

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050619\
 Data File : VX009356.D
 Acq On : 06 May 2019 17:25
 Operator : JC/SP
 Sample : K2697-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1-20190502

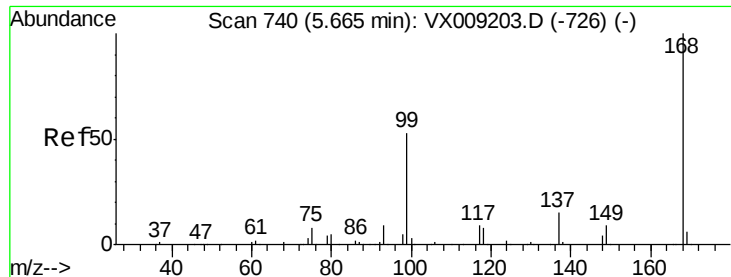
Quant Time: May 07 06:37:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 04 07:18:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	180941	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	293711	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	255445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111191	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	119131	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
35) Dibromofluoromethane	5.50	113	89889	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	8.71	98	367205	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
62) 4-Bromofluorobenzene	11.13	95	120228	44.39	ug/l	0.00
Spiked Amount			Recovery	=	88.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	971	0.427	ug/l #	83
6) Chloroethane	1.92	64	337	0.236	ug/l #	57
8) Diethyl Ether	2.19	74	934	0.731	ug/l	95
10) Methyl Iodide	2.51	142	49	4.616	ug/l #	42
11) Tert butyl alcohol	3.05	59	3489	6.102	ug/l #	89
16) Acetone	2.44	43	3447	2.599	ug/l	96
28) Bromochloromethane	5.02	49	20	Below Cal	#	20
31) Cyclohexane	5.66	56	4069	1.114	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13765	5.043	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16441	6.630	ug/l #	15
40) Benzene	6.15	78	7419	0.878	ug/l	100
74) N-amyl acetate	10.94	43	1201	0.255	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	61280	23.759	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61280	60.791	ug/l #	10
90) Hexachloroethane	12.76	117	674	0.560	ug/l #	7
95) Naphthalene	13.83	128	9371	1.156	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

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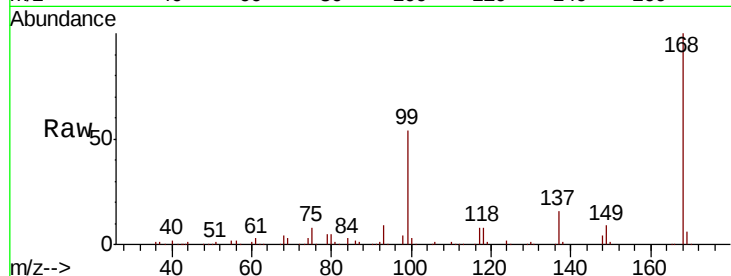
MW-1-20190502

Tot Ion:168 Resp: 180941

Ion Ratio Lower Upper

168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

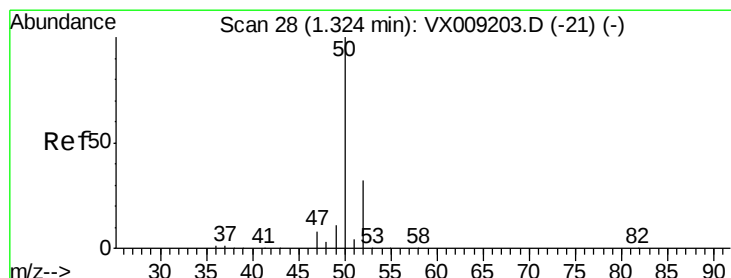
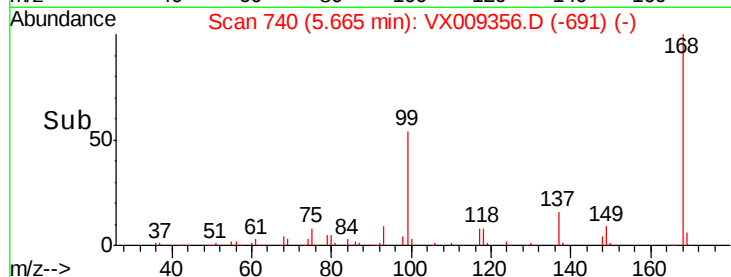
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.427 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009356.D

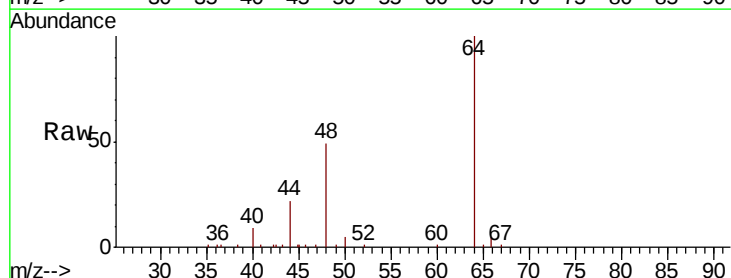
Acq: 06 May 2019 17:25

Tgt Ion: 50 Resp: 971

Ion Ratio Lower Upper

50 100

52 22.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

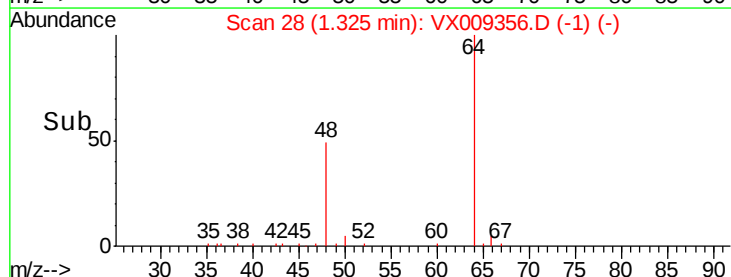
600

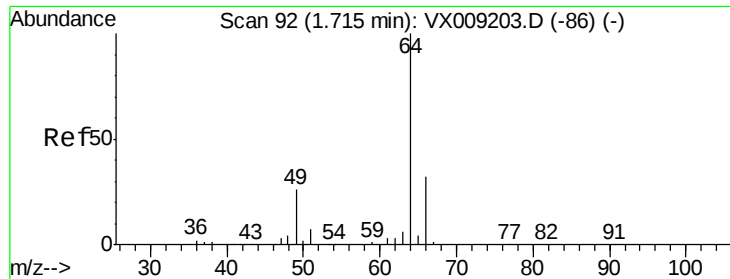
400

200

0

Time--> 1.28 1.30 1.32 1.34 1.36





#6

Chloroethane

Concen: 0.236 ug/l

RT: 1.92 min Scan# 126

Delta R.T. 0.21 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

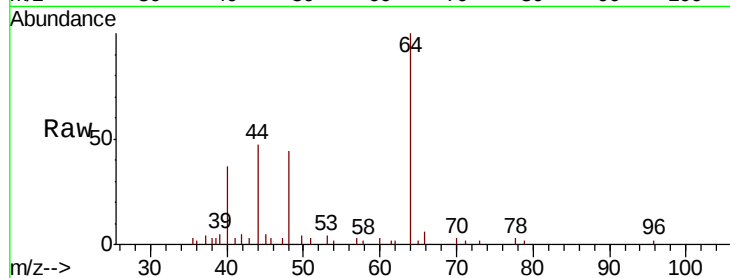
MW-1-20190502

Tot Ion: 64 Resp: 337

Ion Ratio Lower Upper

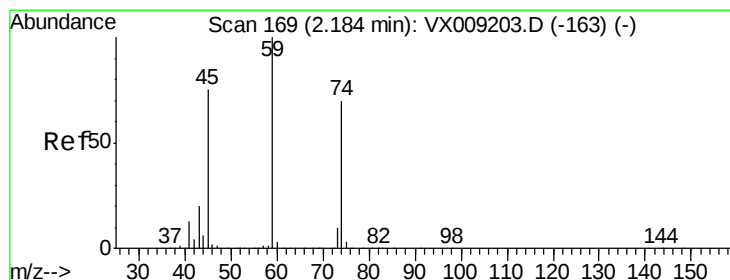
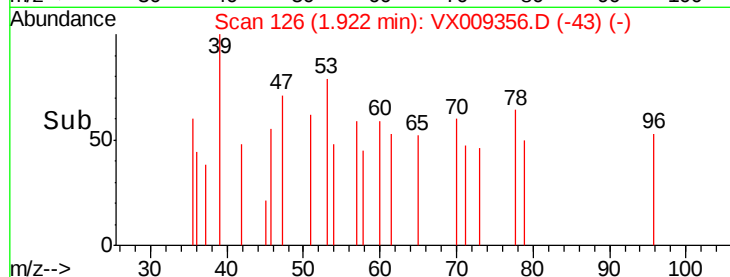
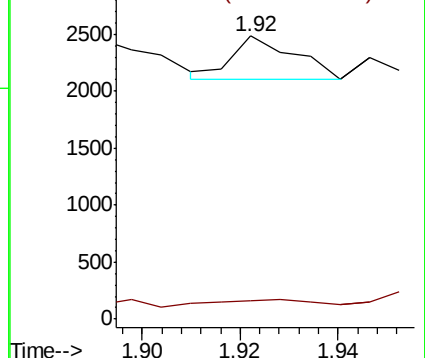
64 100

