

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040119\
 Data File : VX008569.D
 Acq On : 01 Apr 2019 15:23
 Operator : JC/SP
 Sample : K2189-03RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

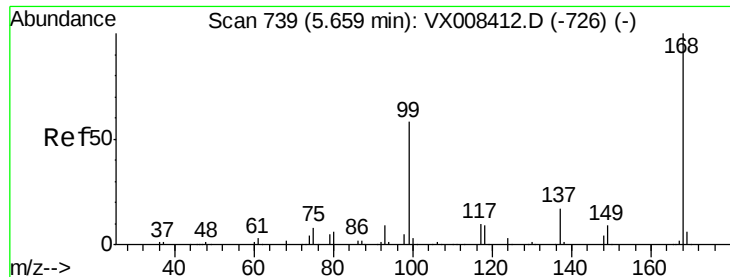
Quant Time: Apr 02 01:11:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	224163	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	376206	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	324271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132761	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	157355	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	
35) Dibromofluoromethane	5.50	113	115109	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
50) Toluene-d8	8.71	98	471117	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
62) 4-Bromofluorobenzene	11.13	95	157526	43.34	ug/l	0.00
Spiked Amount			Recovery	=	86.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	417	Below Cal		90
5) Bromomethane	1.66	94	129	1.872	ug/l #	49
6) Chloroethane	1.73	64	2546	1.165	ug/l #	56
10) Methyl Iodide	2.51	142	44	4.146	ug/l #	42
11) Tert butyl alcohol	3.02	59	2639	3.505	ug/l #	81
13) Acrolein	2.29	56	127	0.232	ug/l #	14
16) Acetone	2.44	43	10891	6.132	ug/l #	86
17) Carbon Disulfide	2.57	76	469	Below Cal	#	74
20) Methylene Chloride	2.85	84	1488	Below Cal	#	88
21) trans-1,2-Dichloroethene	3.14	96	22	Below Cal	#	1
25) 2-Butanone	4.68	43	2548	0.895	ug/l #	86
29) Tetrahydrofuran	5.14	42	1989	1.060	ug/l #	45
31) Cyclohexane	5.65	56	5467	1.004	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19065	4.753	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21589	6.449	ug/l #	16
51) 4-Methyl-2-Pentanone	8.64	43	1154	0.214	ug/l	92
52) Toluene	8.79	92	2630	0.366	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	80520	20.401	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	80520	65.341	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008569.D

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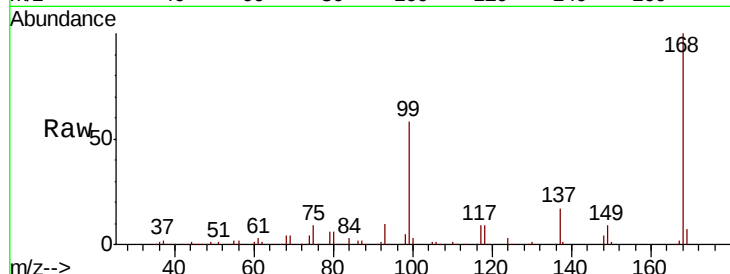
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 224163

Ion Ratio Lower Upper

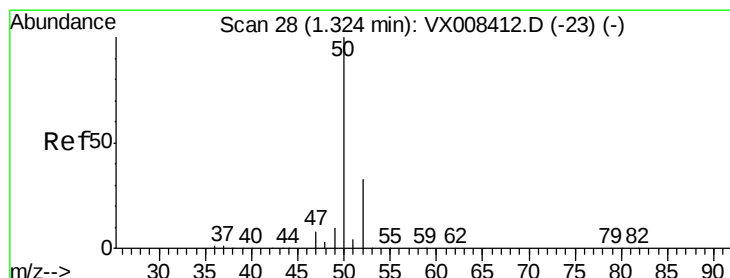
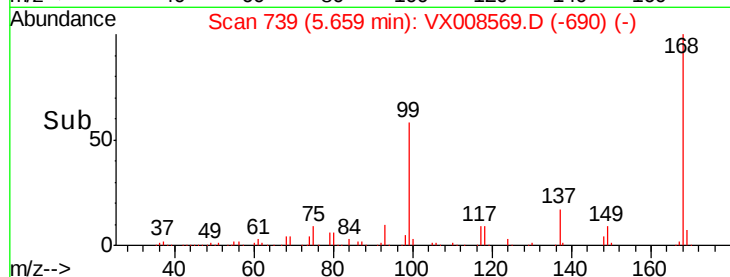
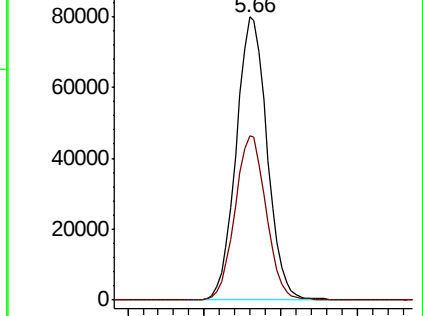
168 100

99 57.9 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008569.D

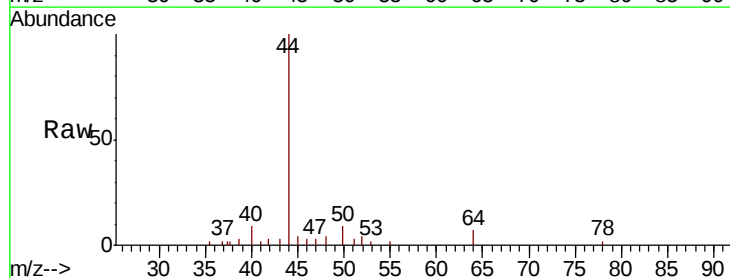
Acq: 01 Apr 2019 15:23

Tgt Ion: 50 Resp: 417

Ion Ratio Lower Upper

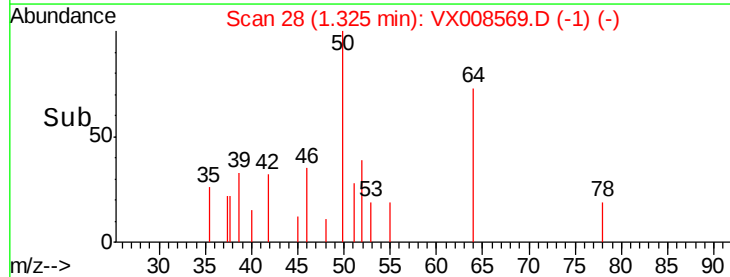
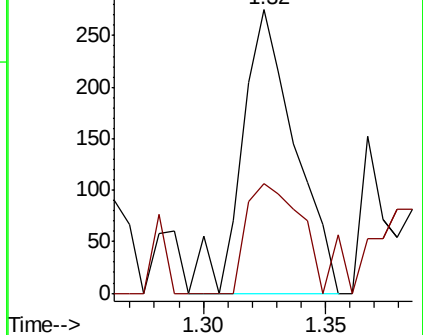
50 100

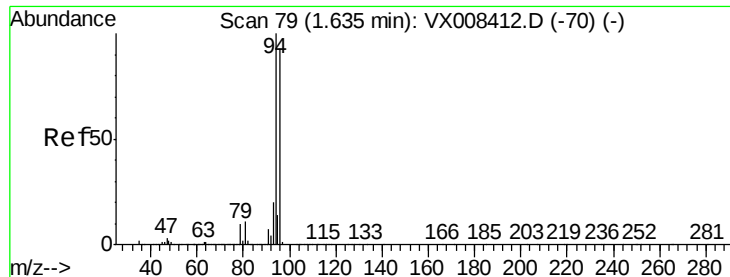
52 38.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 1.872 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

Instrument :

MSVOA_X

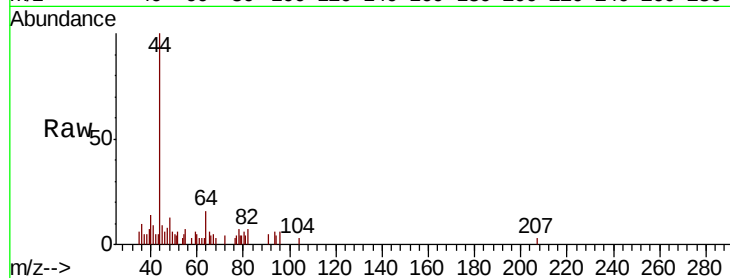
ClientSampleId :

