

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100219\
 Data File : VX012757.D
 Acq On : 02 Oct 2019 13:42
 Operator : JC/SP
 Sample : K5082-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 03 01:31:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	178594	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	315836	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	266478	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100515	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	126519	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	5.49	113	95765	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	
50) Toluene-d8	8.71	98	367575	50.74	ug/l	0.00
Spiked Amount			Recovery	=	101.48%	
62) 4-Bromofluorobenzene	11.14	95	121736	42.74	ug/l	0.00
Spiked Amount			Recovery	=	85.48%	

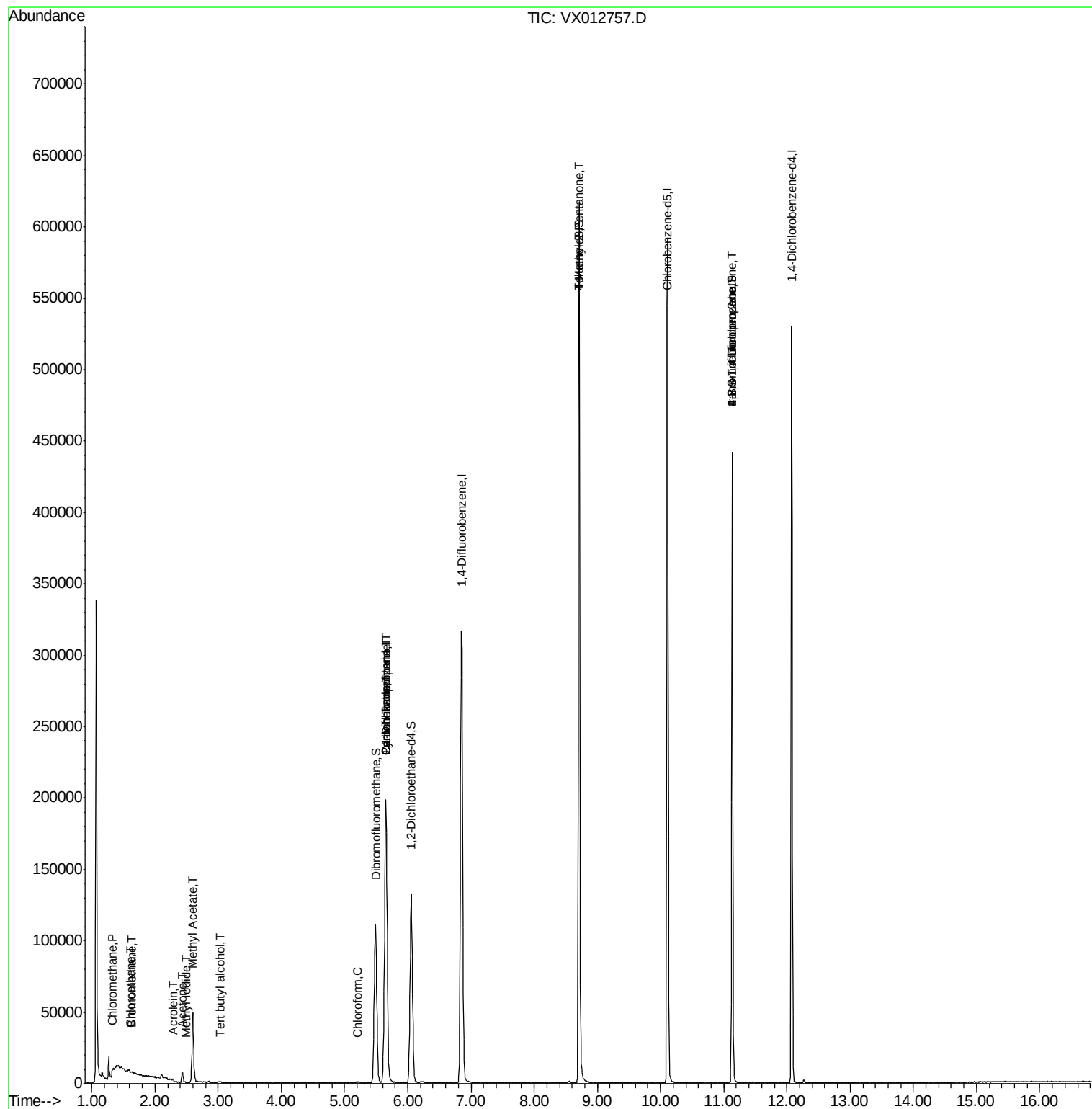
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1039	0.450	ug/l #	79
5) Bromomethane	1.64	94	239	0.265	ug/l	92
6) Chloroethane	1.62	64	1182	0.765	ug/l #	45
10) Methyl Iodide	2.50	142	59	4.979	ug/l #	35
11) Tert butyl alcohol	3.03	59	980	1.508	ug/l #	72
13) Acrolein	2.29	56	74	10.429	ug/l #	43
16) Acetone	2.43	43	8004	5.810	ug/l	96
18) Methyl Acetate	2.59	43	14357	4.426	ug/l #	54
30) Chloroform	5.20	83	1081	0.264	ug/l	88
31) Cyclohexane	5.65	56	4016	1.109	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15430	5.068	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18793	6.077	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	1758	0.478	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	62210	23.397	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	62210	67.051	ug/l #	8

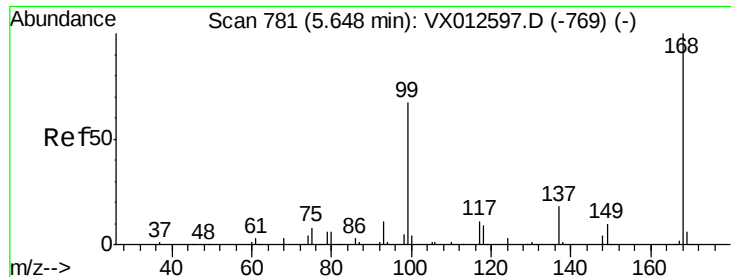
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampled :

Quant Time: Oct 03 01:31:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

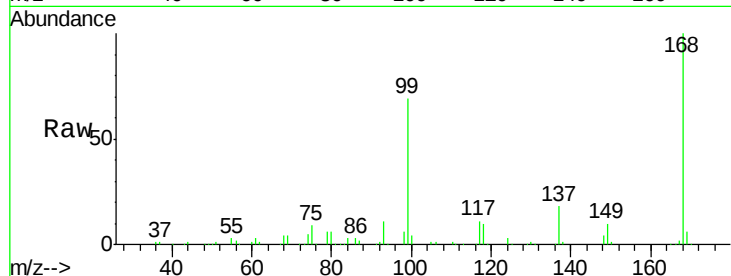
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 178594

Ion Ratio Lower Upper

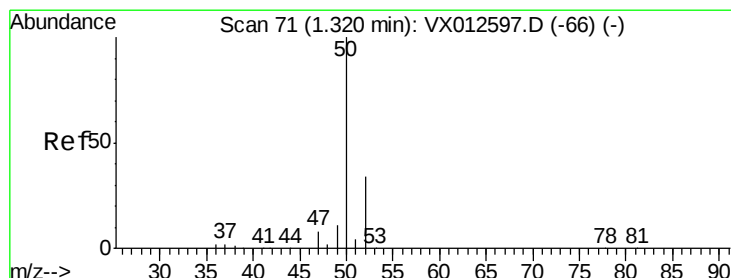
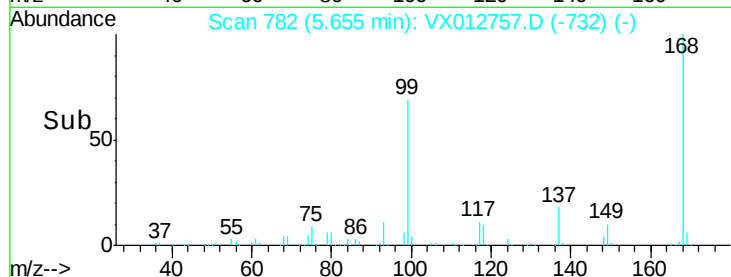
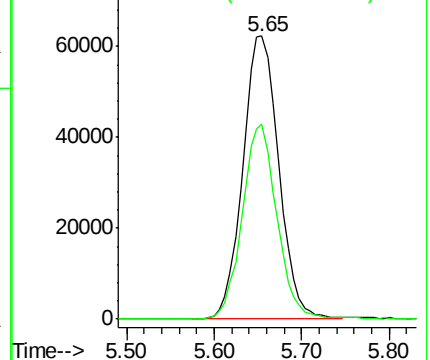
168 100