66 7.9 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.731 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX009356.D

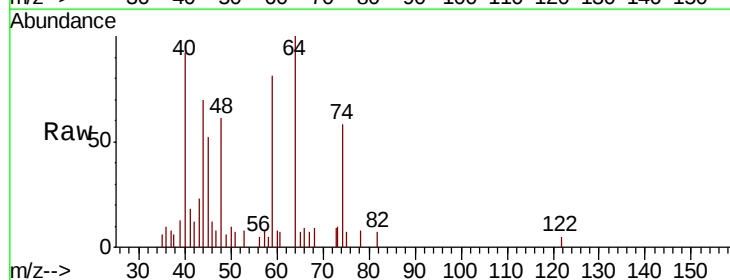
Acq: 06 May 2019 17:25

Tgt Ion: 74 Resp: 934

Ion Ratio Lower Upper

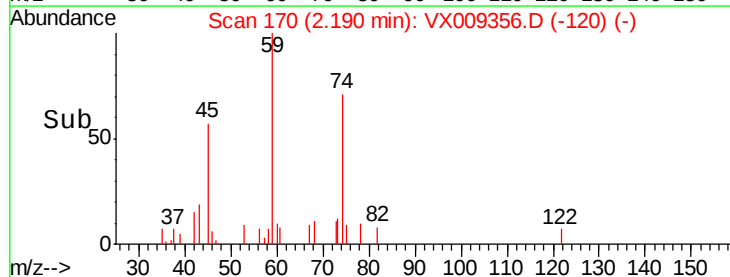
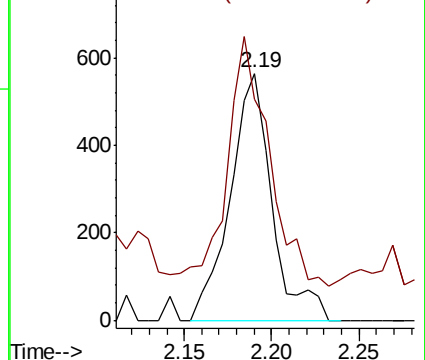
74 100

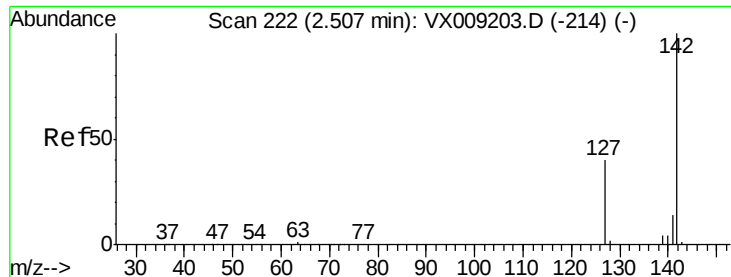
45 101.1 53.3 159.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

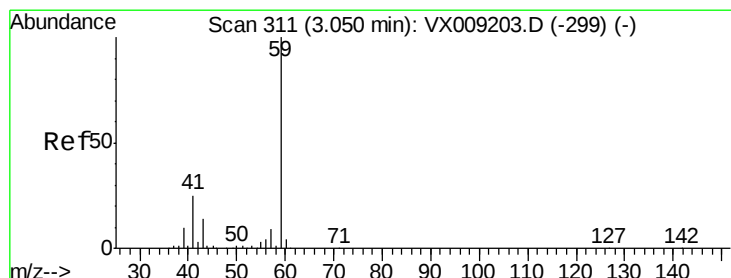
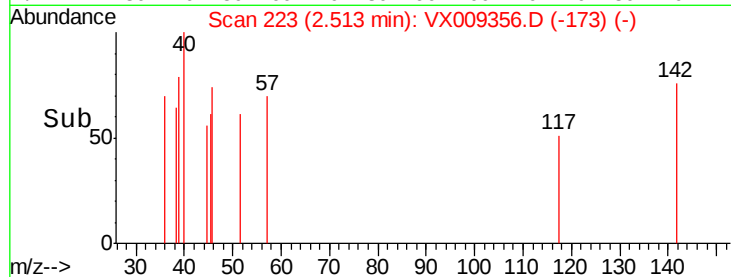
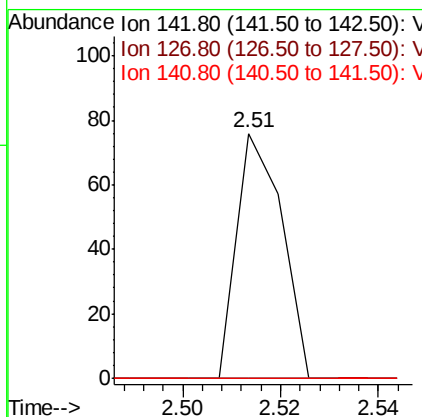
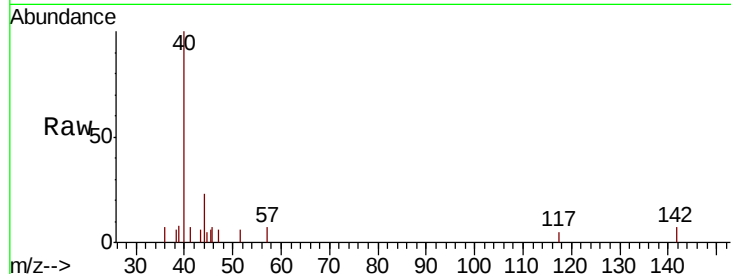




#10
Methvl Iodide
Concen: 4.616 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009356.D
Acq: 06 May 2019 17:25

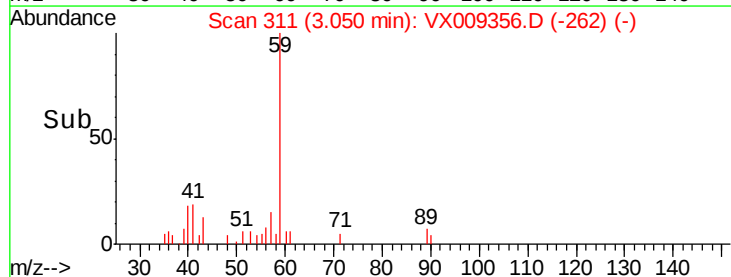
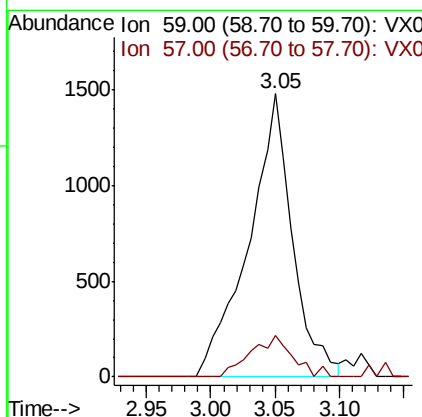
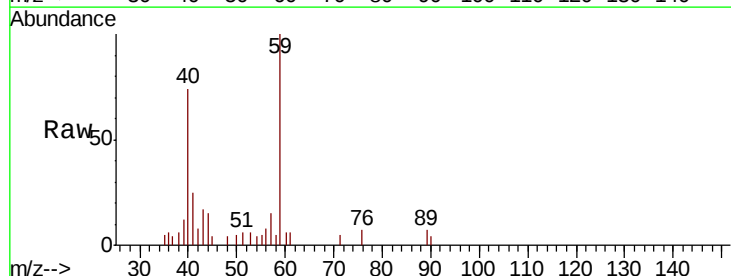
Instrument :
MSVOA_X
ClientSampleId :
MW-1-20190502

