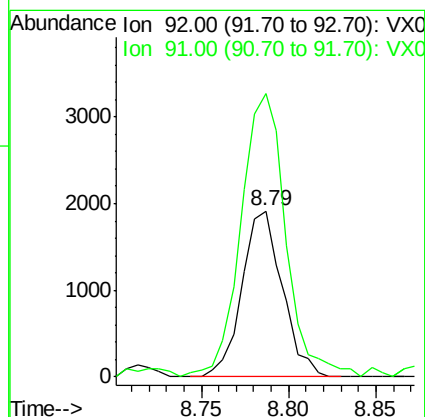
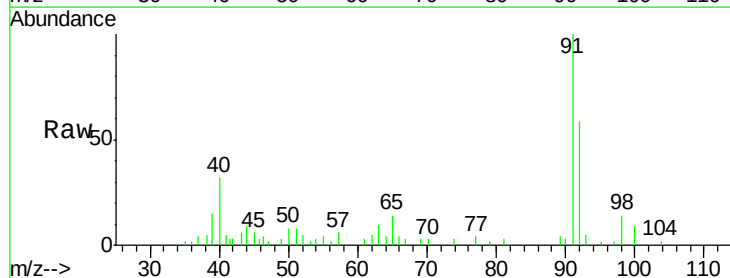
Acq: 26 Apr 2019 13:26

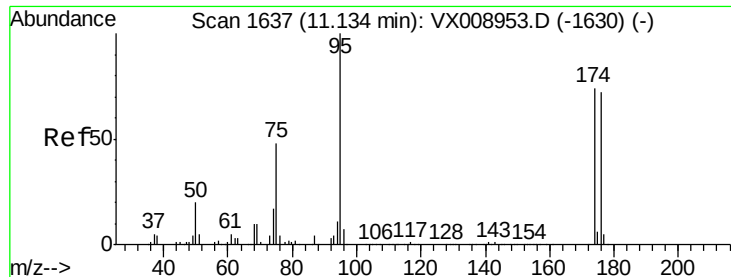
Tgt Ion: 92 Resp: 3076

Ion Ratio Lower Upper

92 100

91 189.5 138.5 207.7





#62

4-Bromofluorobenzene

Concen: 47.755 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

MW-02

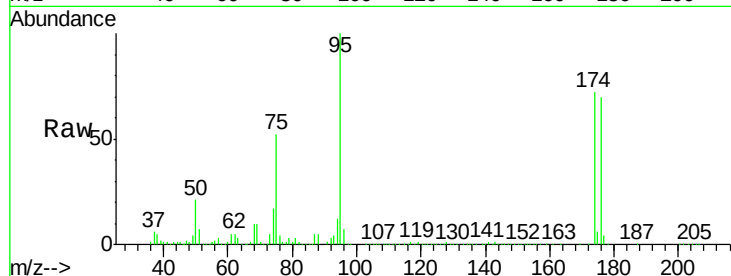
Tot Ion: 95 Resp: 144541

Ion Ratio Lower Upper

95 100

174 79.5 0.0 159.6

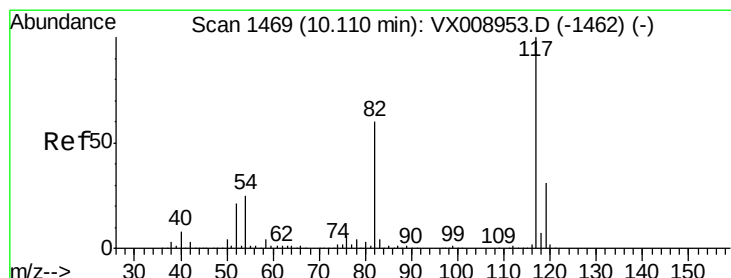
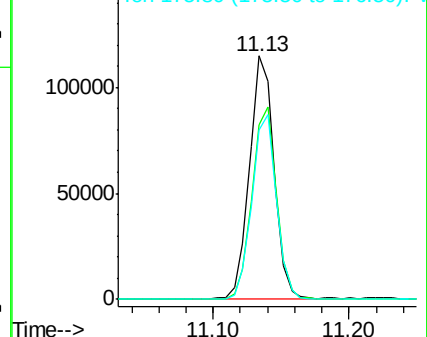
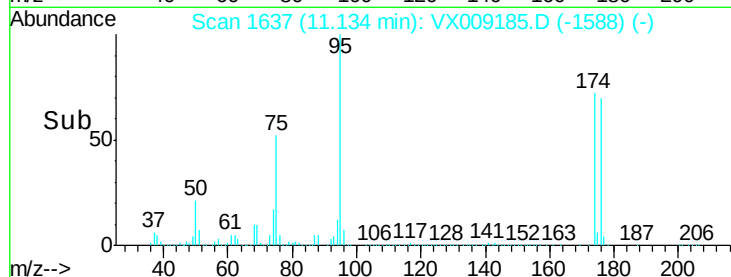
176 76.6 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX009185.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009185.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009185.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