Tot Ion: 94 Resp: 129

Ion Ratio Lower Upper

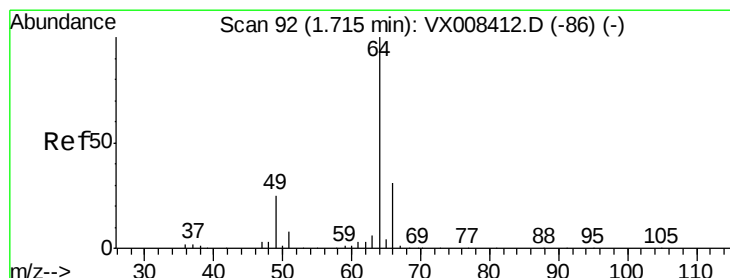
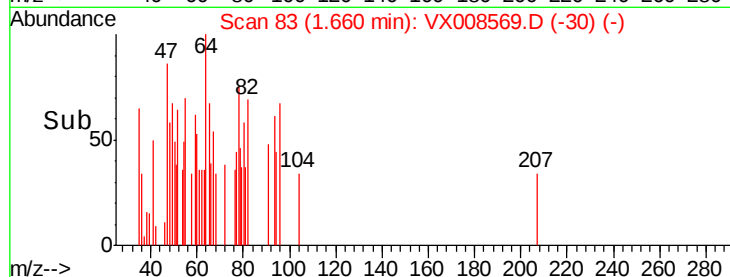
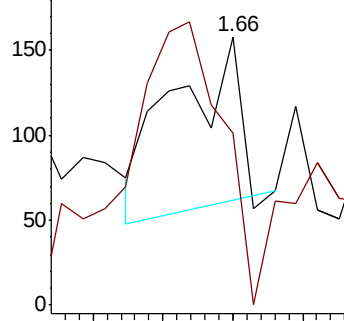
94 100

96 44.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.165 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008569.D

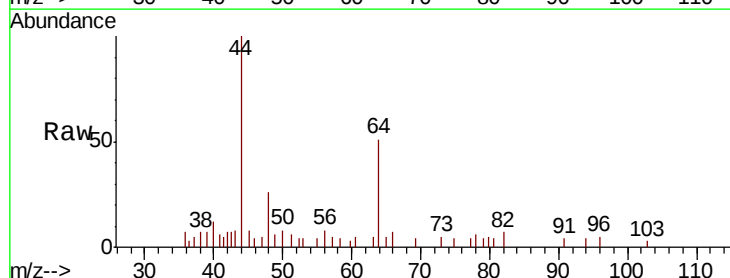
Acq: 01 Apr 2019 15:23

Tgt Ion: 64 Resp: 2546

Ion Ratio Lower Upper

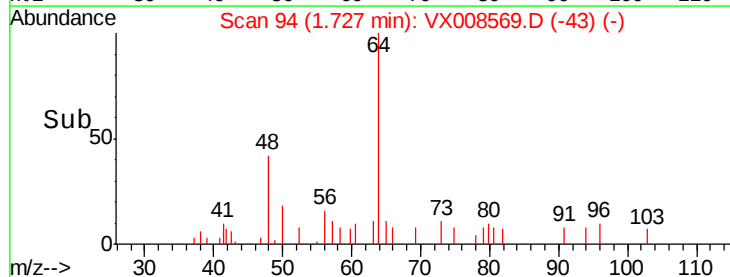
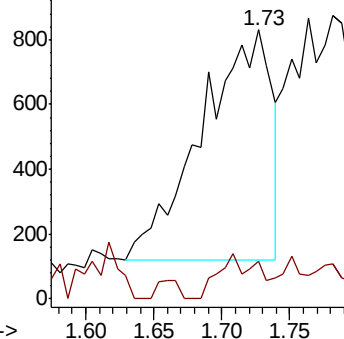
64 100

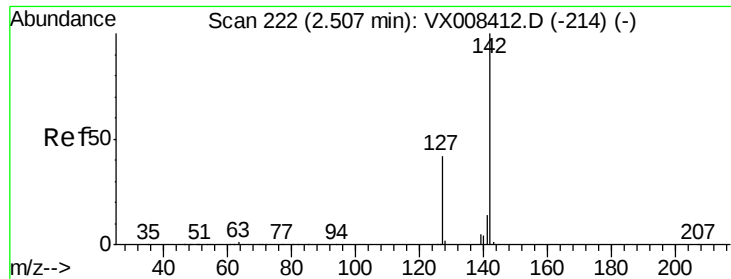
66 7.2 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

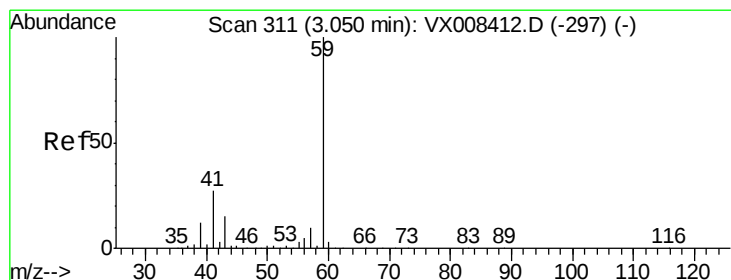
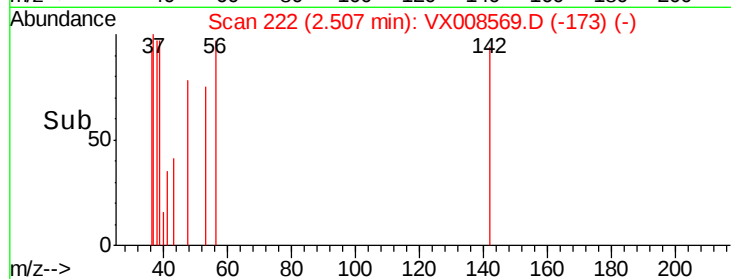
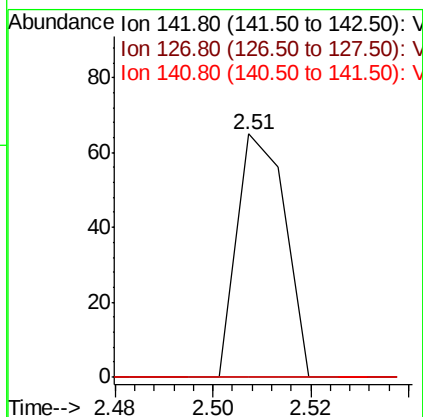
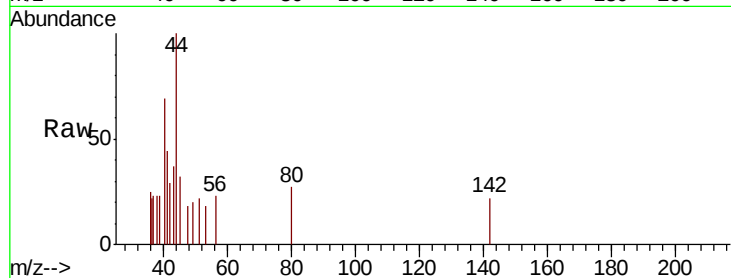




#10
Methvl Iodide
Concen: 4.146 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

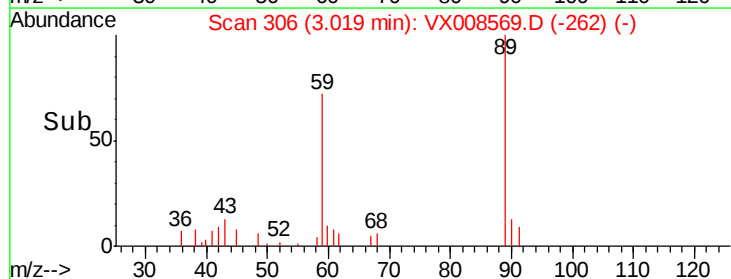
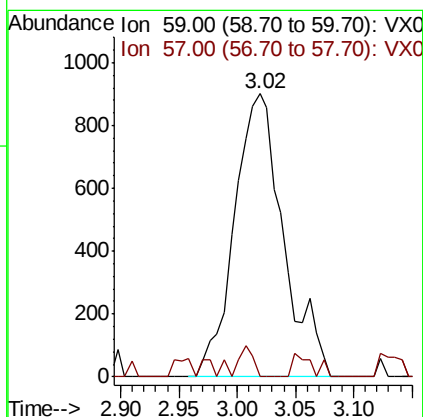
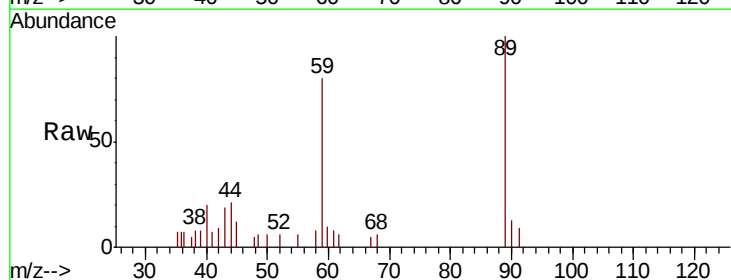
Instrument :
MSVOA_X
ClientSampleId :