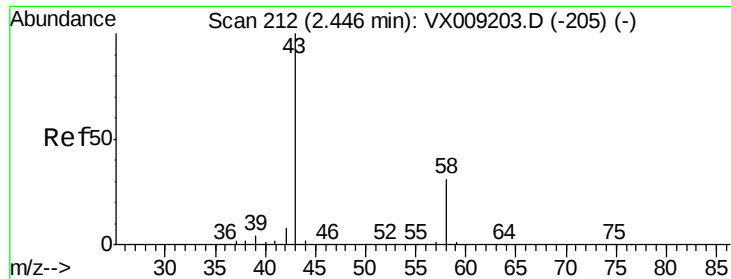
Tot Ion:142 Resp: 49
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 6.102 ug/l
RT: 3.05 min Scan# 311
Delta R.T. 0.00 min
Lab File: VX009356.D
Acq: 06 May 2019 17:25

Tgt Ion: 59 Resp: 3489
Ion Ratio Lower Upper
59 100
57 14.2 8.2 12.2#





#16

Acetone

Concen: 2.599 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

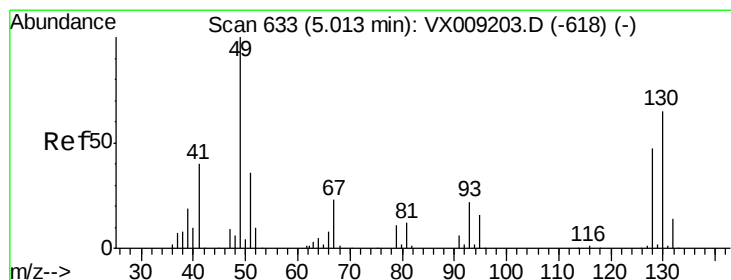
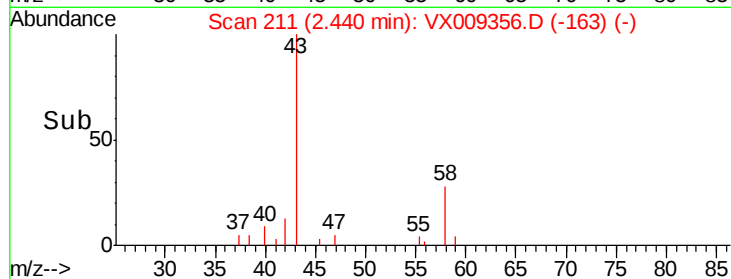
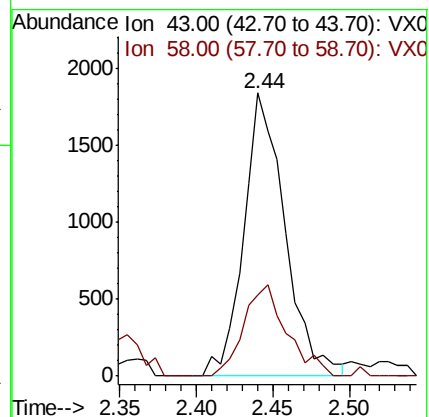
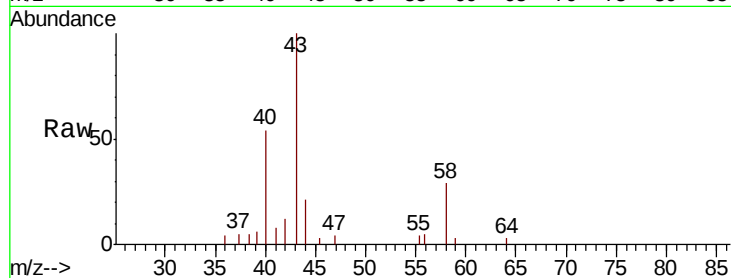
MW-1-20190502

Tot Ion: 43 Resp: 3447

Ion Ratio Lower Upper

43 100

58 28.8 24.9 37.3



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

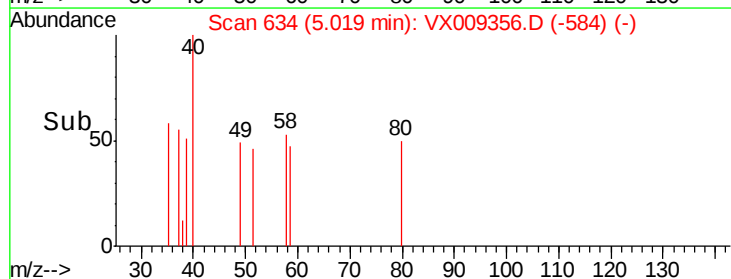
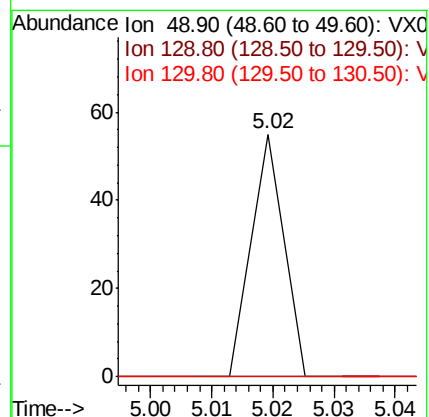
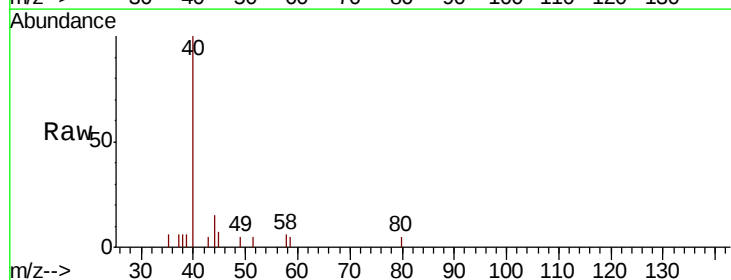
Tgt Ion: 49 Resp: 20

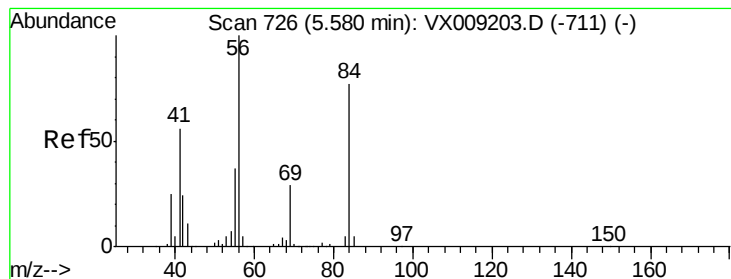
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#