99 68.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.450 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012757.D

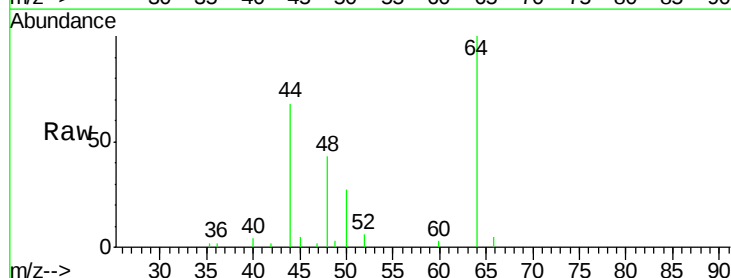
Acq: 02 Oct 2019 13:42

Tgt Ion: 50 Resp: 1039

Ion Ratio Lower Upper

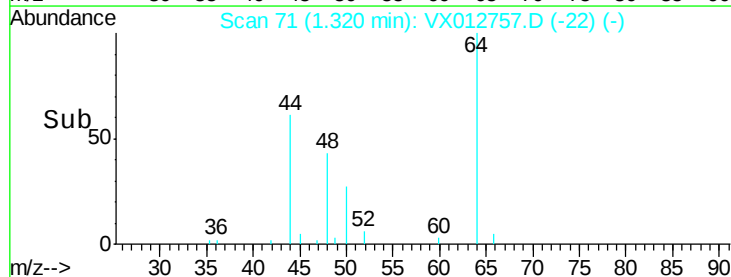
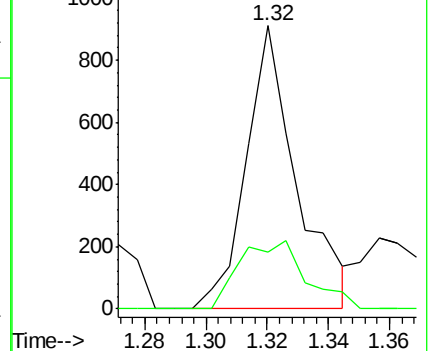
50 100

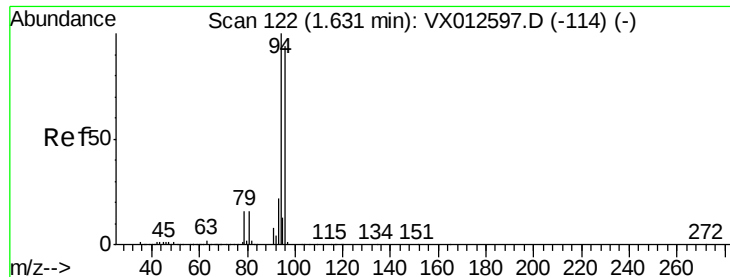
52 20.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.265 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

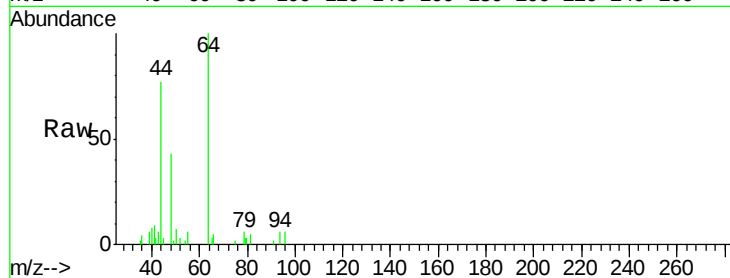
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 239

Ion Ratio Lower Upper

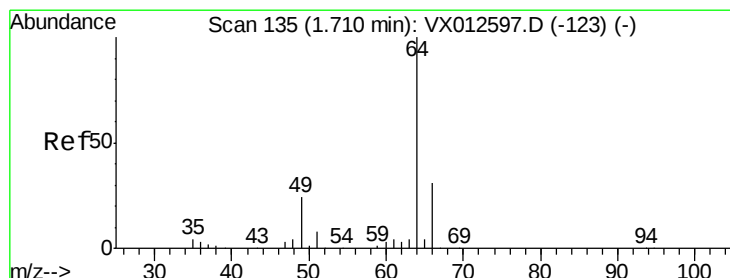
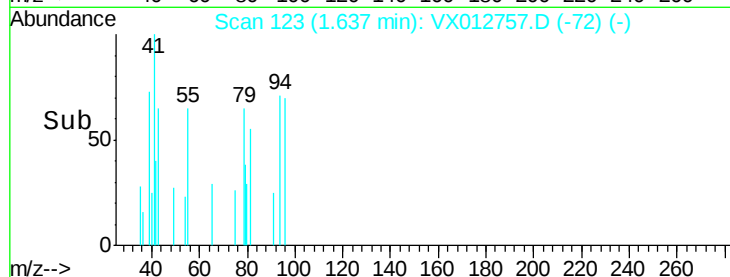
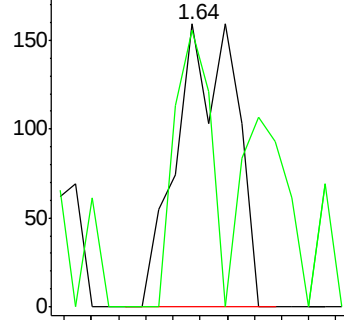
94 100

96 98.1 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.765 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.09 min

Lab File: VX012757.D

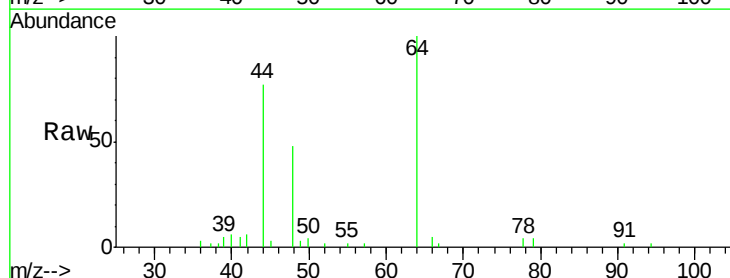
Acq: 02 Oct 2019 13:42

Tgt Ion: 64 Resp: 1182

Ion Ratio Lower Upper

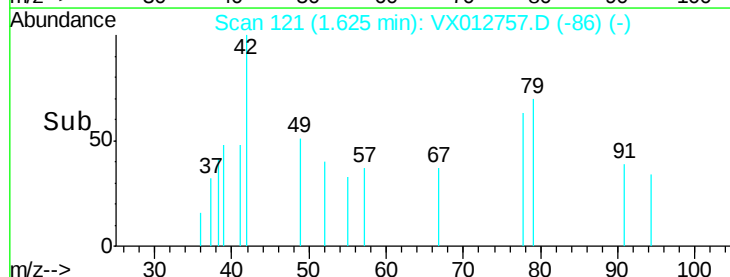
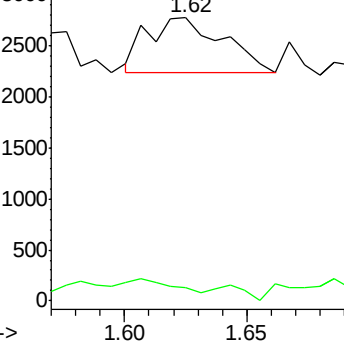
64 100

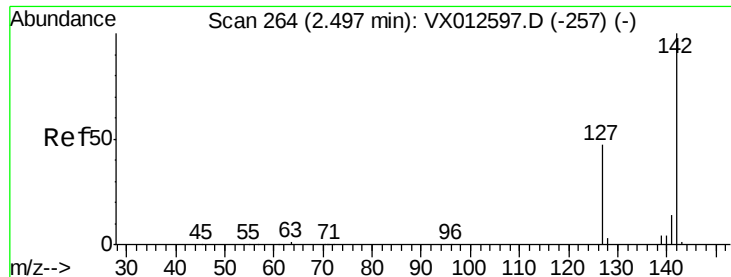
66 0.0 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