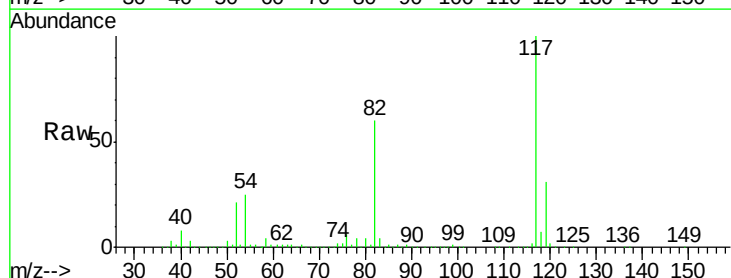
Tgt Ion: 117 Resp: 293472

Ion Ratio Lower Upper

117 100

82 59.8 48.2 72.4

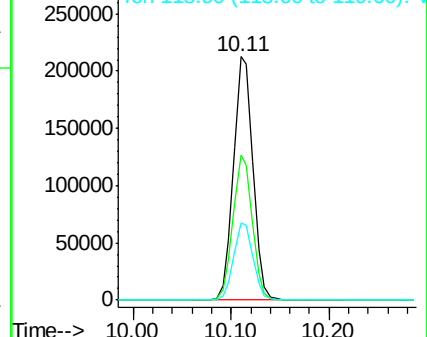
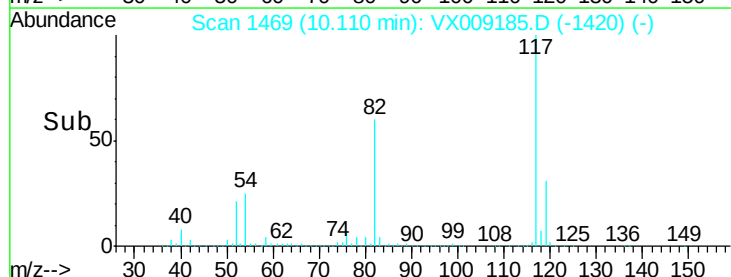
119 31.5 25.0 37.6

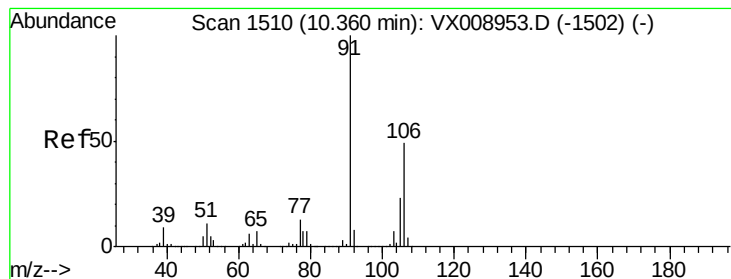


Abundance Ion 116.90 (116.60 to 117.60): VX009185.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009185.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009185.D (-1420) (-)