#31

Cyclohexane

Concen: 1.114 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

MW-1-20190502

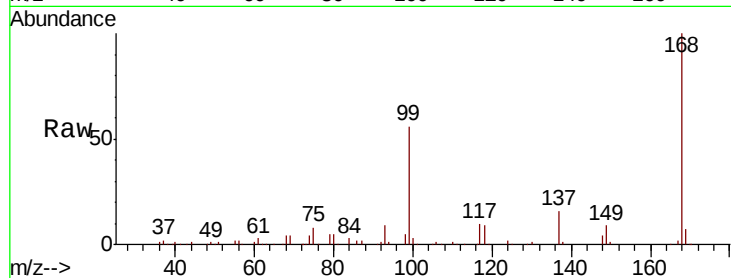
Tot Ion: 56 Resp: 4069

Ion Ratio Lower Upper

56 100

69 181.9 23.4 35.0#

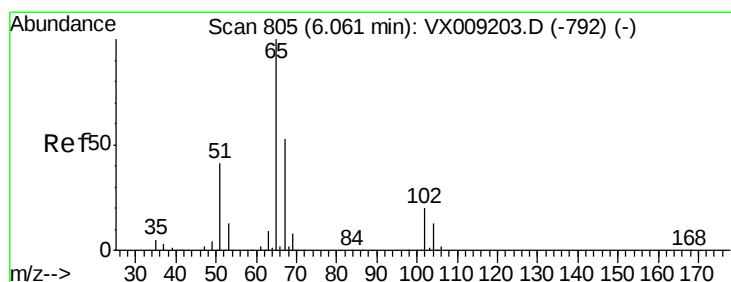
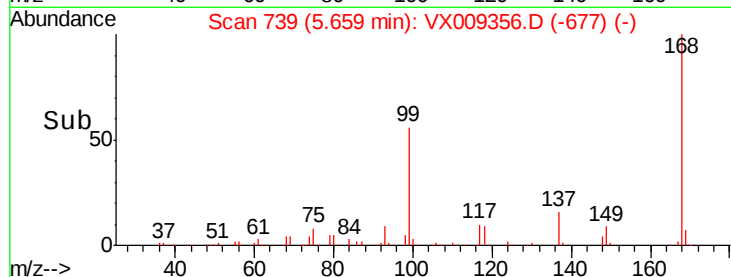
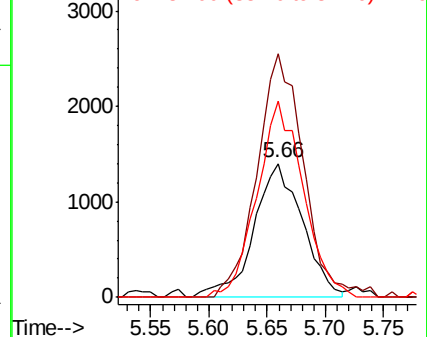
84 147.0 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.230 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009356.D

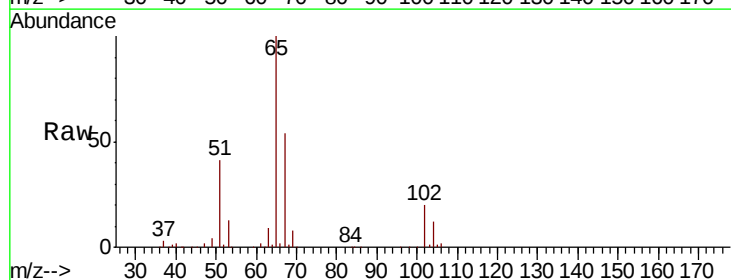
Acq: 06 May 2019 17:25

Tgt Ion: 65 Resp: 119131

Ion Ratio Lower Upper

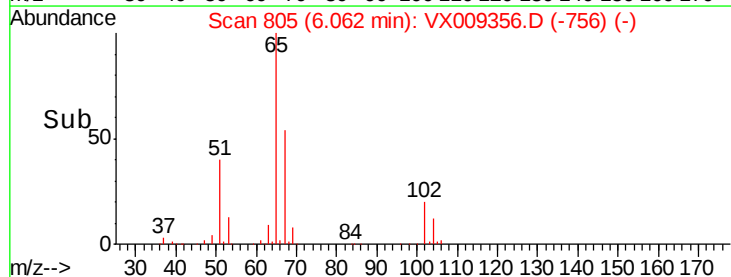
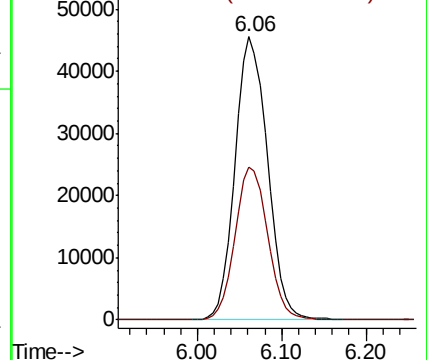
65 100

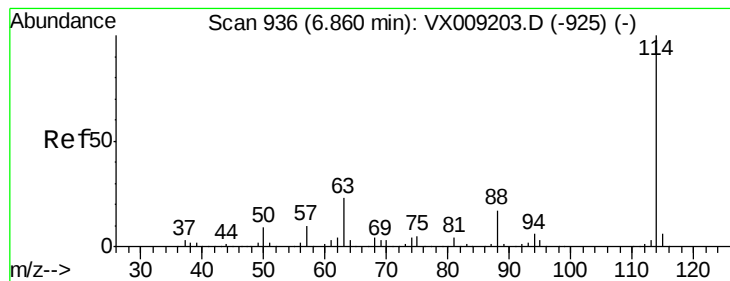
67 54.5 0.0 106.6



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

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ClientSampleId :

MW-1-20190502

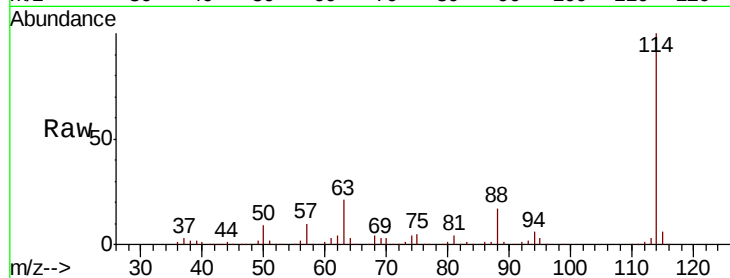
Tot Ion:114 Resp: 293711

Ion Ratio Lower Upper

114 100

63 21.5 0.0 45.6

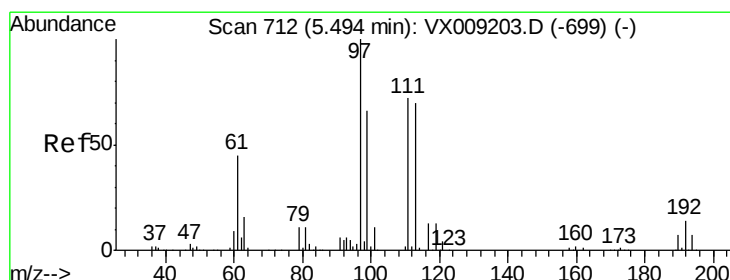
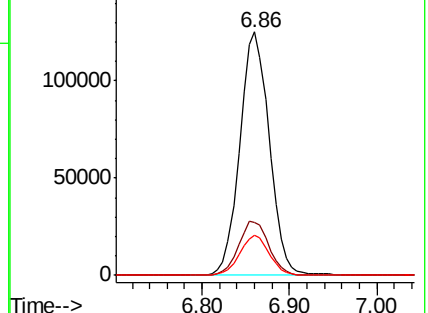
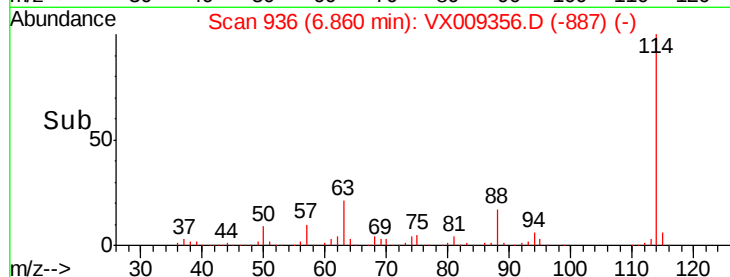
88 16.7 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.684 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