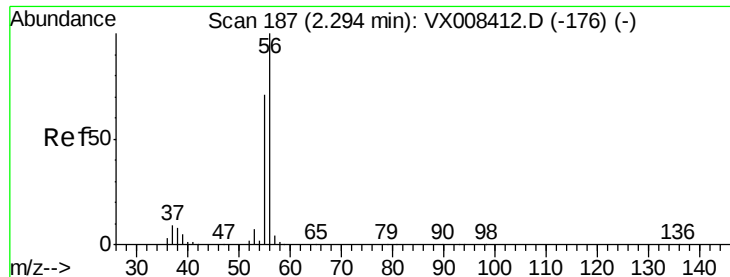
Tot Ion:142 Resp: 44
Ion Ratio Lower Upper
142 100
127 0.0 33.6 50.4#
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 3.505 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

Tgt Ion: 59 Resp: 2639
Ion Ratio Lower Upper
59 100
57 3.0 8.2 12.4#

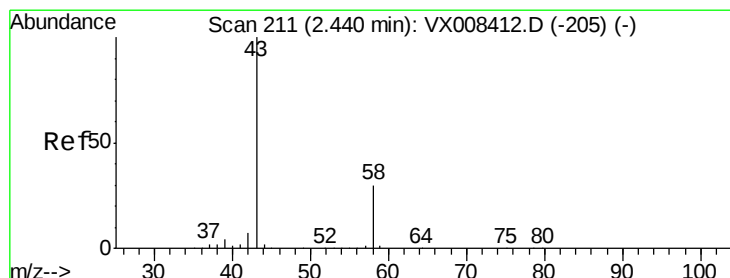
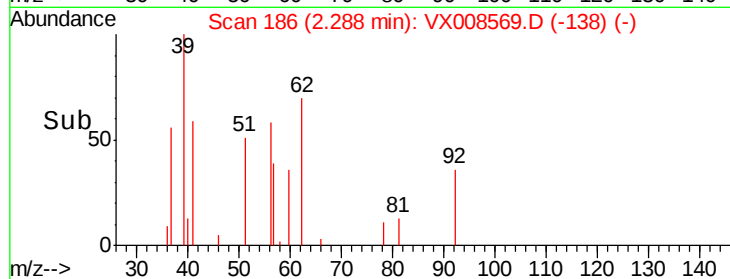
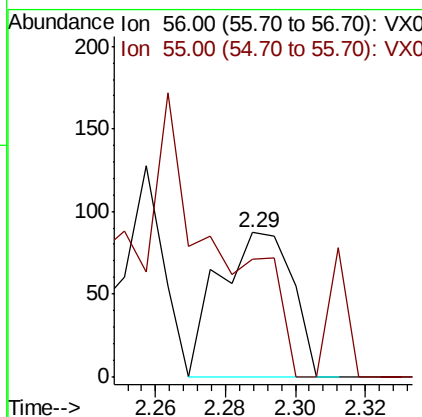
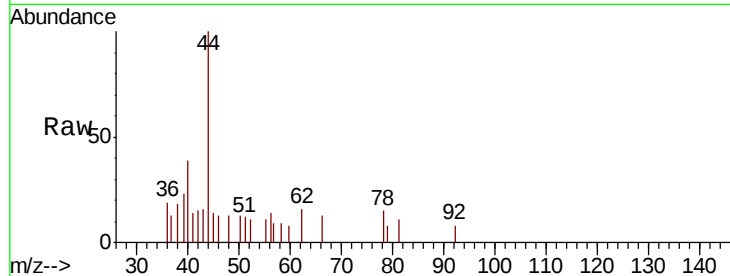




#13
Acrolein
Concen: 0.232 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

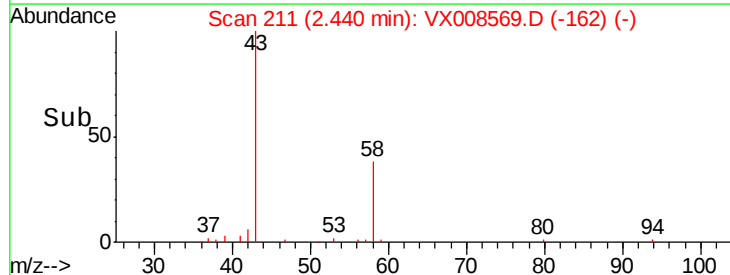
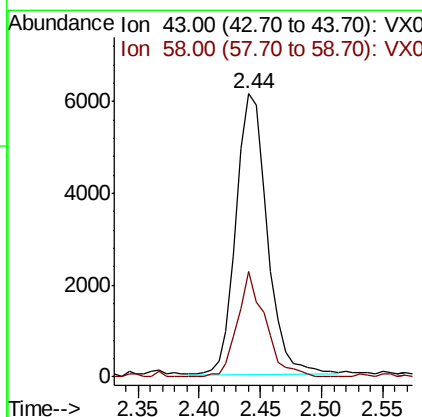
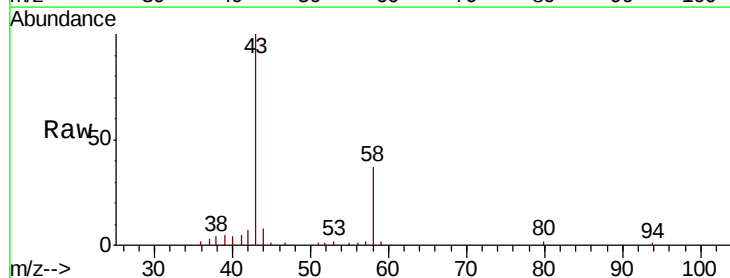
Instrument :
MSVOA_X
ClientSampled :

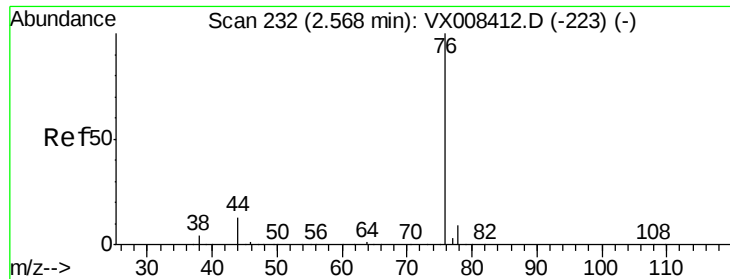
Tot Ion: 56 Resp: 127
Ion Ratio Lower Upper
56 100
55 0.0 56.5 84.7#



#16
Acetone
Concen: 6.132 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.00 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

Tgt Ion: 43 Resp: 10891
Ion Ratio Lower Upper
43 100
58 37.5 24.2 36.2#





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

Instrument :

MSVOA_X

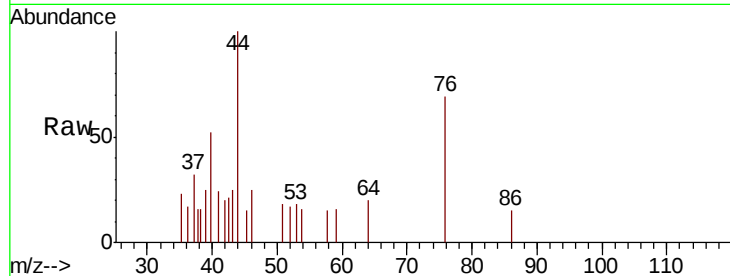
ClientSampled :

Tot Ion: 76 Resp: 469

Ion Ratio Lower Upper

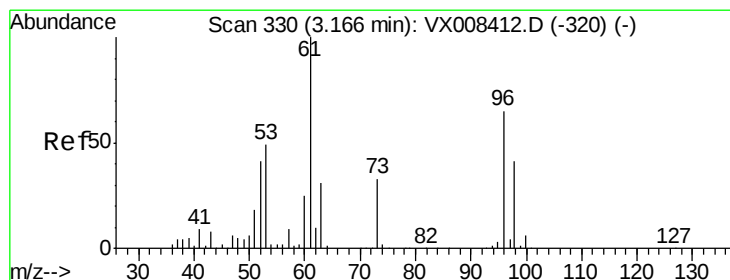
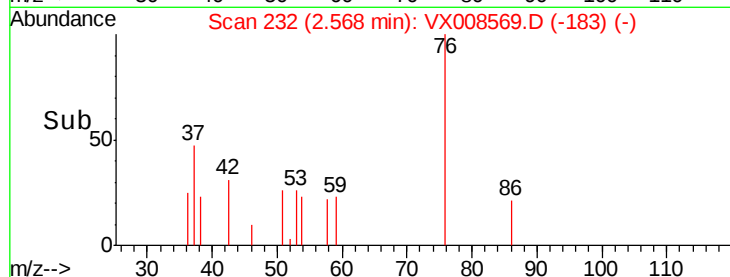
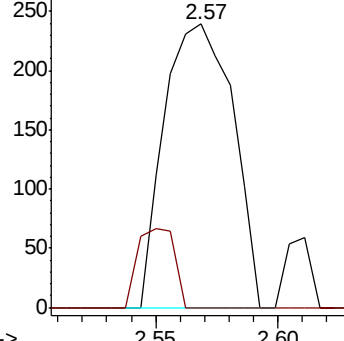
76 100

