

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX101419\
 Data File : VX013056.D
 Acq On : 14 Oct 2019 16:53
 Operator : JC/SP
 Sample : K5336-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

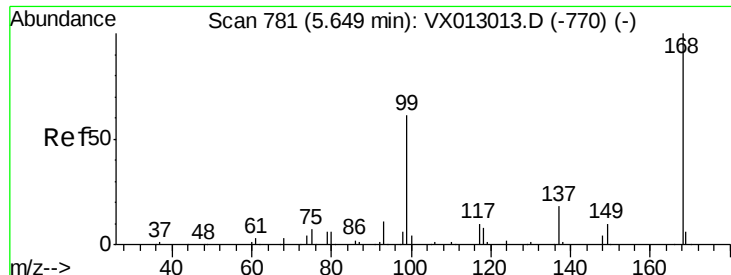
Quant Time: Oct 15 01:27:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	172244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	278664	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	229334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	80433	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	106334	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
35) Dibromofluoromethane	5.49	113	84278	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
50) Toluene-d8	8.71	98	321181	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
62) 4-Bromofluorobenzene	11.14	95	99351	40.99	ug/l	0.00
Spiked Amount			Recovery	=	81.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1256	0.657	ug/l #	86
4) Vinyl Chloride	1.40	62	2834	1.437	ug/l	99
5) Bromomethane	1.64	94	240	0.293	ug/l #	74
6) Chloroethane	1.73	64	1383	1.507	ug/l #	43
10) Methyl Iodide	2.50	142	49	5.104	ug/l #	40
11) Tert butyl alcohol	3.01	59	8729	15.295	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	474	0.272	ug/l #	54
14) Allyl chloride	2.59	41	3585	1.157	ug/l #	62
16) Acetone	2.44	43	5443	4.797	ug/l	94
18) Methyl Acetate	2.83	43	2926	1.088	ug/l #	51
21) trans-1,2-Dichloroethene	3.16	96	1107	0.593	ug/l #	83
23) Vinyl Acetate	3.81	43	1727	0.337	ug/l	97
25) 2-Butanone	4.82	43	208503	132.440	ug/l #	49
26) 2,2-Dichloropropane	4.68	77	875	0.311	ug/l #	53
27) cis-1,2-Dichloroethene	4.59	96	175378	81.554	ug/l	90
36) 1,1-Dichloropropene	5.65	75	13244	5.406	ug/l #	50
37) Ethyl Acetate	4.82	43	209310	76.402	ug/l	98
38) Carbon Tetrachloride	5.65	117	18251	7.653	ug/l #	18
40) Benzene	6.13	78	1904	0.263	ug/l #	88
44) Trichloroethene	7.21	130	82069	40.899	ug/l	96
56) Ethyl methacrylate	9.04	69	24	1.838	ug/l #	1
60) Dibromochloromethane	9.33	129	453	2.071	ug/l #	10
64) Tetrachloroethene	9.33	164	407	0.256	ug/l #	89
76) 1,2,3-Trichloropropane	11.14	75	49537	27.767	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	49537	69.655	ug/l #	10
90) Hexachloroethane	12.69	117	239	2.357	ug/l #	13

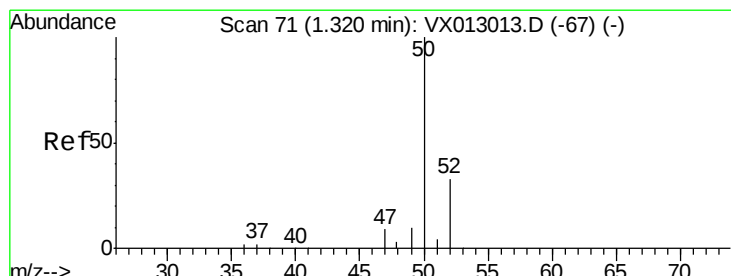
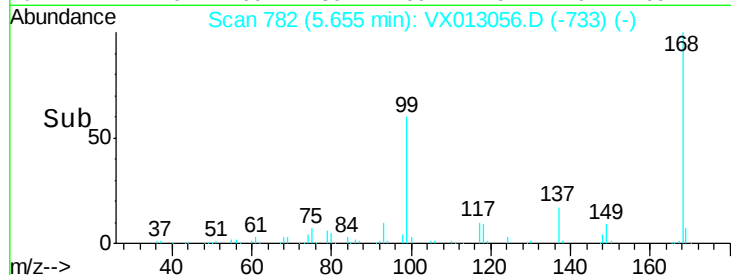
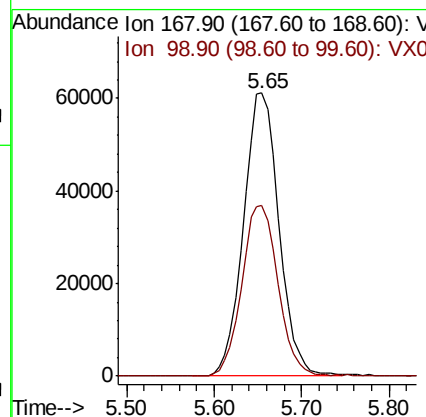
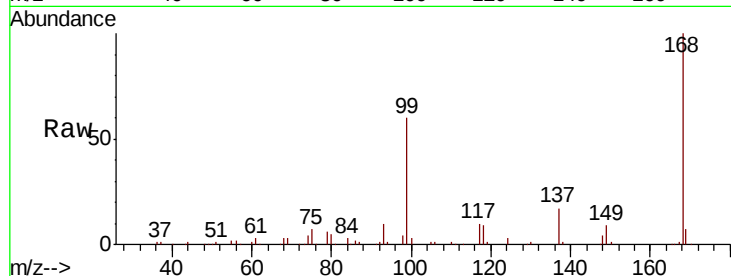
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.00 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

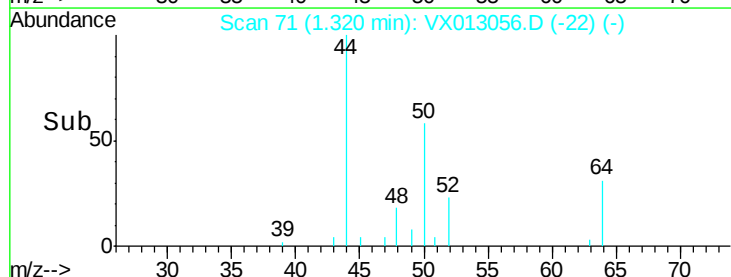
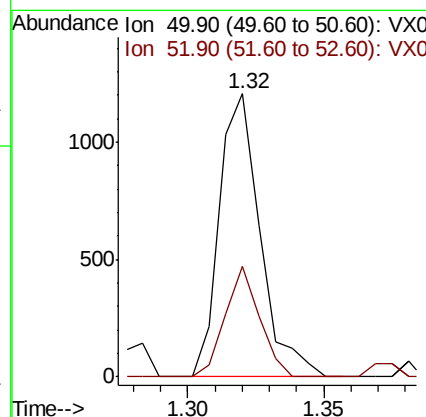
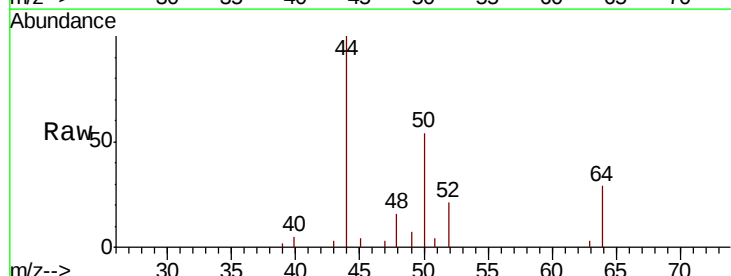
Instrument :
MSVOA_X
ClientSampled :