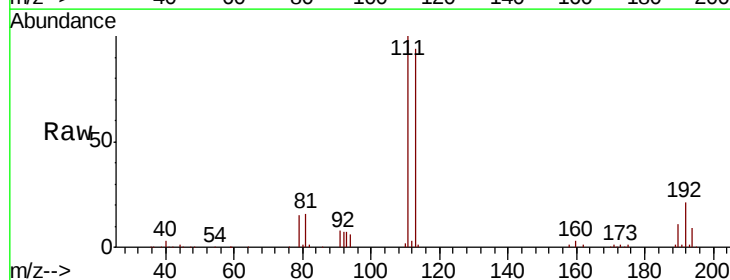
Tgt Ion:113 Resp: 89889

Ion Ratio Lower Upper

113 100

111 103.1 82.8 124.2

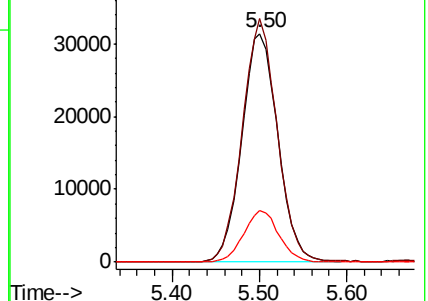
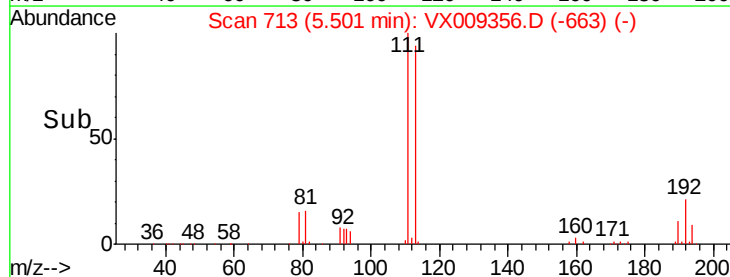
192 22.1 17.0 25.6

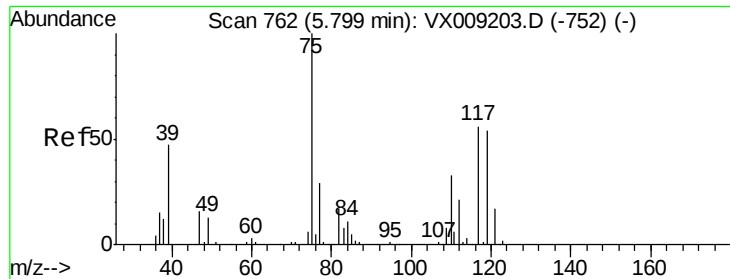


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.043 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

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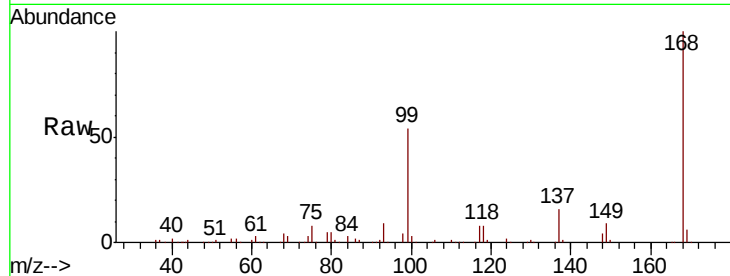
Tot Ion: 75 Resp: 13765

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

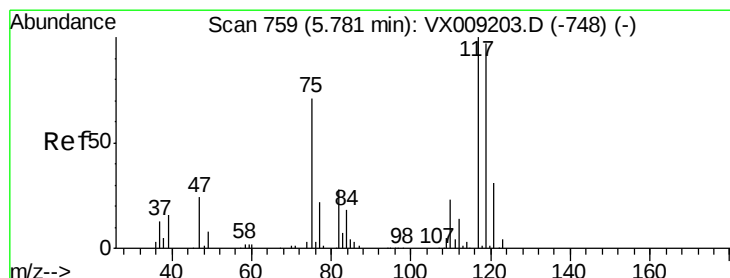
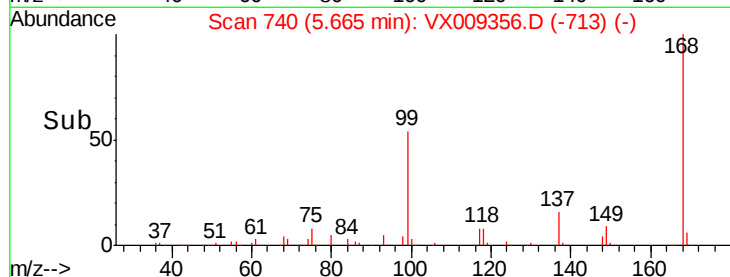
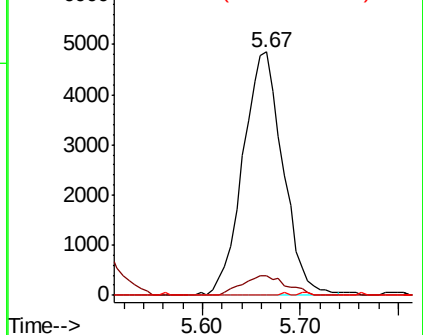
77 0.2 24.8 37.2#



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: 6.630 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

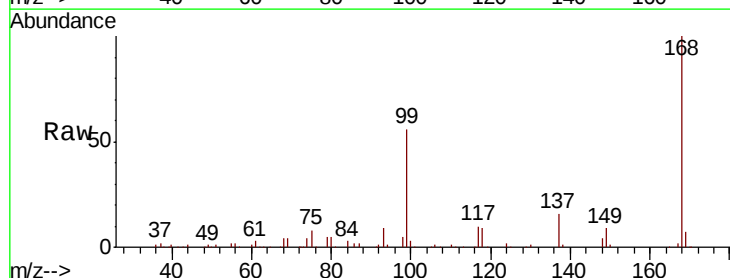
Tgt Ion: 117 Resp: 16441

Ion Ratio Lower Upper

117 100

119 4.5 77.5 116.3#

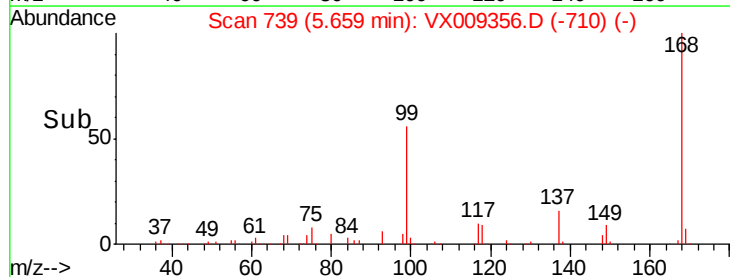
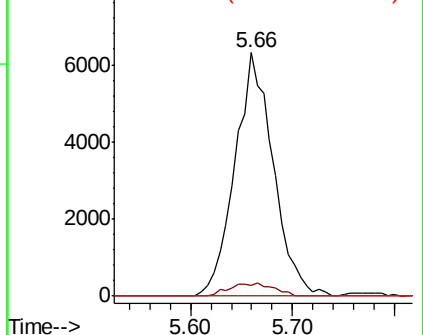
121 0.0 24.7 37.1#

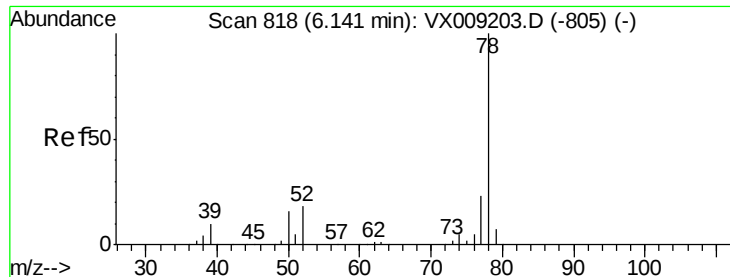


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.878 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

