

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041919\
 Data File : VX009069.D
 Acq On : 19 Apr 2019 14:44
 Operator : JC/SP
 Sample : K2449-13DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW302-190416DL

Quant Time: Apr 20 00:38:41 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	236390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	383146	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	323592	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132195	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	160497	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
35) Dibromofluoromethane	5.50	113	118043	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
50) Toluene-d8	8.71	98	476025	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
62) 4-Bromofluorobenzene	11.13	95	152761	44.13	ug/l	0.00
Spiked Amount			Recovery	=	88.26%	

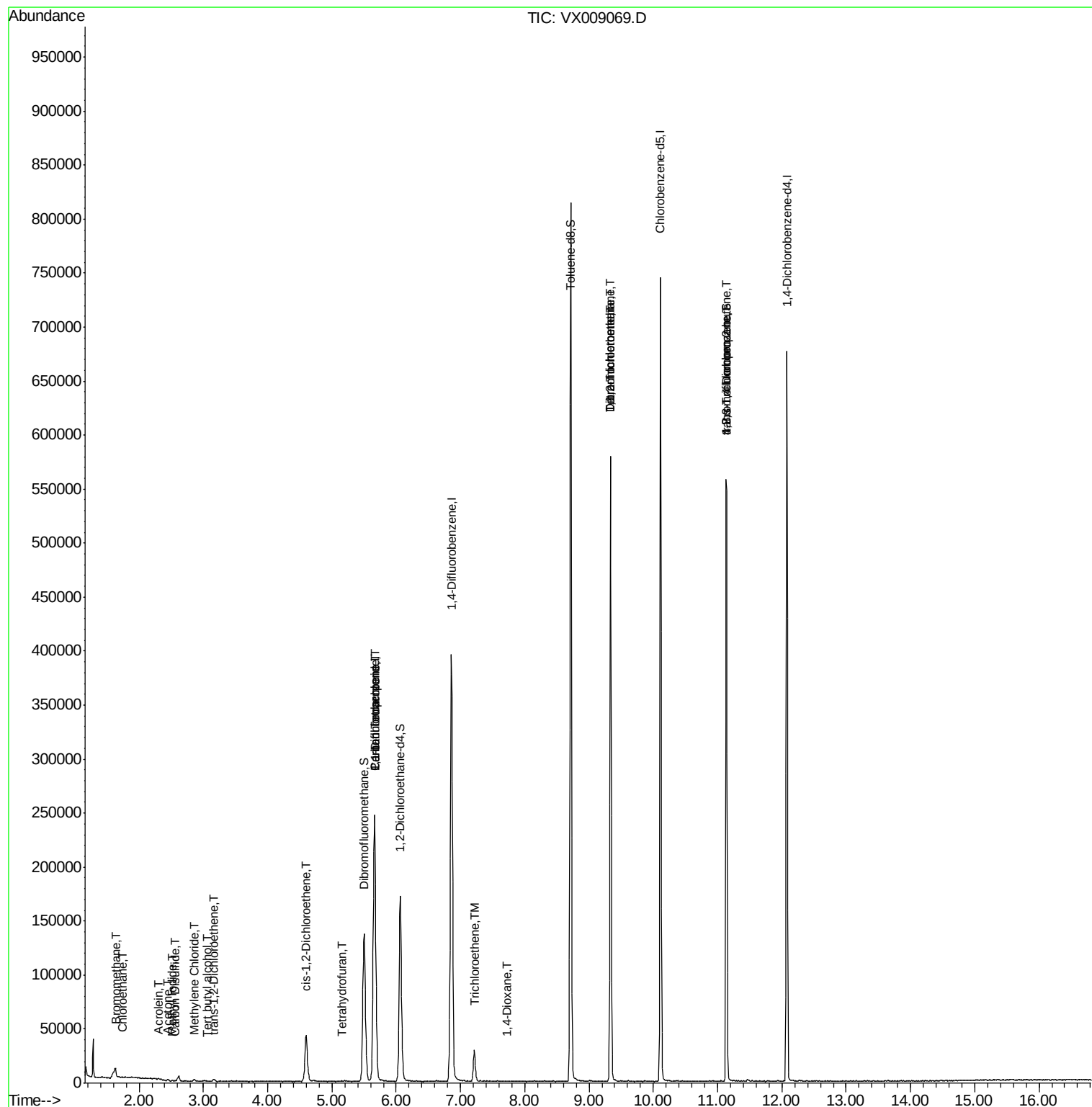
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	565	4.104	ug/l #	56
6) Chloroethane	1.75	64	1513	0.791	ug/l #	80
10) Methyl Iodide	2.52	142	271	4.508	ug/l #	87
11) Tert butyl alcohol	3.06	59	172	0.233	ug/l #	46
13) Acrolein	2.30	56	249	0.390	ug/l #	49
16) Acetone	2.45	43	1769	1.024	ug/l	97
17) Carbon Disulfide	2.57	76	831	1.361	ug/l #	64
20) Methylene Chloride	2.86	84	774	0.262	ug/l #	89
21) trans-1,2-Dichloroethene	3.17	96	567	0.210	ug/l	83
27) cis-1,2-Dichloroethene	4.60	96	26529	8.642	ug/l	92
28) Bromochloromethane	5.01	49	19	Below Cal	#	21
29) Tetrahydrofuran	5.15	42	640	0.346	ug/l #	73
36) 1,1-Dichloropropene	5.67	75	18944	4.781	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22818	6.792	ug/l #	18
44) Trichloroethene	7.21	130	10893	3.803	ug/l	96
49) 1,4-Dioxane	7.72	88	21	0.276	ug/l #	1
55) 1,1,2-Trichloroethane	9.33	97	1005	0.362	ug/l #	1
60) Dibromochloromethane	9.34	129	103910	39.047	ug/l #	10
64) Tetrachloroethene	9.34	164	111700	45.439	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	77863	24.122	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	77863	61.927	ug/l #	11

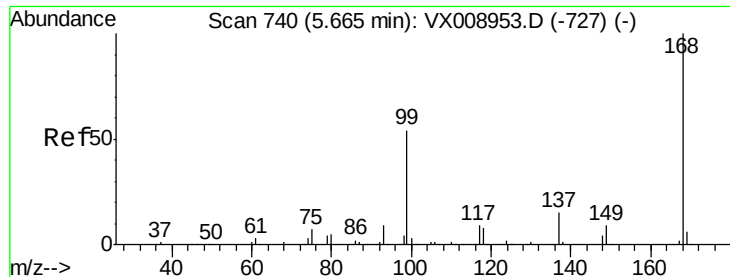
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

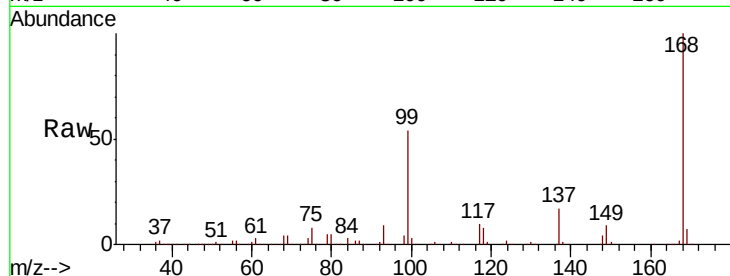
SS037MW302-190416DL

Tot Ion:168 Resp: 236390

Ion Ratio Lower Upper

168 100

99 54.0 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

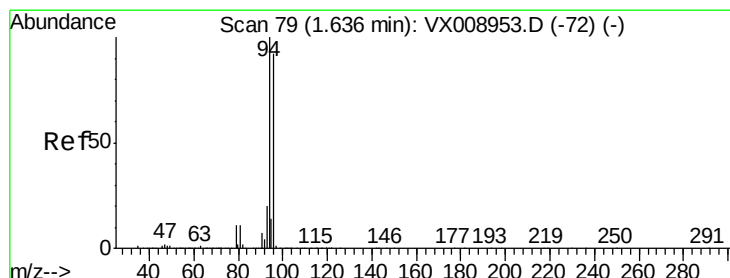
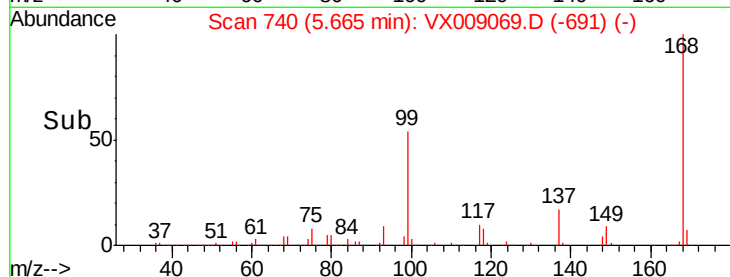
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.104 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009069.D

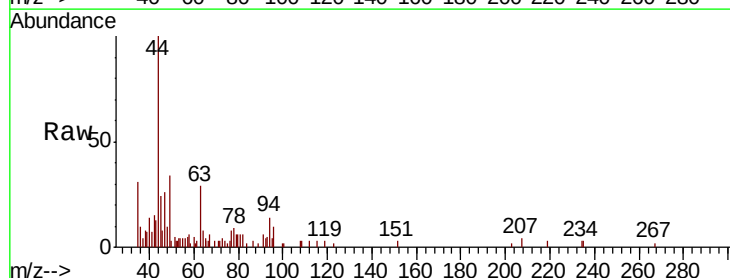
Acq: 19 Apr 2019 14:44

Tgt Ion: 94 Resp: 565

Ion Ratio Lower Upper

94 100

96 50.7 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

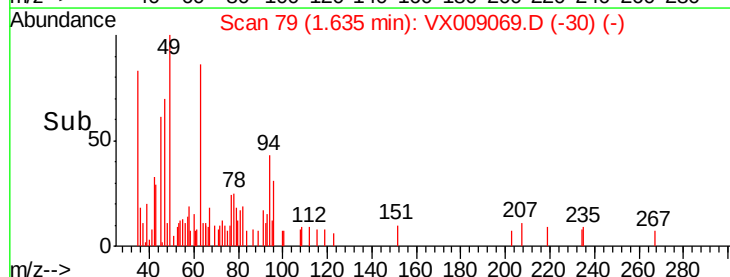
300

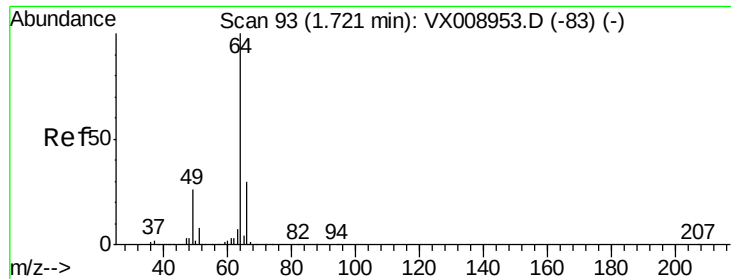
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.791 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.03 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