78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.14 min Scan# 325

Delta R.T. -0.03 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

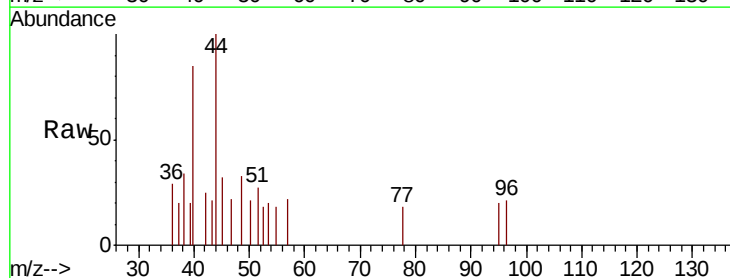
Tgt Ion: 96 Resp: 22

Ion Ratio Lower Upper

96 100

61 0.0 122.6 184.0#

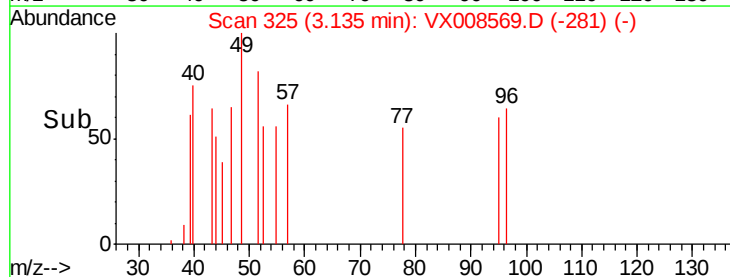
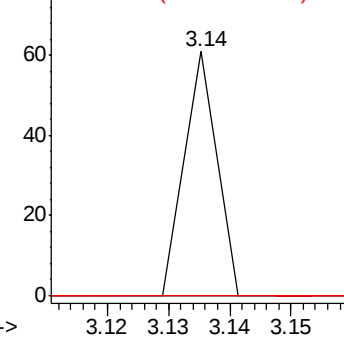
98 0.0 50.9 76.3#

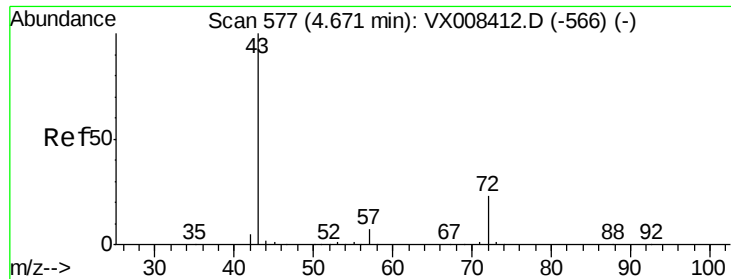


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#25

2-Butanone

Concen: 0.895 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

Instrument :

MSVOA_X

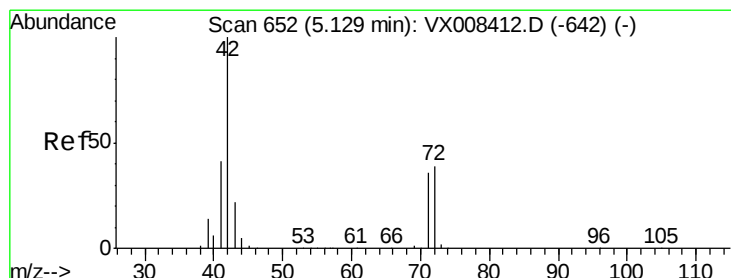
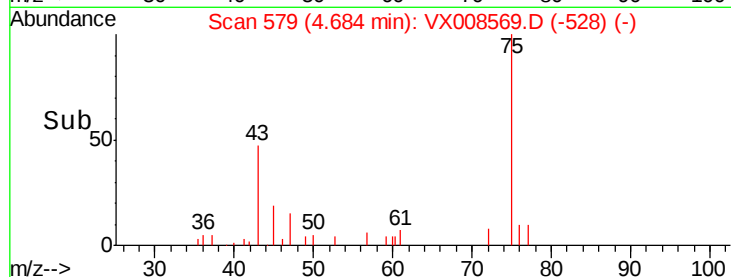
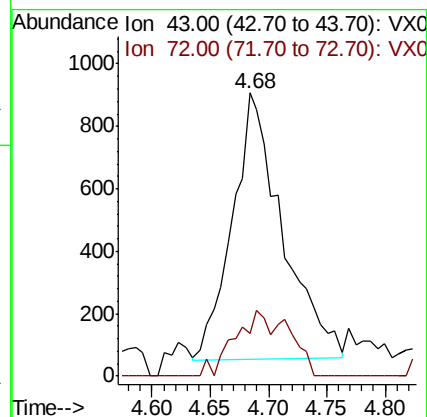
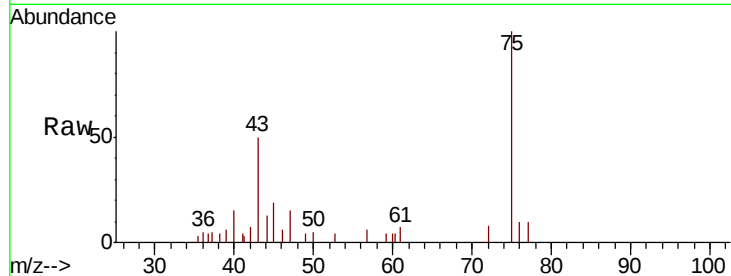
ClientSampleId :

Tot Ion: 43 Resp: 2548

Ion Ratio Lower Upper

43 100

72 16.3 18.6 28.0#



#29

Tetrahydrofuran

Concen: 1.060 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

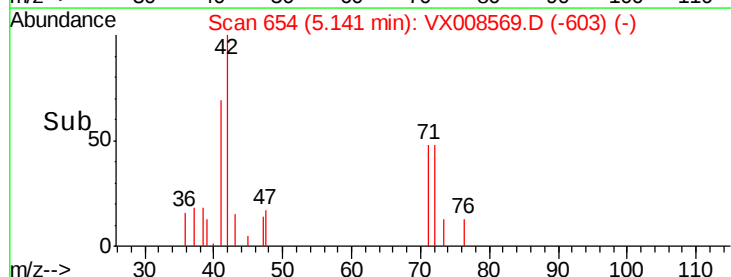
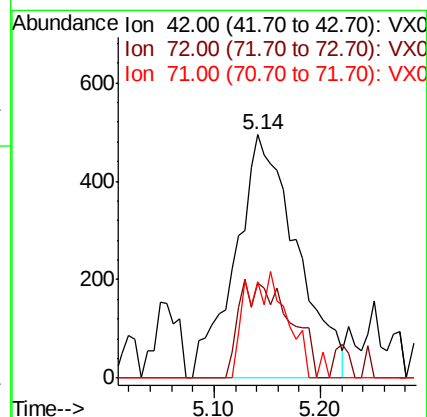
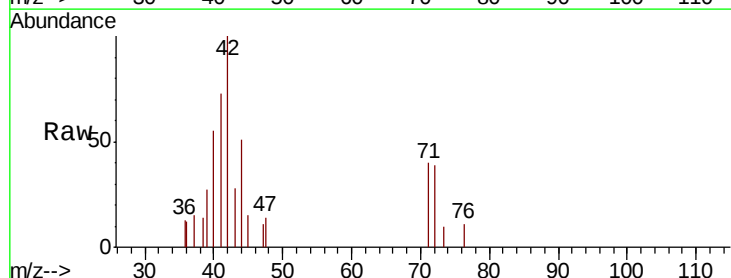
Tgt Ion: 42 Resp: 1989