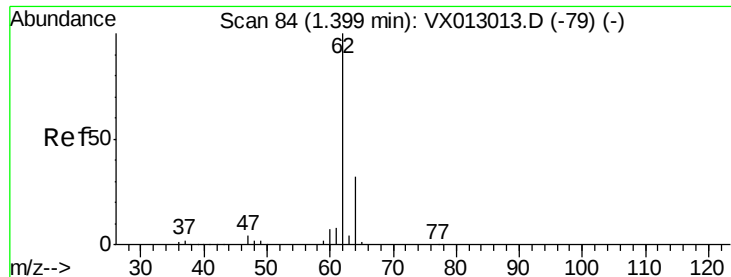
Tot Ion:168 Resp: 172244
Ion Ratio Lower Upper
168 100
99 60.3 49.4 74.0



#3
Chloromethane
Concen: 0.657 ug/l
RT: 1.32 min Scan# 71
Delta R.T. 0.00 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

Tgt Ion: 50 Resp: 1256
Ion Ratio Lower Upper
50 100
52 39.2 25.2 37.8#





#4

Vinyl Chloride

Concen: 1.437 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

Instrument :

MSVOA_X

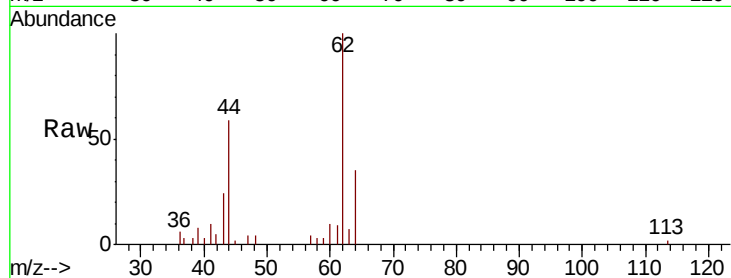
ClientSampleId :

Tot Ion: 62 Resp: 2834

Ion Ratio Lower Upper

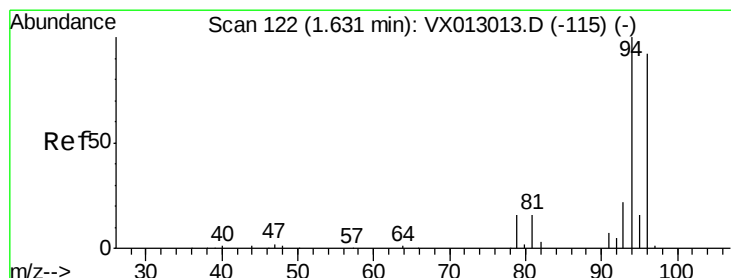
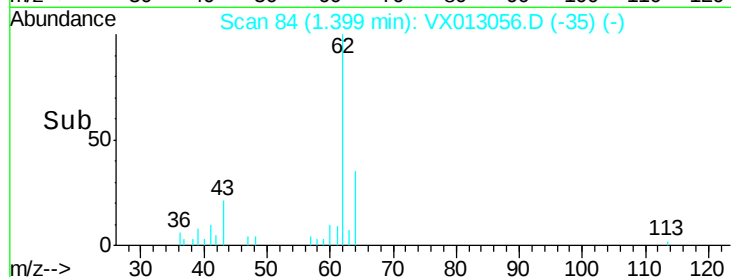
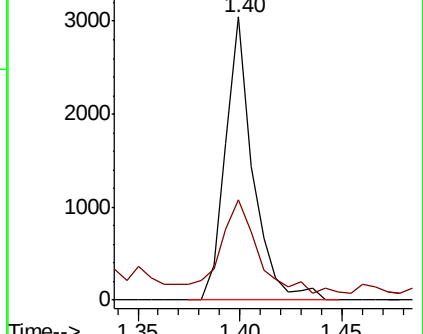
62 100

64 32.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.293 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013056.D

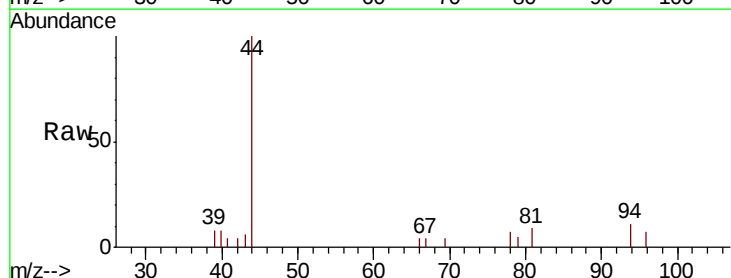
Acq: 14 Oct 2019 16:53

Tgt Ion: 94 Resp: 240

Ion Ratio Lower Upper

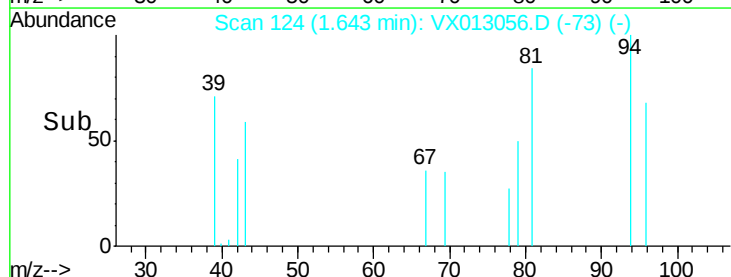
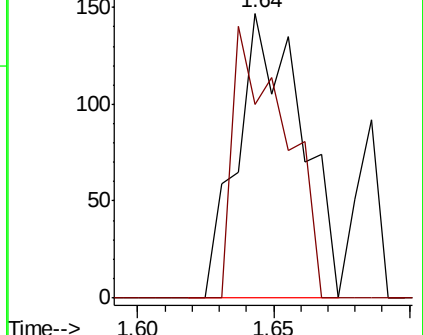
94 100

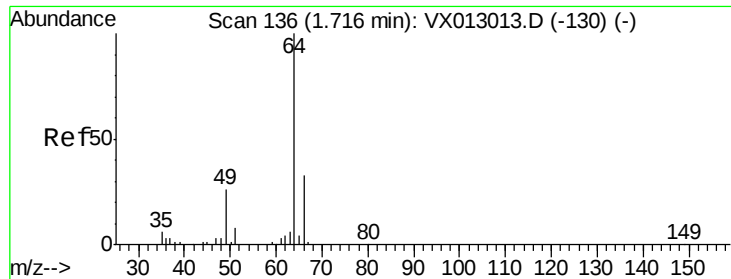
96 68.0 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.507 ug/l