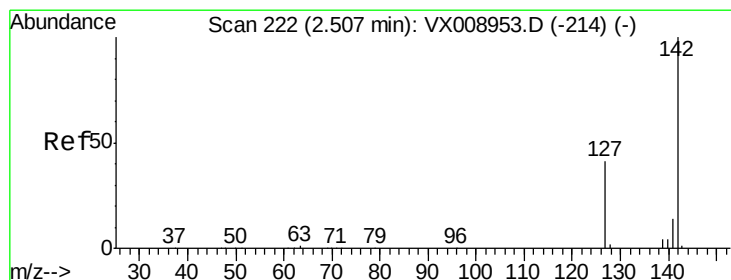
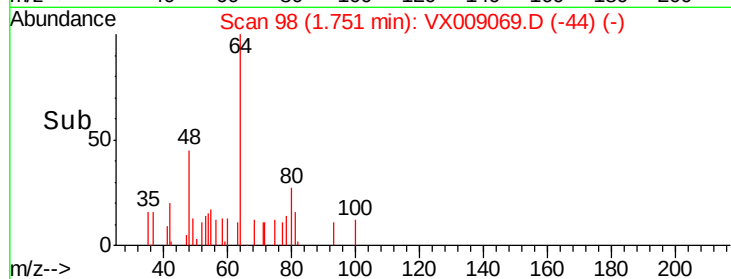
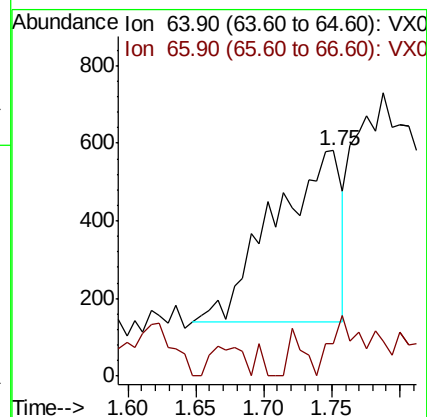
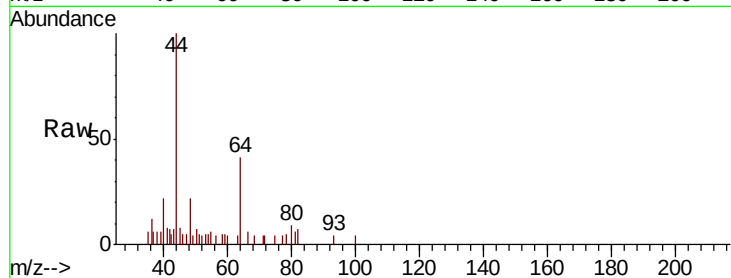
SS037MW302-190416DL

Tot Ion: 64 Resp: 1513

Ion Ratio Lower Upper

64 100

66 19.3 24.2 36.2#



#10

Methyl Iodide

Concen: 4.508 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

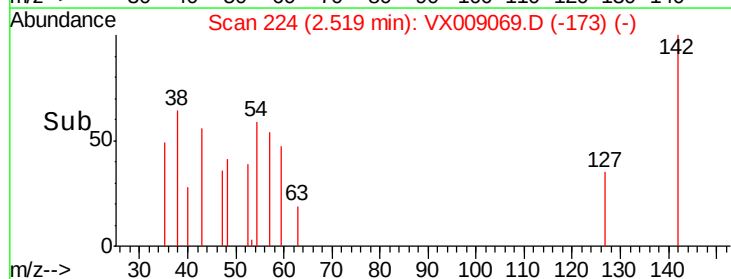
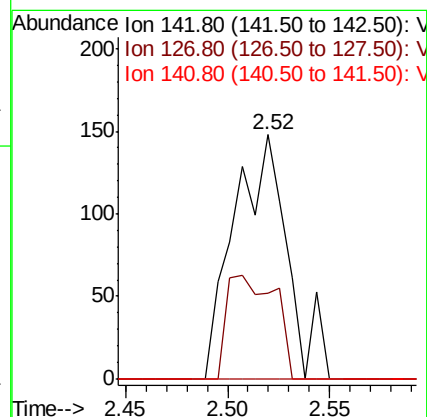
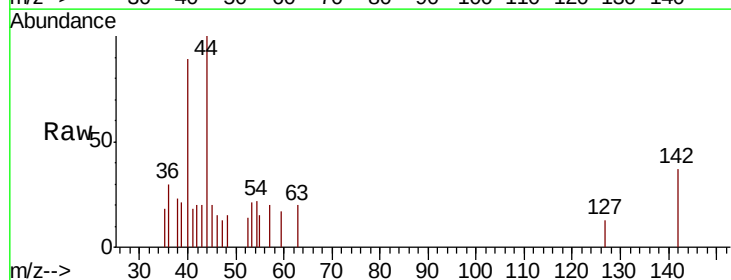
Tgt Ion: 142 Resp: 271

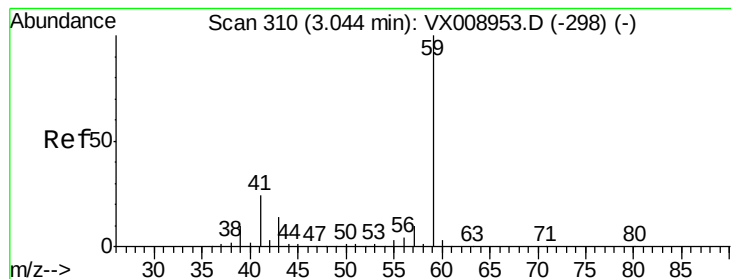
Ion Ratio Lower Upper

142 100

127 38.0 32.8 49.2

141 0.0 11.4 17.2#



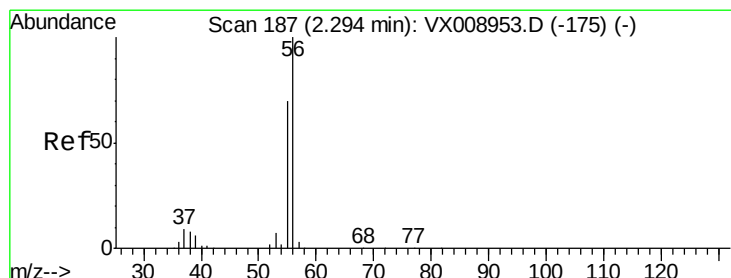
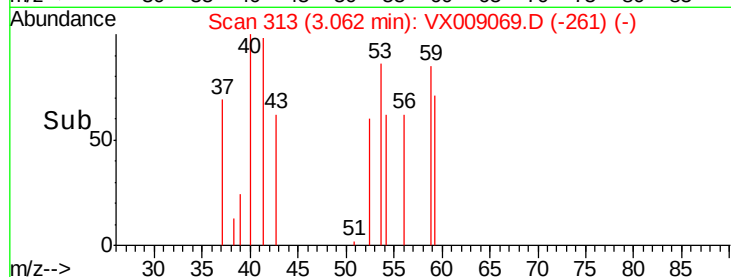
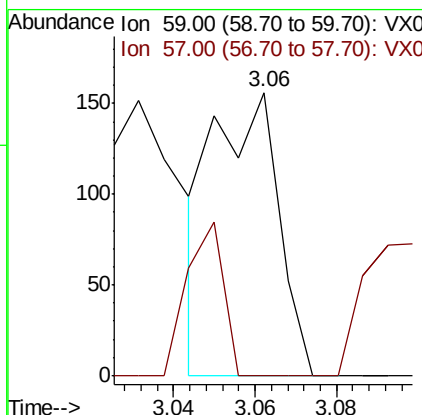
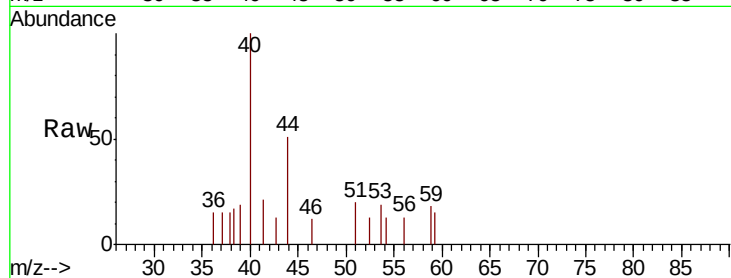


#11

Tert butyl alcohol
 Concen: 0.233 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. 0.02 min
 Lab File: VX009069.D
 Acq: 19 Apr 2019 14:44

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW302-190416DL

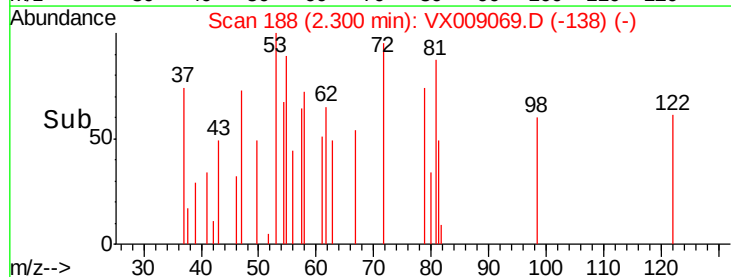
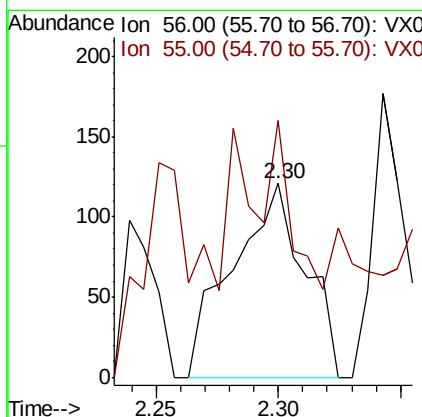
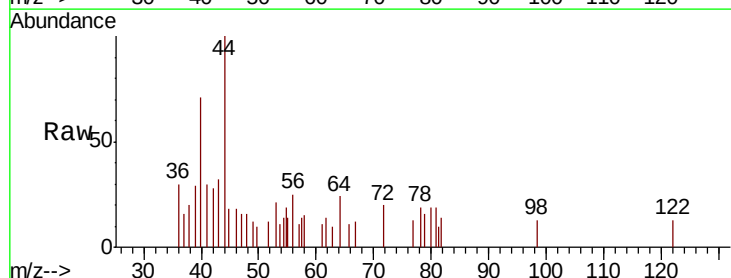
Tot Ion: 59 Resp: 172
 Ion Ratio Lower Upper
 59 100
 57 30.8 8.4 12.6#

