

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\
 Data File : VX010007.D
 Acq On : 01 Jun 2019 00:58
 Operator : JC/SP
 Sample : K3093-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 13908

Quant Time: Jun 01 04:48:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	175928	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	280908	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	253595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	114834	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	116891	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
35) Dibromofluoromethane	5.50	113	86278	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	8.71	98	354946	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	
62) 4-Bromofluorobenzene	11.13	95	126498	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	

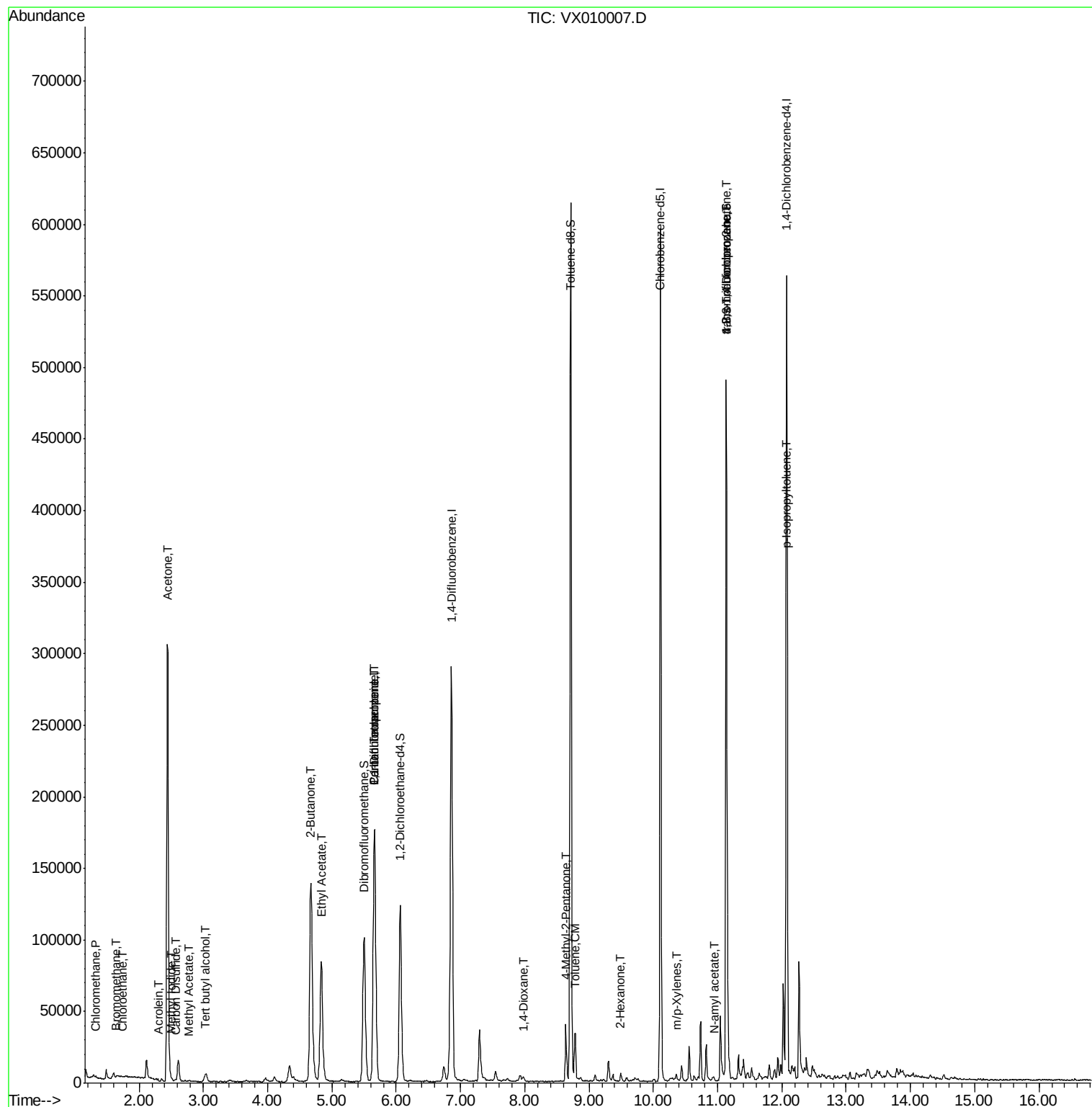
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1003	0.347	ug/l #	76
5) Bromomethane	1.65	94	451	0.286	ug/l #	59
6) Chloroethane	1.74	64	335	0.209	ug/l #	45
10) Methyl Iodide	2.51	142	148	4.719	ug/l #	42
11) Tert butyl alcohol	3.04	59	7193	11.761	ug/l #	86
13) Acrolein	2.30	56	431	22.007	ug/l	84
16) Acetone	2.44	43	341742	238.006	ug/l	99
17) Carbon Disulfide	2.57	76	1242	0.613	ug/l #	77
18) Methyl Acetate	2.78	43	774	0.232	ug/l	95
25) 2-Butanone	4.67	43	259408	115.960	ug/l	98
36) 1,1-Dichloropropene	5.66	75	13676	4.798	ug/l #	51
37) Ethyl Acetate	4.84	43	156577	39.427	ug/l	99
38) Carbon Tetrachloride	5.66	117	16110	6.541	ug/l #	16
49) 1,4-Dioxane	7.98	88	19	0.322	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	25194	6.044	ug/l	100
52) Toluene	8.79	92	11643	2.268	ug/l	98
59) 2-Hexanone	9.49	43	2833	0.883	ug/l	84
68) m/p-Xylenes	10.35	106	1065	0.302	ug/l	90
74) N-amyl acetate	10.95	43	1525	0.301	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	64116	23.349	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	64116	57.768	ug/l #	10
86) p-Isopropyltoluene	12.06	119	2014	0.276	ug/l #	66

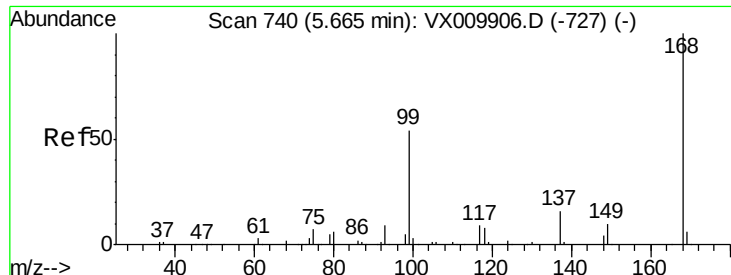
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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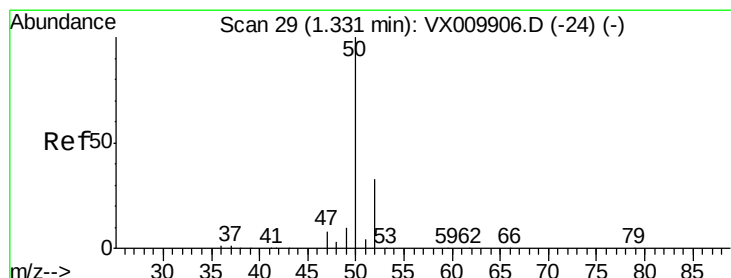
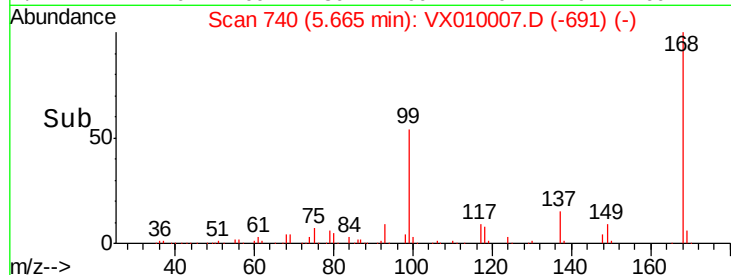
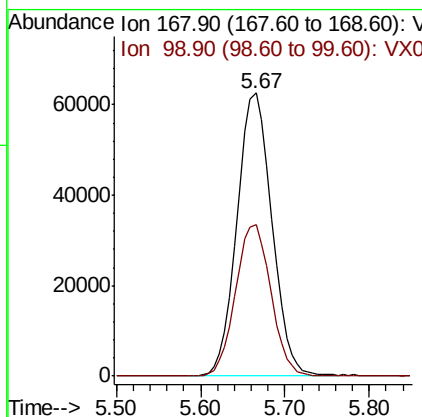
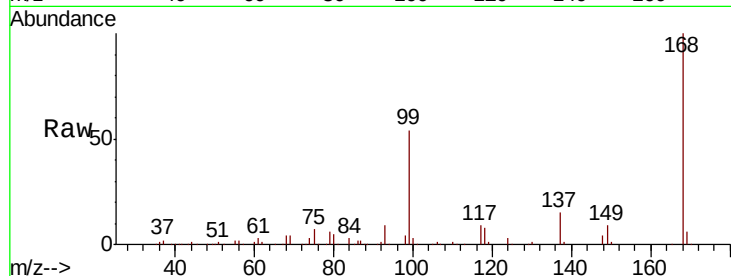




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.00 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

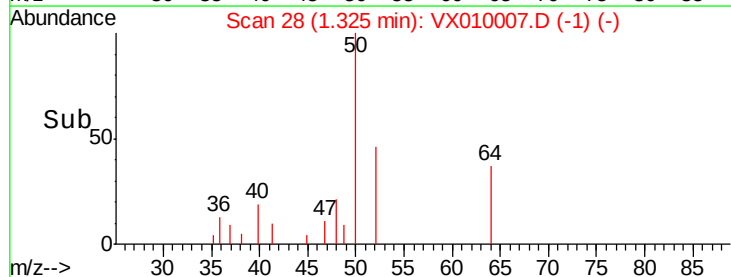
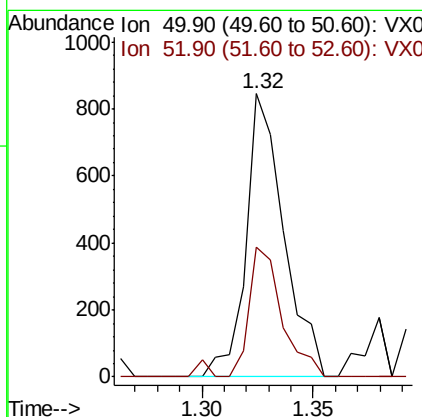
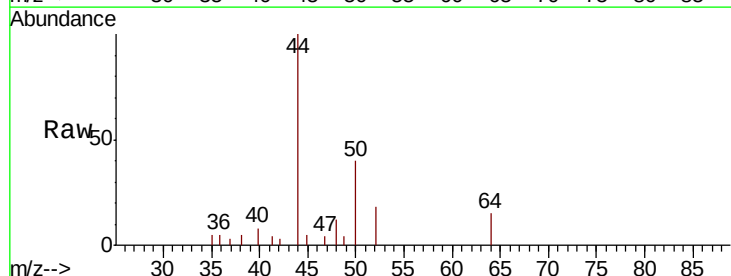
Instrument :
MSVOA_X
ClientSampleId :
13908