RT: 1.73 min Scan# 139

Delta R.T. 0.02 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

Instrument :

MSVOA_X

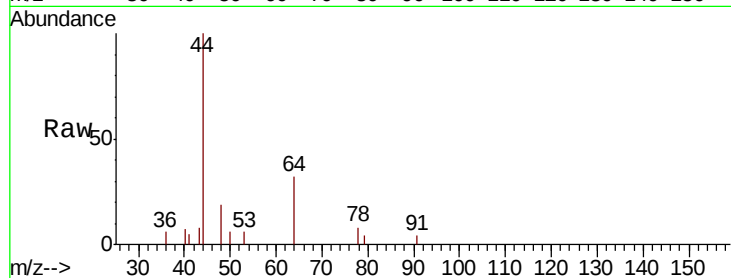
ClientSampled :

Tot Ion: 64 Resp: 1383

Ion Ratio Lower Upper

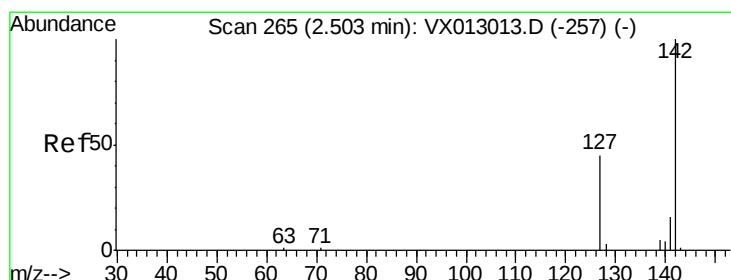
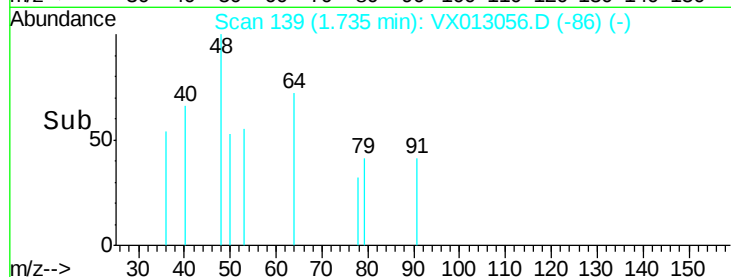
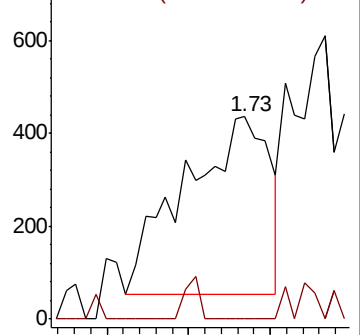
64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.104 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

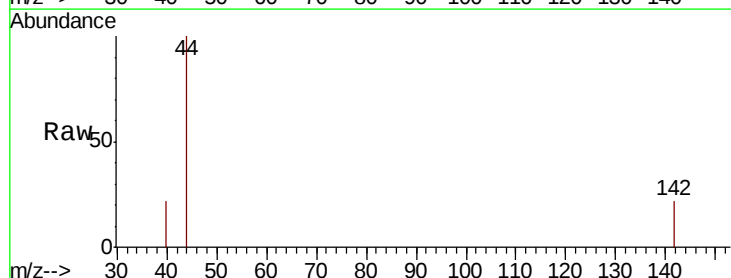
Tgt Ion: 142 Resp: 49

Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

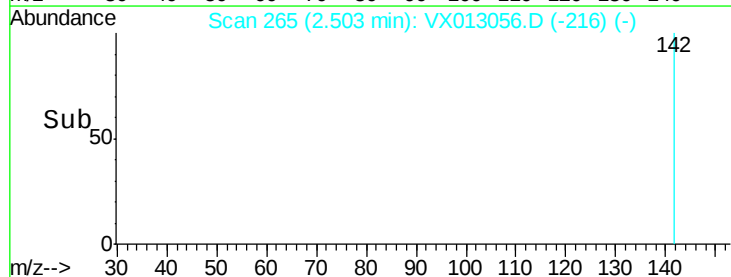
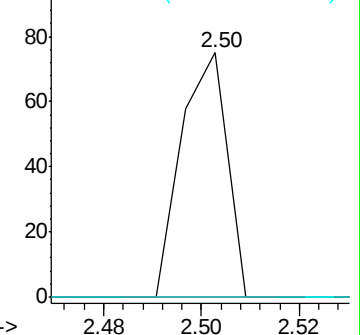
141 0.0 11.6 17.4#

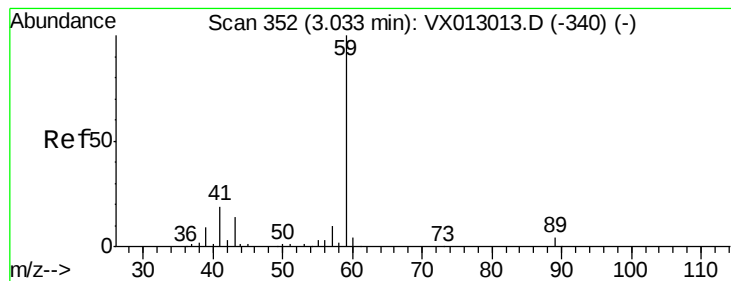


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



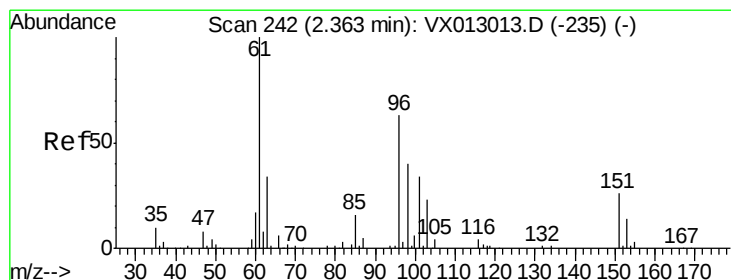
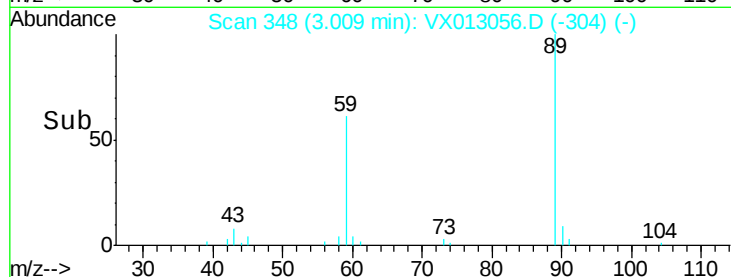
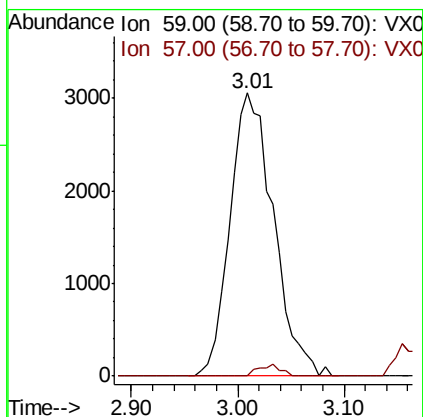
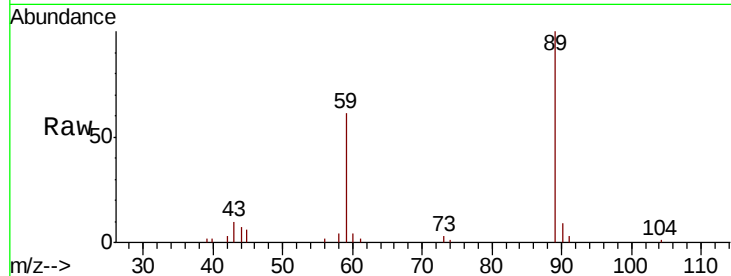