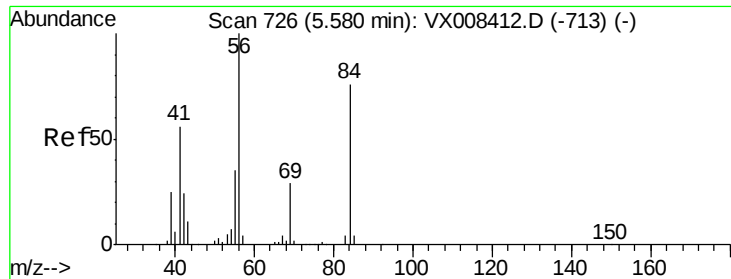
Ion Ratio Lower Upper

42 100

72 10.0 31.4 47.2#

71 0.0 29.4 44.2#

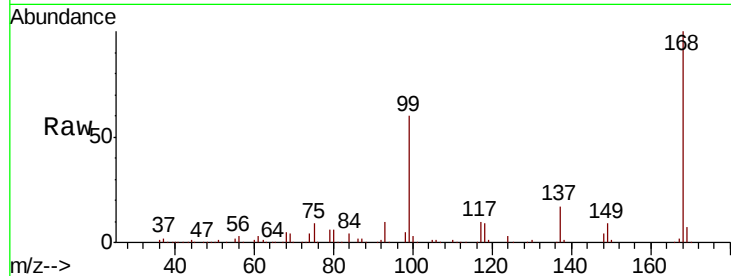




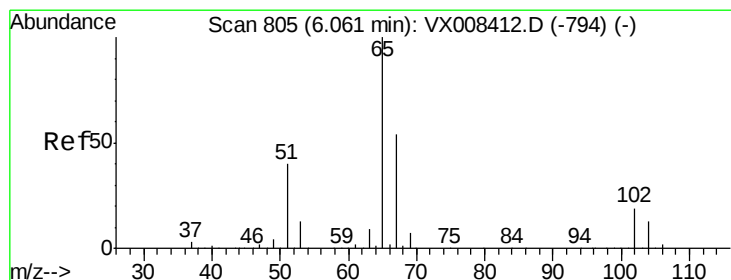
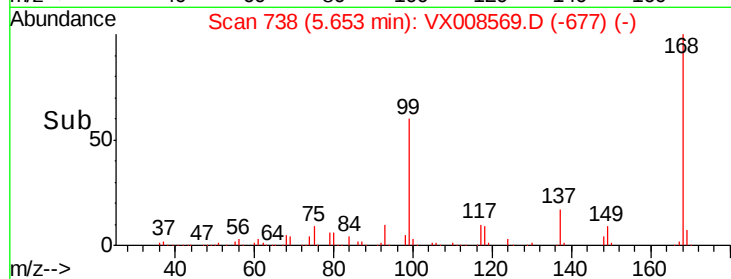
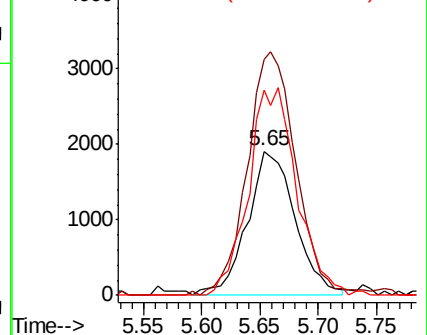
#31
Cyclohexane
Concen: 1.004 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 5467
Ion Ratio Lower Upper
56 100
69 161.4 23.2 34.8#
84 142.6 60.7 91.1#

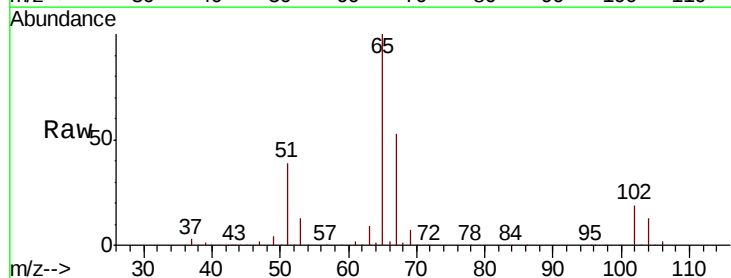


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

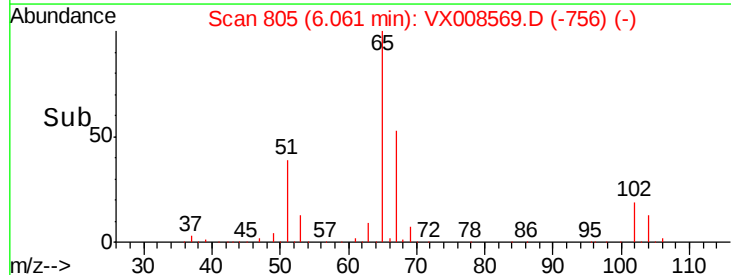
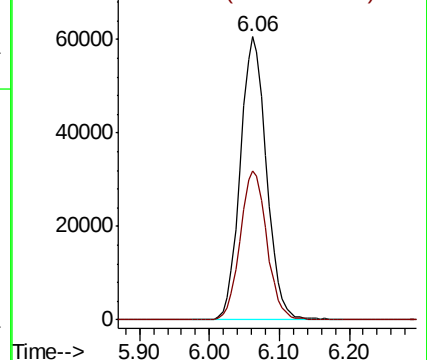


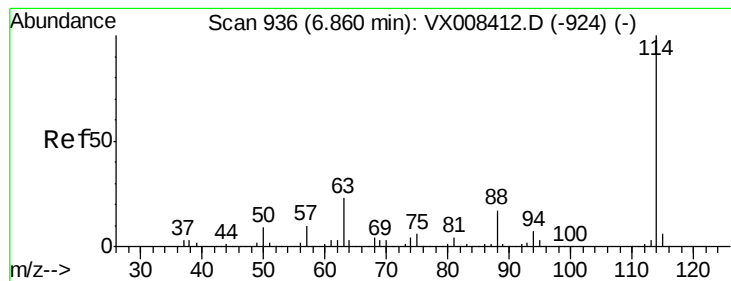
#33
1,2-Dichloroethane-d4
Concen: 46.303 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

Tgt Ion: 65 Resp: 157355
Ion Ratio Lower Upper
65 100
67 53.6 0.0 109.4



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: VX008569.D

Acq: 01 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

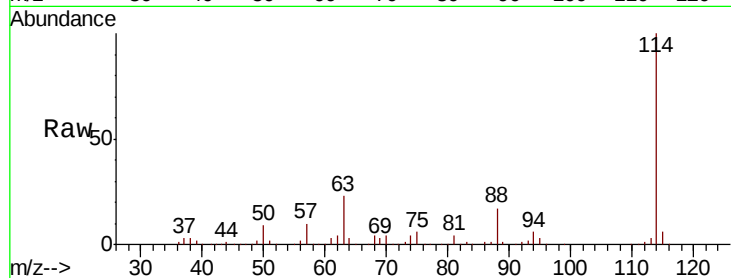
Tot Ion:114 Resp: 376206

Ion Ratio Lower Upper

114 100

63 23.3 0.0 46.4

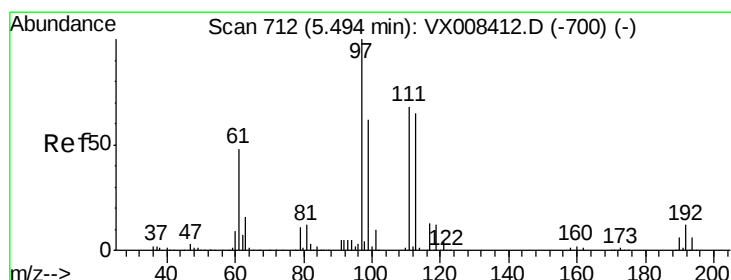
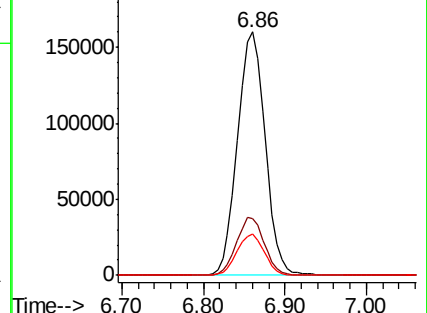
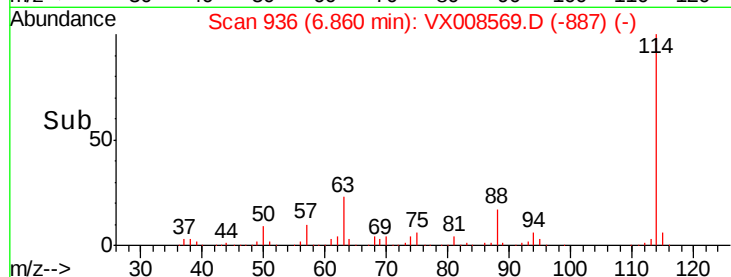
88 17.0 0.0 33.2



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: 46.925 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