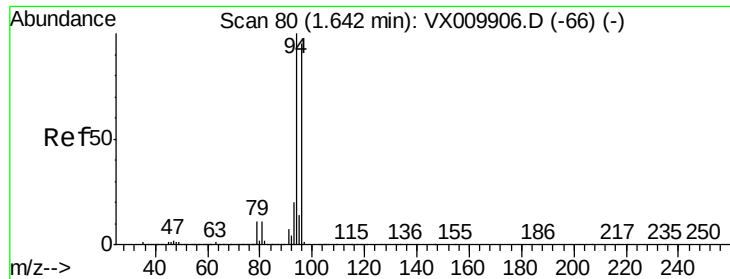
Tot Ion:168 Resp: 175928
Ion Ratio Lower Upper
168 100
99 53.7 43.0 64.6



#3
Chloromethane
Concen: 0.347 ug/l
RT: 1.32 min Scan# 28
Delta R.T. -0.01 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

Tgt Ion: 50 Resp: 1003
Ion Ratio Lower Upper
50 100
52 46.0 26.0 39.0#





#5

Bromomethane

Concen: 0.286 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

Instrument :

MSVOA_X

ClientSampled :

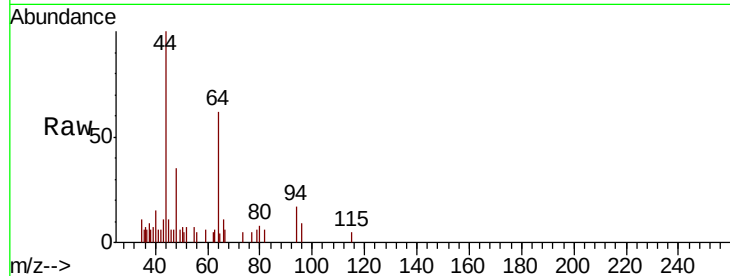
13908

Tot Ion: 94 Resp: 451

Ion Ratio Lower Upper

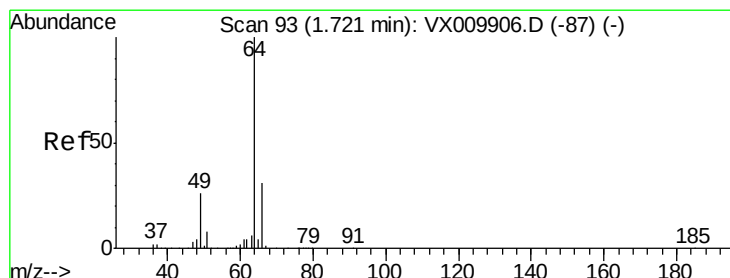
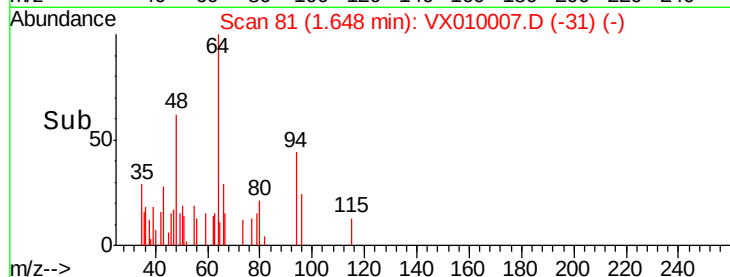
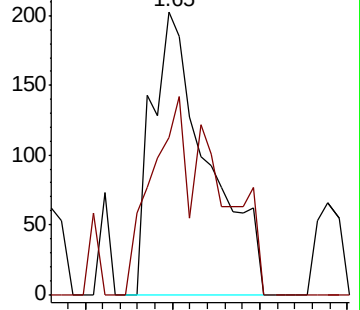
94 100

96 55.7 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.209 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX010007.D

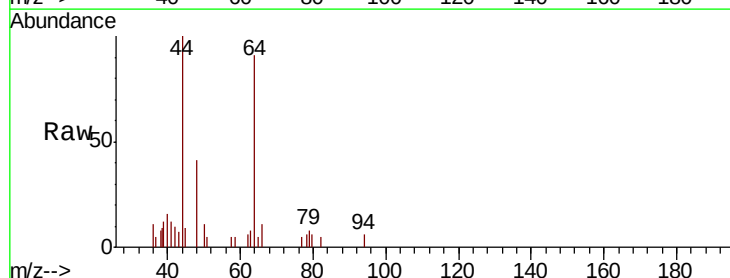
Acq: 01 Jun 2019 00:58

Tgt Ion: 64 Resp: 335

Ion Ratio Lower Upper

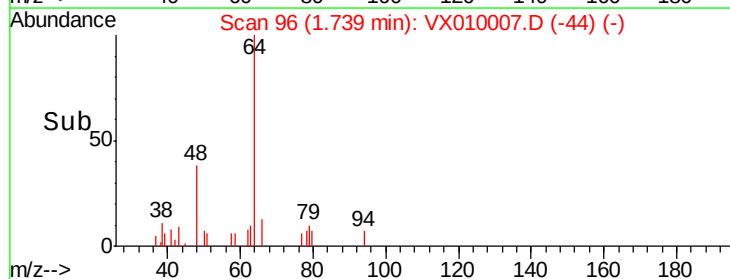
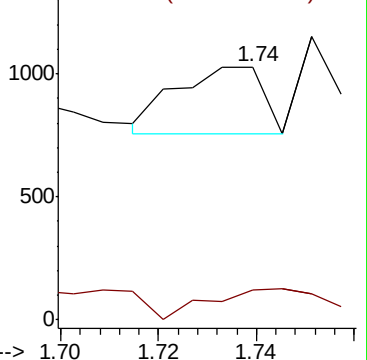
64 100

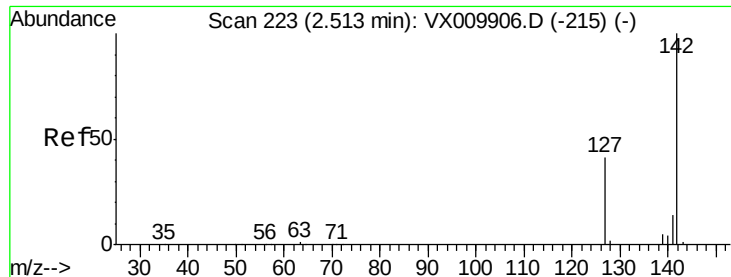
66 1.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

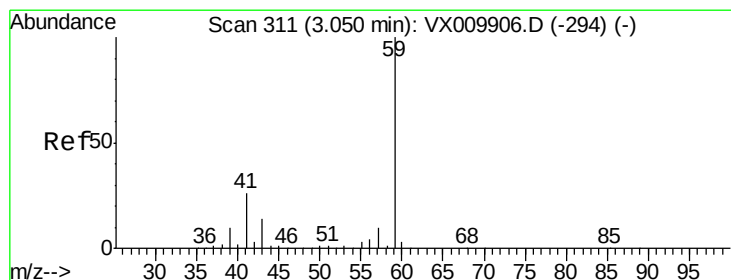
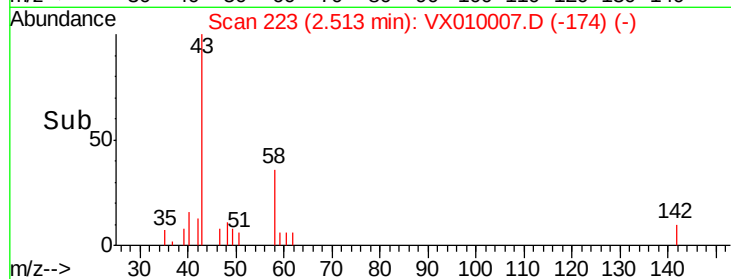
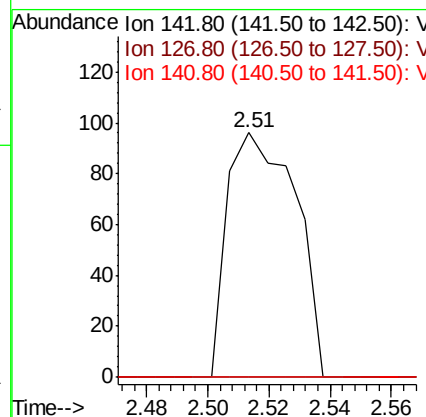
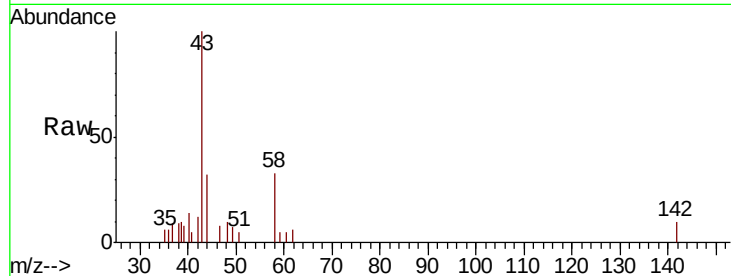




#10
Methvl Iodide
Concen: 4.719 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

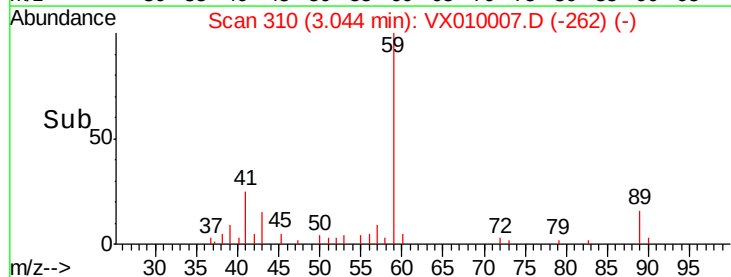
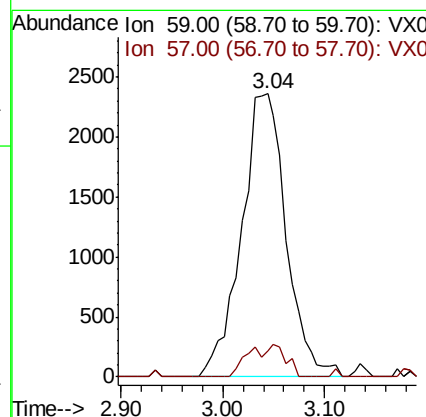
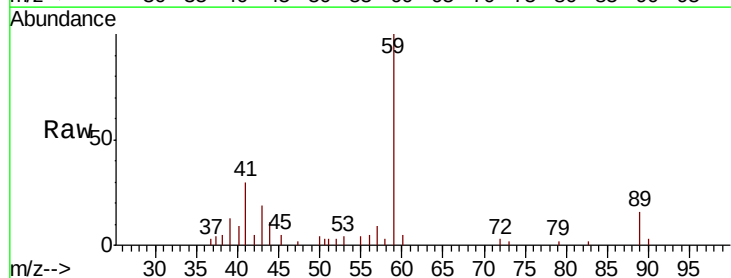
Instrument :
MSVOA_X
ClientSampleId :
13908