#11

Tert butyl alcohol
 Concen: 15.295 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX013056.D
 Acq: 14 Oct 2019 16:53

Instrument :
 MSVOA_X
 ClientSampled :

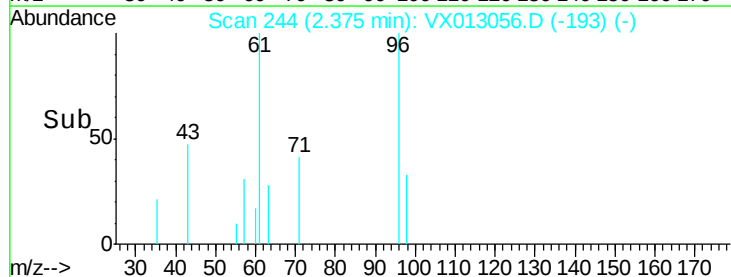
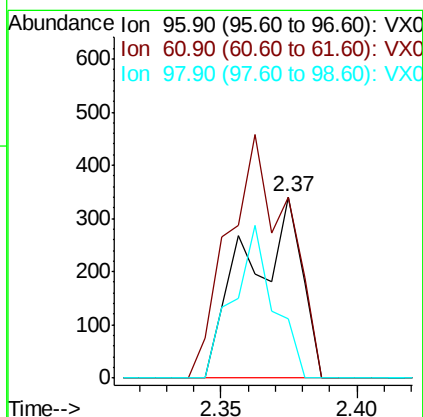
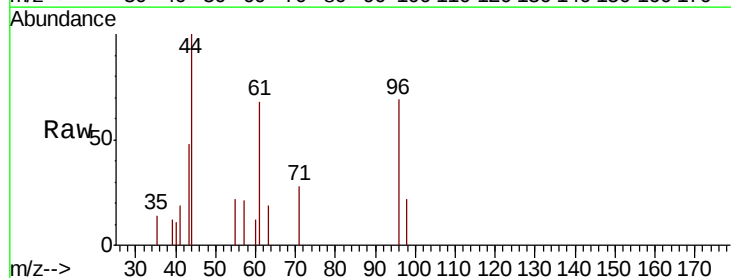
Tot Ion: 59 Resp: 8729
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

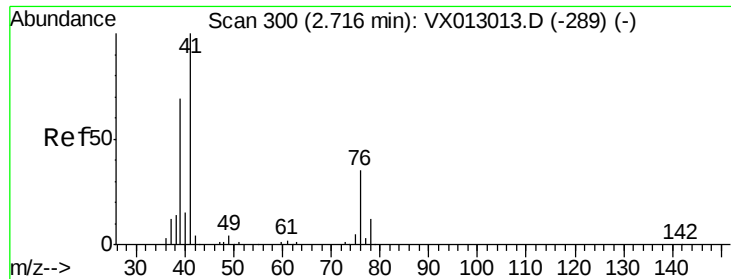


#12

1,1-Dichloroethene
 Concen: 0.272 ug/l
 RT: 2.37 min Scan# 244
 Delta R.T. 0.01 min
 Lab File: VX013056.D
 Acq: 14 Oct 2019 16:53

Tgt Ion: 96 Resp: 474
 Ion Ratio Lower Upper
 96 100
 61 99.7 132.2 198.4#
 98 32.6 50.5 75.7#

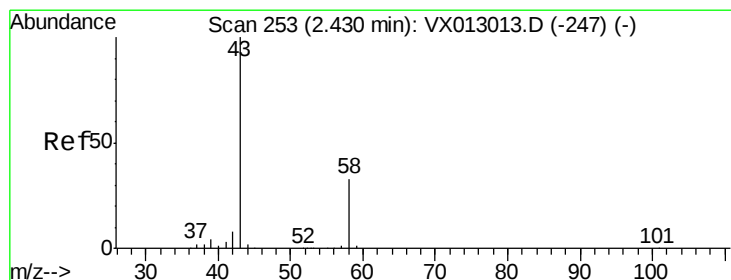
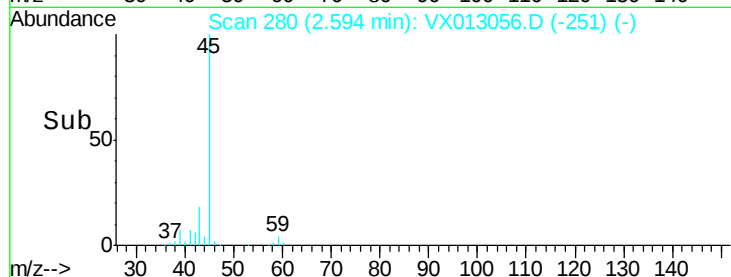
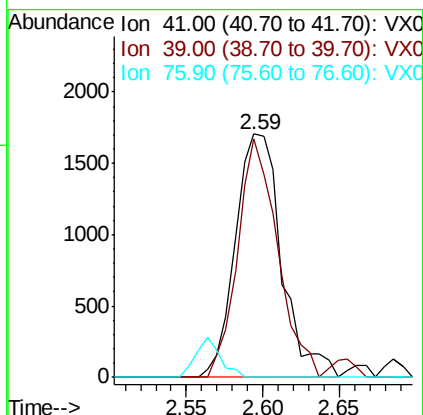
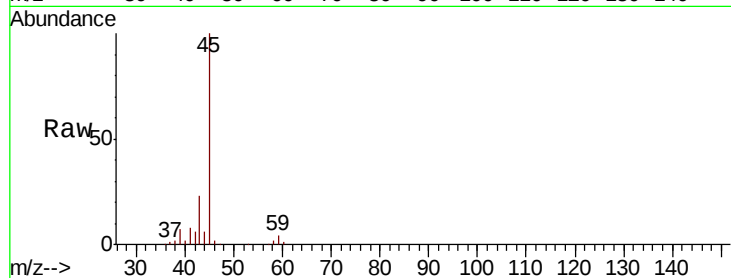




#14
Allvl chloride
Concen: 1.157 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.12 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