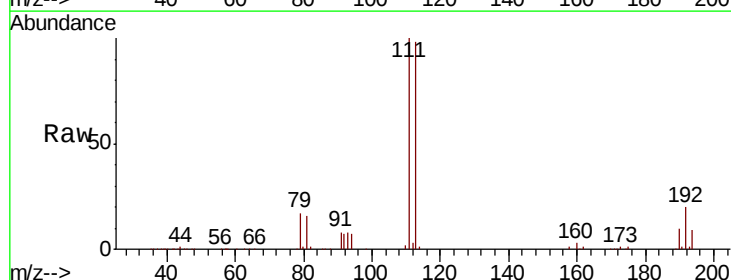
Tgt Ion:113 Resp: 115109

Ion Ratio Lower Upper

113 100

111 103.5 83.0 124.4

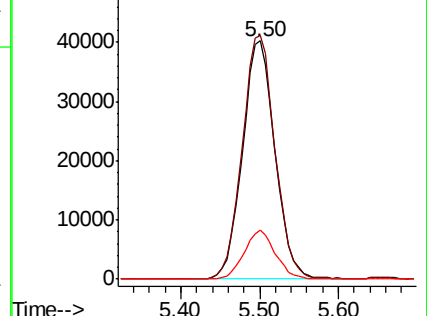
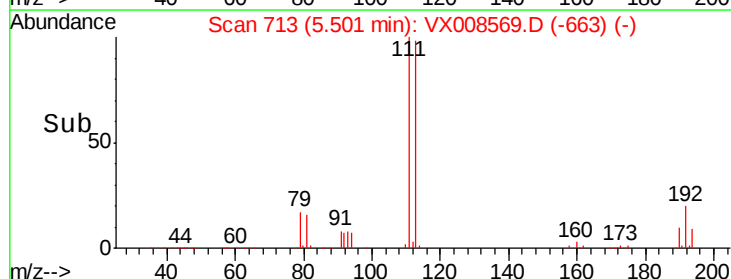
192 19.8 15.6 23.4

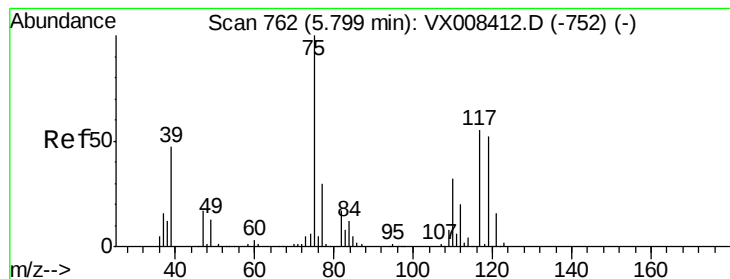


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.753 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

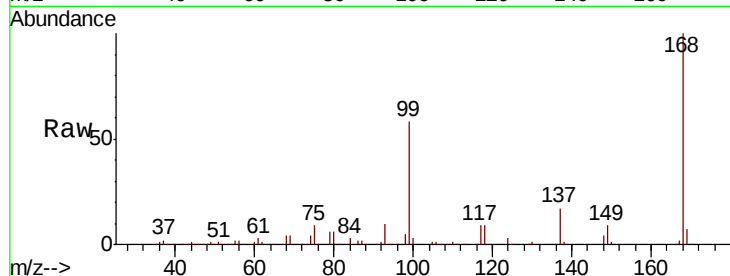
Tot Ion: 75 Resp: 19065

Ion Ratio Lower Upper

75 100

110 8.1 16.6 49.7#

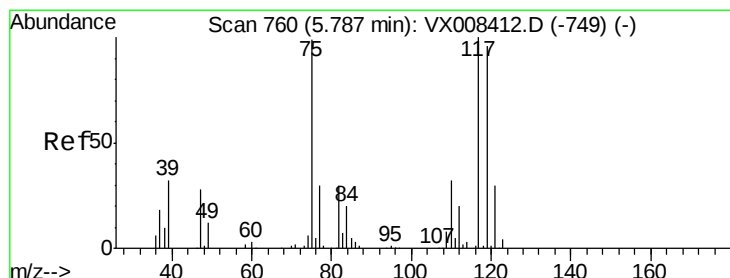
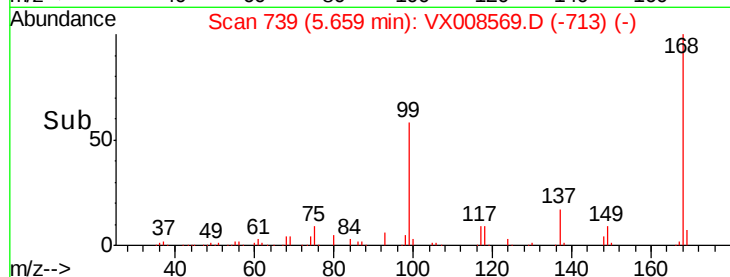
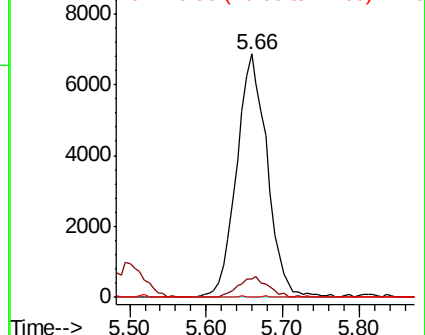
77 0.1 24.2 36.2#



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: 6.449 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

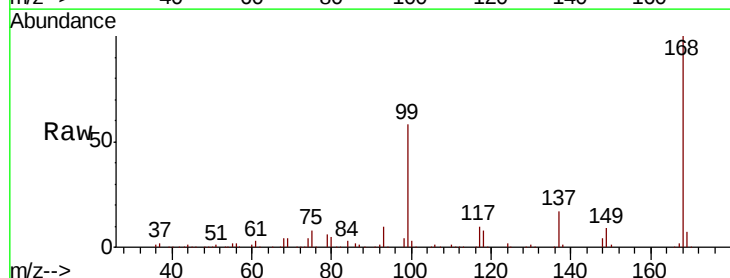
Tgt Ion: 117 Resp: 21589

Ion Ratio Lower Upper

117 100

119 4.8 76.7 115.1#

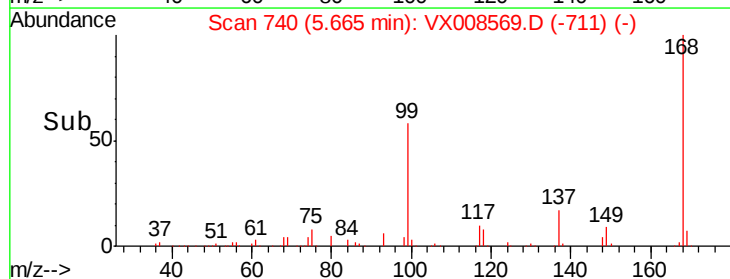
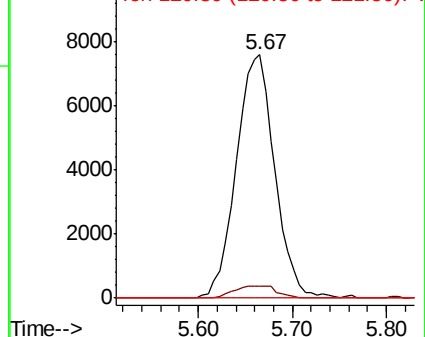
121 0.0 24.3 36.5#

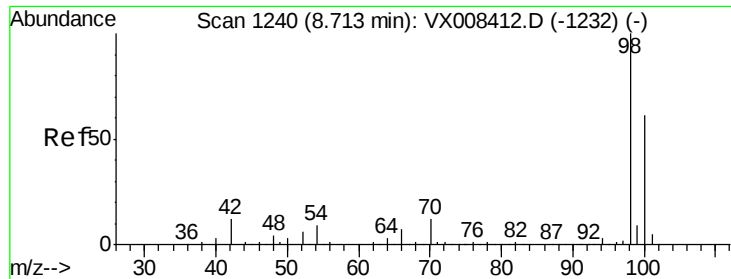


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

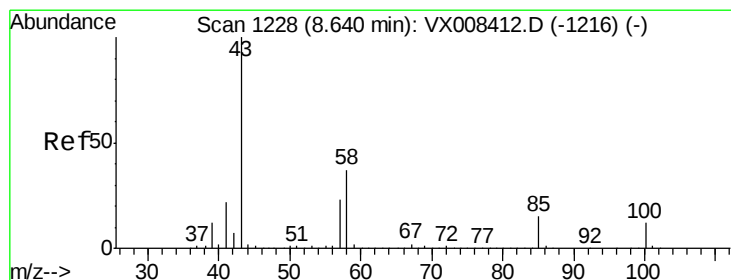
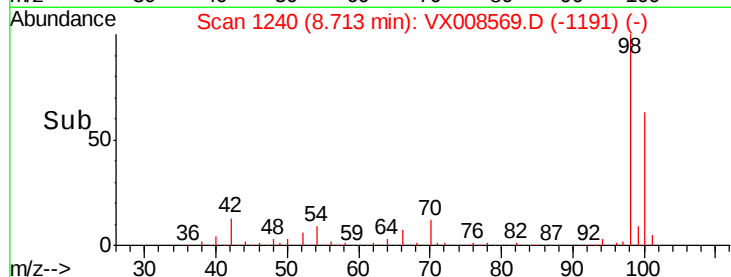
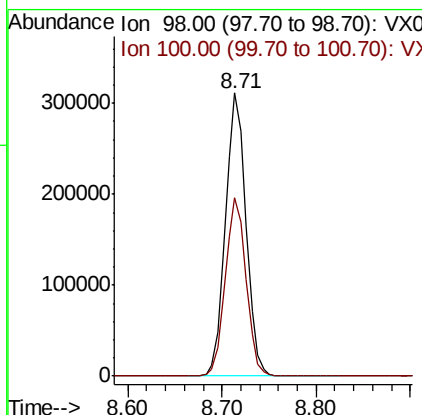
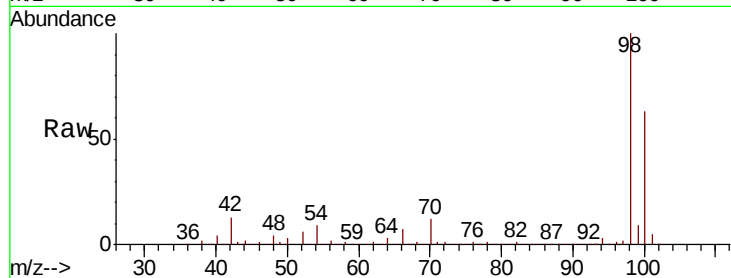