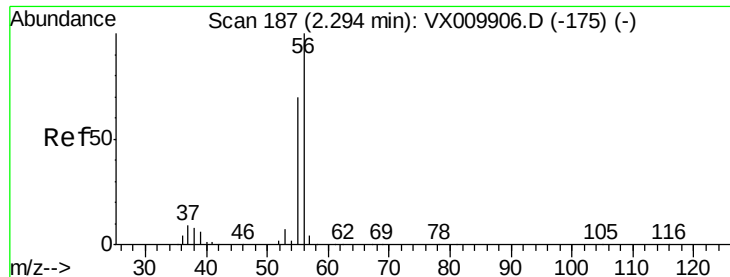
Tot Ion:142 Resp: 148
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 11.761 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

Tgt Ion: 59 Resp: 7193
Ion Ratio Lower Upper
59 100
57 5.1 8.2 12.2#





#13

Acrolein

Concen: 22.007 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

Instrument :

MSVOA_X

ClientSampled :

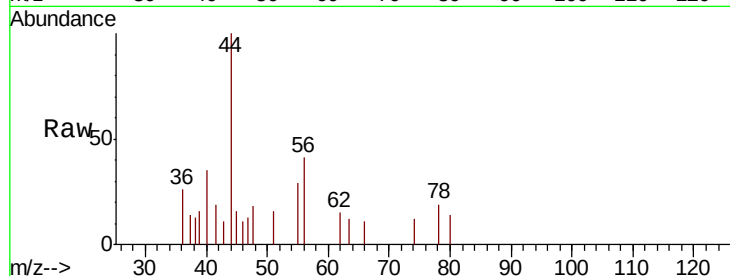
13908

Tot Ion: 56 Resp: 431

Ion Ratio Lower Upper

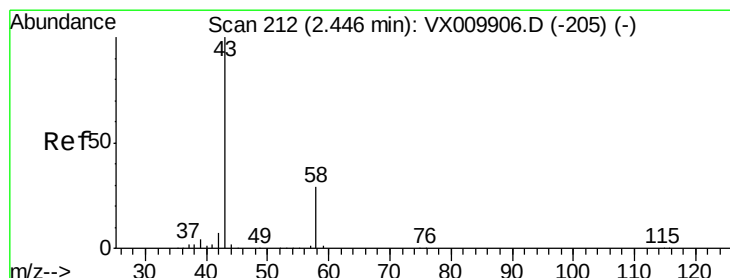
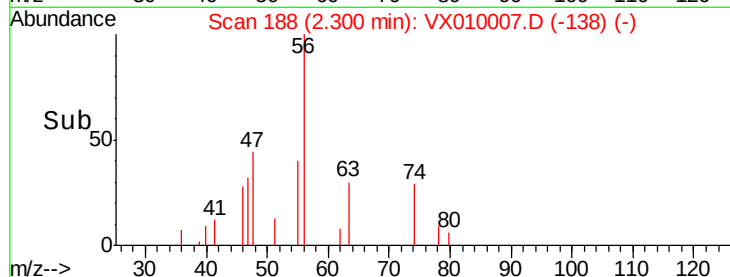
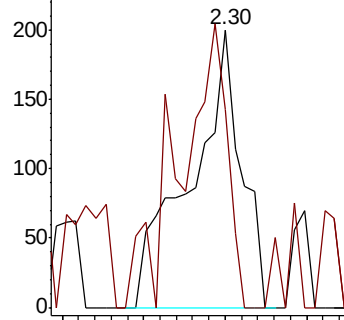
56 100

55 58.0 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 238.006 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010007.D

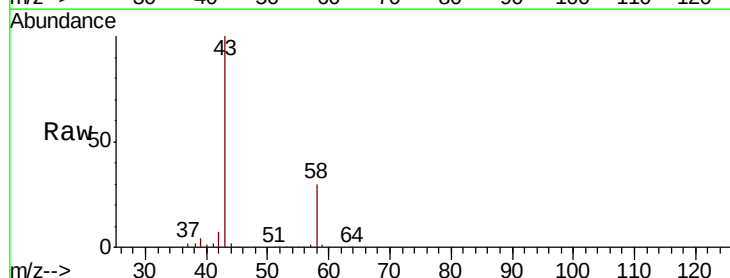
Acq: 01 Jun 2019 00:58

Tgt Ion: 43 Resp: 341742

Ion Ratio Lower Upper

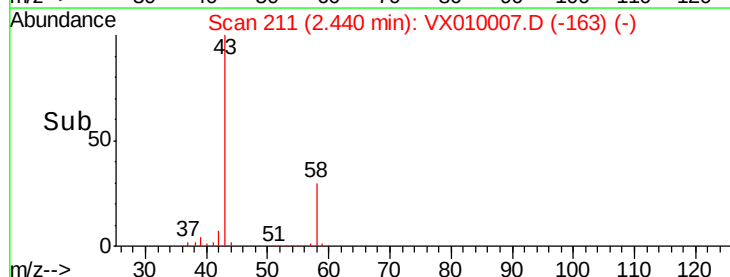
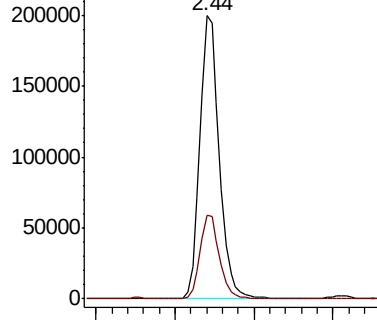
43 100

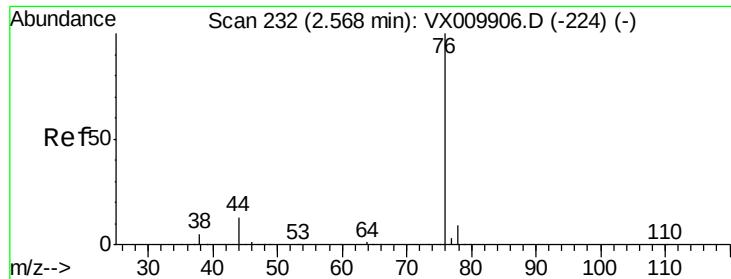
58 29.7 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

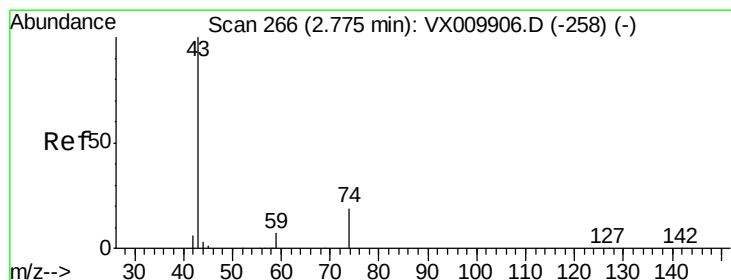
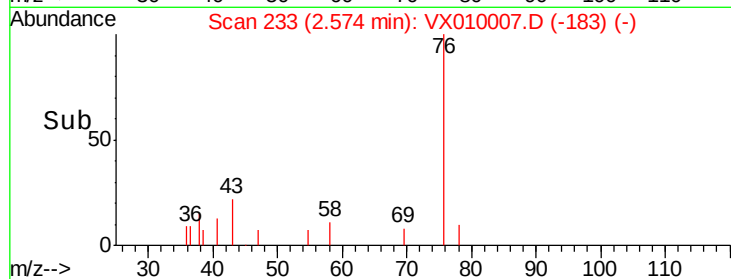
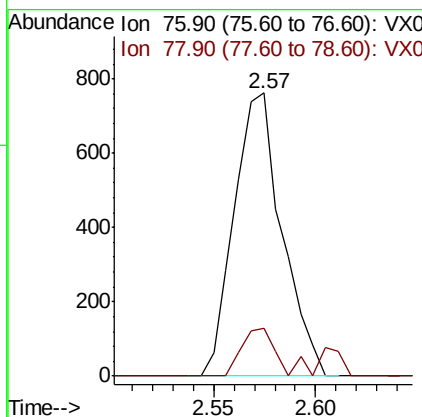
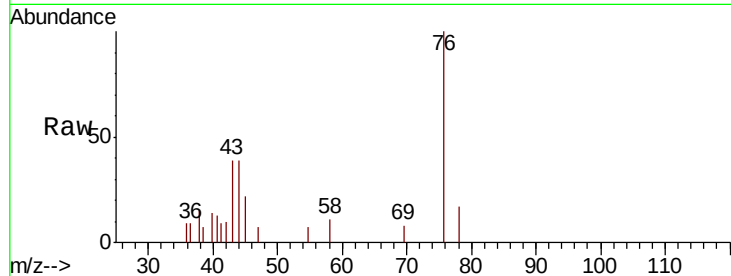




#17
Carbon Disulfide
Concen: 0.613 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

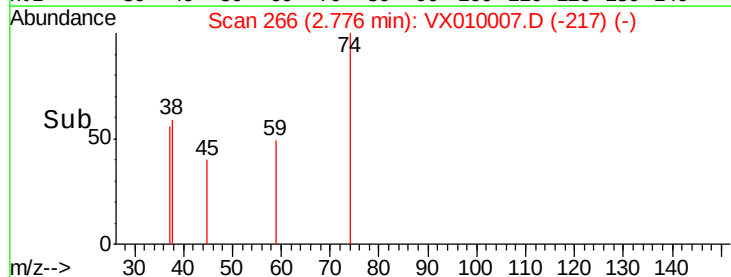
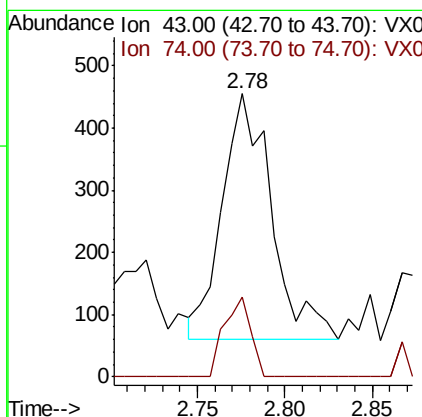
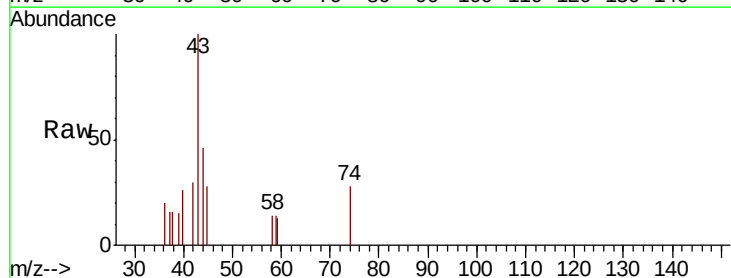
Instrument :
MSVOA_X
ClientSampled :
13908