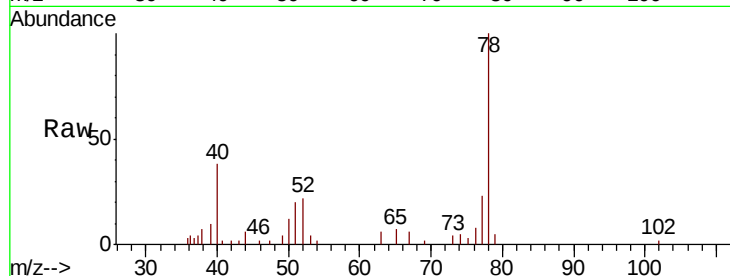
MW-1-20190502

Tot Ion: 78 Resp: 7419

Ion Ratio Lower Upper

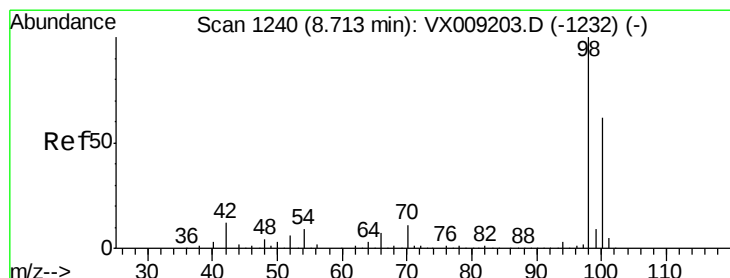
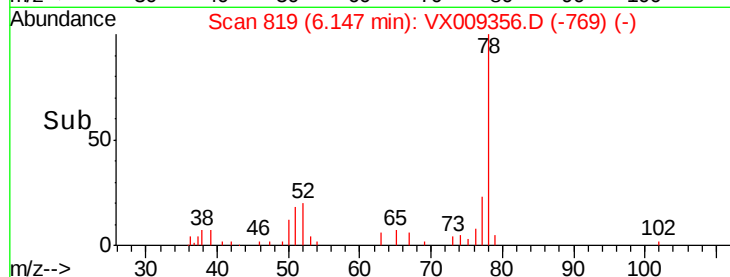
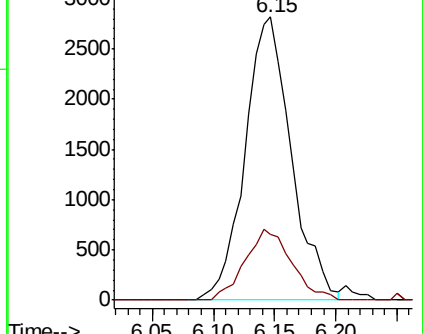
78 100

77 23.3 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 49.261 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009356.D

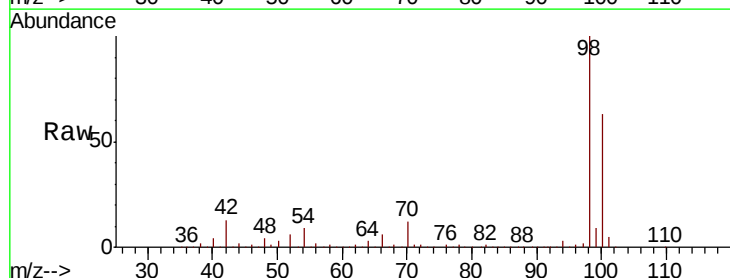
Acq: 06 May 2019 17:25

Tgt Ion: 98 Resp: 367205

Ion Ratio Lower Upper

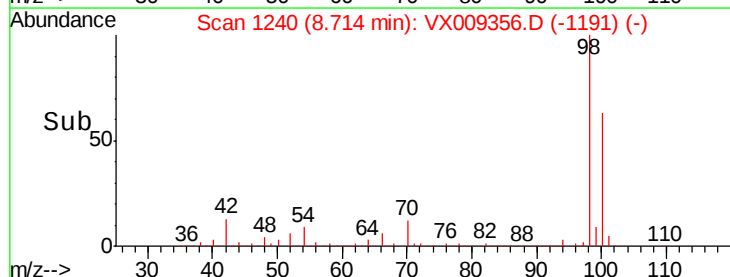
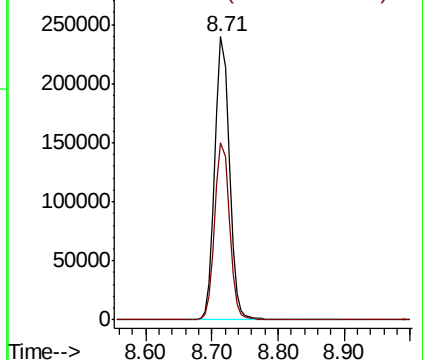
98 100

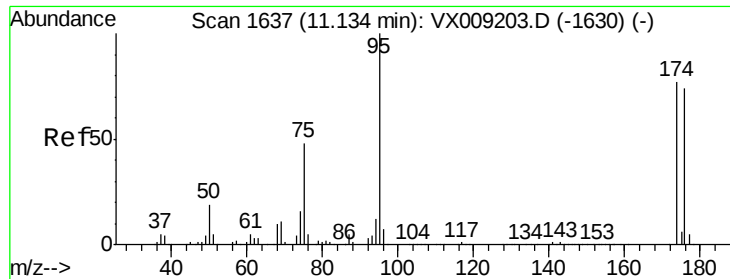
100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.387 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

MW-1-20190502

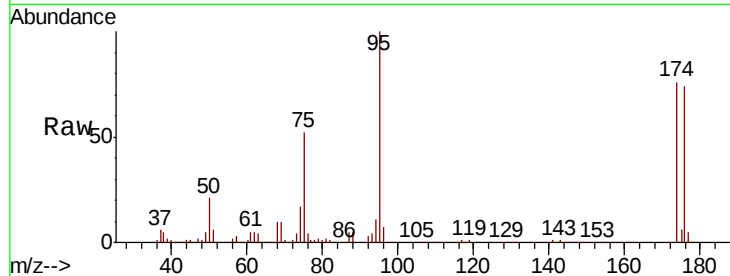
Tot Ion: 95 Resp: 120228

Ion Ratio Lower Upper

95 100

174 83.3 0.0 161.6

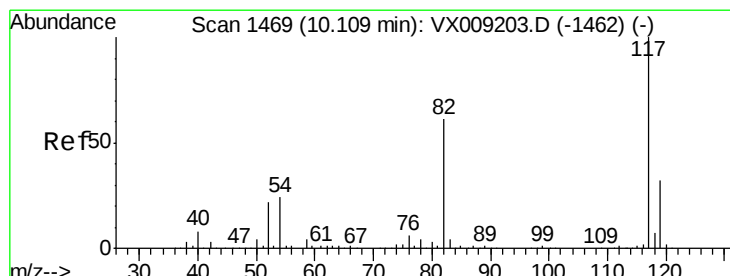
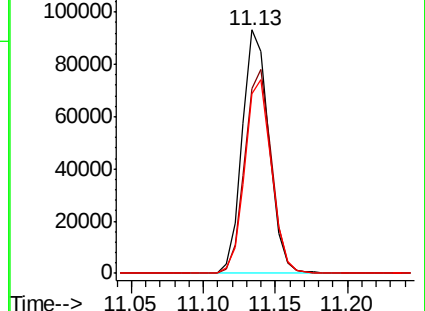
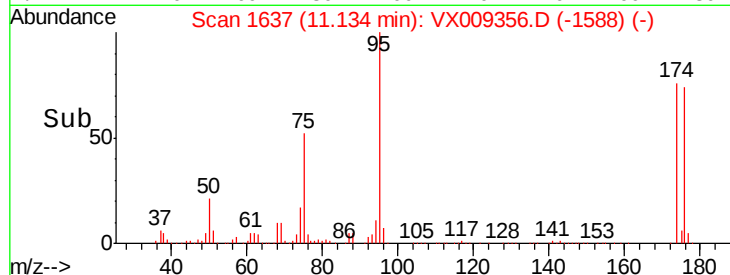
176 79.3 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009356.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009356.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009356.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

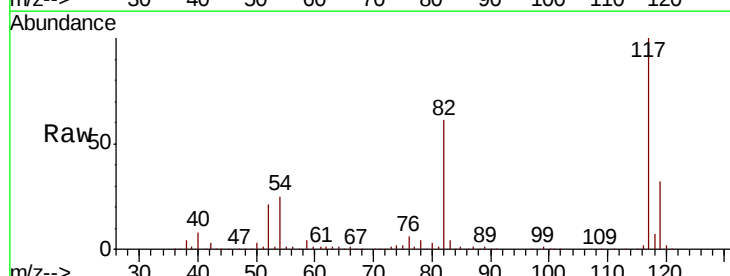
Tgt Ion: 117 Resp: 255445

Ion Ratio Lower Upper

117 100

82 60.9 48.8 73.2

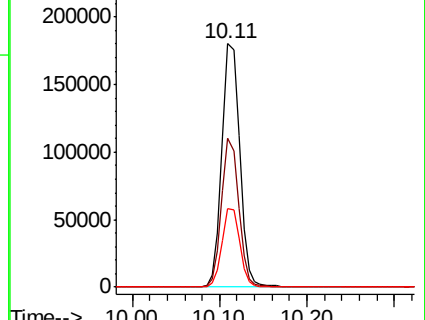
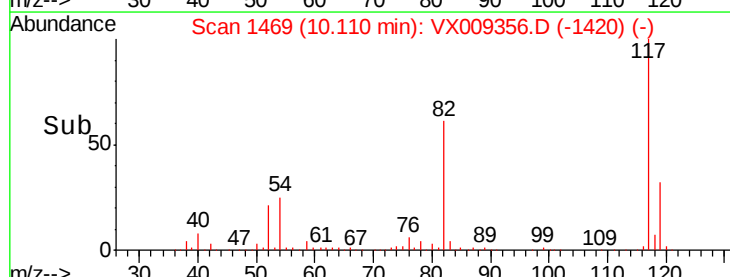
119 32.5 25.8 38.6