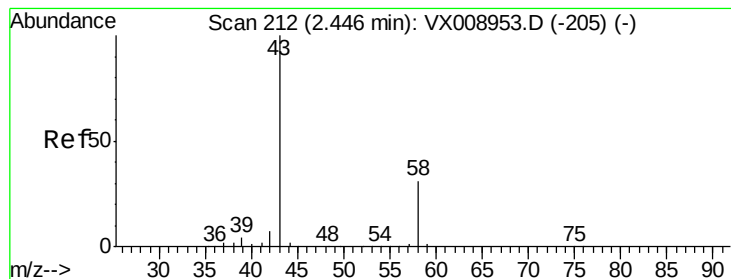


#13

Acrolein
 Concen: 0.390 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX009069.D
 Acq: 19 Apr 2019 14:44

Tgt Ion: 56 Resp: 249
 Ion Ratio Lower Upper
 56 100
 55 28.9 56.6 84.8#





#16

Acetone

Concen: 1.024 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

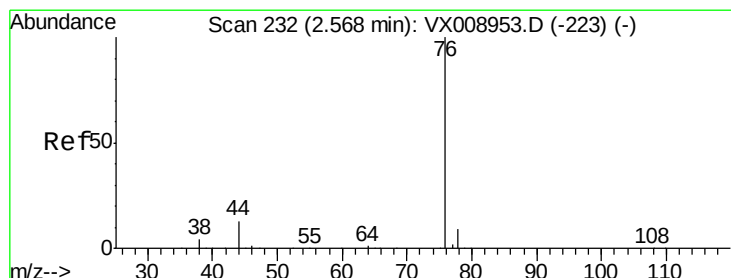
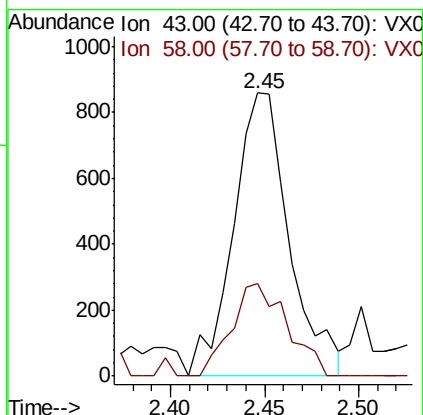
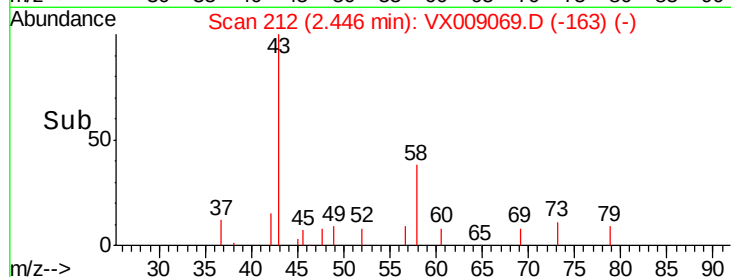
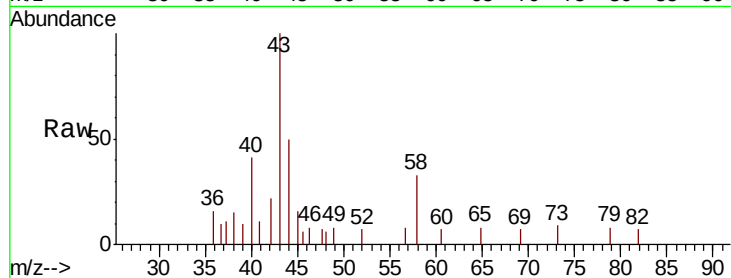
SS037MW302-190416DL

Tot Ion: 43 Resp: 1769

Ion Ratio Lower Upper

43 100

58 32.6 24.8 37.2



#17

Carbon Disulfide

Concen: 1.361 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009069.D

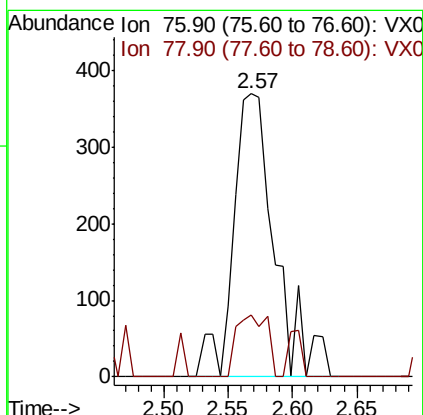
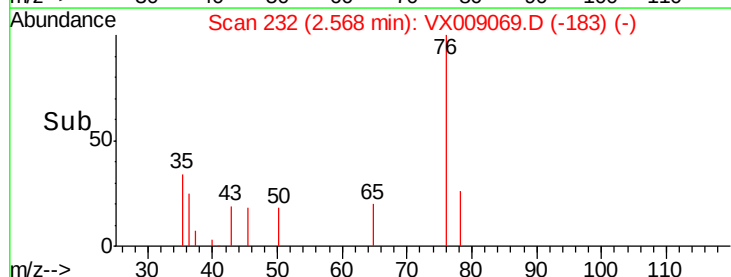
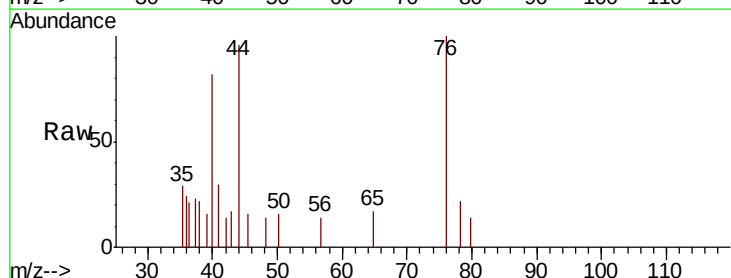
Acq: 19 Apr 2019 14:44

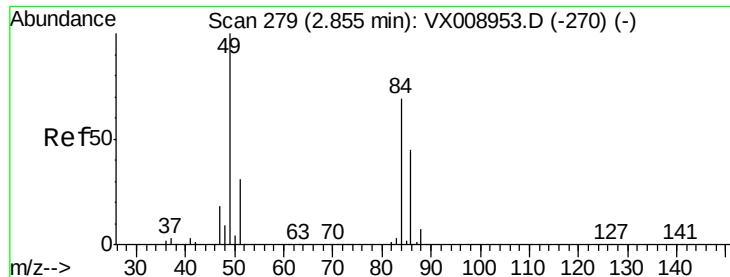
Tgt Ion: 76 Resp: 831

Ion Ratio Lower Upper

76 100

78 22.0 7.2 10.8#

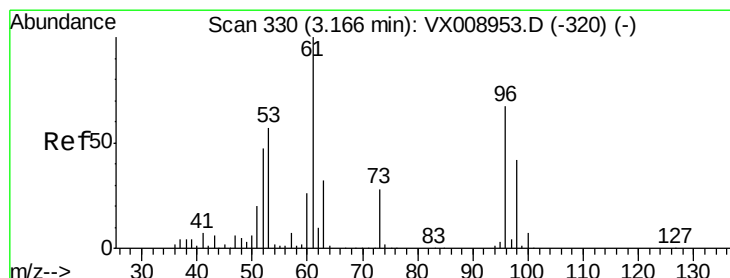
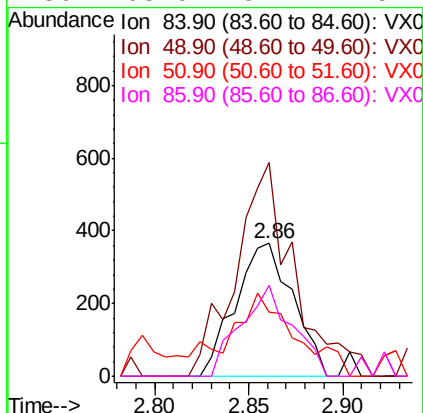
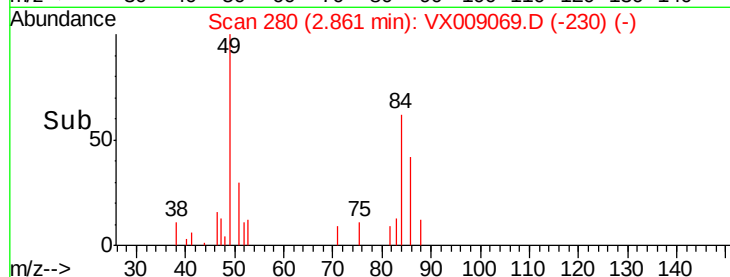
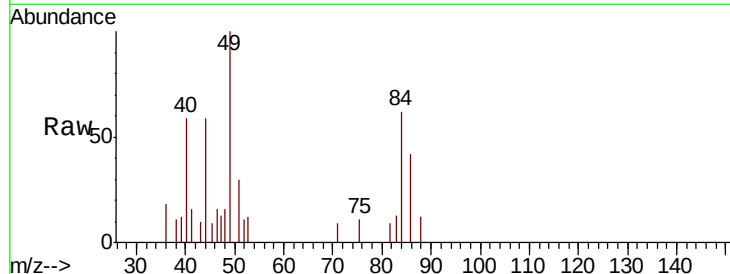




#20
Methylene Chloride
Concen: 0.262 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009069.D
Acq: 19 Apr 2019 14:44