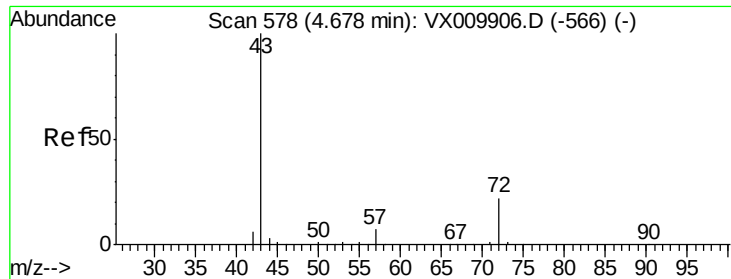
Tot Ion: 76 Resp: 1242
Ion Ratio Lower Upper
76 100
78 16.9 7.0 10.6#



#18
Methyl Acetate
Concen: 0.232 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

Tgt Ion: 43 Resp: 774
Ion Ratio Lower Upper
43 100
74 17.4 15.8 23.6





#25

2-Butanone

Concen: 115.960 ug/l

RT: 4.67 min Scan# 577

Delta R.T. -0.01 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

Instrument :

MSVOA_X

ClientSampleId :

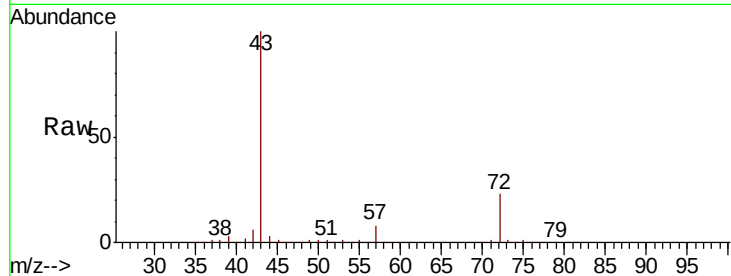
13908

Tot Ion: 43 Resp: 259408

Ion Ratio Lower Upper

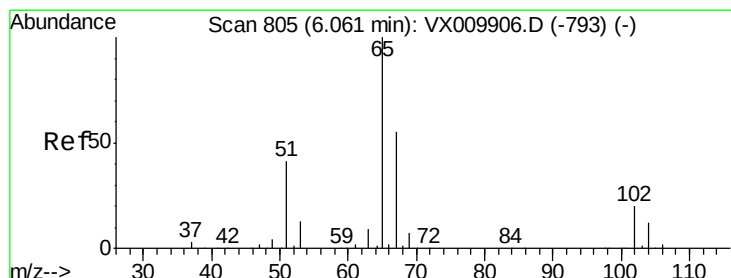
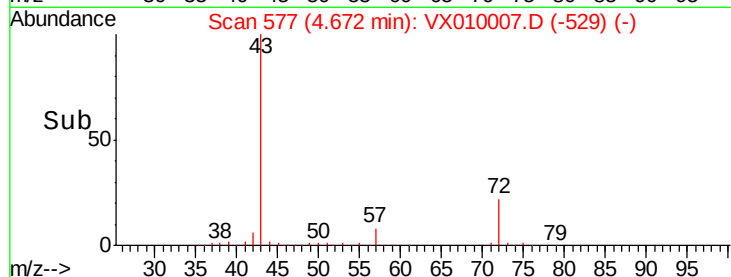
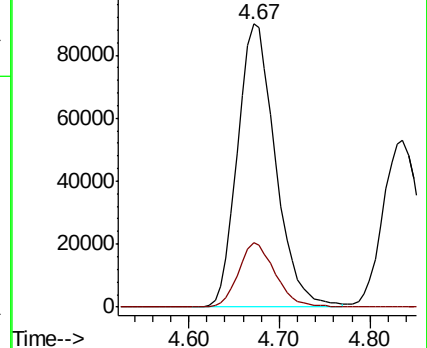
43 100

72 22.6 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.036 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010007.D

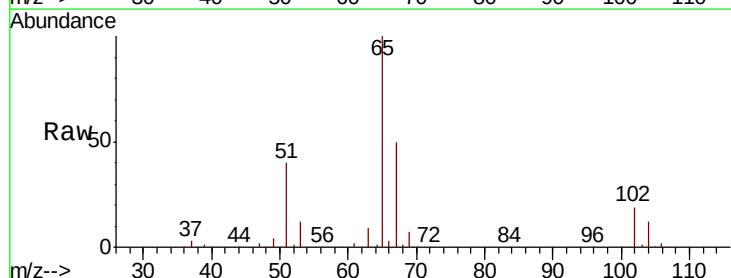
Acq: 01 Jun 2019 00:58

Tgt Ion: 65 Resp: 116891

Ion Ratio Lower Upper

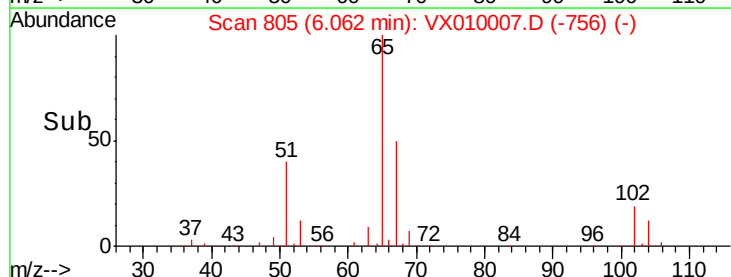
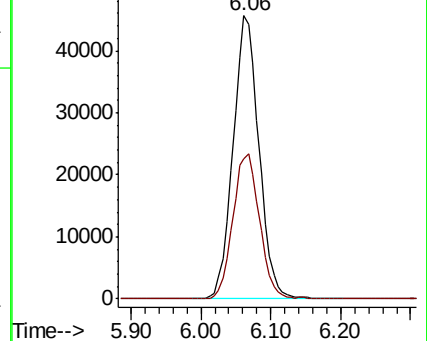
65 100

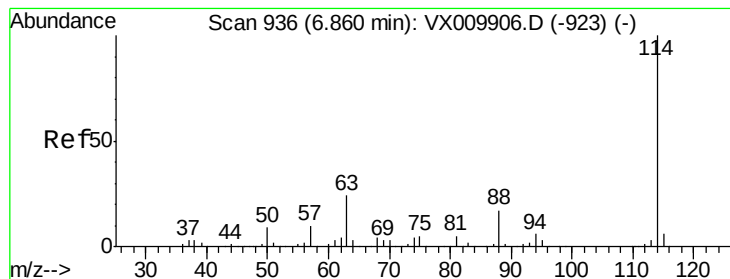
67 53.2 0.0 108.4



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: VX010007.D

Acq: 01 Jun 2019 00:58

Instrument :

MSVOA_X

ClientSampleId :

13908

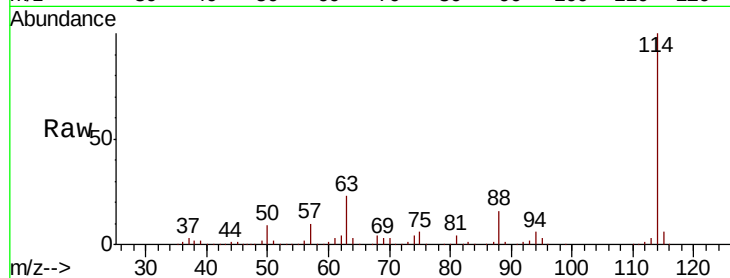
Tot Ion:114 Resp: 280908

Ion Ratio Lower Upper

114 100

63 23.2 0.0 47.4

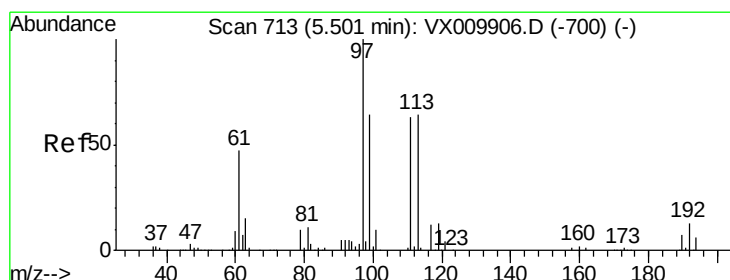
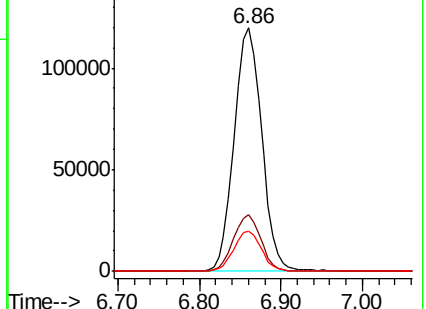
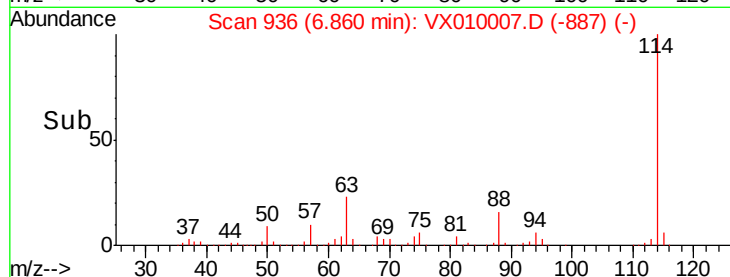
88 16.3 0.0 33.0



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: 48.853 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

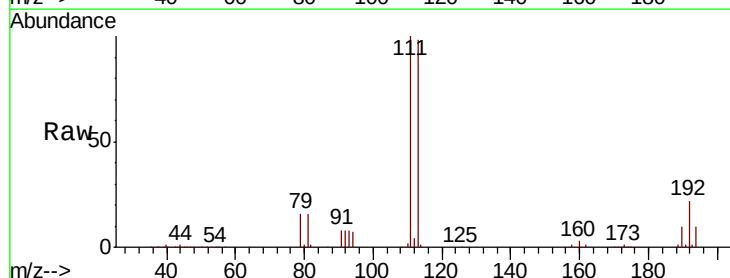
Tgt Ion:113 Resp: 86278

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.2

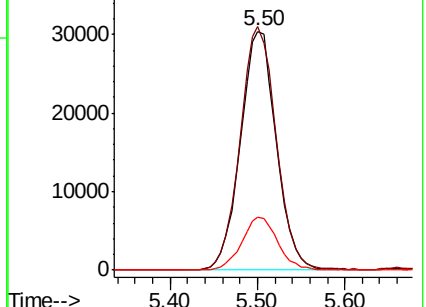
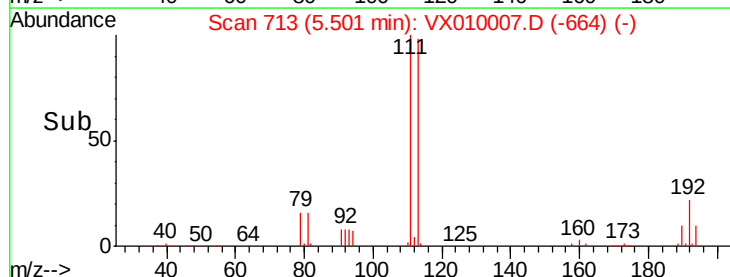
192 22.2 17.1 25.7