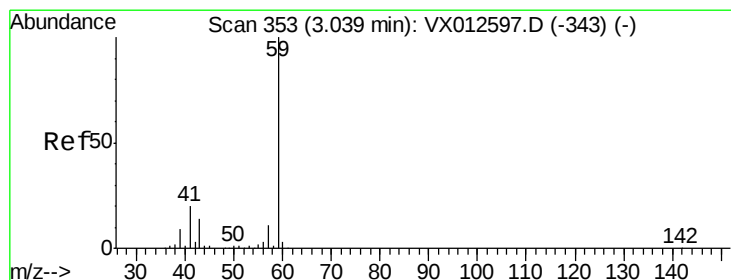
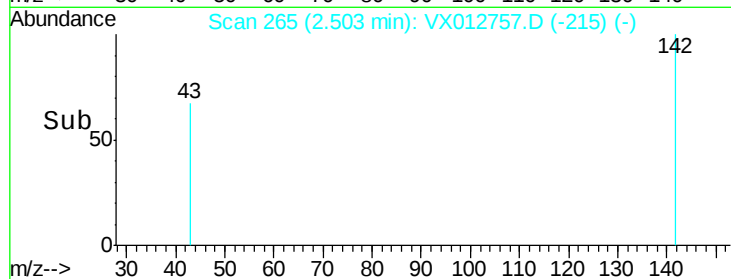
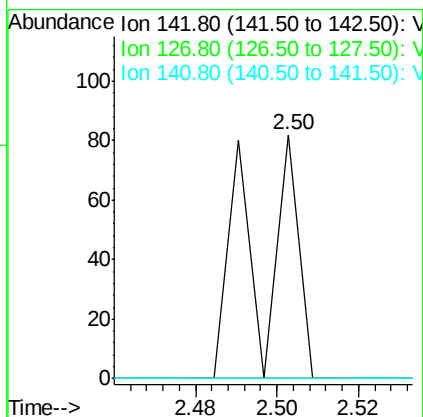
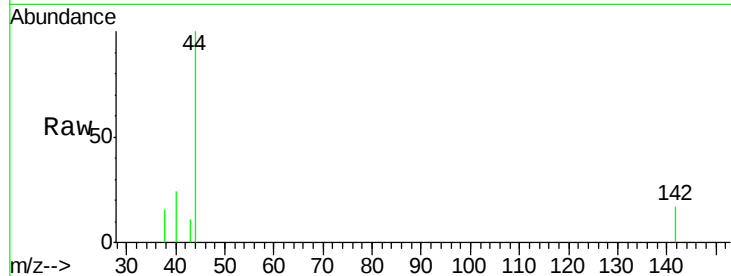




#10
Methvl Iodide
Concen: 4.979 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX012757.D
Acq: 02 Oct 2019 13:42

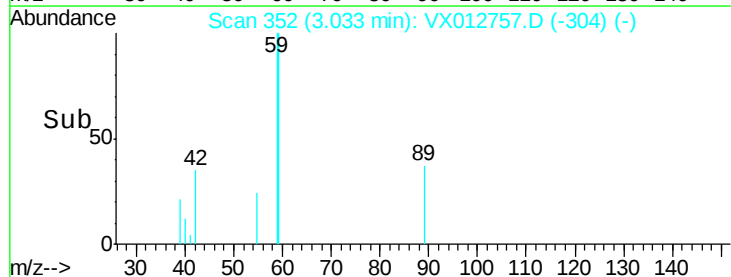
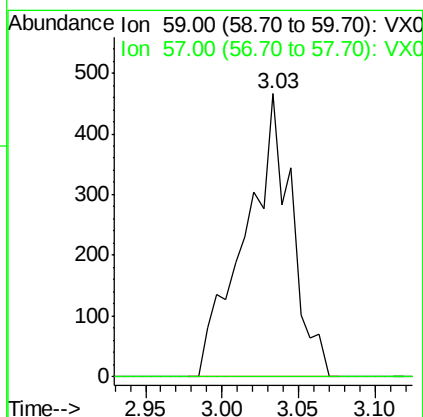
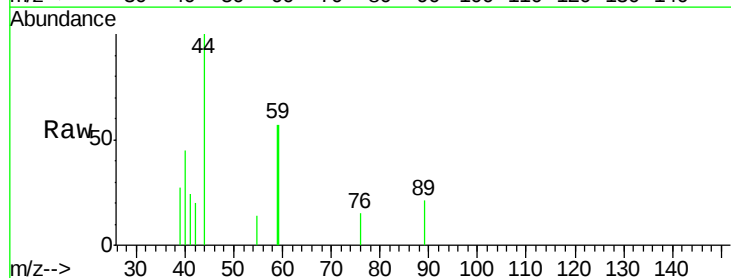
Instrument :
MSVOA_X
ClientSampled :

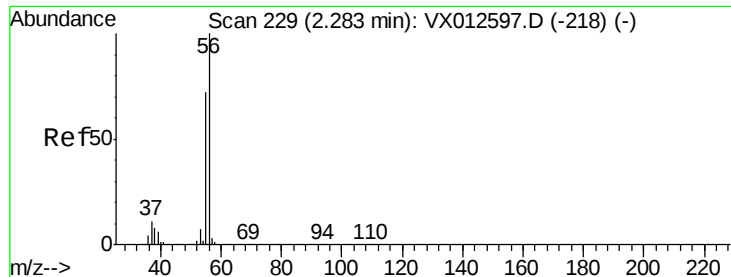
Tot Ion:142 Resp: 59
Ion Ratio Lower Upper
142 100
127 0.0 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 1.508 ug/l
RT: 3.03 min Scan# 352
Delta R.T. -0.01 min
Lab File: VX012757.D
Acq: 02 Oct 2019 13:42

Tgt Ion: 59 Resp: 980
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 10.429 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

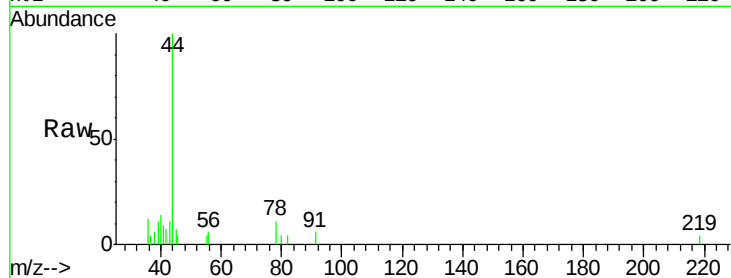
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 74

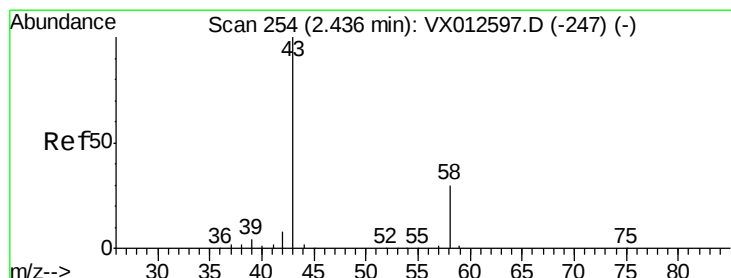
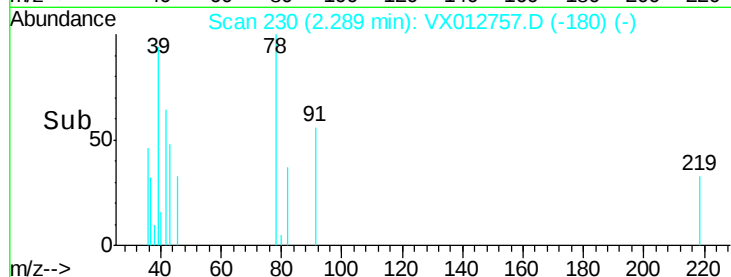
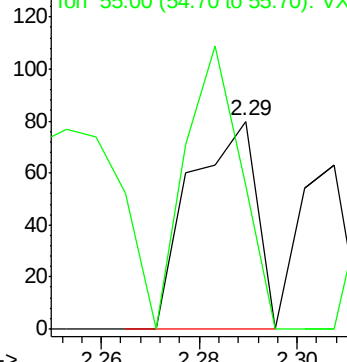
Ion Ratio Lower Upper