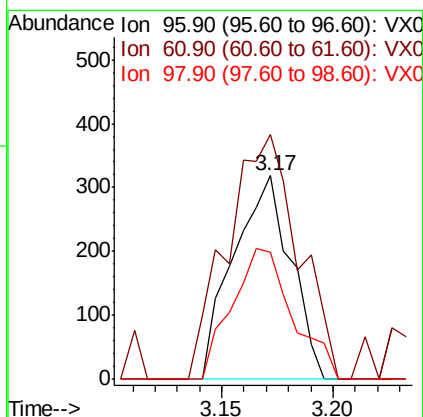
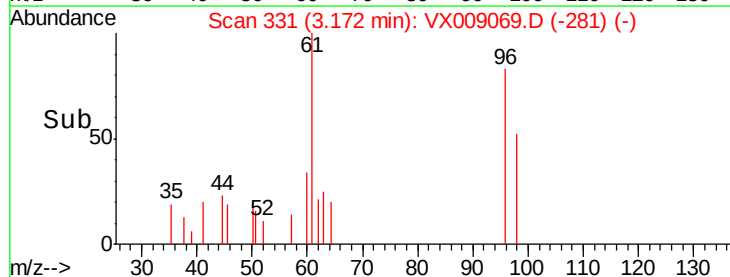
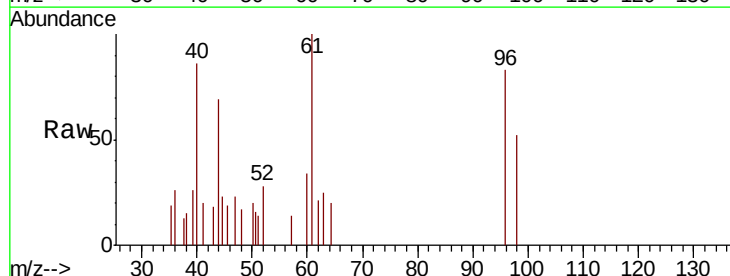
Instrument :
MSVOA_X
ClientSampleId :
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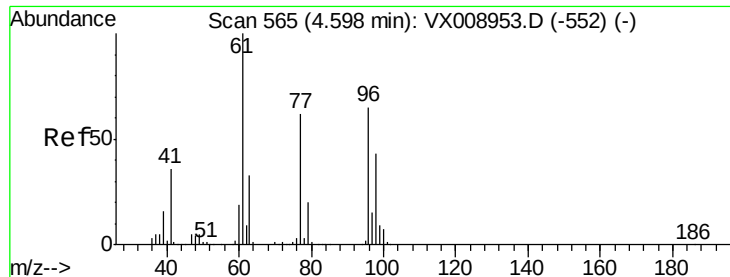
Tot Ion: 84 Resp: 774
Ion Ratio Lower Upper
84 100
49 160.7 115.4 173.0
51 33.6 35.8 53.6#
86 68.0 52.1 78.1



#21
trans-1,2-Dichloroethene
Concen: 0.210 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX009069.D
Acq: 19 Apr 2019 14:44

Tgt Ion: 96 Resp: 567
Ion Ratio Lower Upper
96 100
61 120.4 120.3 180.5
98 62.6 50.2 75.2



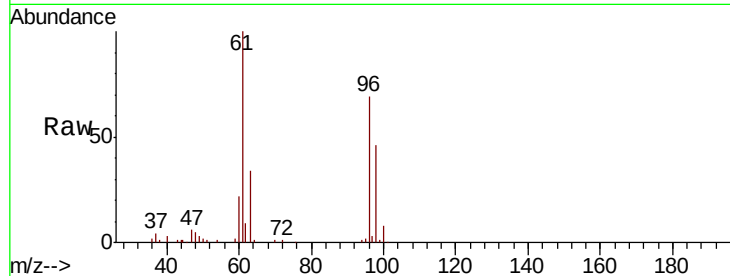


#27

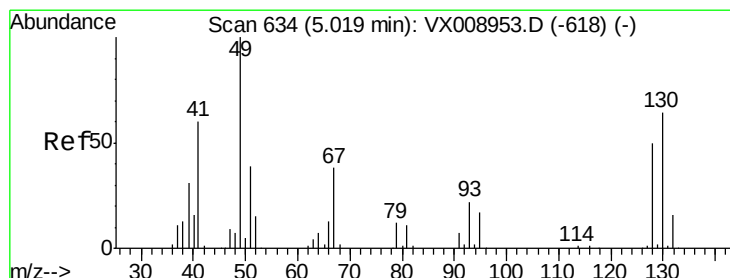
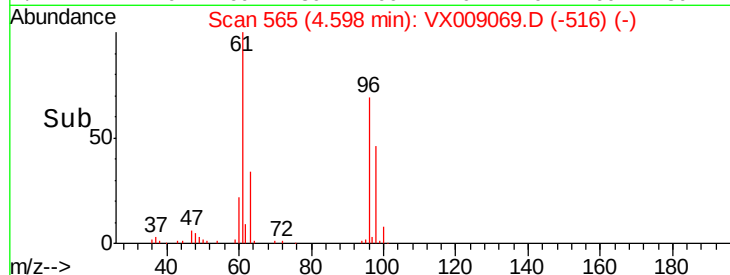
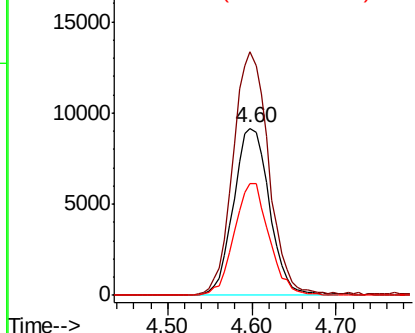
cis-1,2-Dichloroethene
Concen: 8.642 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX009069.D
Acq: 19 Apr 2019 14:44

Instrument :
MSVOA_X
ClientSampleId :
SS037MW302-190416DL

Tot Ion: 96 Resp: 26529
Ion Ratio Lower Upper
96 100
61 145.6 0.0 322.0
98 64.6 0.0 128.4



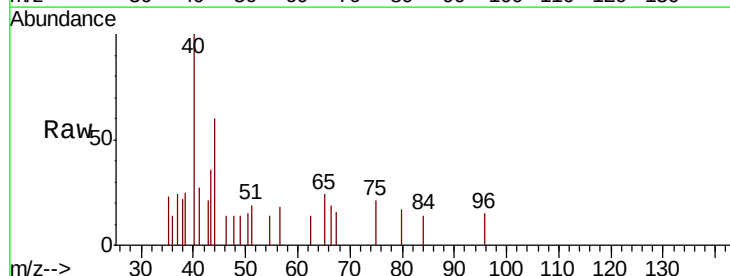
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



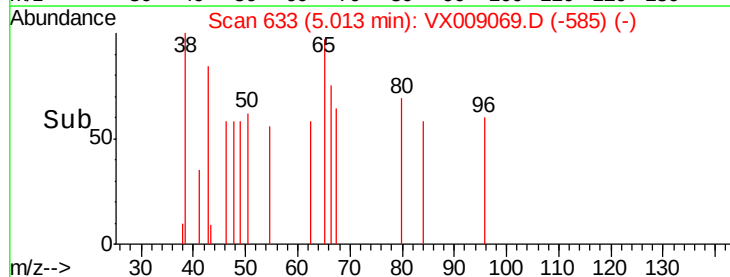
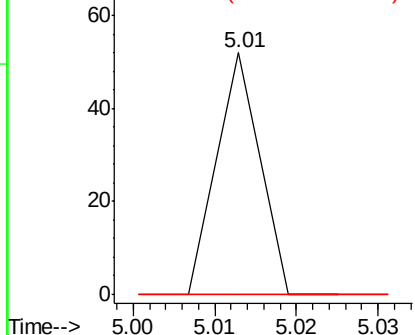
#28

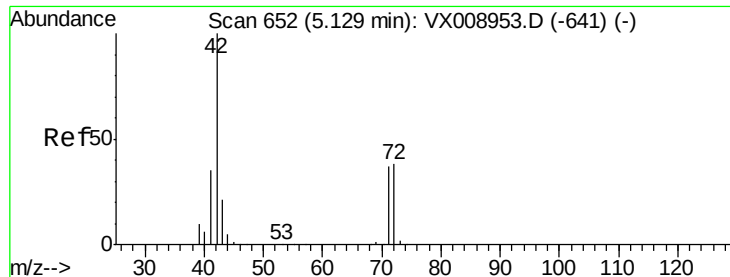
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 633
Delta R.T. -0.01 min
Lab File: VX009069.D
Acq: 19 Apr 2019 14:44

Tgt Ion: 49 Resp: 19
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.346 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

SS037MW302-190416DL

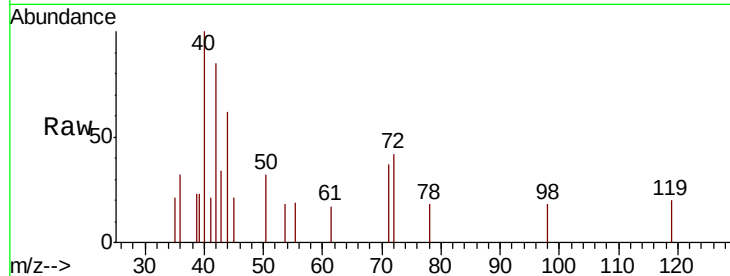
Tot Ion: 42 Resp: 640

Ion Ratio Lower Upper

42 100

72 57.3 30.6 45.8#

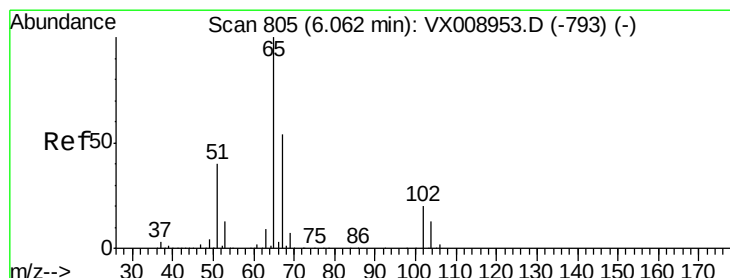
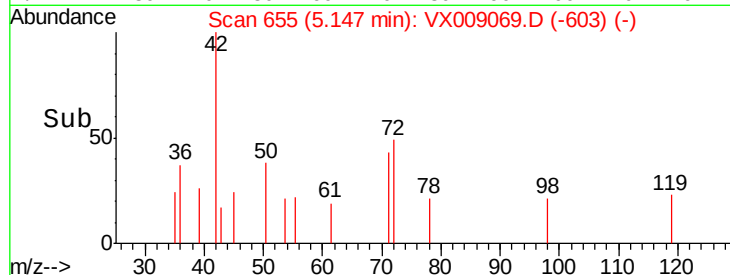
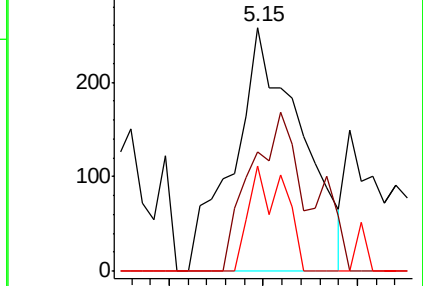
71 22.7 28.8 43.2#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.177 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009069.D