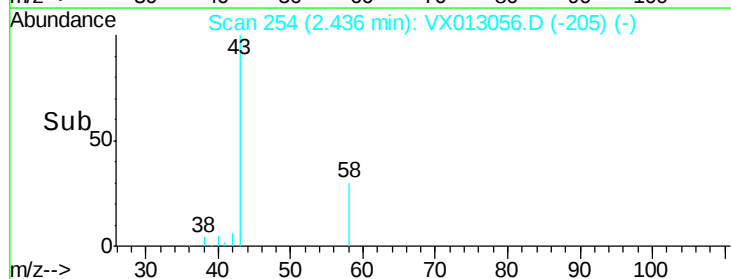
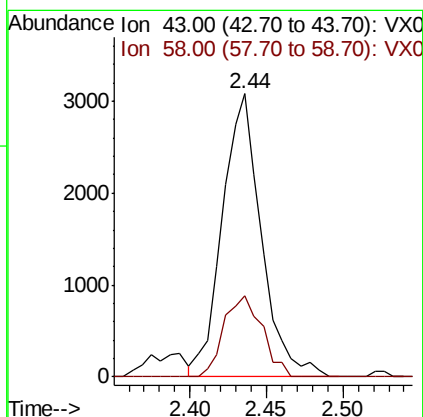
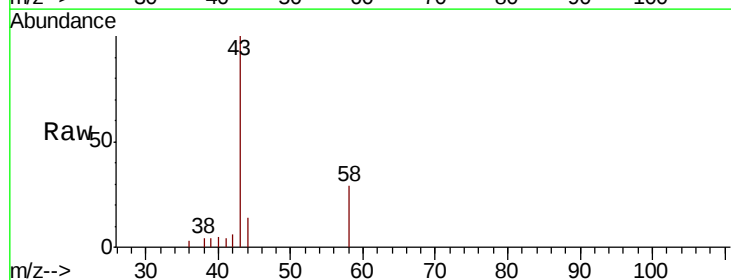
Instrument :
MSVOA_X
ClientSampled :

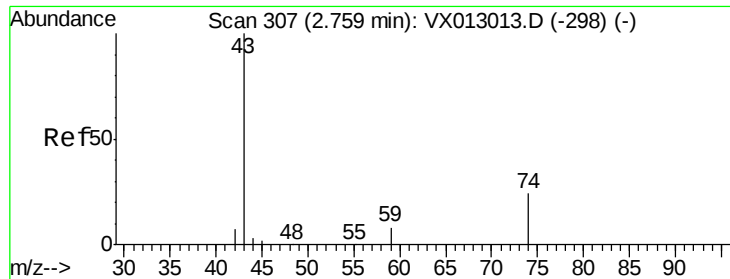
Tot Ion: 41 Resp: 3585
Ion Ratio Lower Upper
41 100
39 84.9 51.0 76.6#
76 0.0 26.2 39.4#



#16
Acetone
Concen: 4.797 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

Tgt Ion: 43 Resp: 5443
Ion Ratio Lower Upper
43 100
58 28.6 25.4 38.2

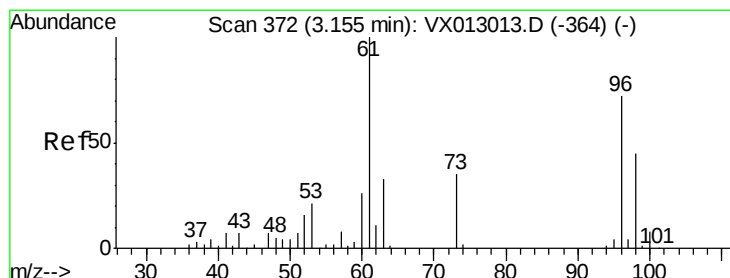
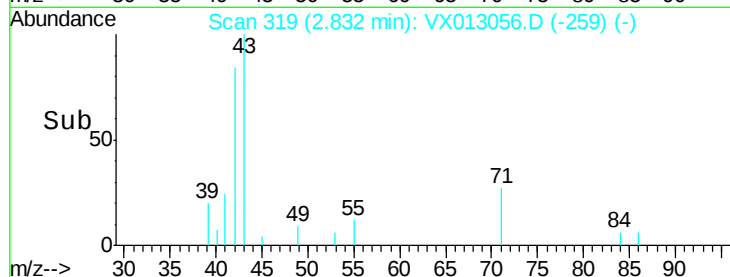
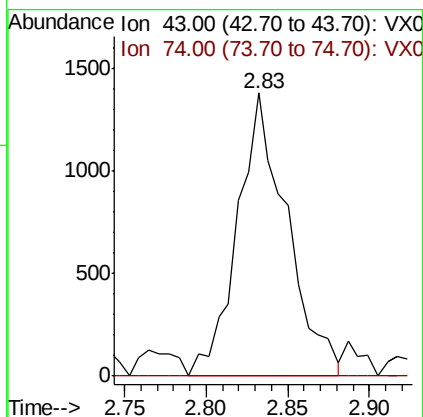
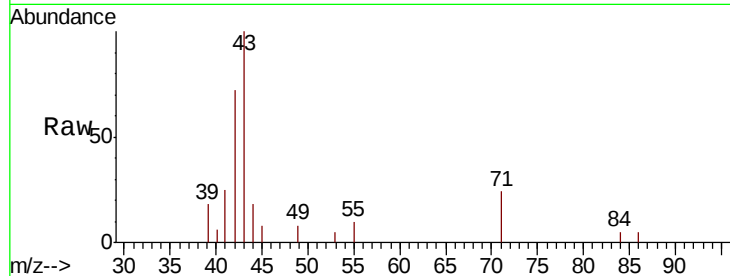




#18
Methyl Acetate
Concen: 1.088 ug/l
RT: 2.83 min Scan# 319
Delta R.T. 0.07 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

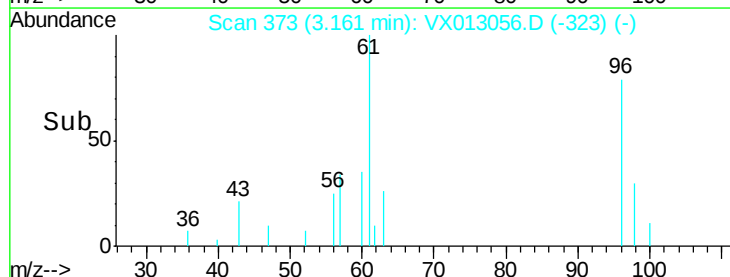
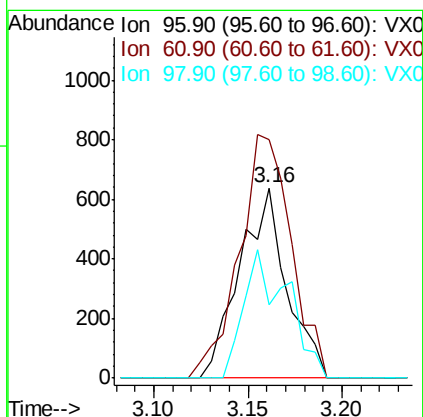
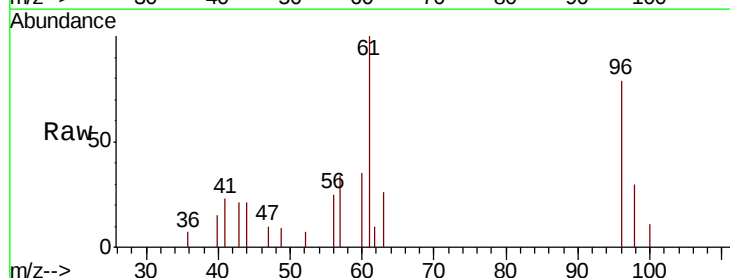
Instrument :
MSVOA_X
ClientSampled :