56 100

55 116.2 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.810 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012757.D

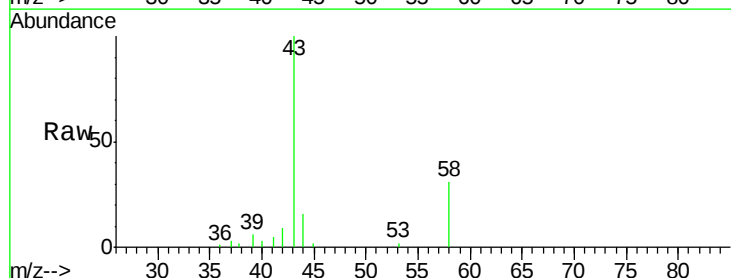
Acq: 02 Oct 2019 13:42

Tgt Ion: 43 Resp: 8004

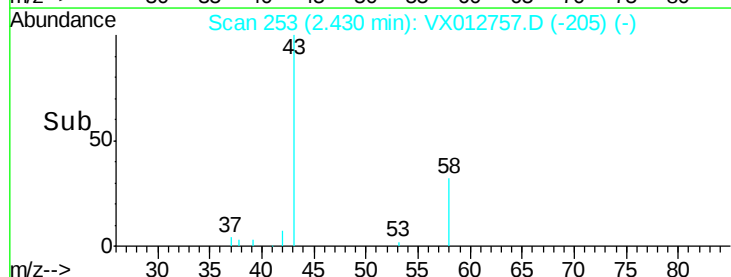
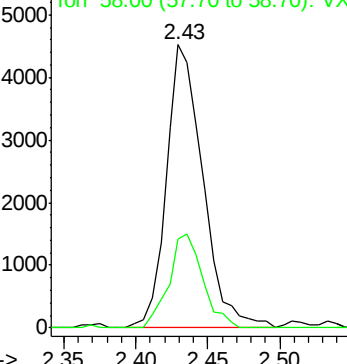
Ion Ratio Lower Upper

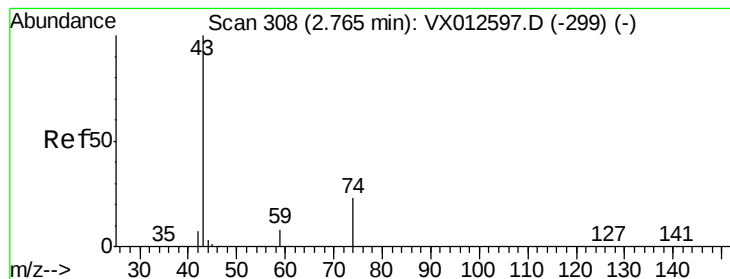
43 100

58 31.2 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#18

Methvl Acetate

Concen: 4.426 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

Instrument :

MSVOA_X

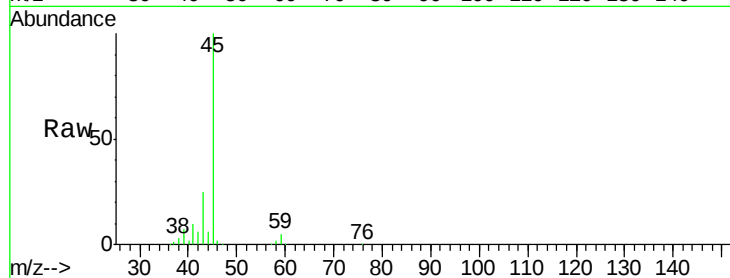
ClientSampleId :

Tot Ion: 43 Resp: 14357

Ion Ratio Lower Upper

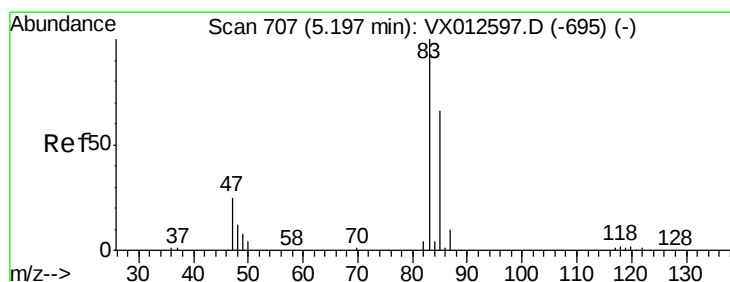
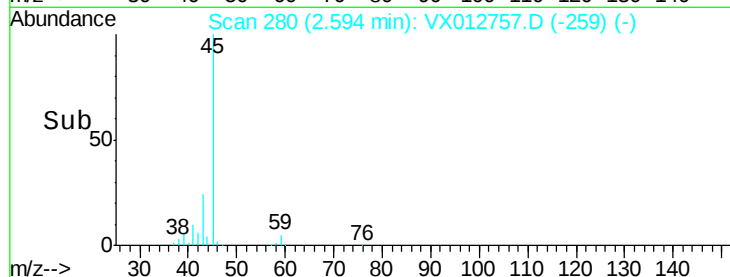
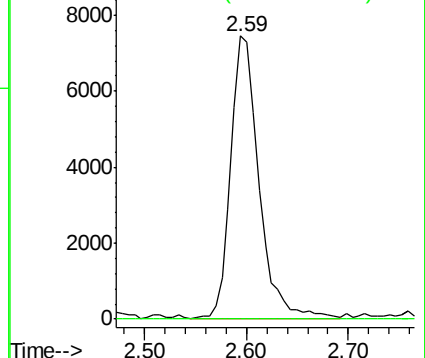
43 100

74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#30

Chloroform

Concen: 0.264 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.00 min

Lab File: VX012757.D

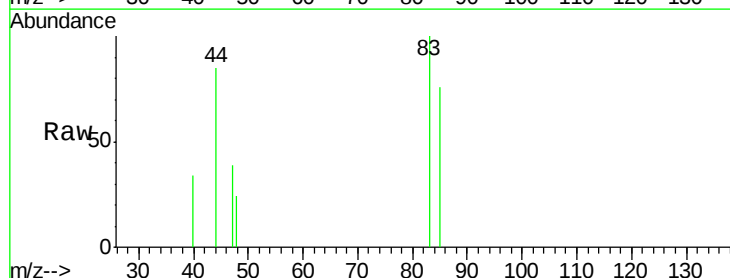
Acq: 02 Oct 2019 13:42

Tgt Ion: 83 Resp: 1081

Ion Ratio Lower Upper

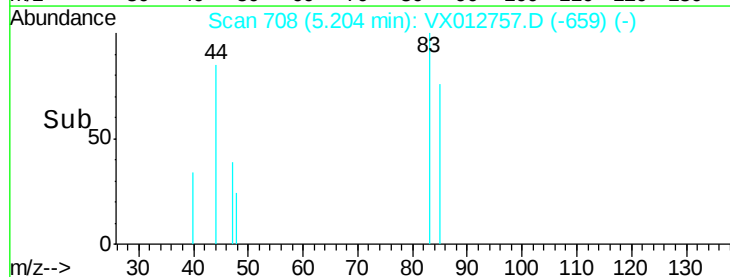
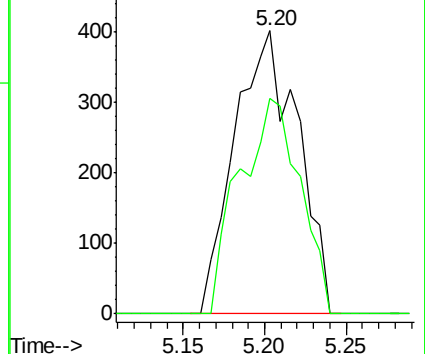
83 100

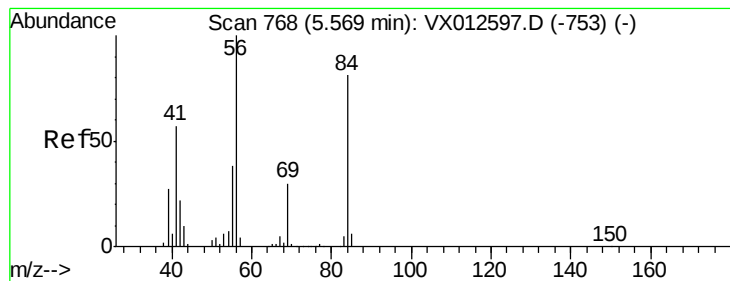
85 76.1 53.0 79.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.109 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