#50
Toluene-d8
Concen: 48.031 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

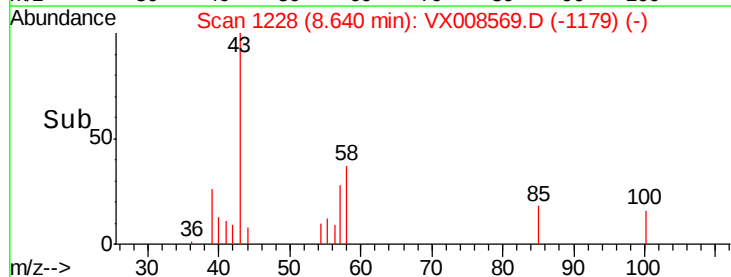
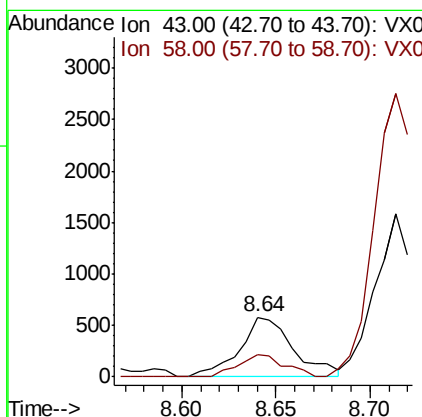
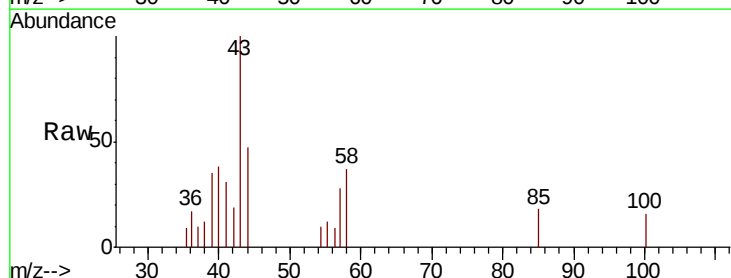
Instrument :
MSVOA_X
ClientSampled :

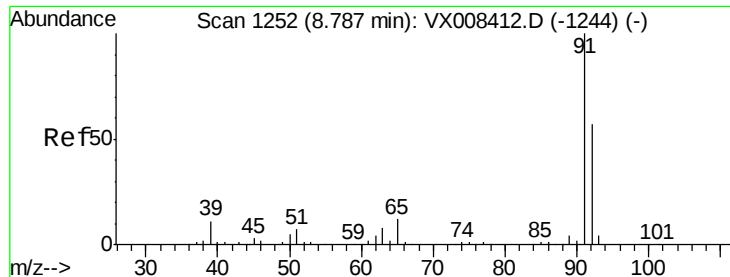
Tot Ion: 98 Resp: 471117
Ion Ratio Lower Upper
98 100
100 63.7 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.214 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

Tgt Ion: 43 Resp: 1154
Ion Ratio Lower Upper
43 100
58 32.3 29.8 44.8





#52

Toluene

Concen: 0.366 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

Instrument :

MSVOA_X

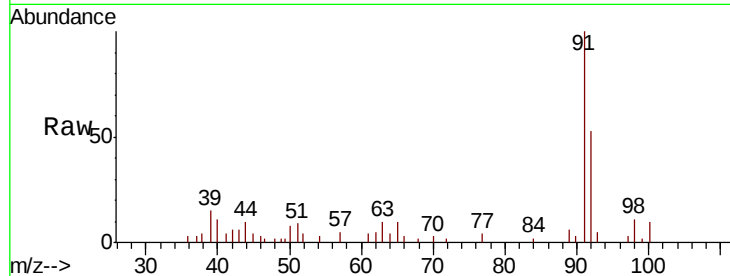
ClientSampleId :

Tot Ion: 92 Resp: 2630

Ion Ratio Lower Upper

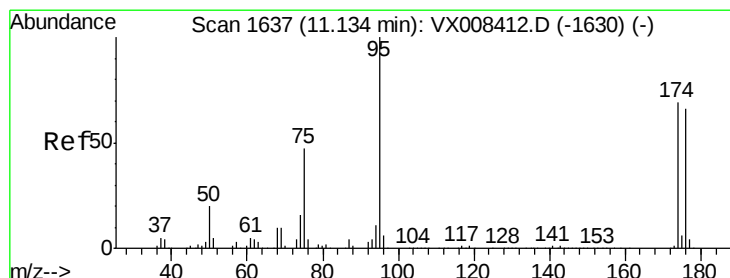
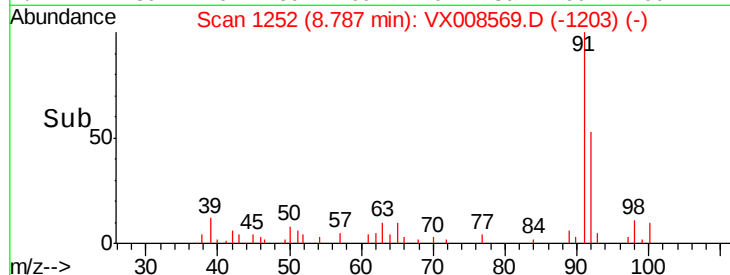
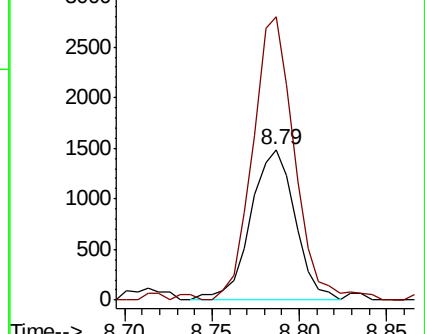
92 100

91 177.0 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 43.339 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008569.D

Acq: 01 Apr 2019 15:23

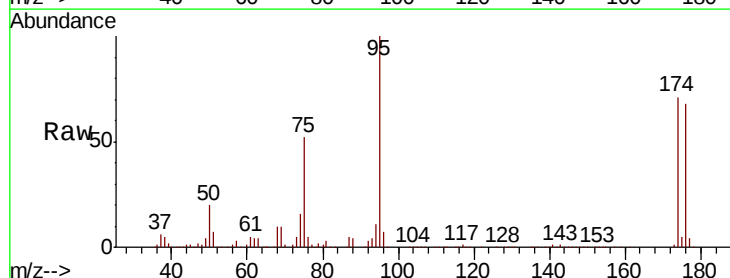
Tgt Ion: 95 Resp: 157526

Ion Ratio Lower Upper

95 100

174 75.2 0.0 147.2

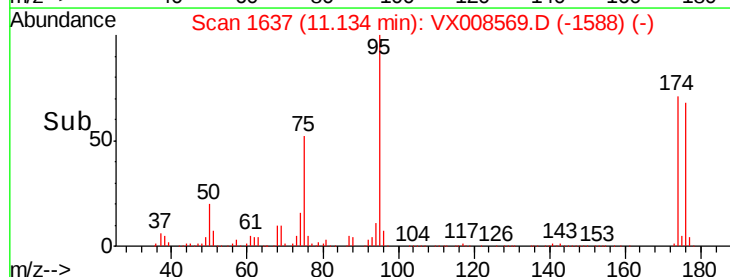
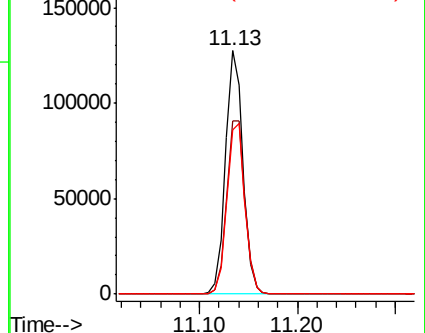
176 72.5 0.0 142.4