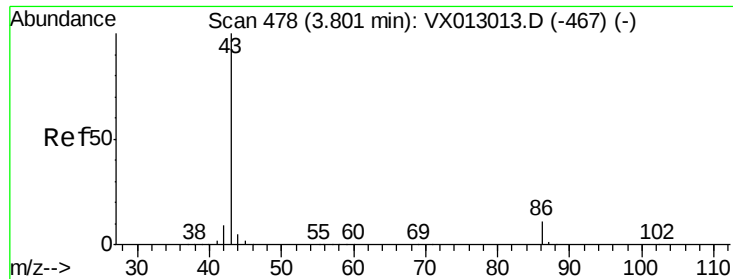
Tot Ion: 43 Resp: 2926
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#21
trans-1,2-Dichloroethene
Concen: 0.593 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

Tgt Ion: 96 Resp: 1107
Ion Ratio Lower Upper
96 100
61 125.9 110.4 165.6
98 38.3 51.5 77.3#





#23

Vinyl Acetate

Concen: 0.337 ug/l

RT: 3.81 min Scan# 480

Delta R.T. 0.01 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

Instrument :

MSVOA_X

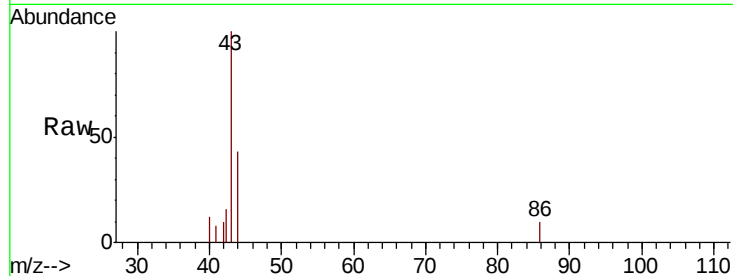
ClientSampleId :

Tot Ion: 43 Resp: 1727

Ion Ratio Lower Upper

43 100

86 10.0 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

3.81

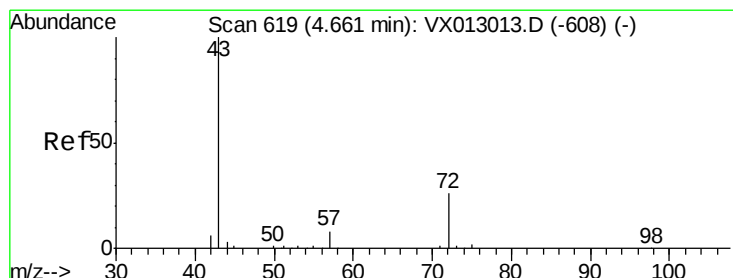
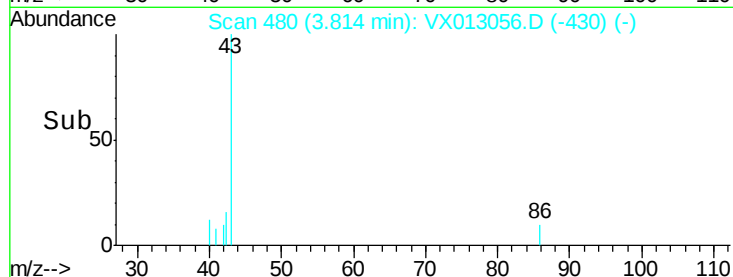
600

400

200

0

Time-->



#25

2-Butanone

Concen: 132.440 ug/l

RT: 4.82 min Scan# 645

Delta R.T. 0.16 min

Lab File: VX013056.D

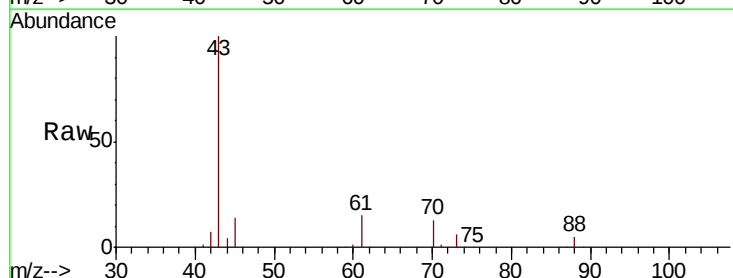
Acq: 14 Oct 2019 16:53

Tgt Ion: 43 Resp: 208503

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.82

80000

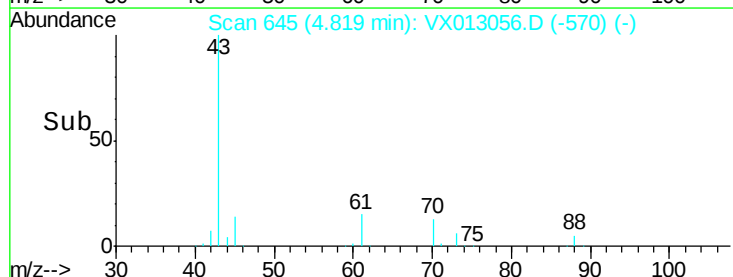
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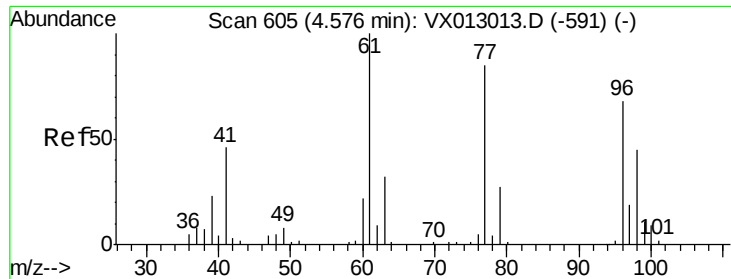
40000

20000

0

Time-->





#26

2,2-Dichloropropane

Concen: 0.311 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.10 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

Instrument :

MSVOA_X

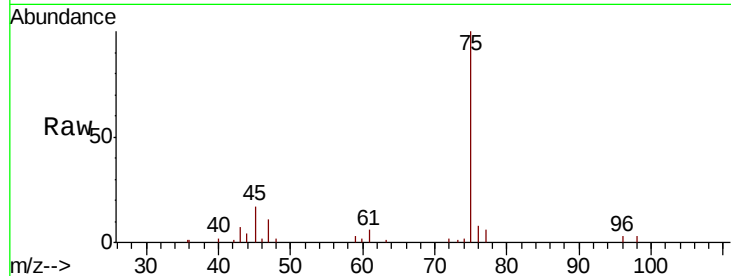
ClientSampleId :