Instrument :
MSVOA_X
ClientSampled :

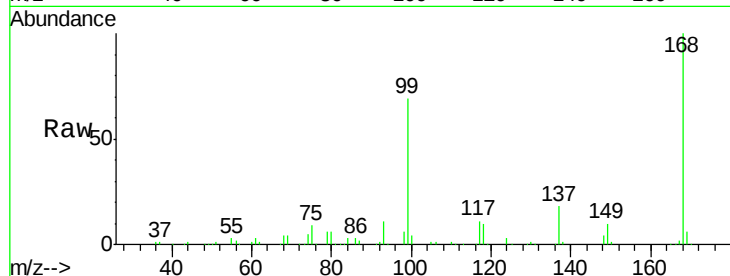
Tot Ion: 56 Resp: 4016

Ion Ratio Lower Upper

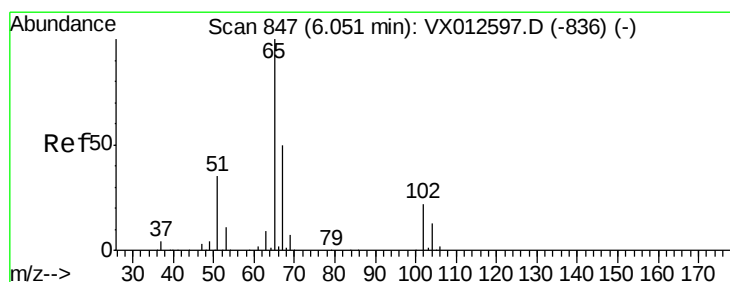
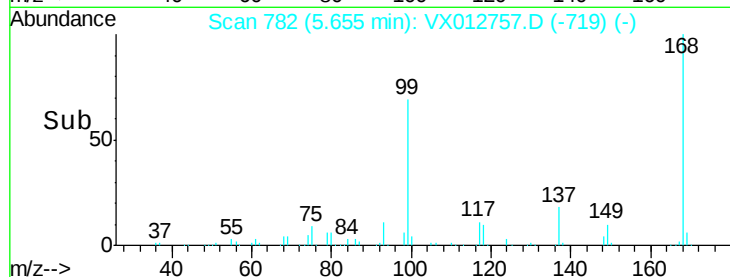
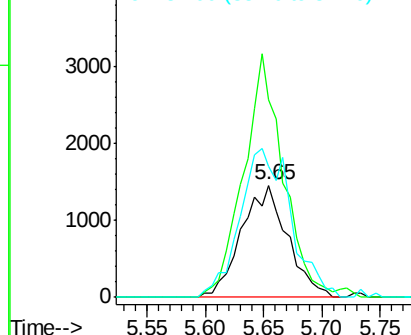
56 100

69 175.8 25.0 37.6#

84 116.4 66.4 99.6#



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: 48.649 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012757.D

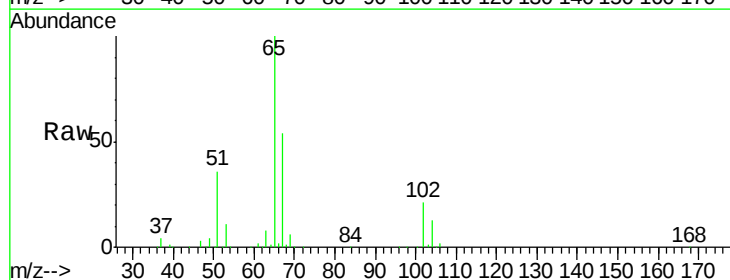
Acq: 02 Oct 2019 13:42

Tgt Ion: 65 Resp: 126519

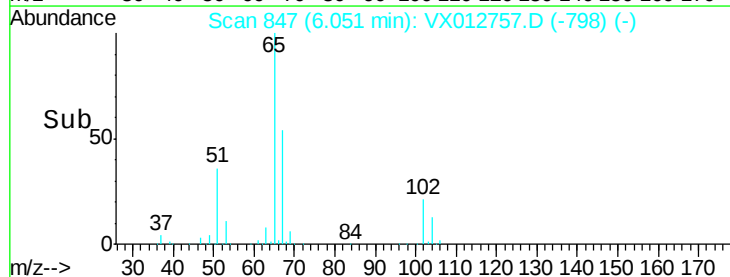
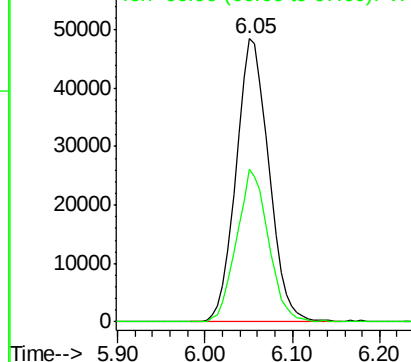
Ion Ratio Lower Upper

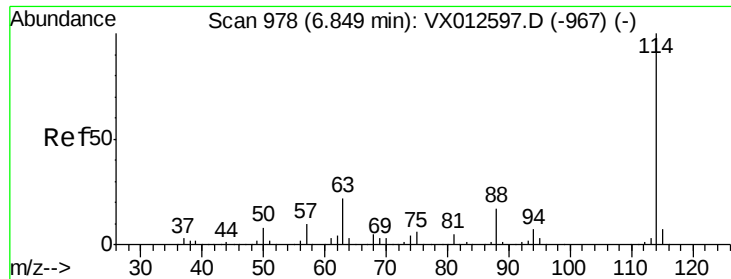
65 100

67 52.3 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

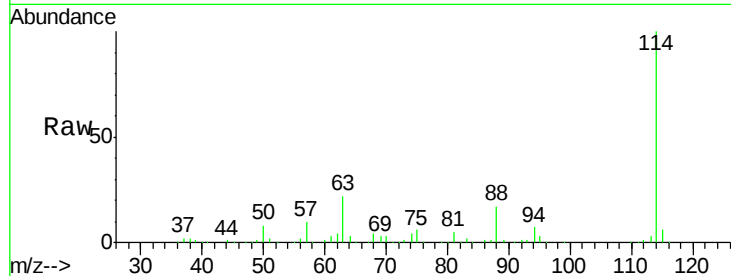




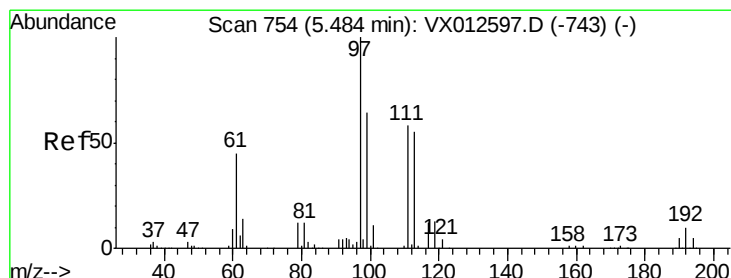
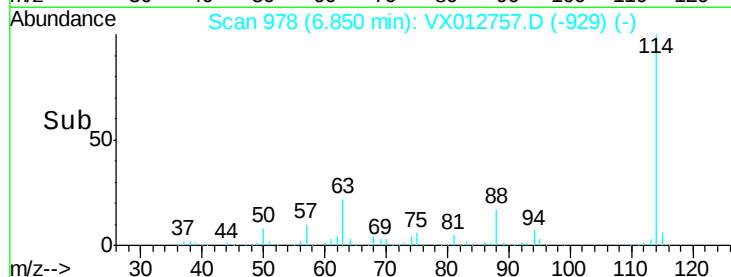
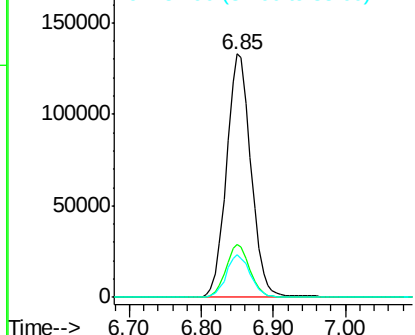
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012757.D
 Acq: 02 Oct 2019 13:42

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 315836
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.2
 88 17.4 0.0 33.2