#68

m/p-Xylenes

Concen: 0.277 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

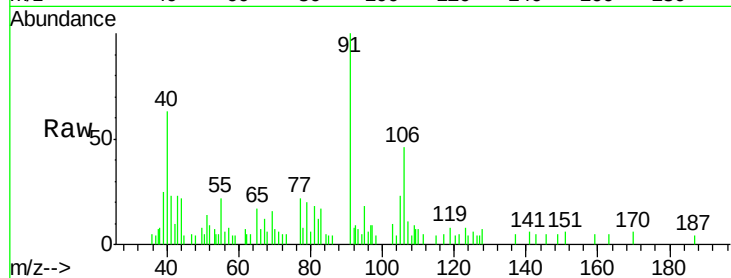
MW-02

Tot Ion:106 Resp: 1139

Ion Ratio Lower Upper

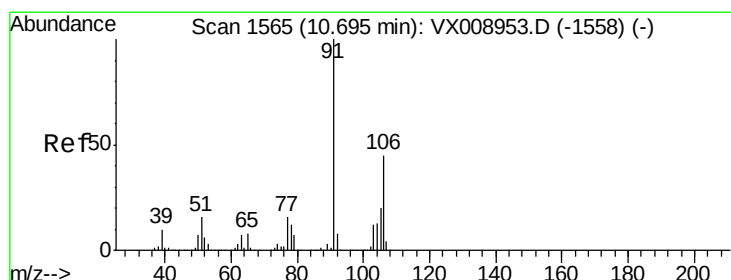
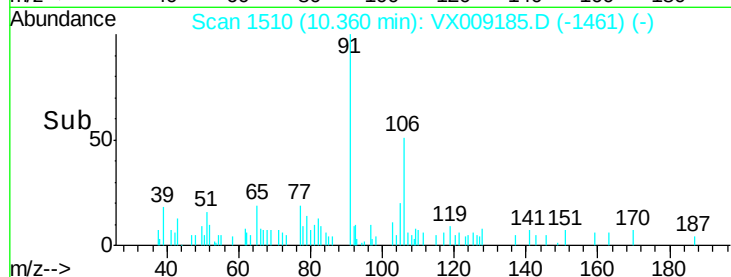
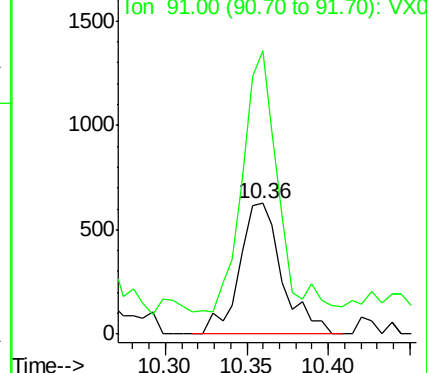
106 100

91 161.0 165.4 248.2#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.236 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VX009185.D

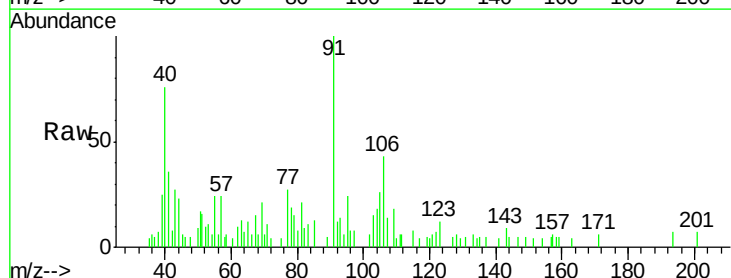
Acq: 26 Apr 2019 13:26

Tgt Ion:106 Resp: 943

Ion Ratio Lower Upper

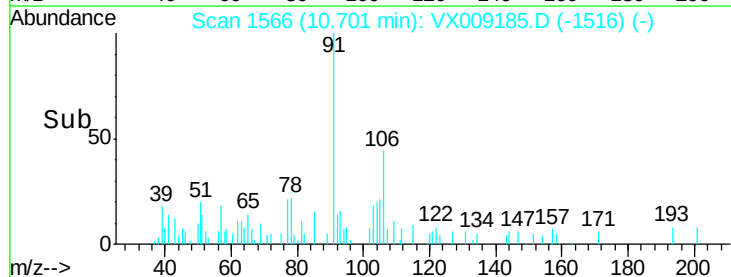
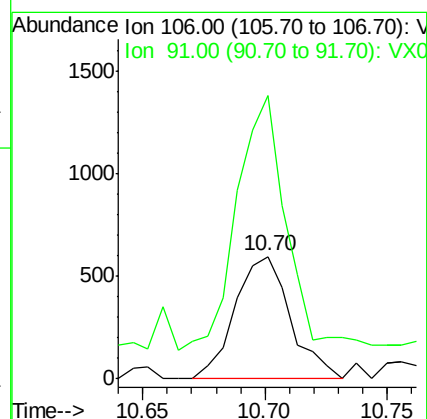
106 100