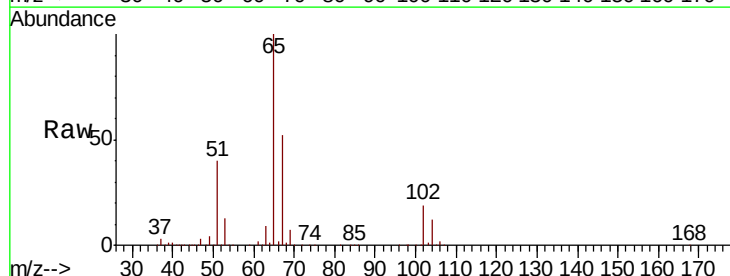
Acq: 19 Apr 2019 14:44

Tgt Ion: 65 Resp: 160497

Ion Ratio Lower Upper

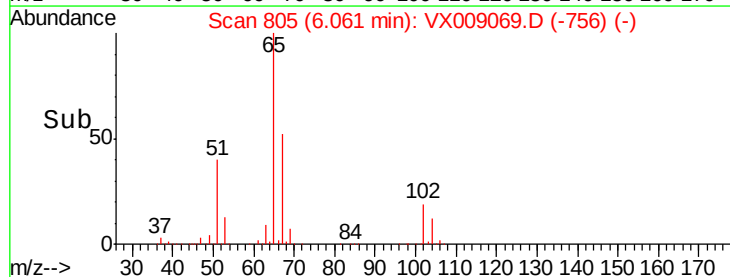
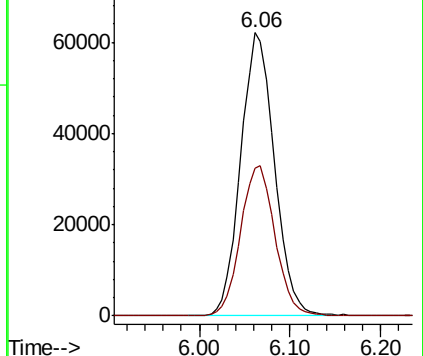
65 100

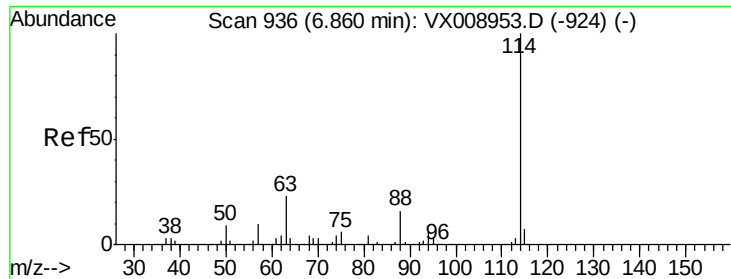
67 54.0 0.0 108.6



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: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

SS037MW302-190416DL

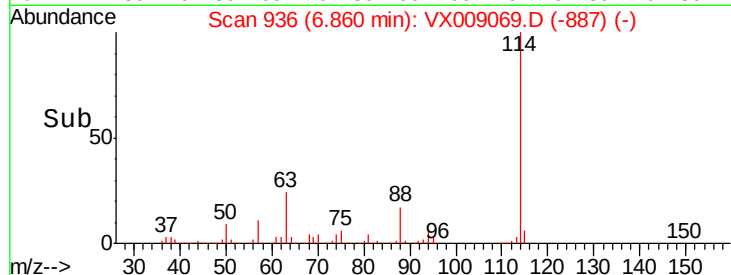
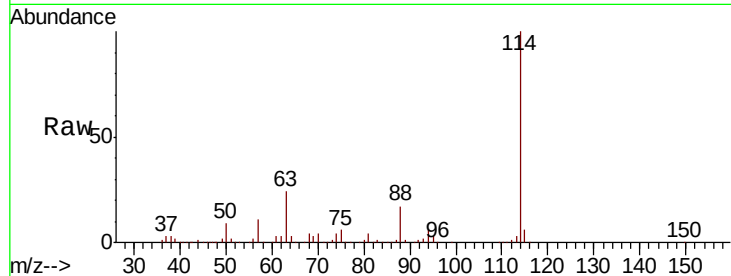
Tot Ion:114 Resp: 383146

Ion Ratio Lower Upper

114 100

63 23.8 0.0 46.0

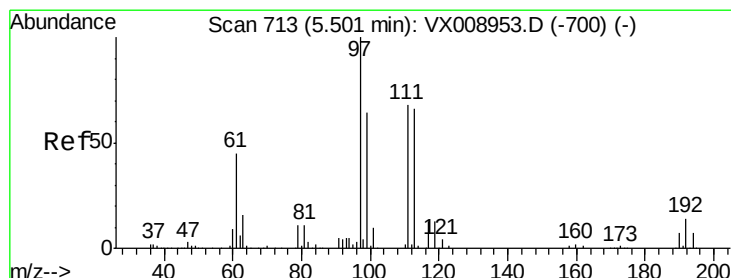
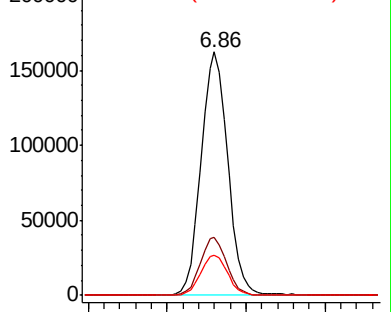
88 16.5 0.0 32.6



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: 48.006 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

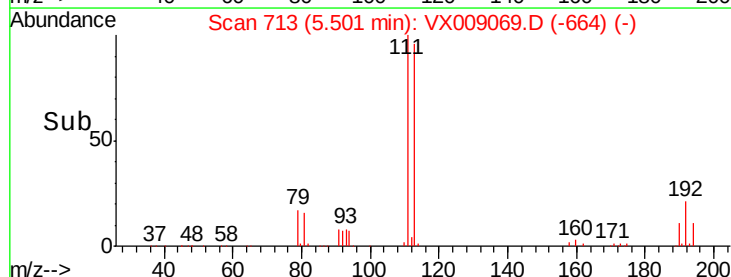
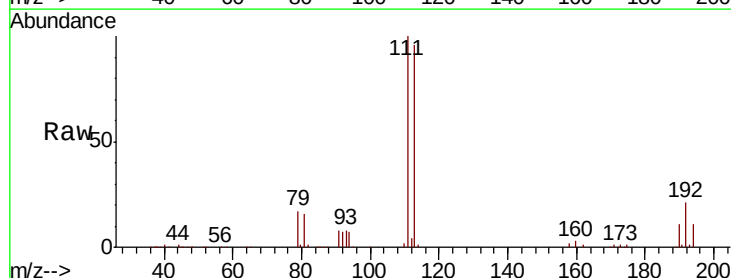
Tgt Ion:113 Resp: 118043

Ion Ratio Lower Upper

113 100

111 103.5 82.9 124.3

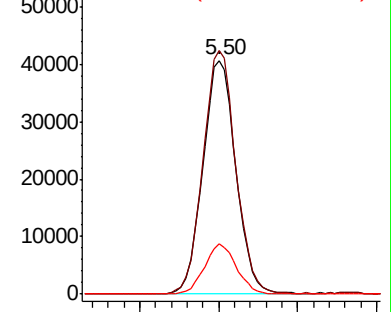
192 20.9 17.4 26.0

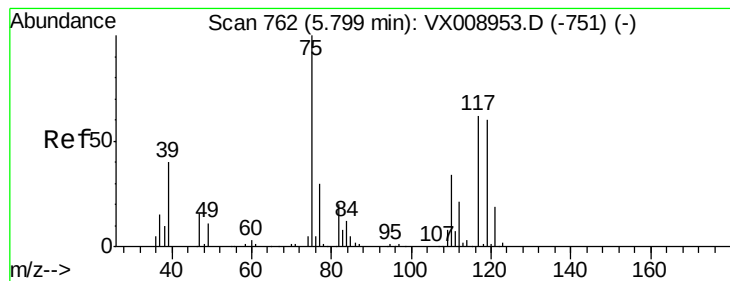


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.781 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

SS037MW302-190416DL

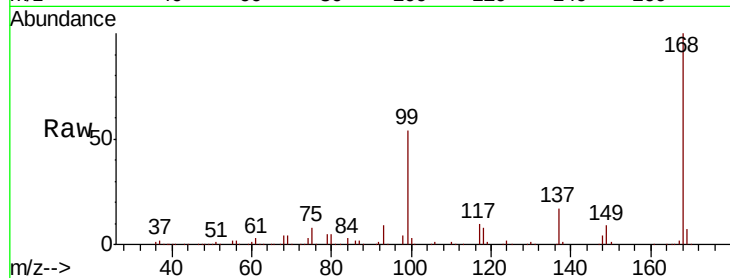
Tot Ion: 75 Resp: 18944

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.7#

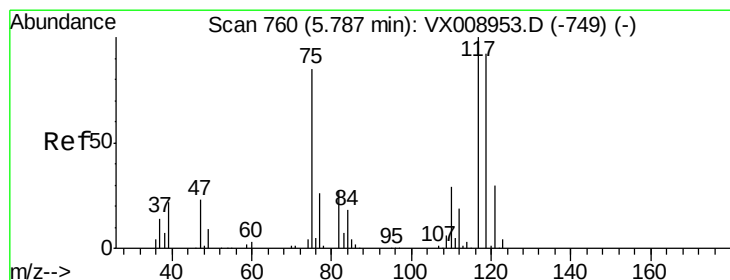
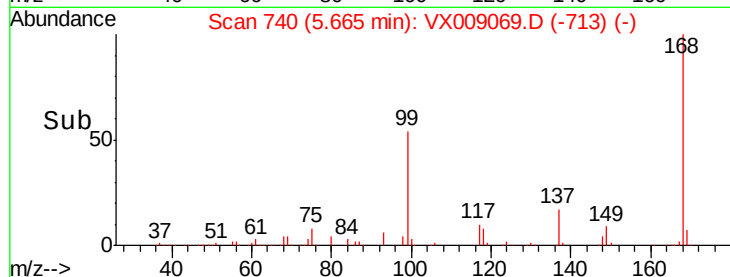
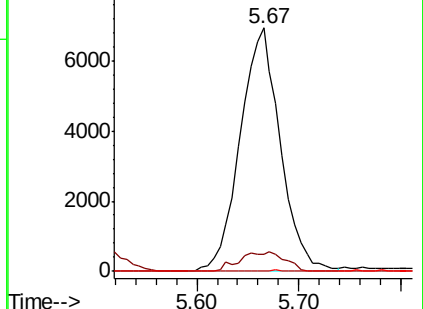
77 0.1 25.0 37.4#



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: 6.792 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