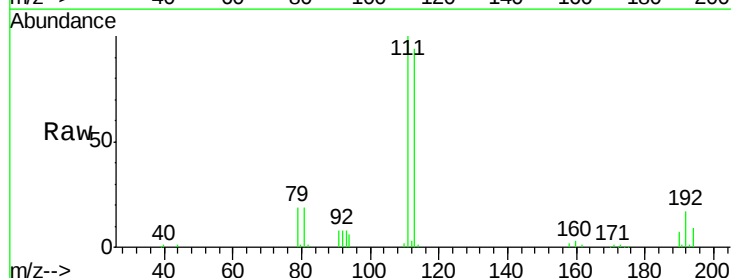


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

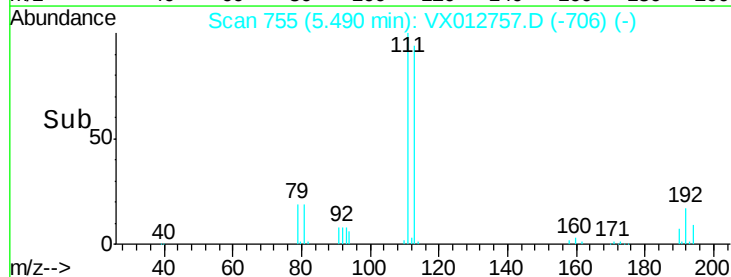
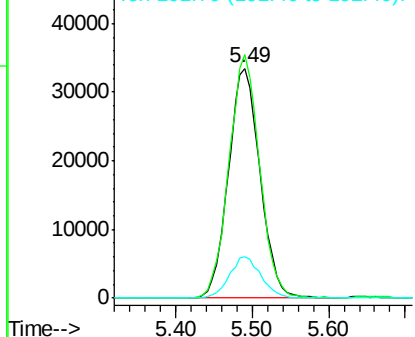


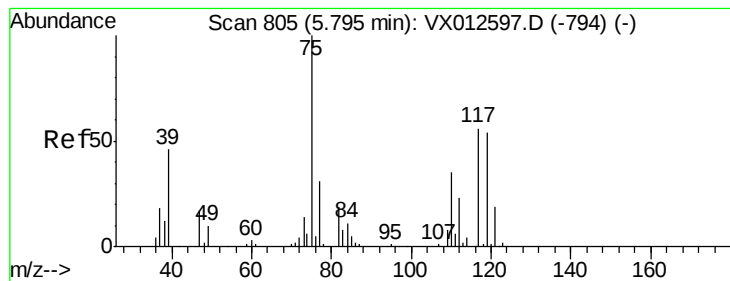
#35
 Dibromofluoromethane
 Concen: 50.913 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012757.D
 Acq: 02 Oct 2019 13:42

Tgt Ion:113 Resp: 95765
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.4 125.2
 192 17.8 14.4 21.6



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: 5.068 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

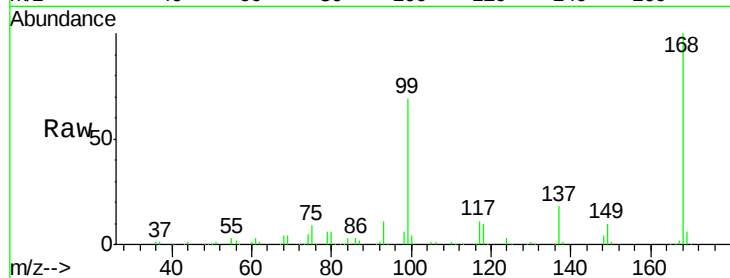
Tot Ion: 75 Resp: 15430

Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.0#

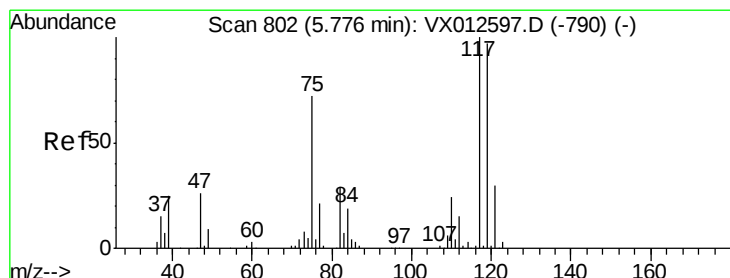
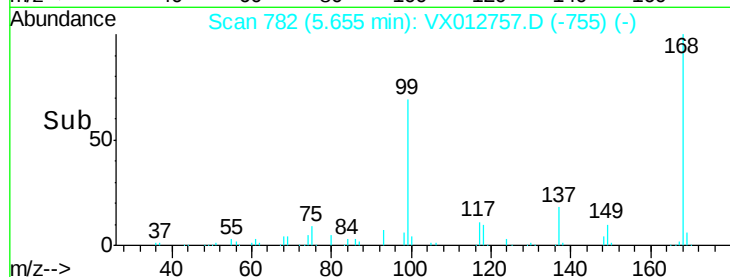
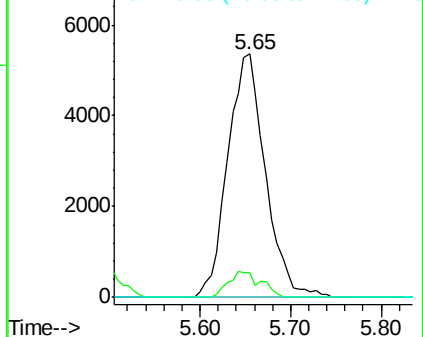
77 0.0 24.2 36.2#



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: 6.077 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

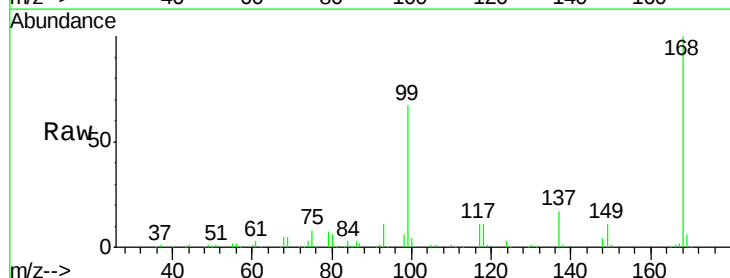
Tgt Ion: 117 Resp: 18793

Ion Ratio Lower Upper

117 100

119 4.7 75.7 113.5#

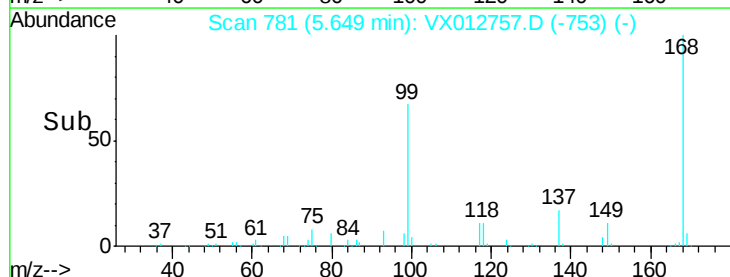
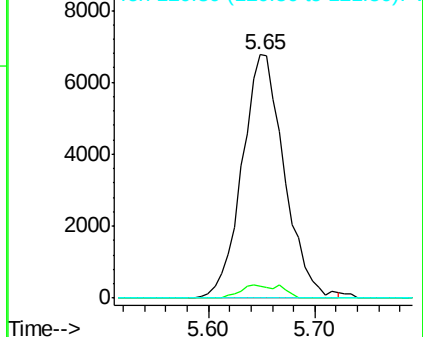
121 0.0 24.2 36.4#