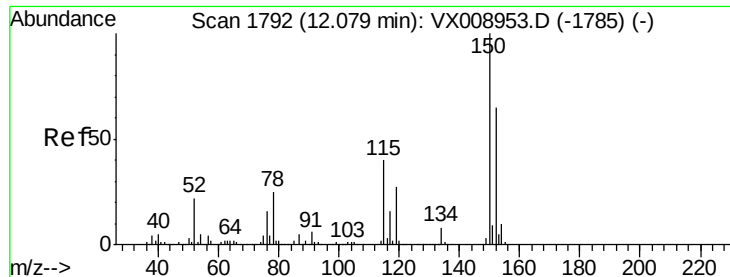
91 175.4 108.9 326.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



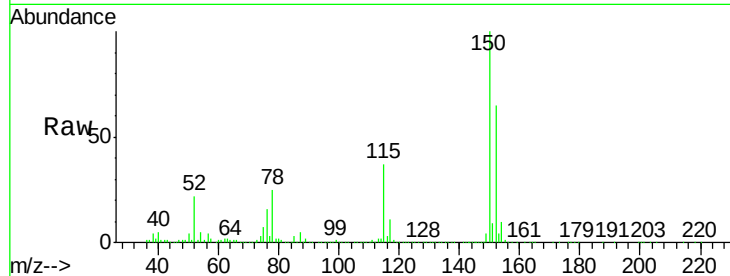


#72

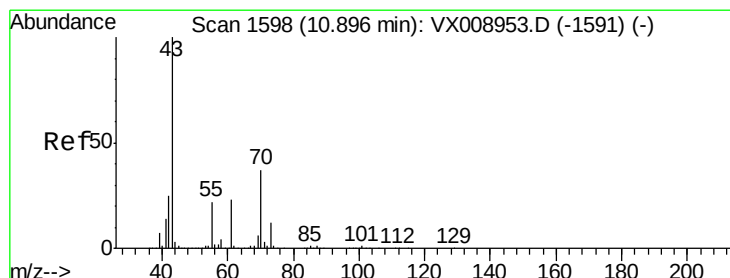
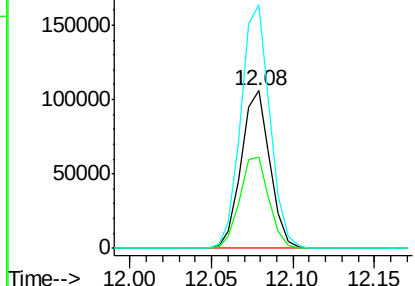
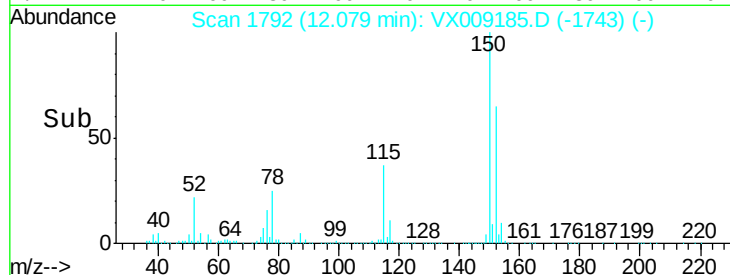
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009185.D
Acq: 26 Apr 2019 13:26

Instrument :
MSVOA_X
ClientSampleId :
MW-02

Tot Ion:152 Resp: 129615
Ion Ratio Lower Upper
152 100
115 59.2 41.4 124.2
150 157.0 0.0 349.8



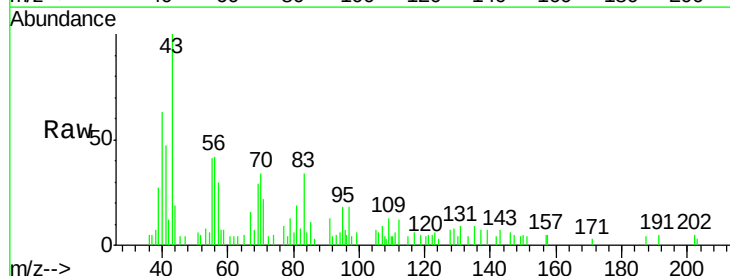
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