Tot Ion: 77 Resp: 875

Ion Ratio Lower Upper

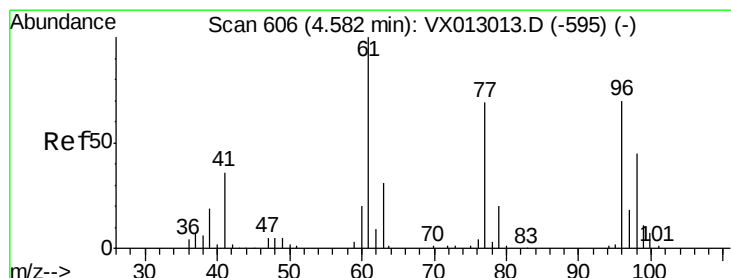
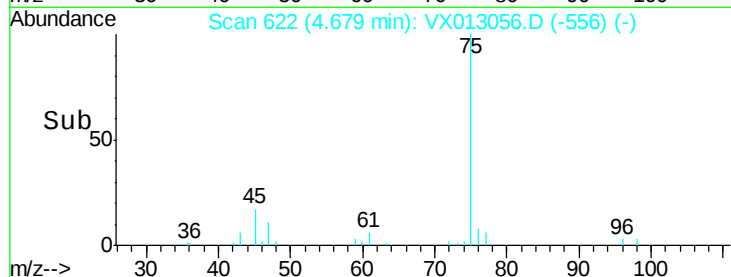
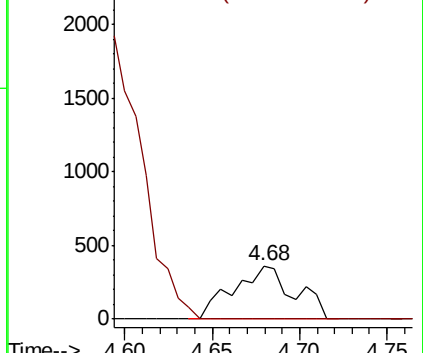
77 100

97 0.0 11.3 33.9#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 81.554 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

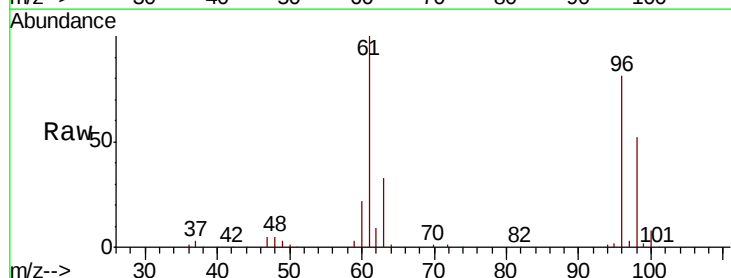
Tgt Ion: 96 Resp: 175378

Ion Ratio Lower Upper

96 100

61 126.8 0.0 290.6

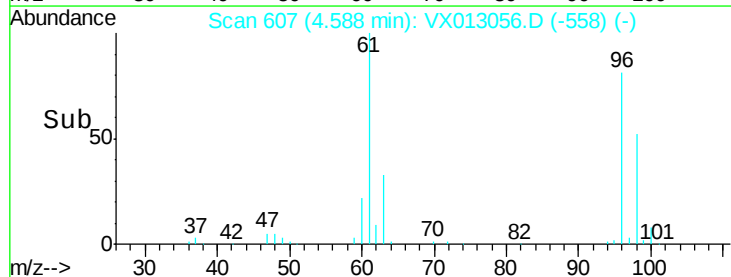
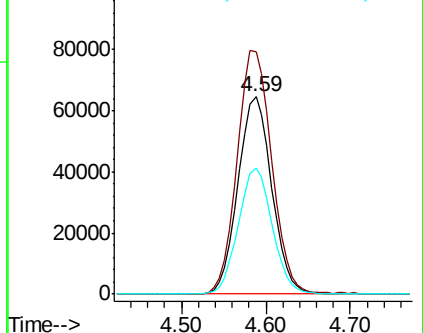
98 64.1 0.0 128.8

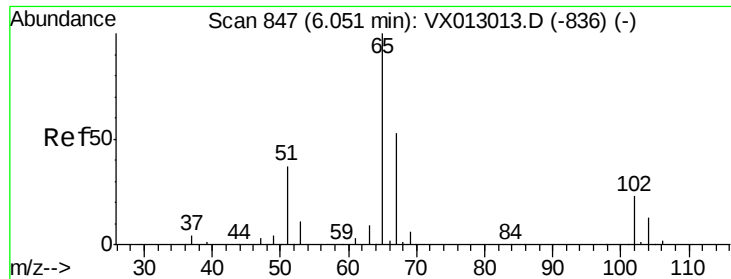


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

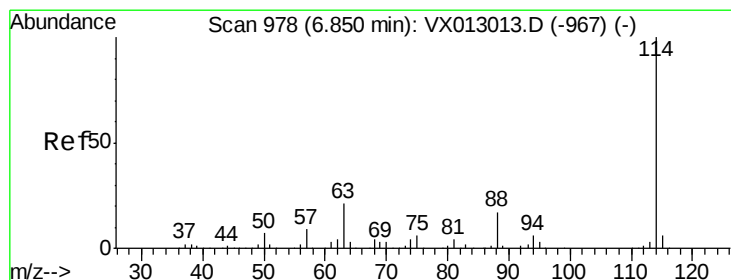
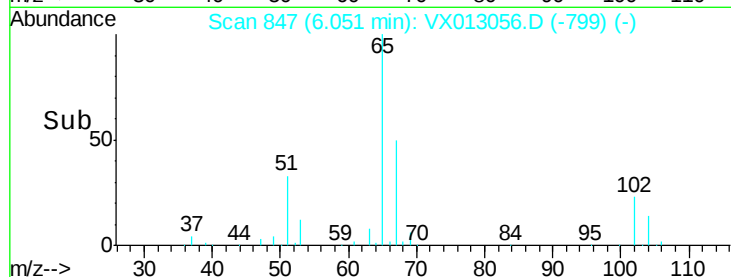
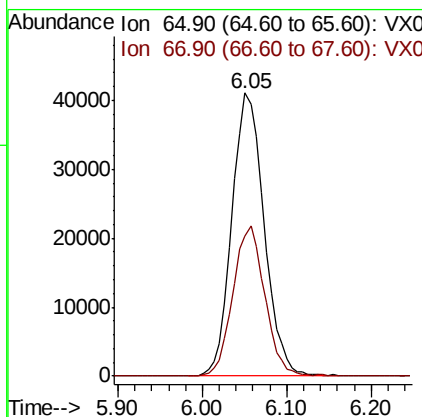
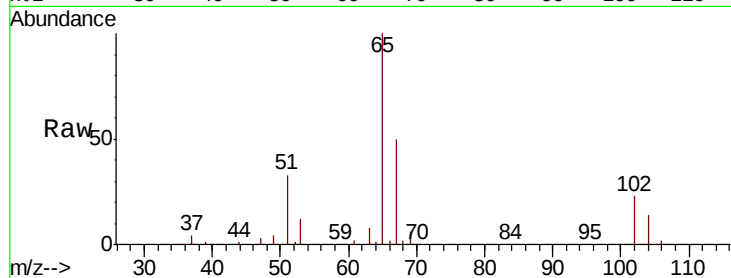