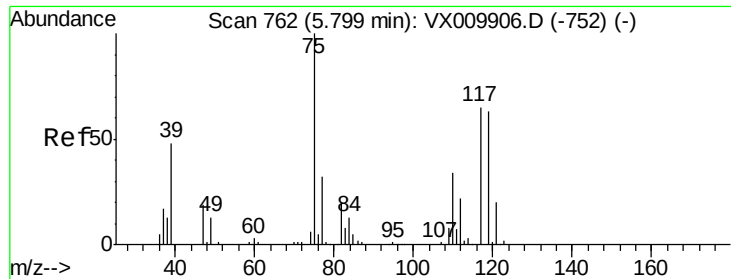


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

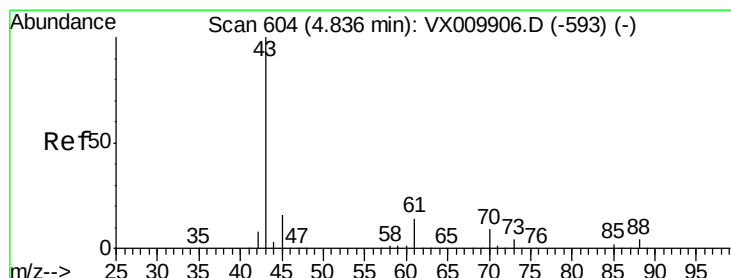
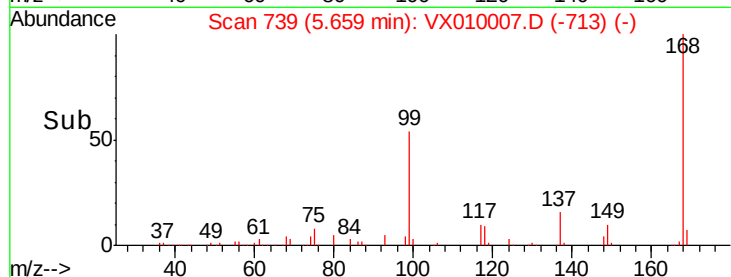
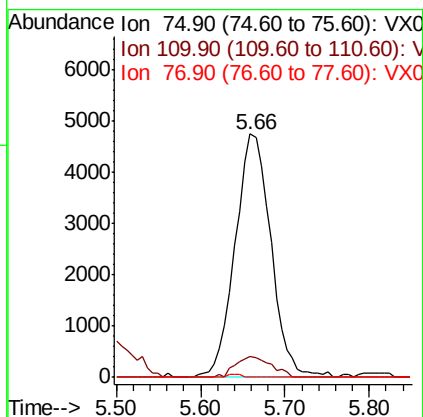
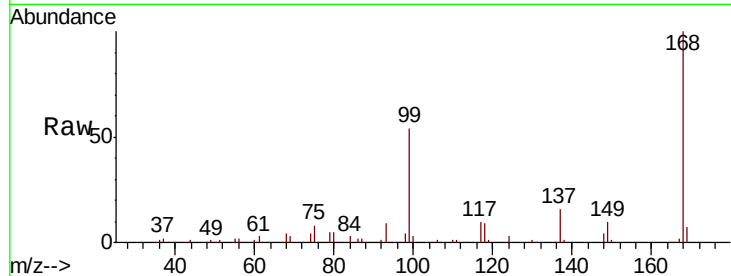




#36
 1,1-Dichloropropene
 Concen: 4.798 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010007.D
 Acq: 01 Jun 2019 00:58

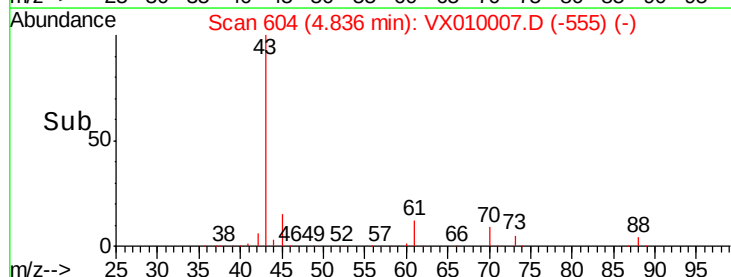
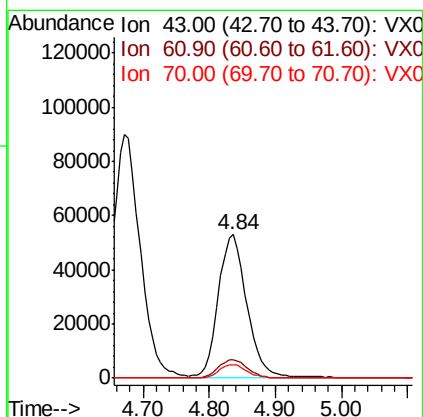
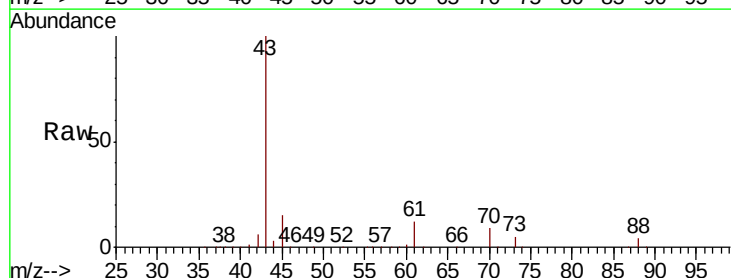
Instrument :
 MSVOA_X
 ClientSampled :
 13908

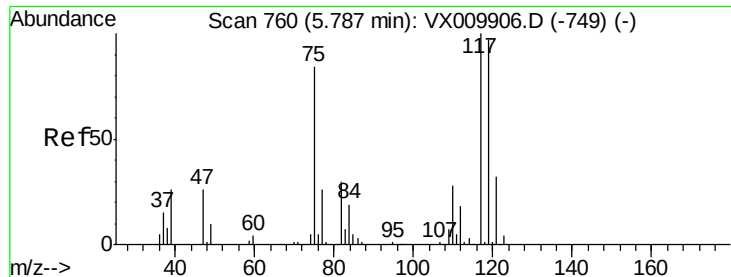
Tot Ion: 75 Resp: 13676
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.7 50.1#
 77 0.5 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 39.427 ug/l
 RT: 4.84 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VX010007.D
 Acq: 01 Jun 2019 00:58

Tgt Ion: 43 Resp: 156577
 Ion Ratio Lower Upper
 43 100
 61 13.4 10.2 15.2
 70 9.5 7.4 11.2





#38

Carbon Tetrachloride

Concen: 6.541 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

Instrument :

MSVOA_X

ClientSampleId :

13908

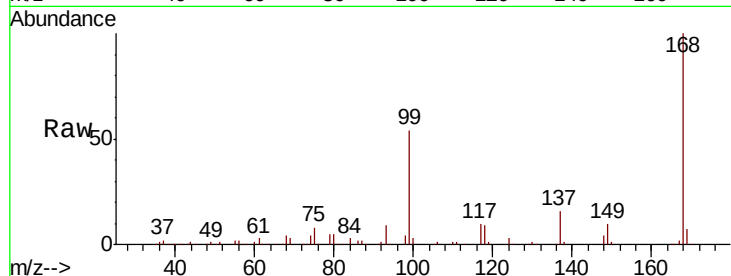
Tot Ion:117 Resp: 16110

Ion Ratio Lower Upper

117 100

119 6.0 77.3 115.9#

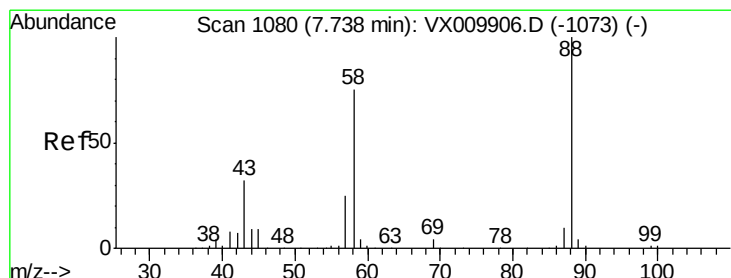
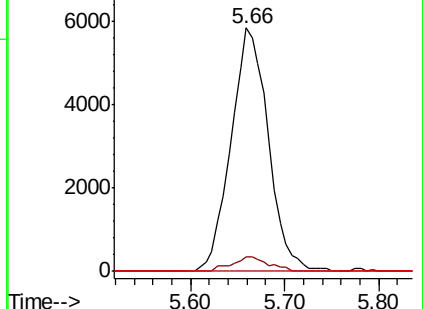
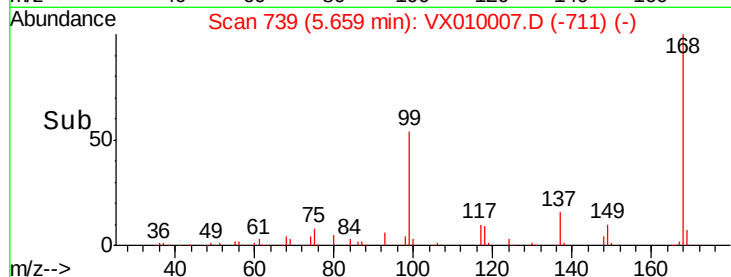
121 0.0 25.4 38.0#



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



#49

1,4-Dioxane

Concen: 0.322 ug/l

RT: 7.98 min Scan# 1119

Delta R.T. 0.24 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

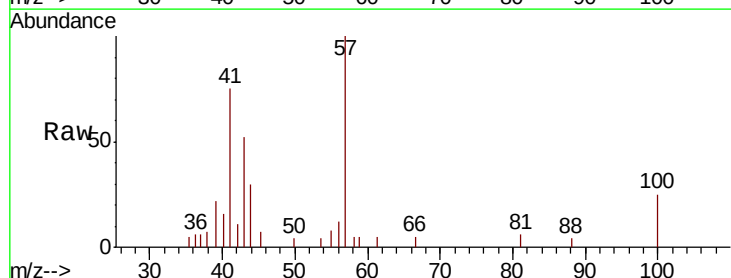
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 5642.1 30.2 45.4#