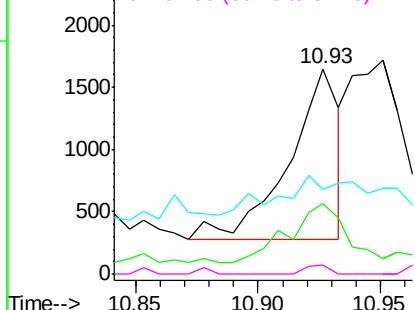
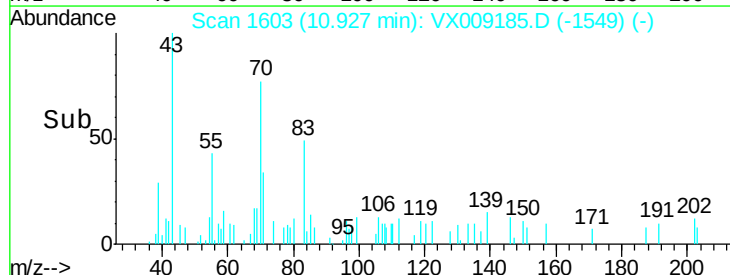
#74

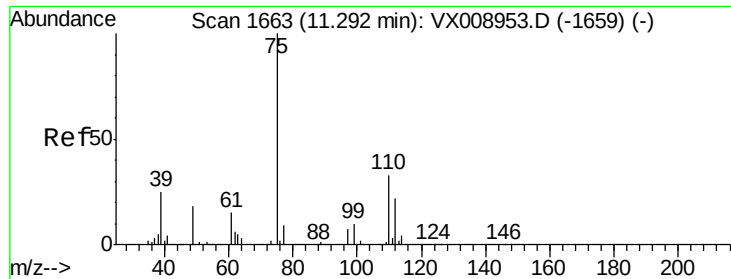
N-ethyl acetate
Concen: 0.353 ug/l
RT: 10.93 min Scan# 1603
Delta R.T. 0.03 min
Lab File: VX009185.D
Acq: 26 Apr 2019 13:26

Tgt Ion: 43 Resp: 1989
Ion Ratio Lower Upper
43 100
70 38.7 29.9 44.9
55 52.2 17.8 26.8#
61 0.0 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.141 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

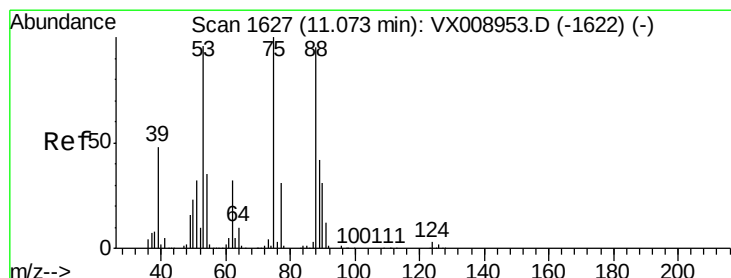
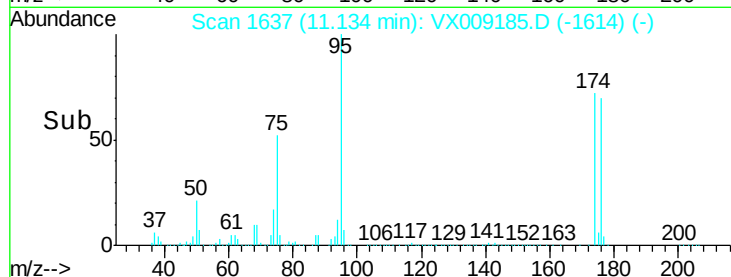
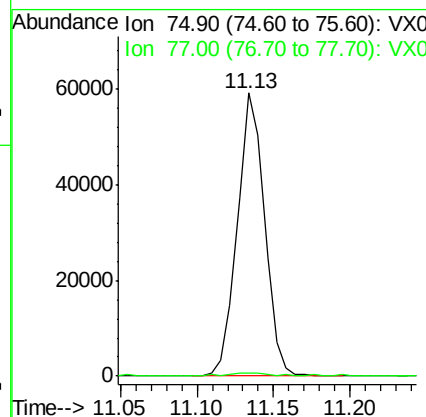
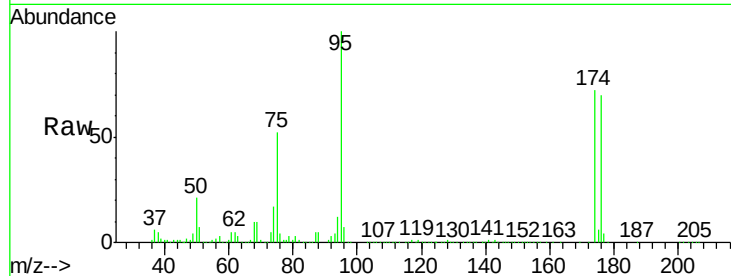
MW-02