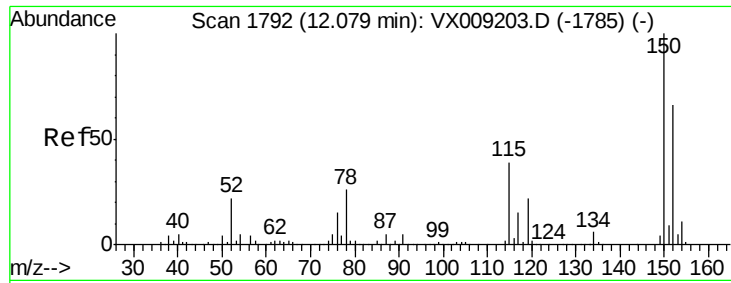


Abundance Ion 116.90 (116.60 to 117.60): VX009356.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009356.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009356.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

MW-1-20190502

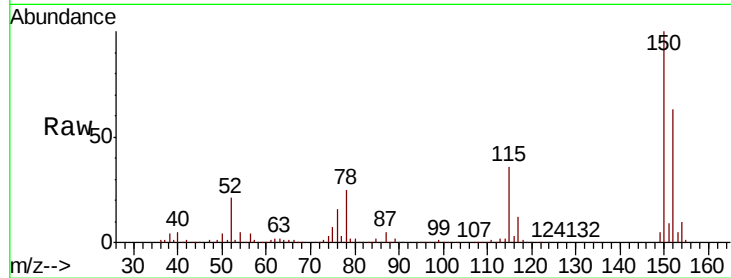
Tot Ion:152 Resp: 111191

Ion Ratio Lower Upper

152 100

115 58.1 41.2 123.6

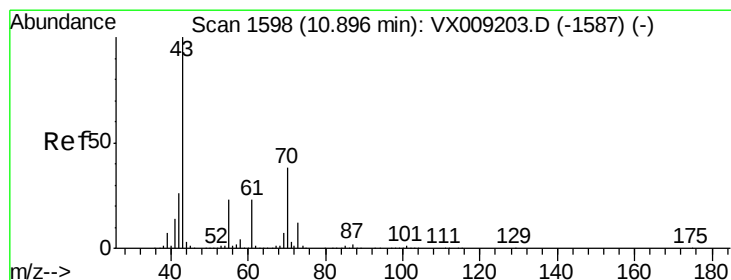
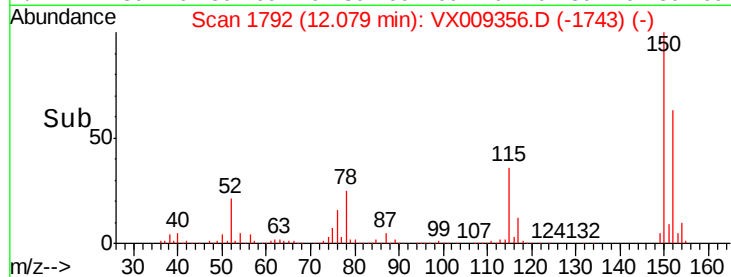
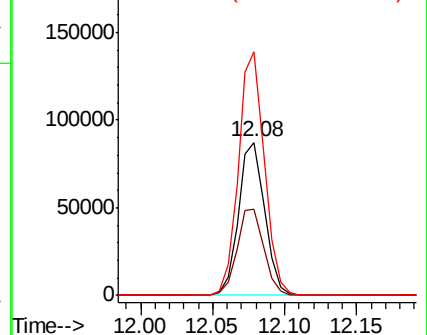
150 157.5 0.0 346.4



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: 0.255 ug/l

RT: 10.94 min Scan# 1605

Delta R.T. 0.04 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Tgt Ion: 43 Resp: 1201

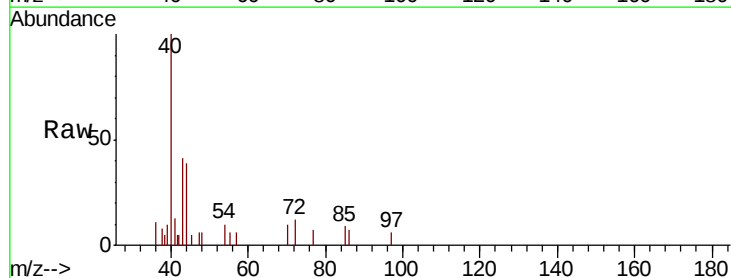
Ion Ratio Lower Upper

43 100

70 0.0 30.0 45.0#

55 4.2 17.9 26.9#

61 0.0 18.4 27.6#

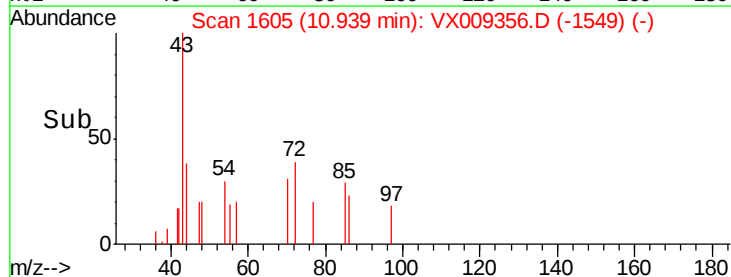
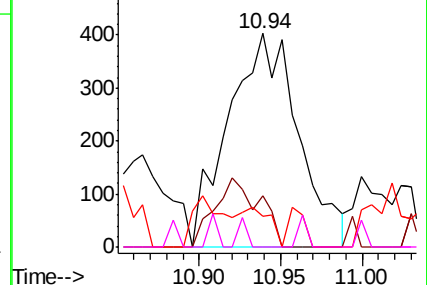


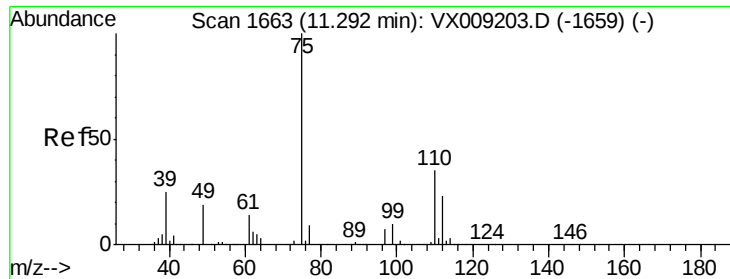
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.759 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