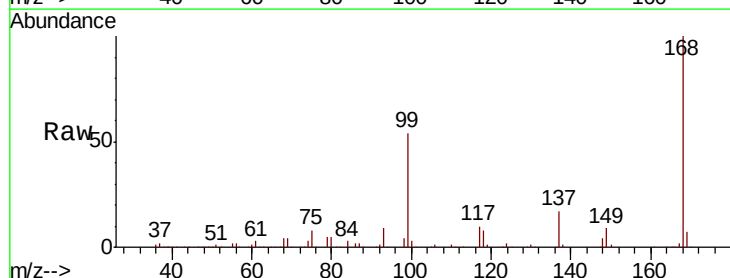
Tgt Ion: 117 Resp: 22818

Ion Ratio Lower Upper

117 100

119 5.7 73.8 110.8#

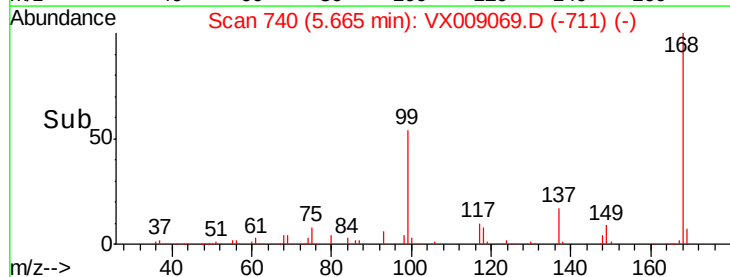
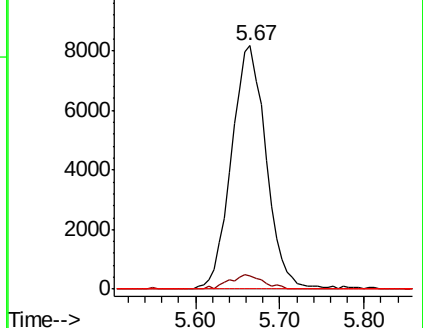
121 0.0 23.6 35.4#

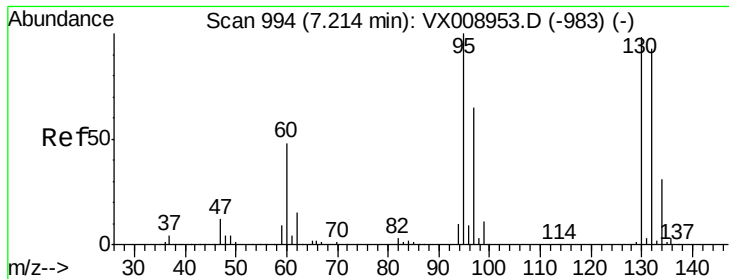


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 3.803 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

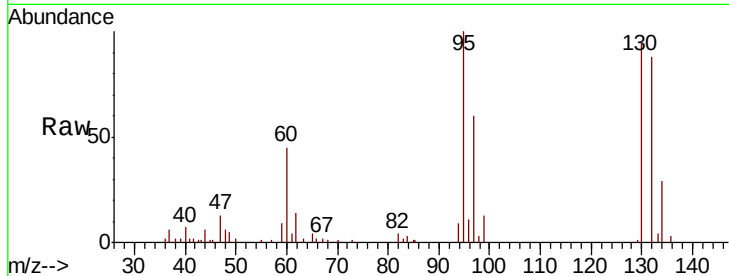
SS037MW302-190416DL

Tot Ion:130 Resp: 10893

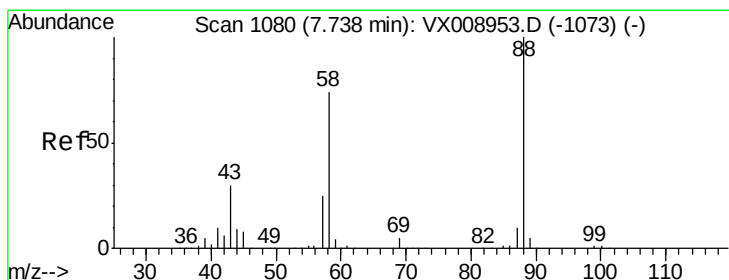
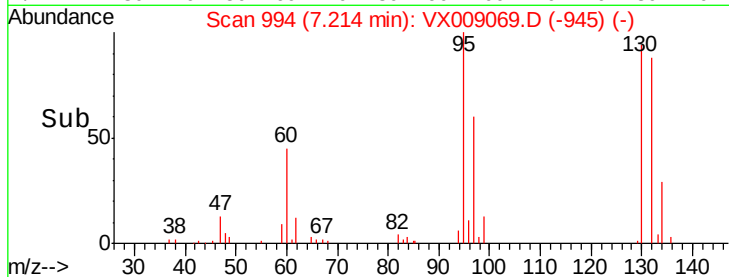
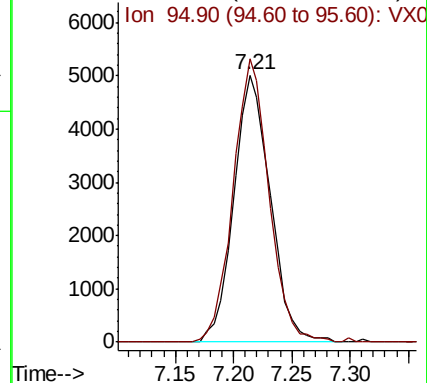
Ion Ratio Lower Upper

130 100

95 106.1 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.276 ug/l

RT: 7.72 min Scan# 1077

Delta R.T. -0.02 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

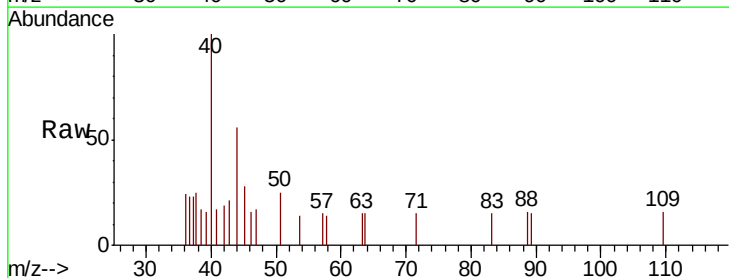
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

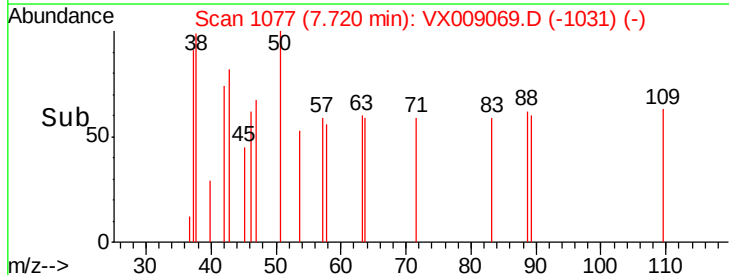
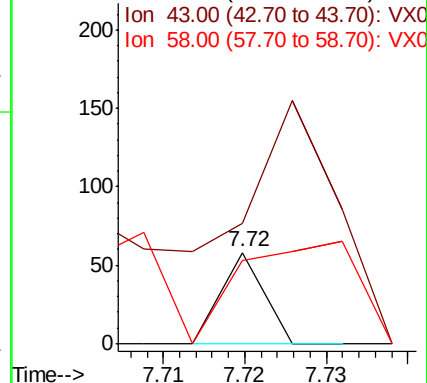
88 100

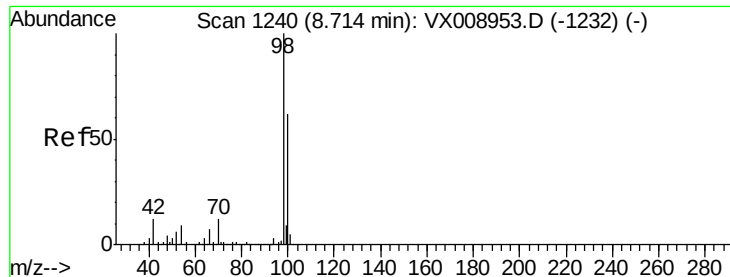
43 552.4 29.3 43.9#

58 309.5 62.6 93.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0





#50

Toluene-d8

Concen: 48.542 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

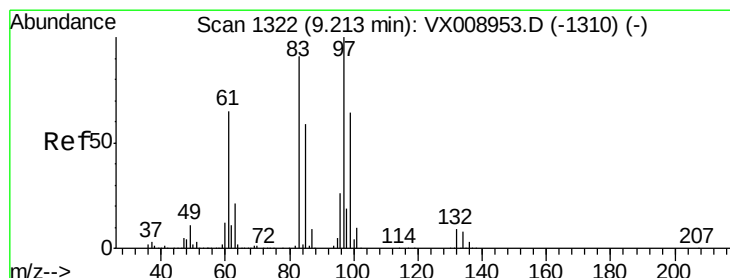
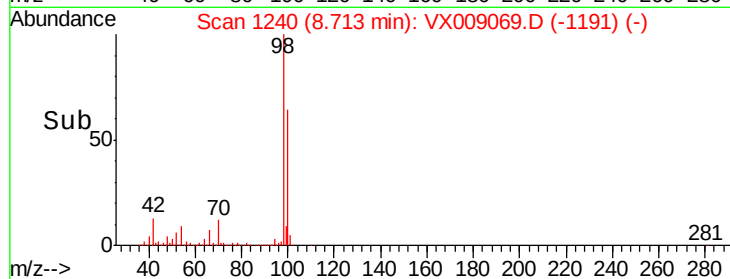
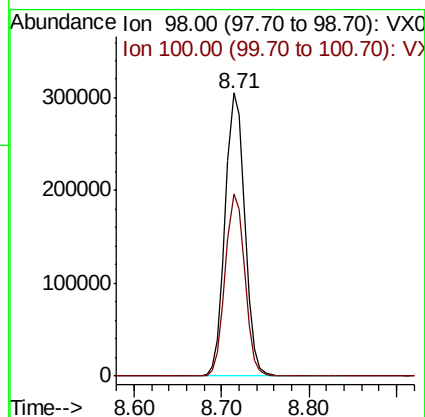
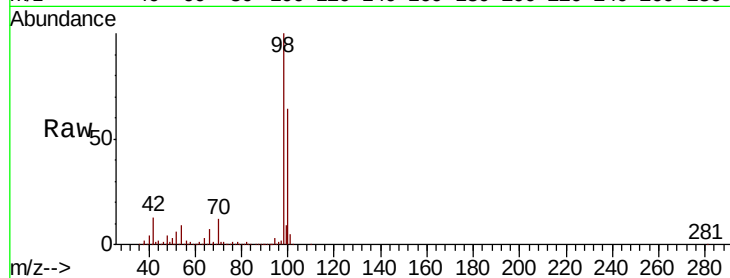
SS037MW302-190416DL