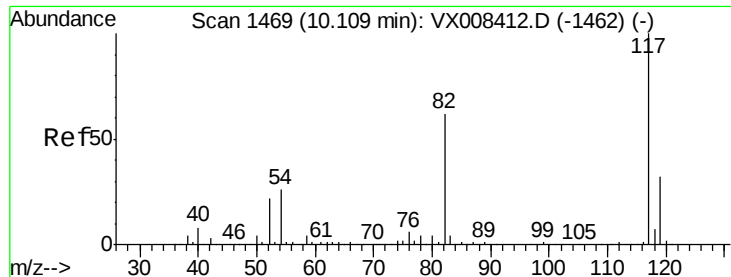


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

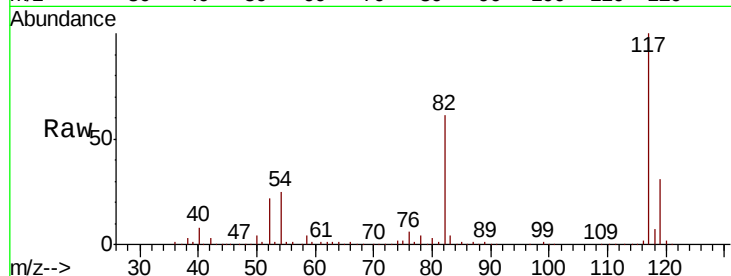




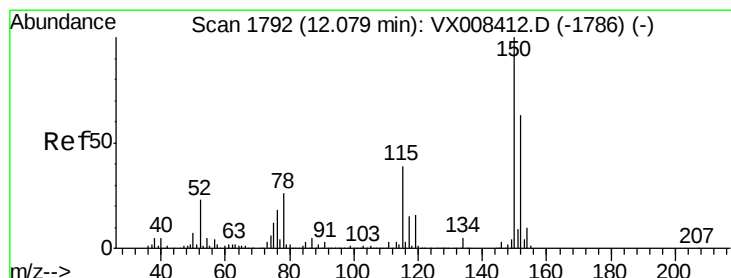
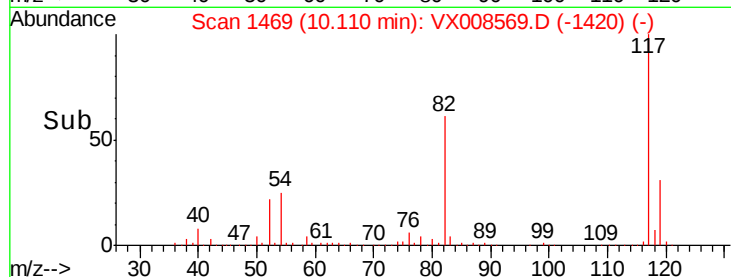
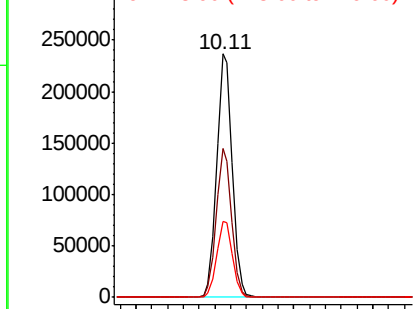
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 324271
Ion Ratio Lower Upper
117 100
82 61.1 49.4 74.2
119 31.2 25.4 38.0

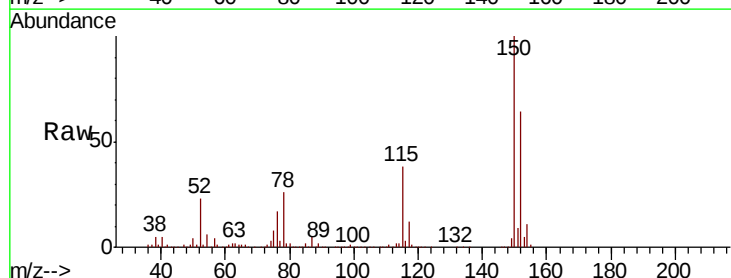


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

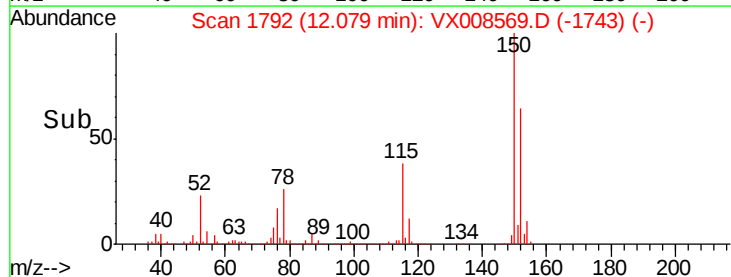
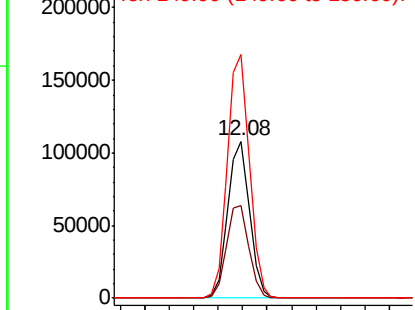


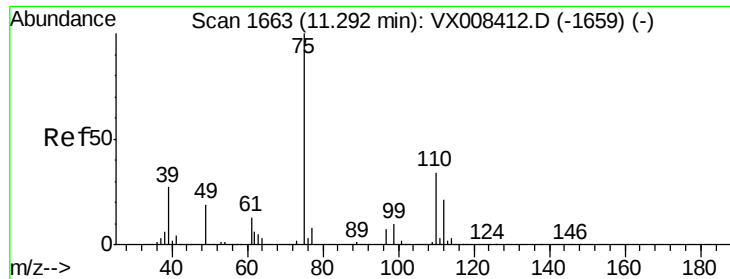
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008569.D
Acq: 01 Apr 2019 15:23

Tgt Ion:152 Resp: 132761
Ion Ratio Lower Upper
152 100
115 60.8 43.5 130.5
150 157.2 0.0 348.8



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

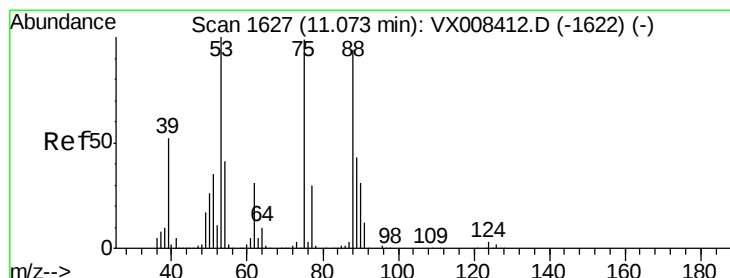
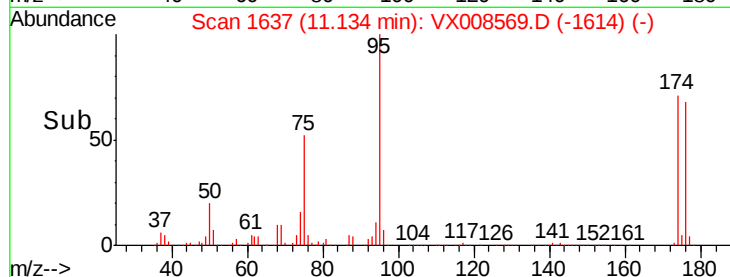
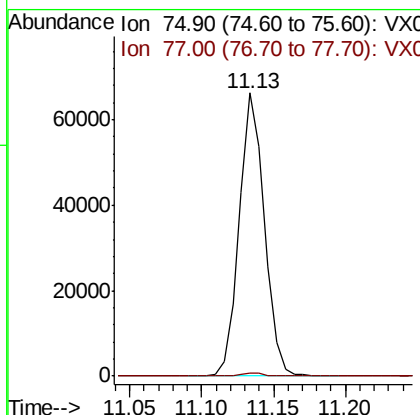
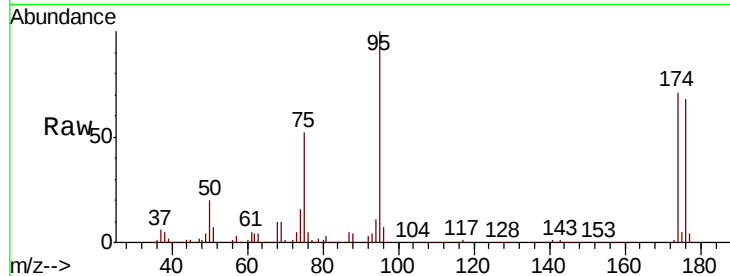




#76
 1,2,3-Trichloropropane
 Concen: 20.401 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008569.D
 Acq: 01 Apr 2019 15:23

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 80520
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.9 65.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.341 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008569.D
 Acq: 01 Apr 2019 15:23

Tgt Ion: 75 Resp: 80520
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.1 123.1#
 89 0.0 34.6 52.0#