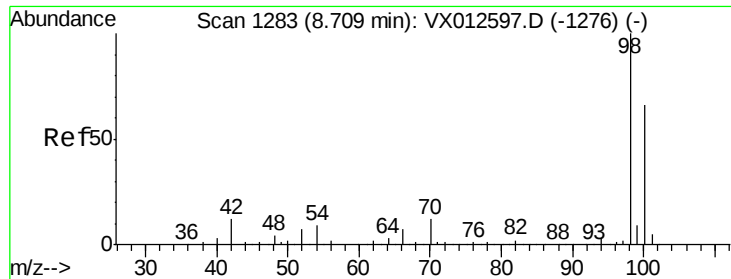


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

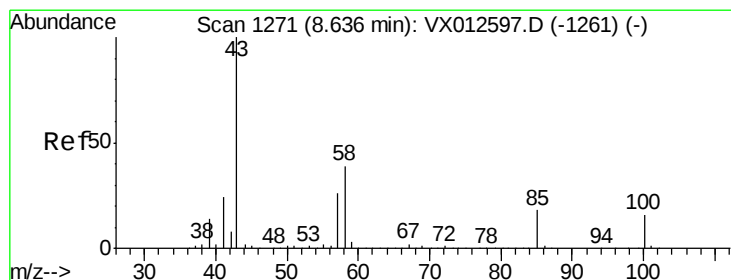
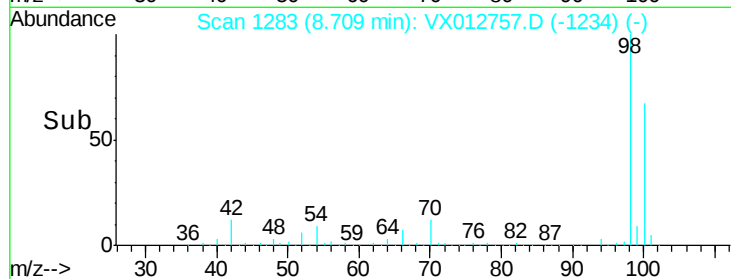
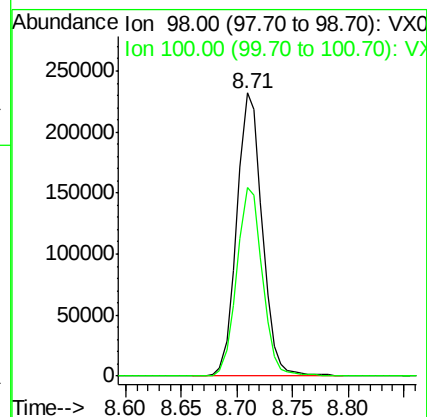
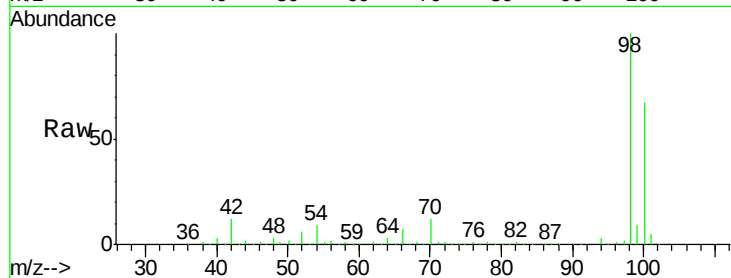




#50
Toluene-d8
Concen: 50.745 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012757.D
Acq: 02 Oct 2019 13:42

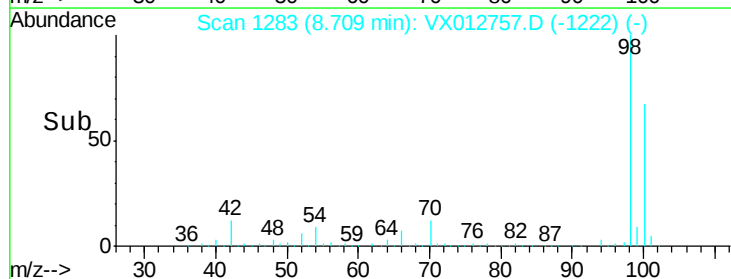
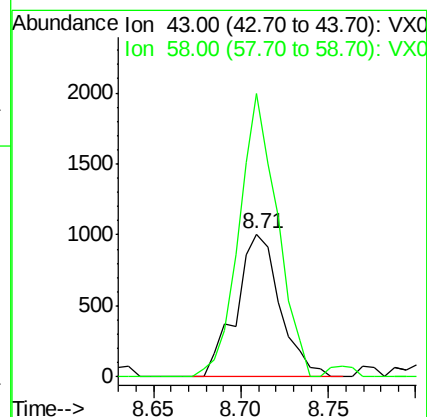
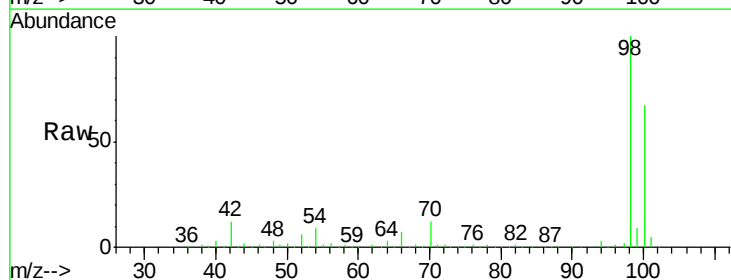
Instrument :
MSVOA_X
ClientSampleId :

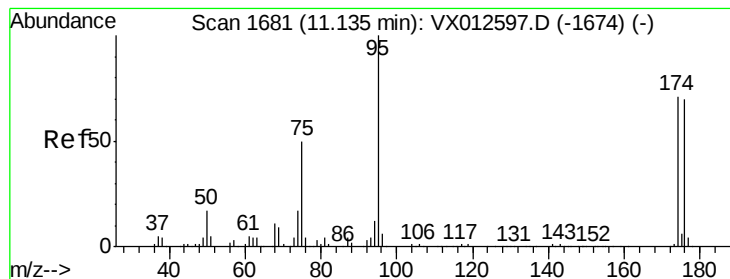
Tot Ion: 98 Resp: 367575
Ion Ratio Lower Upper
98 100
100 67.5 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.478 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012757.D
Acq: 02 Oct 2019 13:42

Tgt Ion: 43 Resp: 1758
Ion Ratio Lower Upper
43 100
58 172.2 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 42.741 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

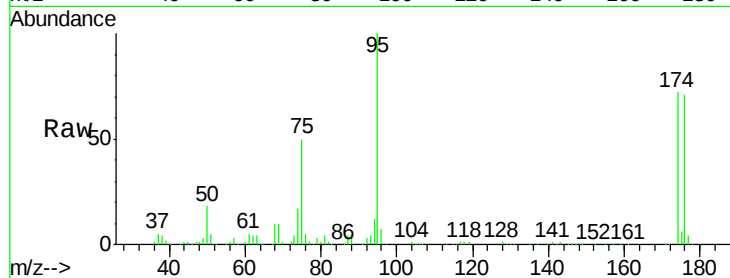
Tot Ion: 95 Resp: 121736

Ion Ratio Lower Upper

95 100

174 70.6 0.0 140.0

176 67.2 0.0 135.4



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

120000

100000

80000

60000

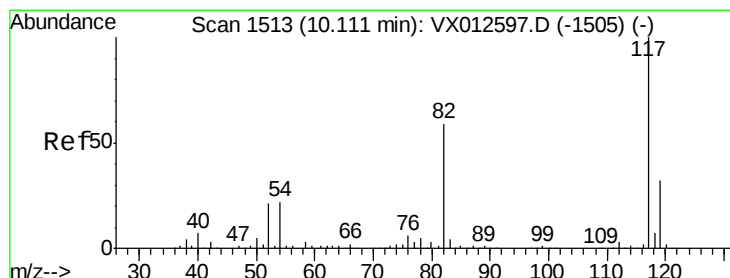
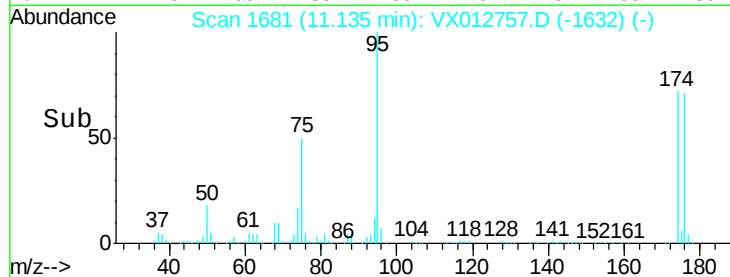
40000