Tot Ion: 98 Resp: 476025

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.2



#55

1,1,2-Trichloroethane

Concen: 0.362 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. 0.12 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Tgt Ion: 97 Resp: 1005

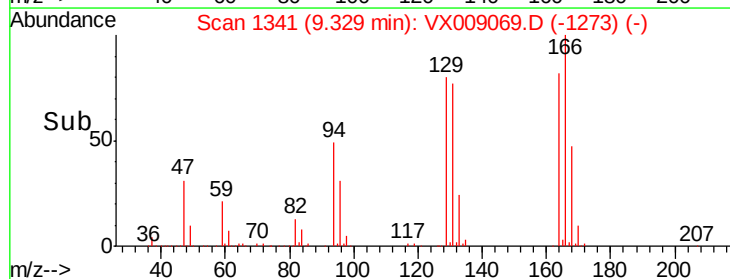
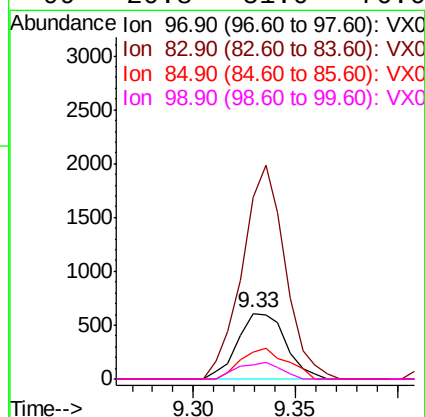
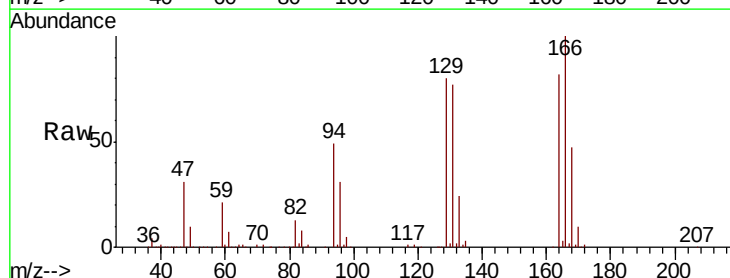
Ion Ratio Lower Upper

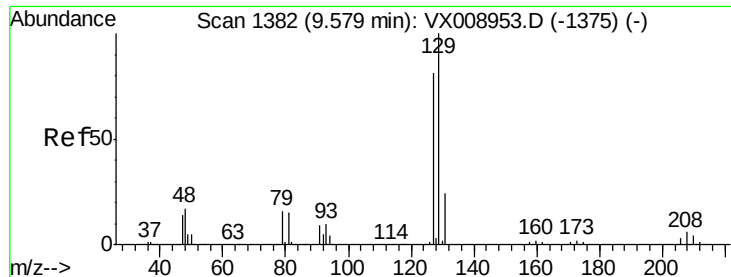
97 100

83 278.7 72.6 108.8#

85 42.2 46.9 70.3#

99 20.8 51.0 76.6#





#60

Dibromochloromethane

Concen: 39.047 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

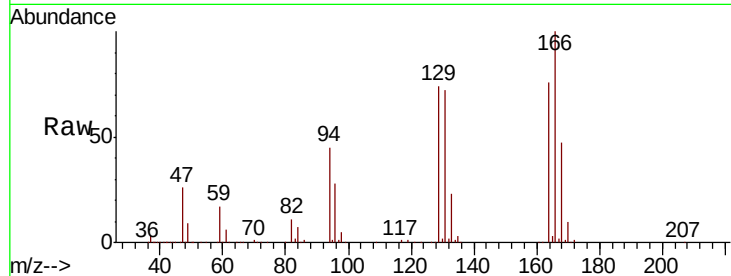
SS037MW302-190416DL

Tot Ion:129 Resp: 103910

Ion Ratio Lower Upper

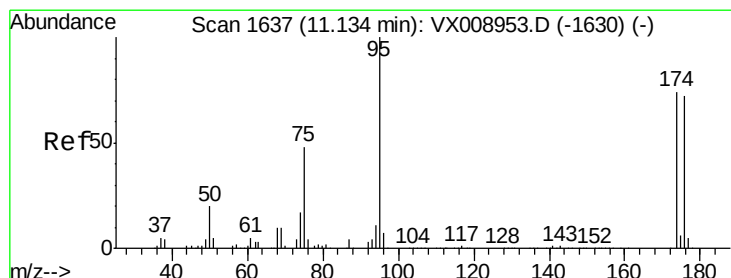
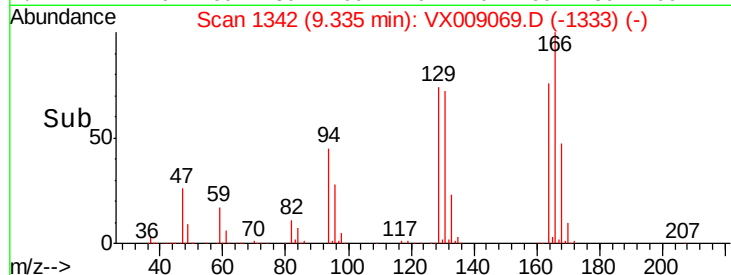
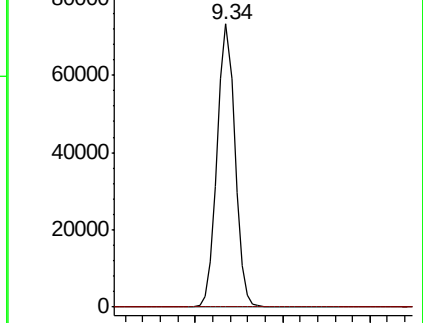
129 100

127 0.1 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.129 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

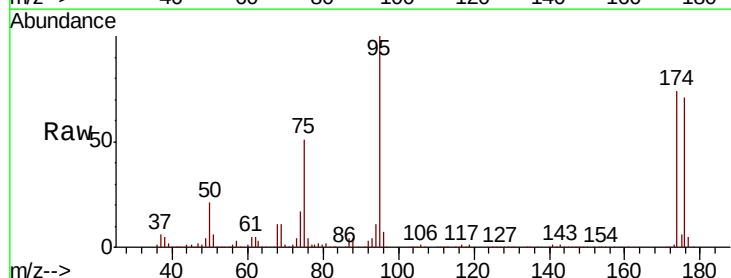
Tgt Ion: 95 Resp: 152761

Ion Ratio Lower Upper

95 100

174 79.2 0.0 159.6

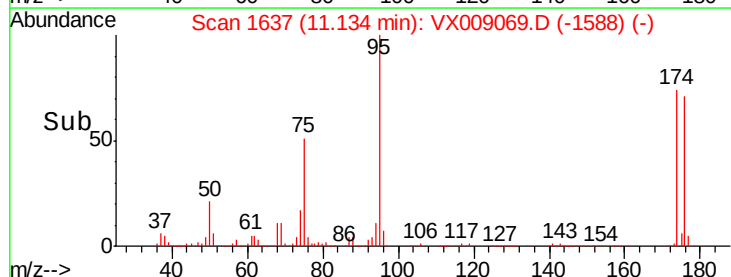
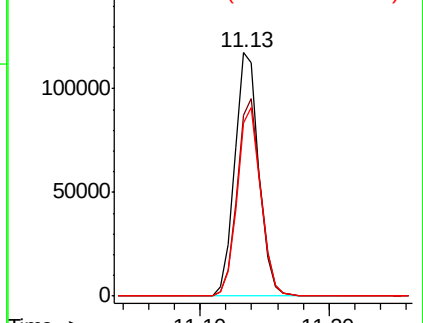
176 76.0 0.0 154.8

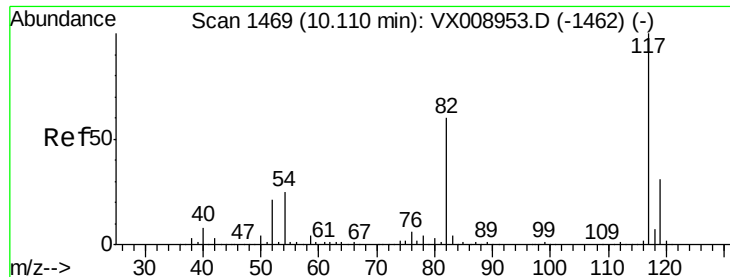


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

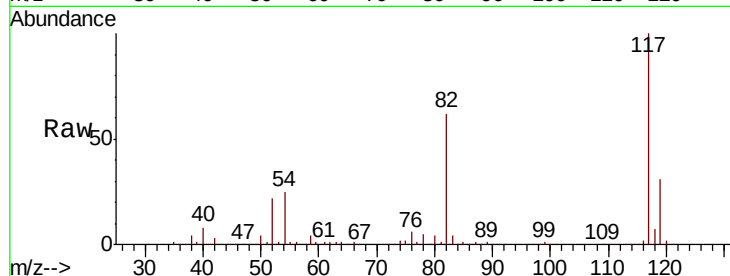




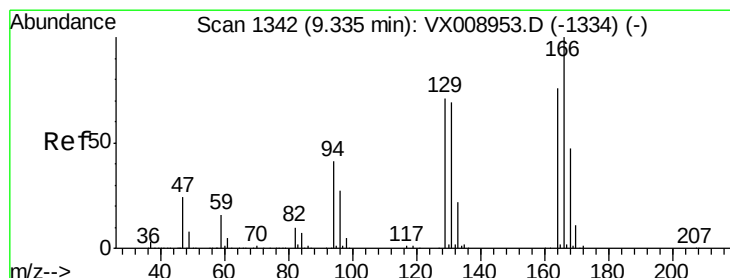
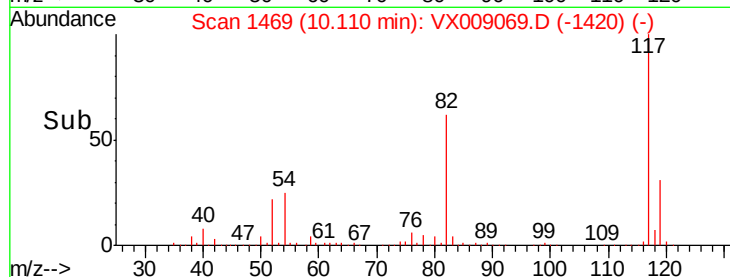
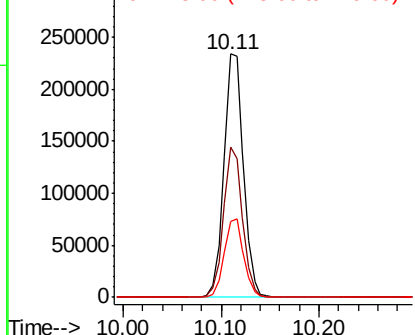
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009069.D
Acq: 19 Apr 2019 14:44