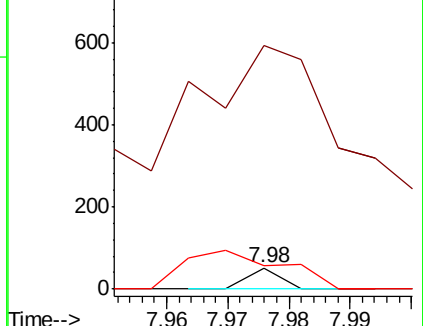
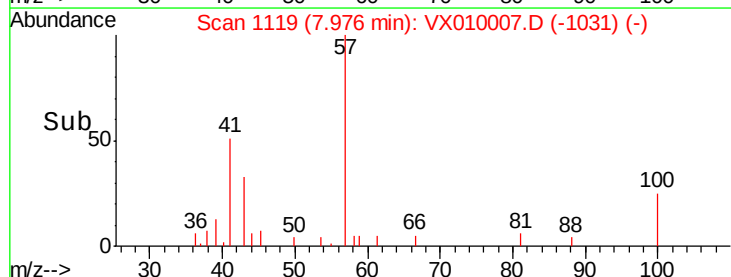
58 547.4 64.0 96.0#

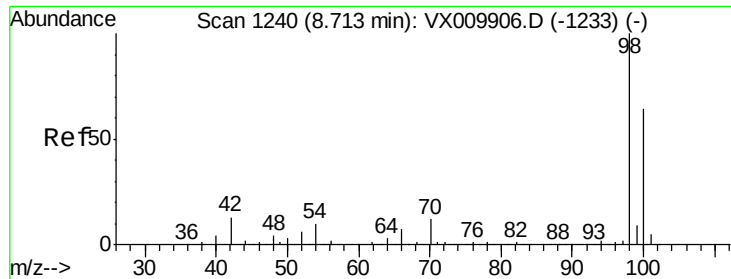


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

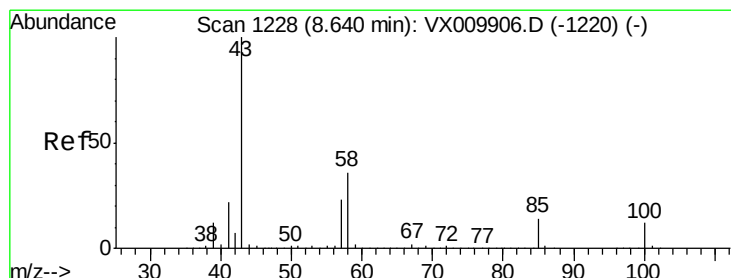
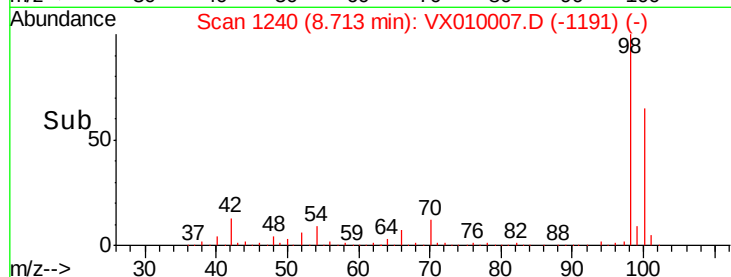
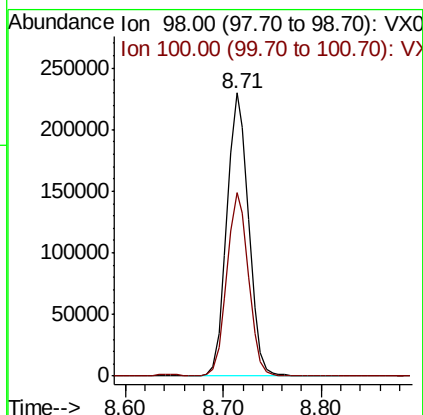
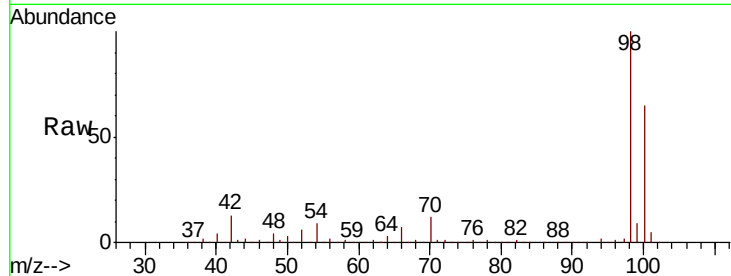




#50
Toluene-d8
Concen: 49.493 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

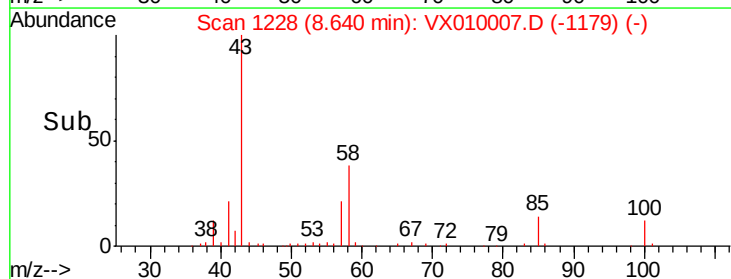
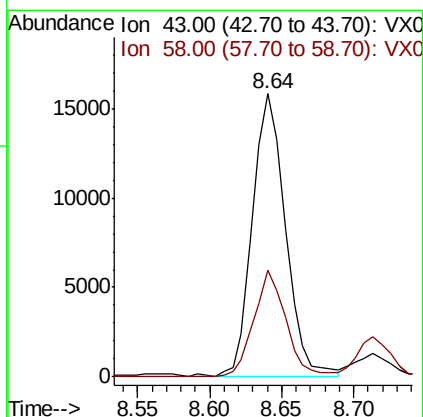
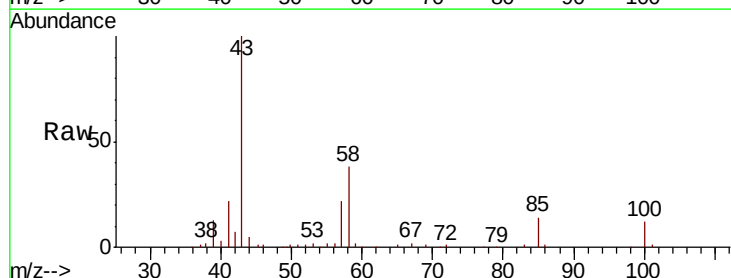
Instrument :
MSVOA_X
ClientSampled :
13908

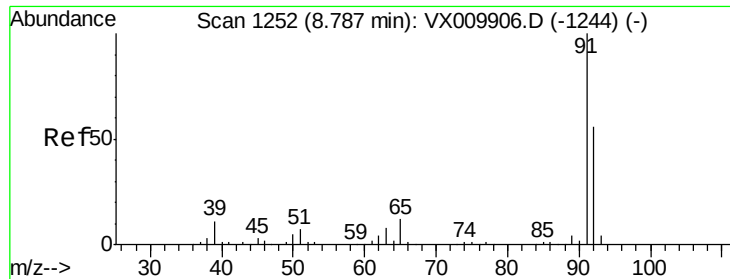
Tot Ion: 98 Resp: 354946
Ion Ratio Lower Upper
98 100
100 64.4 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 6.044 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

Tgt Ion: 43 Resp: 25194
Ion Ratio Lower Upper
43 100
58 35.9 28.8 43.2





#52

Toluene

Concen: 2.268 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

Instrument :

MSVOA_X

ClientSampleId :

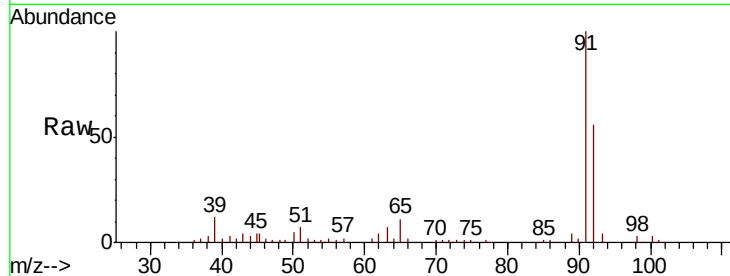
13908

Tot Ion: 92 Resp: 11643

Ion Ratio Lower Upper

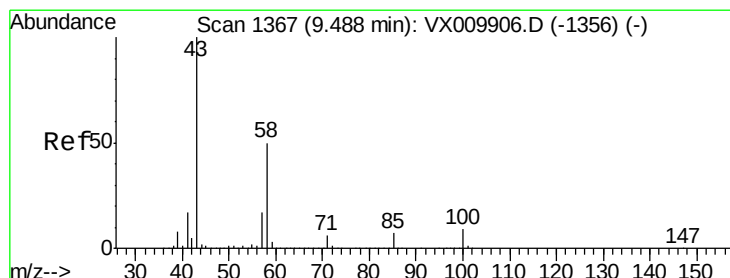
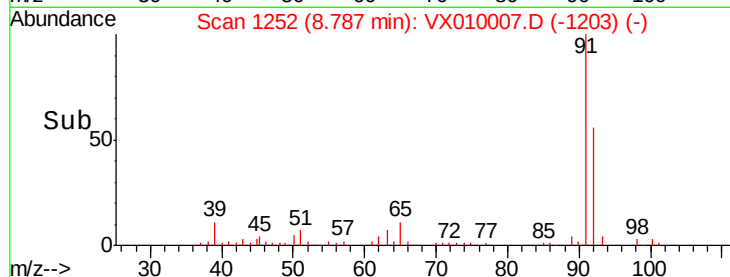
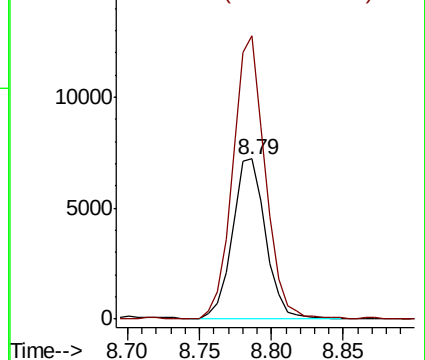
92 100

91 172.1 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 0.883 ug/l

RT: 9.49 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VX010007.D

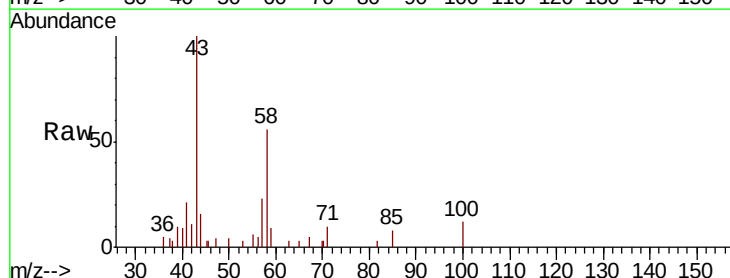
Acq: 01 Jun 2019 00:58

Tgt Ion: 43 Resp: 2833

Ion Ratio Lower Upper

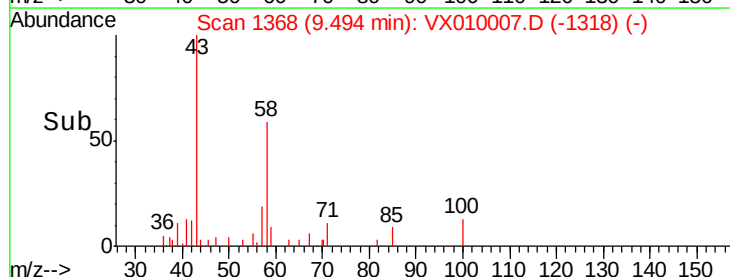
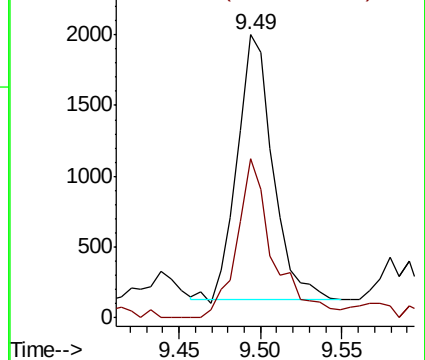
43 100