20000

0

11.10 11.14 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

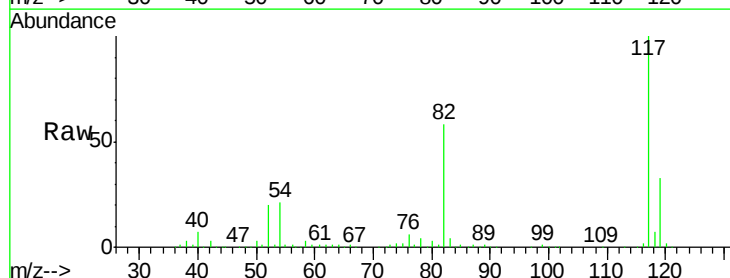
Tgt Ion: 117 Resp: 266478

Ion Ratio Lower Upper

117 100

82 58.2 45.9 68.9

119 33.1 25.3 37.9



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

250000

200000

150000

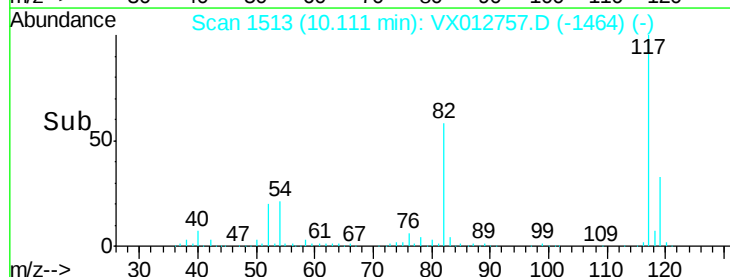
100000

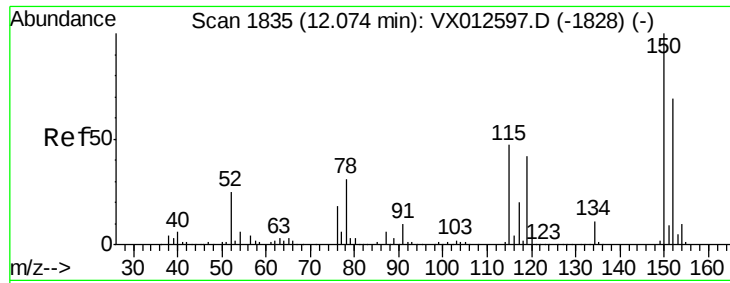
50000

0

10.10 10.11 10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

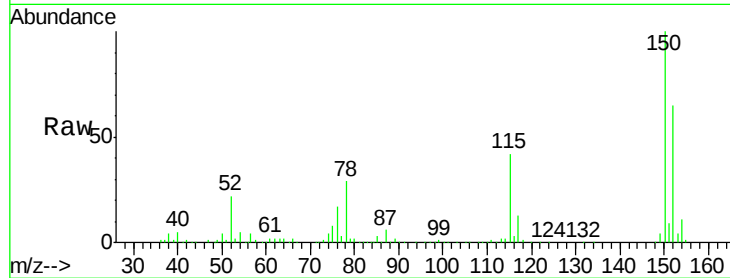
Tot Ion:152 Resp: 100515

Ion Ratio Lower Upper

152 100

115 64.2 44.1 132.3

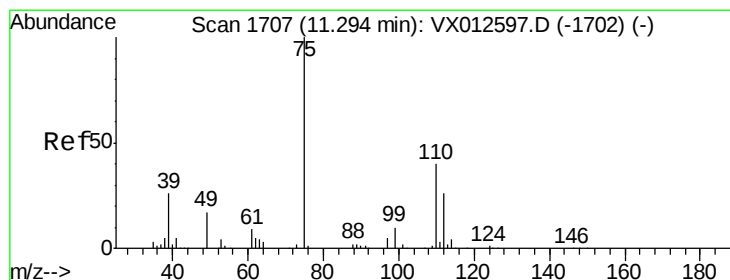
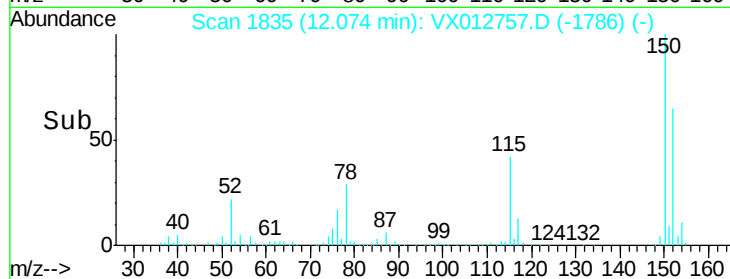
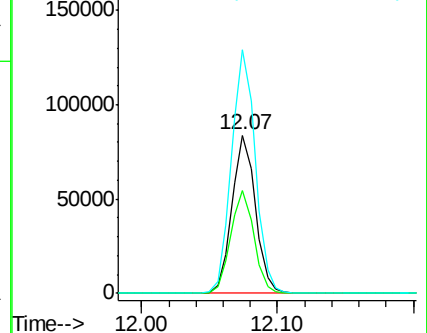
150 156.3 0.0 343.8



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: 23.397 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012757.D

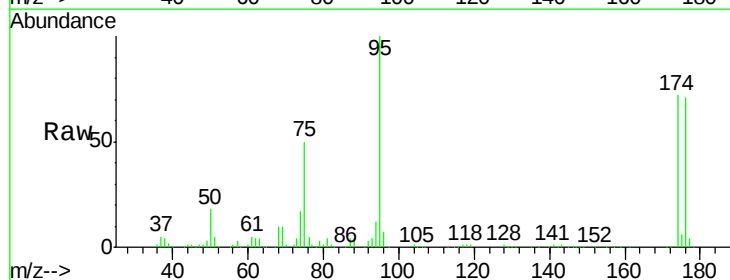
Acq: 02 Oct 2019 13:42

Tgt Ion: 75 Resp: 62210

Ion Ratio Lower Upper

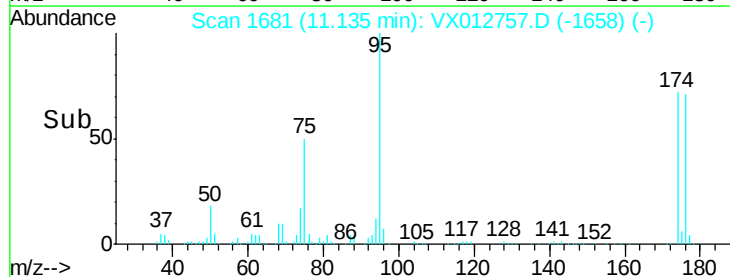
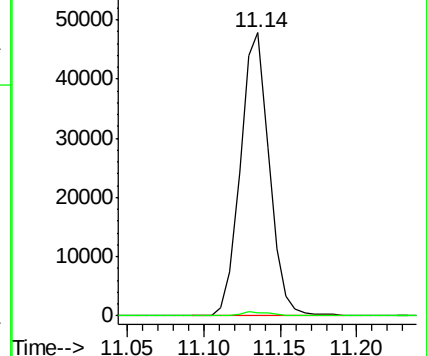
75 100

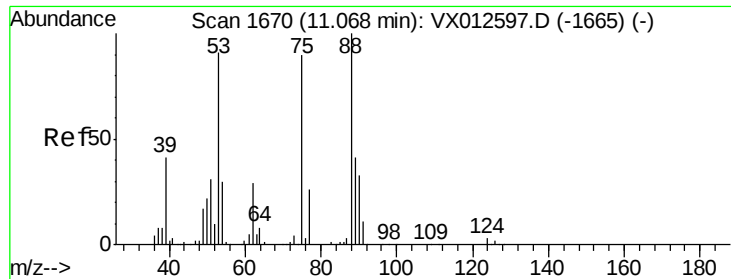
77 1.6 19.7 59.0#



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: 67.051 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012757.D

Acq: 02 Oct 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

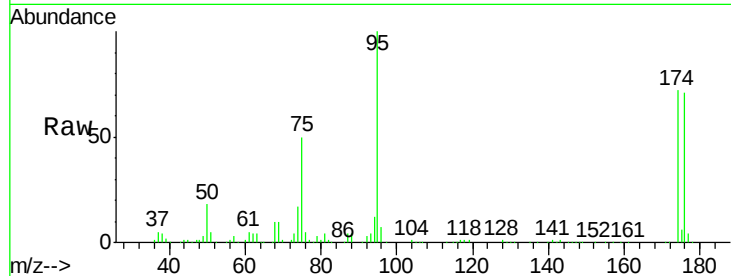
Tot Ion: 75 Resp: 62210

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#



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