Instrument :
MSVOA_X
ClientSampleId :
SS037MW302-190416DL

Tot Ion:117 Resp: 323592
Ion Ratio Lower Upper
117 100
82 61.6 48.2 72.4
119 31.2 25.0 37.6



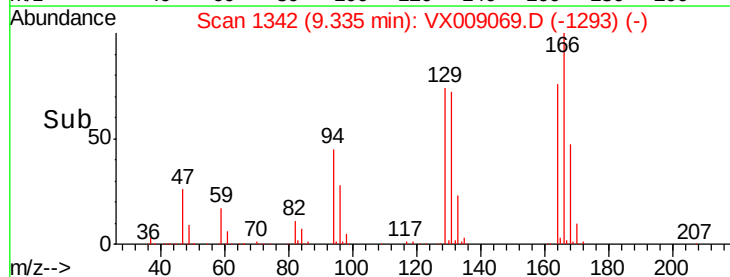
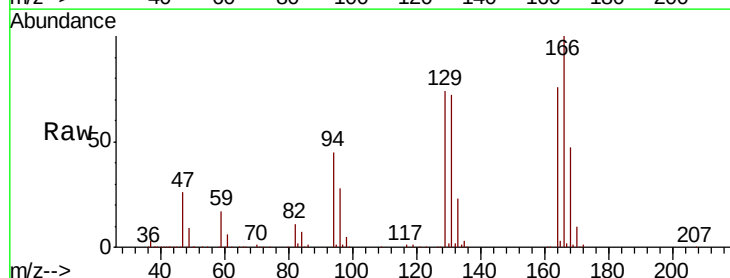
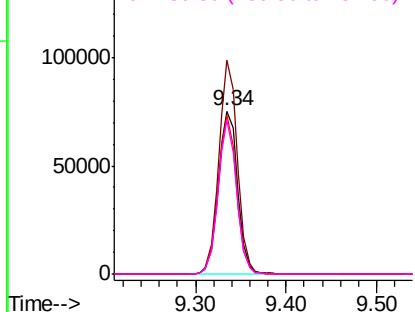
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

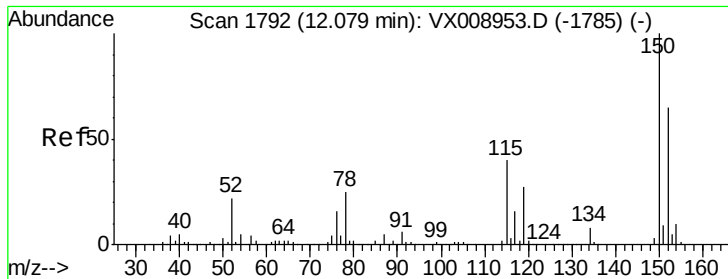


#64
Tetrachloroethene
Concen: 45.439 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009069.D
Acq: 19 Apr 2019 14:44

Tgt Ion:164 Resp: 111700
Ion Ratio Lower Upper
164 100
166 131.0 105.0 157.4
129 97.1 74.2 111.4
131 94.1 72.2 108.2

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



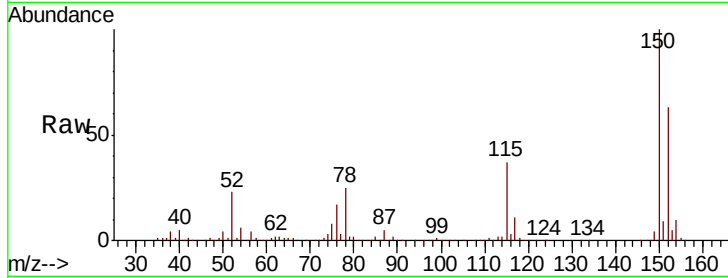


#72

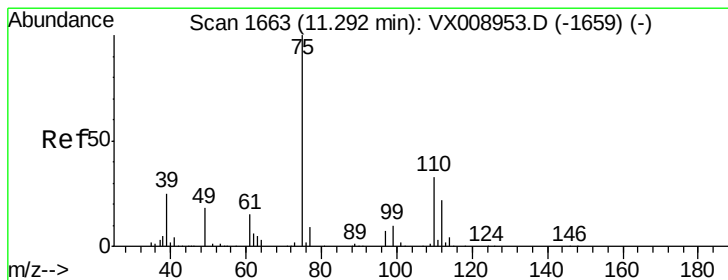
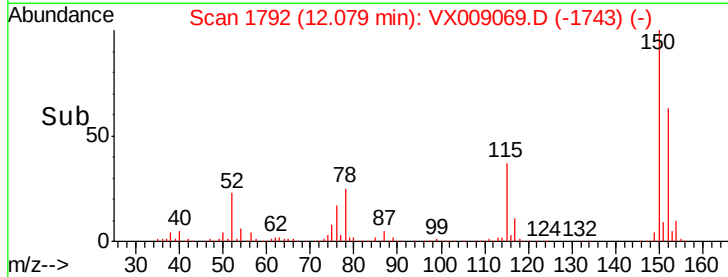
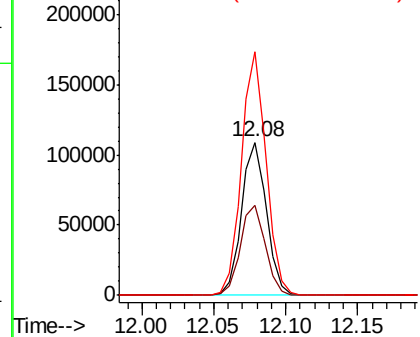
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009069.D
Acq: 19 Apr 2019 14:44

Instrument :
MSVOA_X
ClientSampleId :
SS037MW302-190416DL

Tot Ion:152 Resp: 132195
Ion Ratio Lower Upper
152 100
115 59.5 41.4 124.2
150 157.4 0.0 349.8



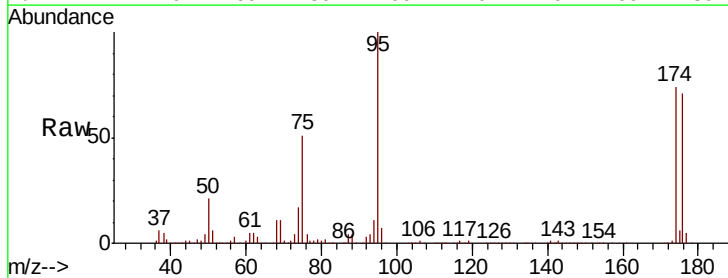
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



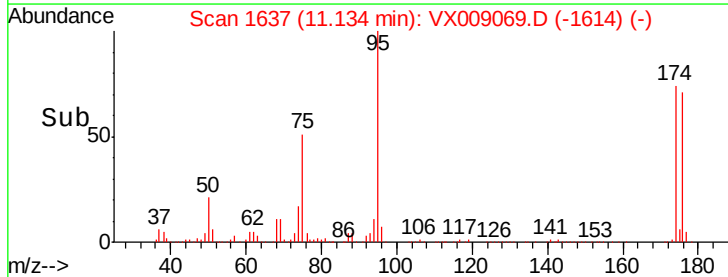
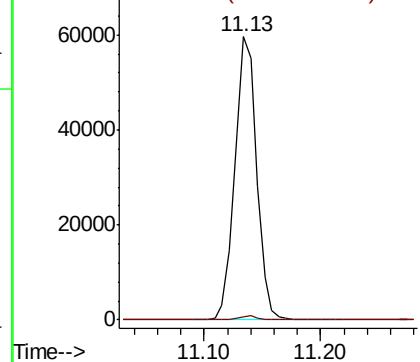
#76

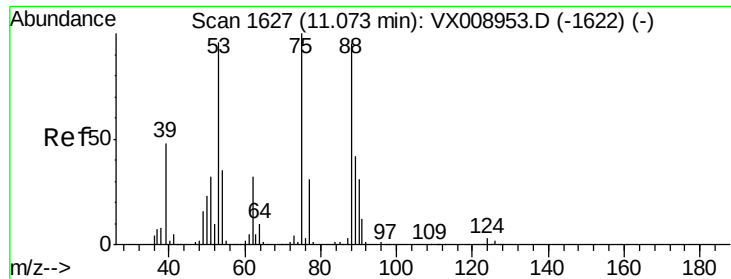
1,2,3-Trichloropropane
Concen: 24.122 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009069.D
Acq: 19 Apr 2019 14:44

Tgt Ion: 75 Resp: 77863
Ion Ratio Lower Upper
75 100
77 1.4 22.7 68.0#



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: 61.927 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009069.D

Acq: 19 Apr 2019 14:44

Instrument :

MSVOA_X

ClientSampleId :

SS037MW302-190416DL

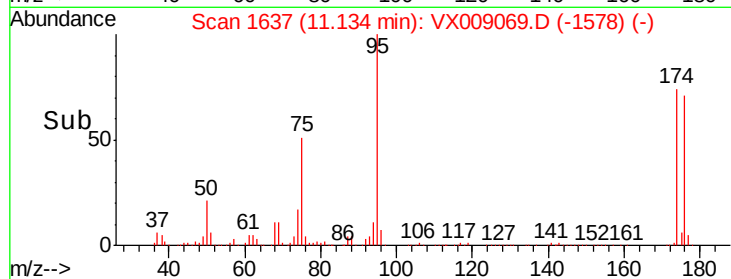
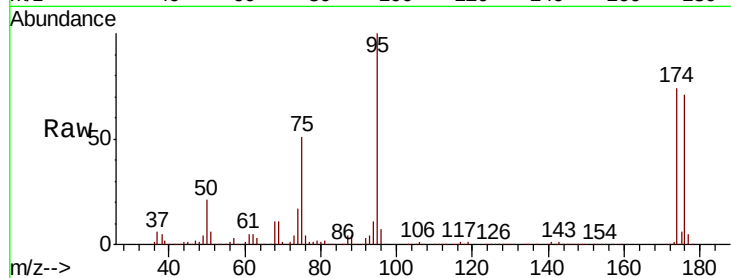
Tot Ion: 75 Resp: 77863

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.1 36.0 54.0#



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