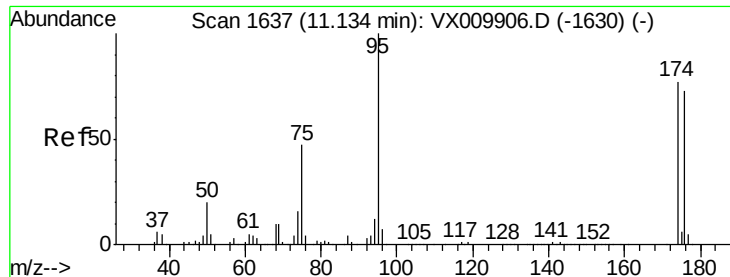
58 61.5 25.1 75.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

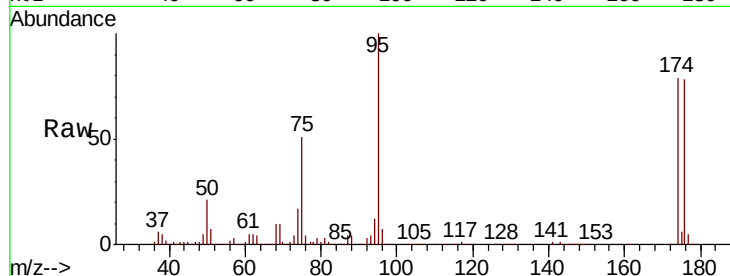




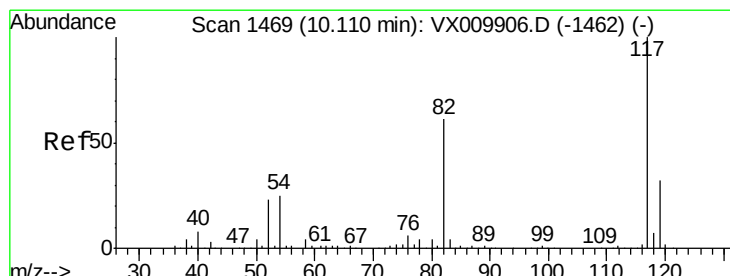
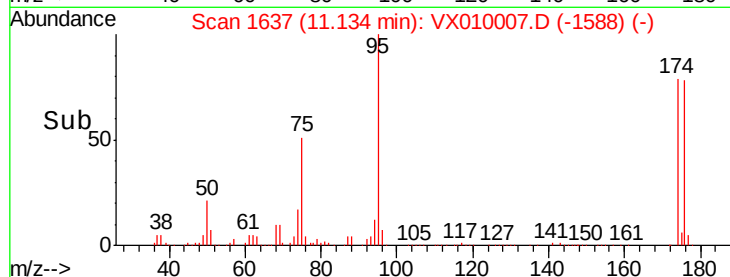
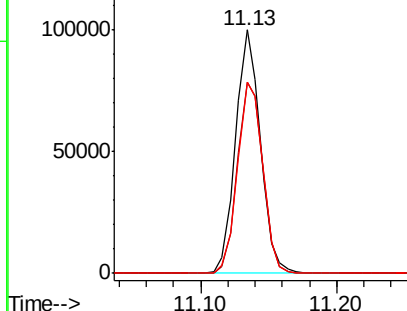
#62
4-Bromofluorobenzene
Concen: 49.108 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

Instrument :
MSVOA_X
ClientSampled :
13908

Tot Ion: 95 Resp: 126498
Ion Ratio Lower Upper
95 100
174 80.3 0.0 160.4
176 79.5 0.0 154.6

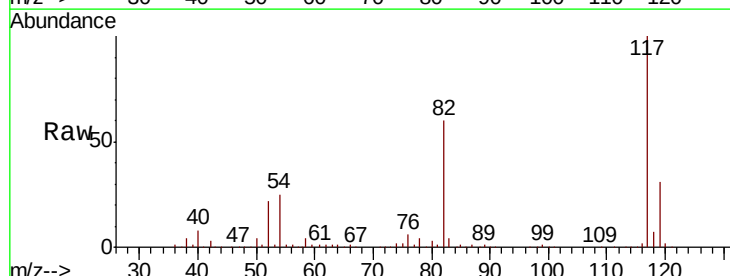


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

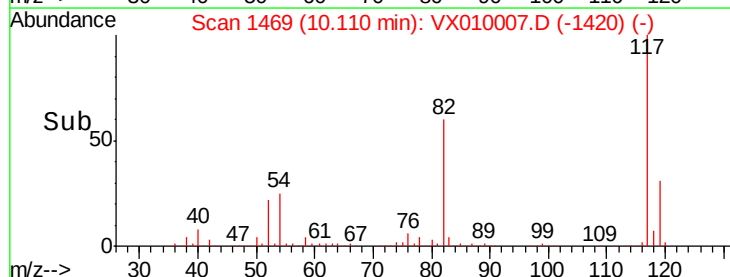
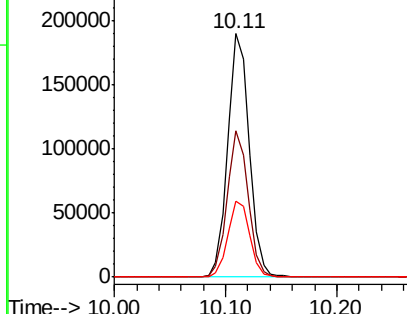


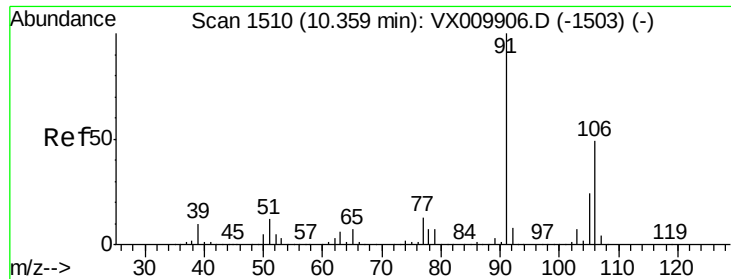
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

Tgt Ion: 117 Resp: 253595
Ion Ratio Lower Upper
117 100
82 59.8 49.2 73.8
119 31.4 25.2 37.8



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





#68

m/p-Xvlenes

Concen: 0.302 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

Instrument :

MSVOA_X

ClientSampleId :

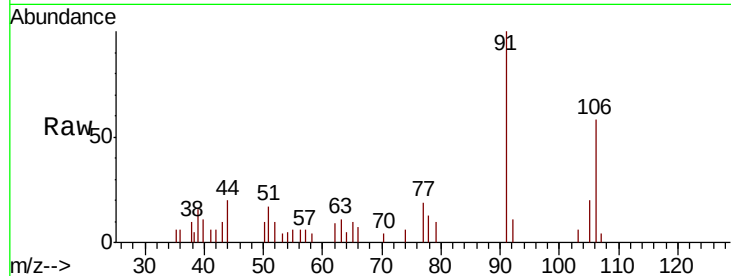
13908

Tot Ion:106 Resp: 1065

Ion Ratio Lower Upper

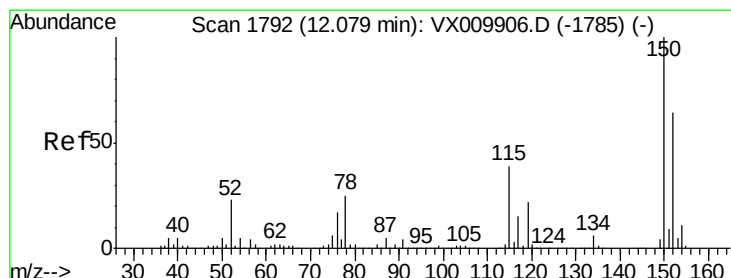
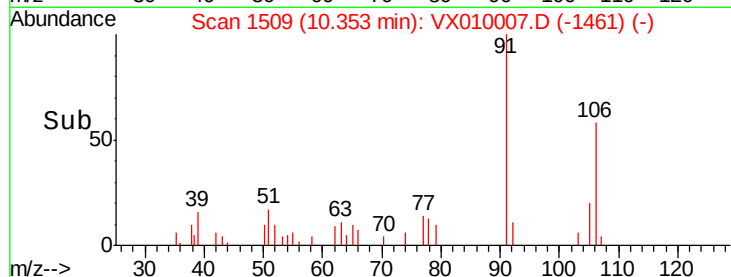
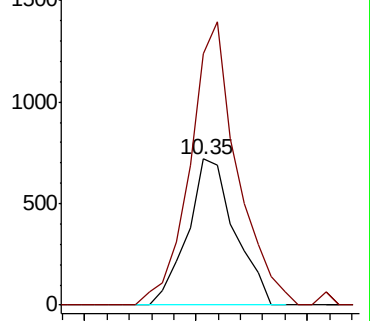
106 100

91 193.5 167.3 250.9



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: VX010007.D

Acq: 01 Jun 2019 00:58

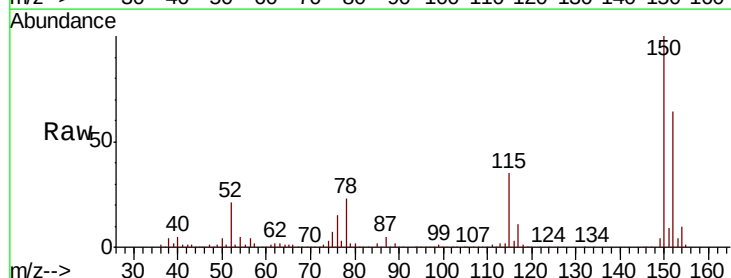
Tgt Ion:152 Resp: 114834

Ion Ratio Lower Upper

152 100

115 58.4 41.4 124.2

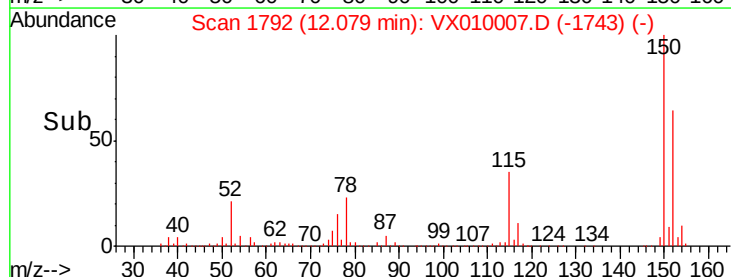
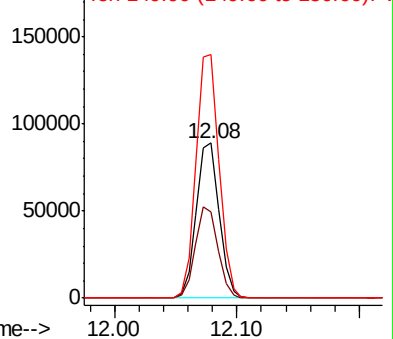
150 158.0 0.0 345.2