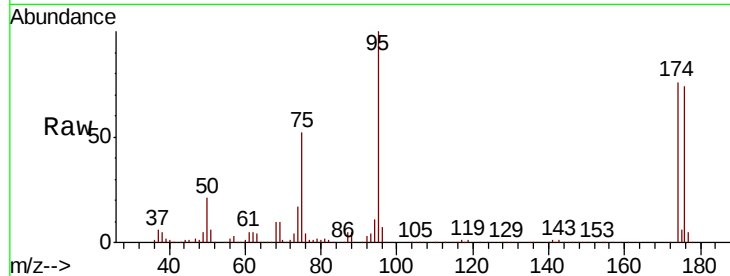
MW-1-20190502

Tot Ion: 75 Resp: 61280

Ion Ratio Lower Upper

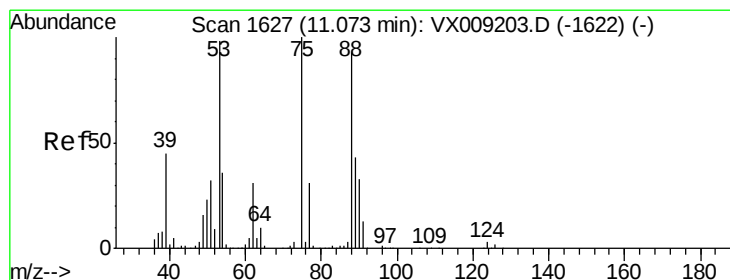
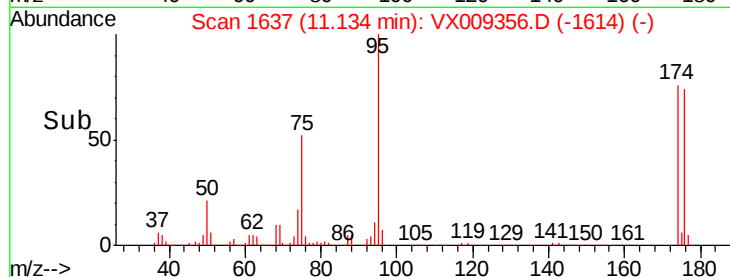
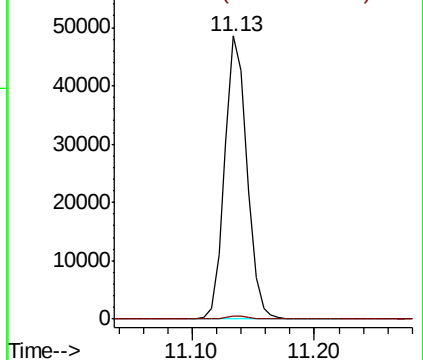
75 100

77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 60.791 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

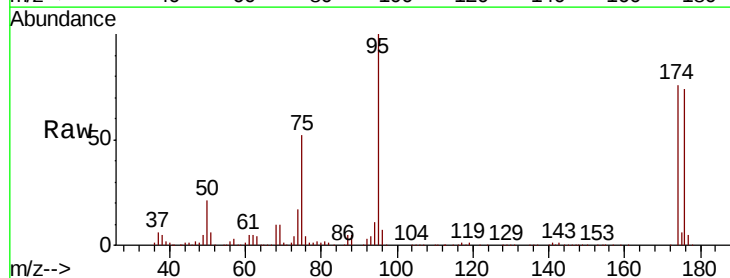
Tgt Ion: 75 Resp: 61280

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

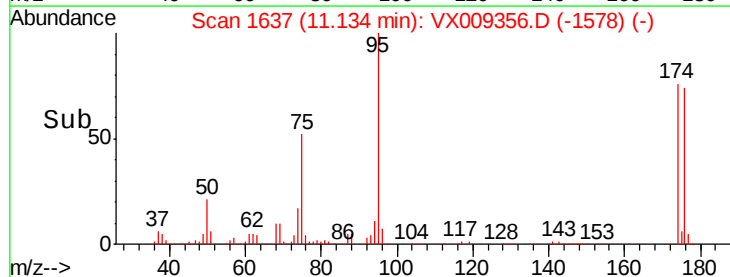
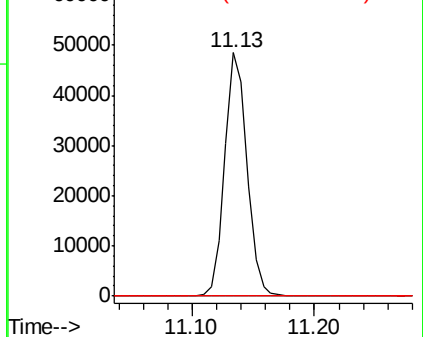
89 0.0 34.7 52.1#

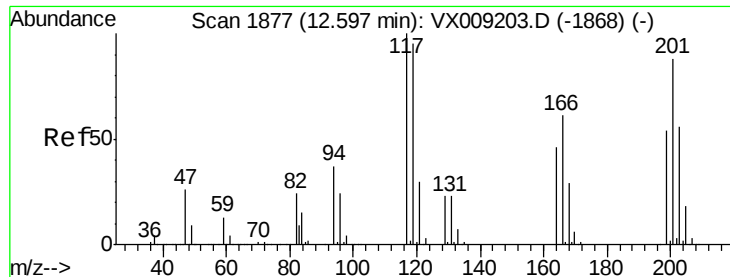


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 0.560 ug/l

RT: 12.76 min Scan# 1903

Delta R.T. 0.16 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

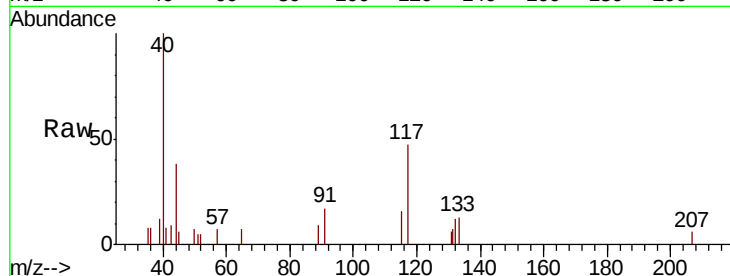
MW-1-20190502

Tot Ion:117 Resp: 674

Ion Ratio Lower Upper

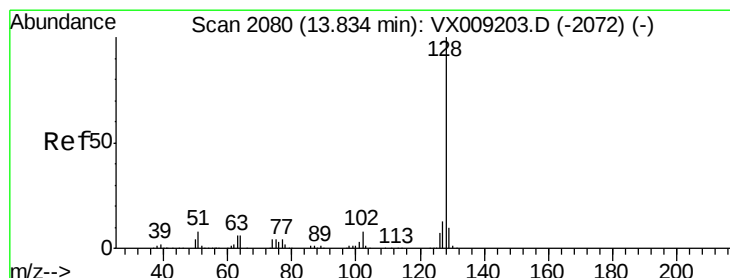
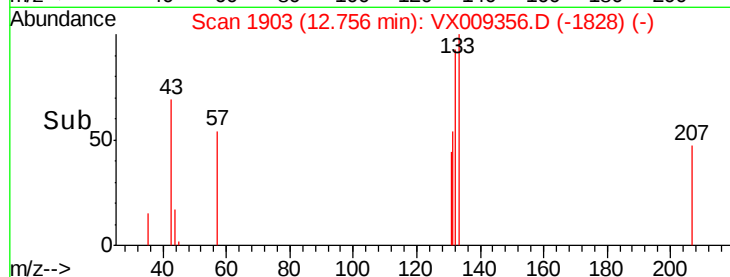
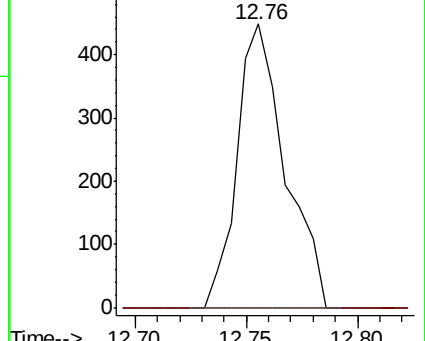
117 100

201 0.0 42.3 126.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.156 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX009356.D

Acq: 06 May 2019 17:25

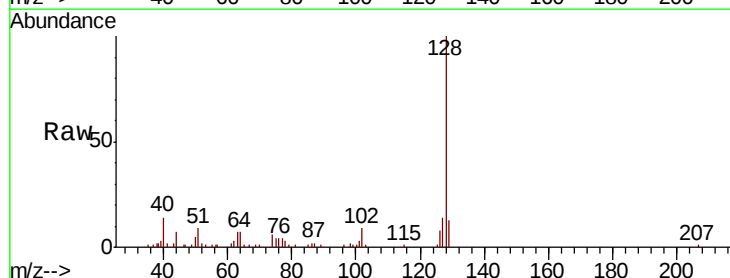
Tgt Ion:128 Resp: 9371

Ion Ratio Lower Upper

128 100

127 13.9 10.4 15.6

129 11.8 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