Tot Ion: 75 Resp: 73239

Ion Ratio Lower Upper

75 100

77 1.4 22.7 68.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.409 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

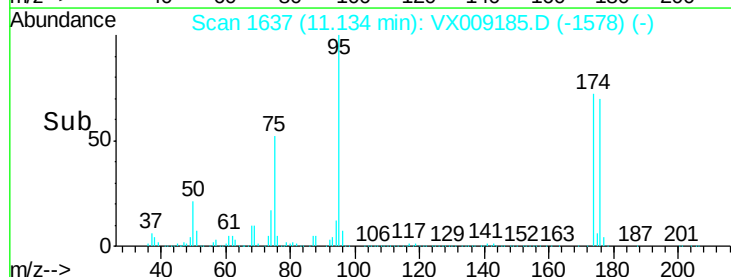
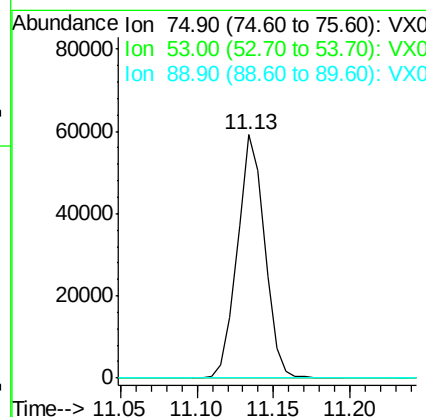
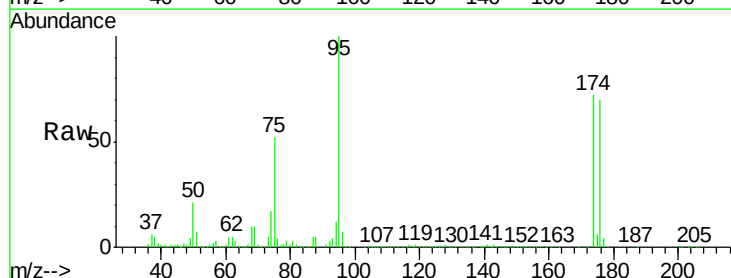
Tgt Ion: 75 Resp: 73239

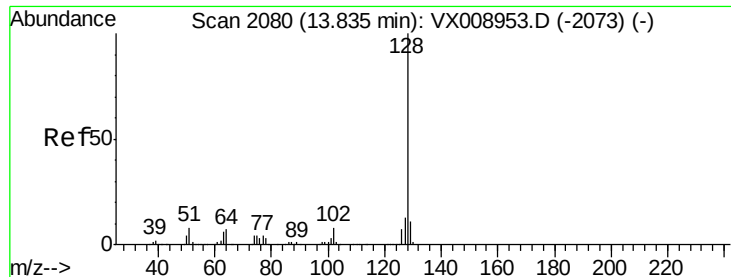
Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 0.598 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX009185.D

Acq: 26 Apr 2019 13:26

Instrument :

MSVOA_X

ClientSampleId :

MW-02

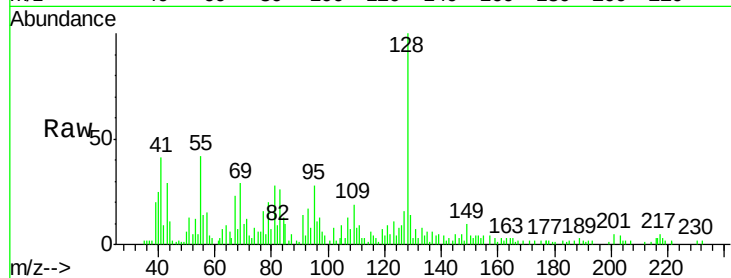
Tot Ion:128 Resp: 5923

Ion Ratio Lower Upper

128 100

127 13.8 10.6 16.0

129 11.2 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