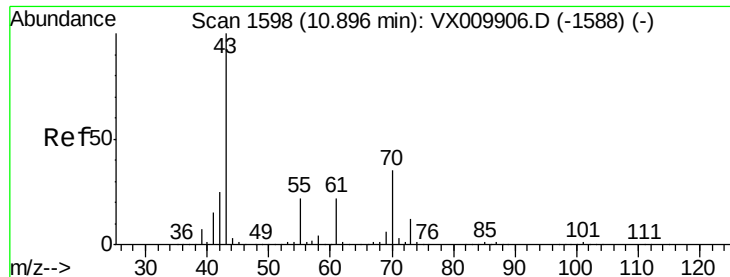


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

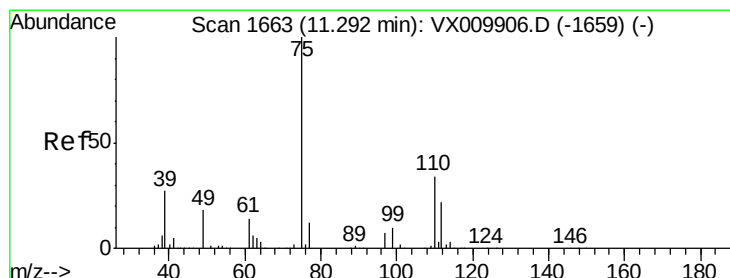
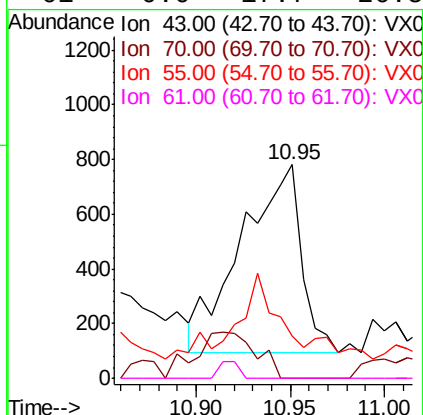
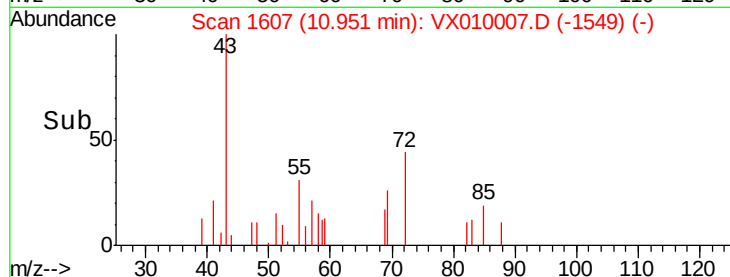
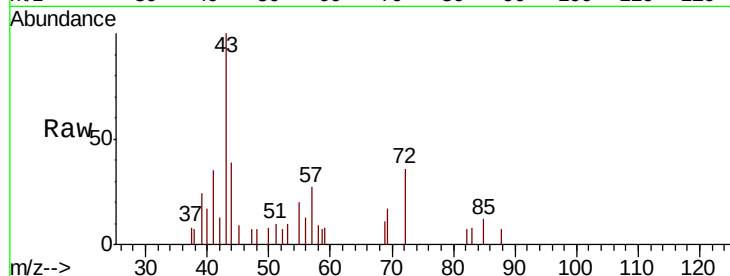




#74
N-amvl acetate
Concen: 0.301 ug/l
RT: 10.95 min Scan# 1607
Delta R.T. 0.05 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

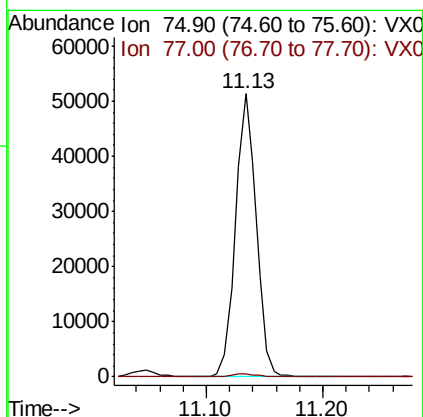
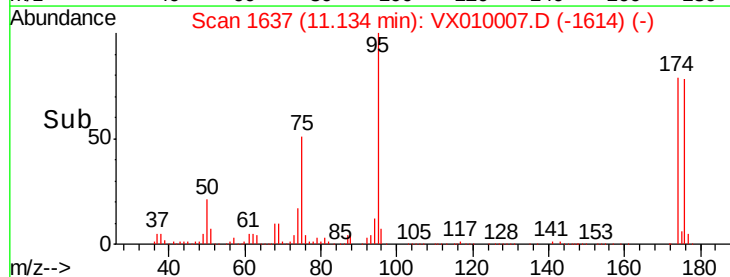
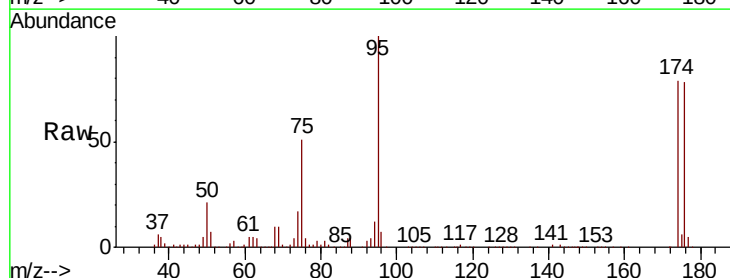
Instrument :
MSVOA_X
ClientSampleId :
13908

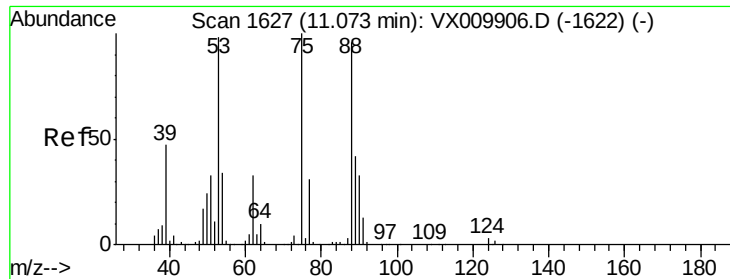
Tot Ion: 43 Resp: 1525
Ion Ratio Lower Upper
43 100
70 0.0 28.6 43.0#
55 31.1 17.8 26.8#
61 0.0 17.7 26.5#



#76
1,2,3-Trichloropropane
Concen: 23.349 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010007.D
Acq: 01 Jun 2019 00:58

Tgt Ion: 75 Resp: 64116
Ion Ratio Lower Upper
75 100
77 1.7 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 57.768 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

Instrument :

MSVOA_X

ClientSampleId :

13908

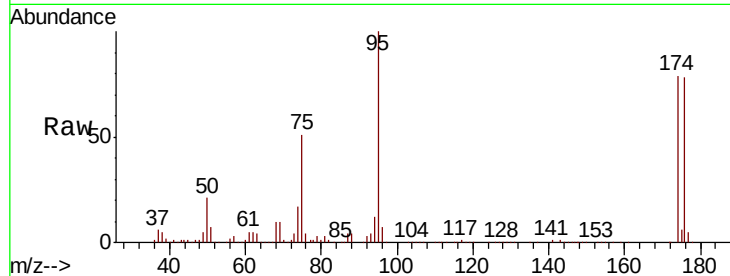
Tot Ion: 75 Resp: 64116

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

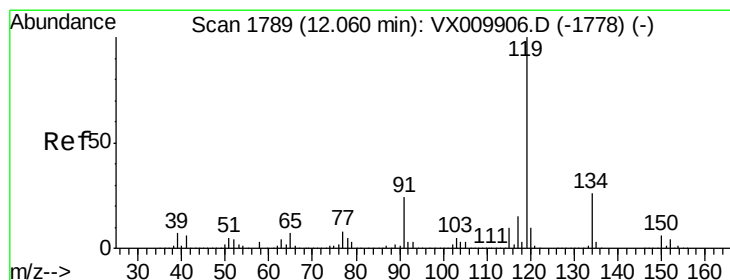
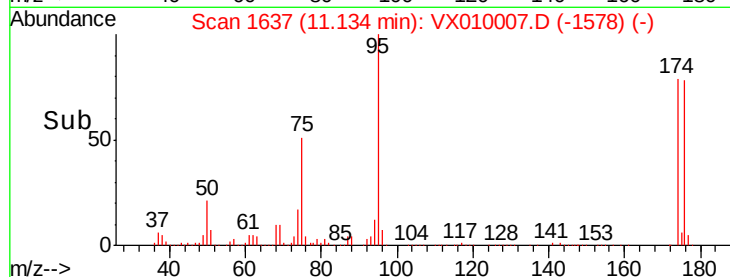
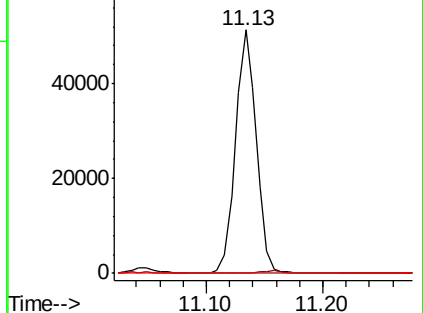
89 0.0 34.2 51.4#



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



#86

p-Isopropyltoluene

Concen: 0.276 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX010007.D

Acq: 01 Jun 2019 00:58

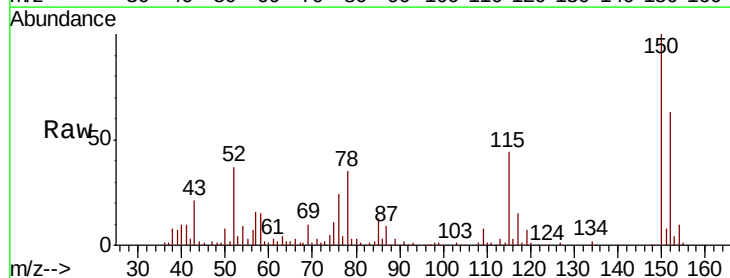
Tgt Ion: 119 Resp: 2014

Ion Ratio Lower Upper

119 100

134 37.0 12.9 38.6

91 47.1 11.9 35.9#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