#33
 1,2-Dichloroethane-d4
 Concen: 49.393 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013056.D
 Acq: 14 Oct 2019 16:53

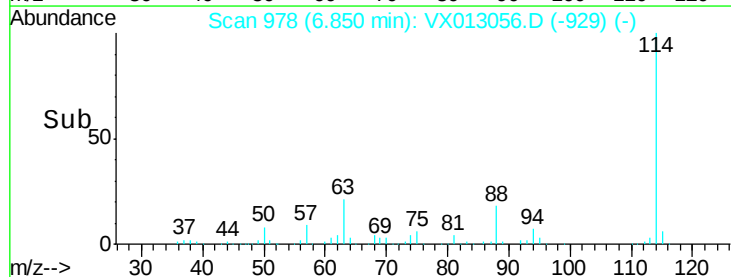
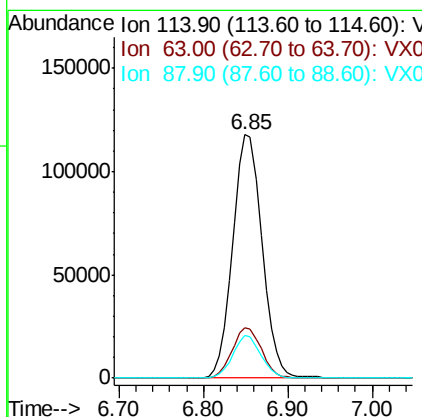
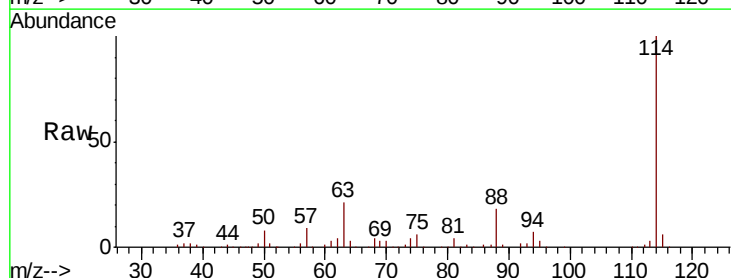
Instrument :
 MSVOA_X
 ClientSampleId :

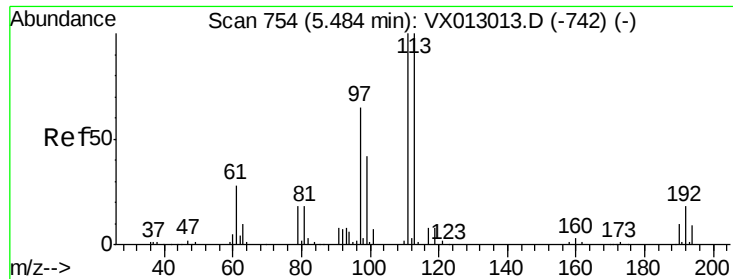
Tot Ion: 65 Resp: 106334
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013056.D
 Acq: 14 Oct 2019 16:53

Tgt Ion: 114 Resp: 278664
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 17.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 52.694 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

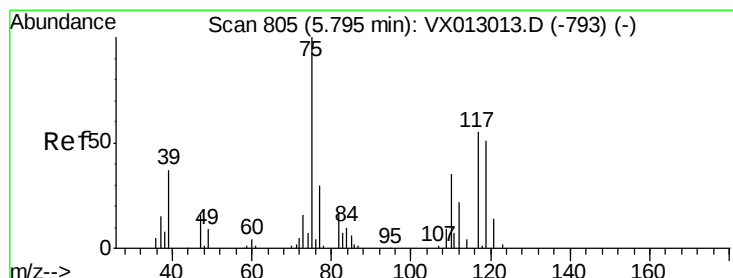
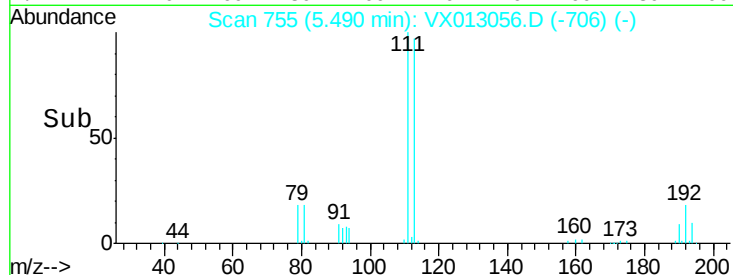
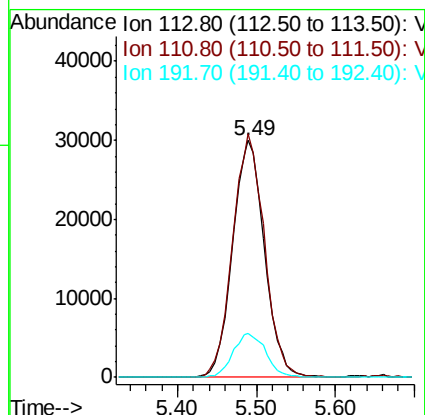
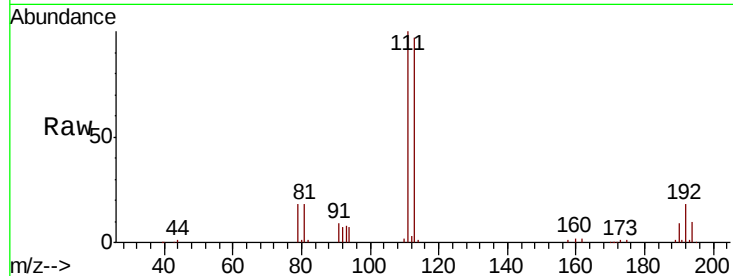
Tot Ion:113 Resp: 84278

Ion Ratio Lower Upper

113 100

111 102.7 83.2 124.8

192 19.1 15.4 23.2



#36

1,1-Dichloropropene

Concen: 5.406 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

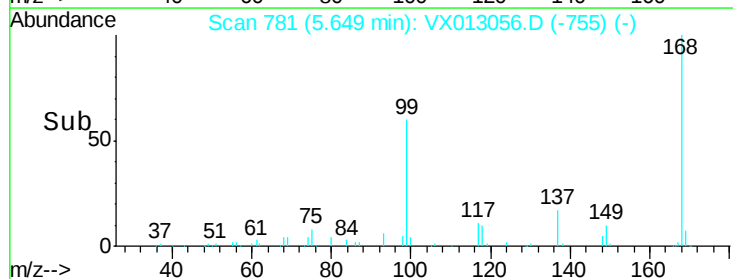
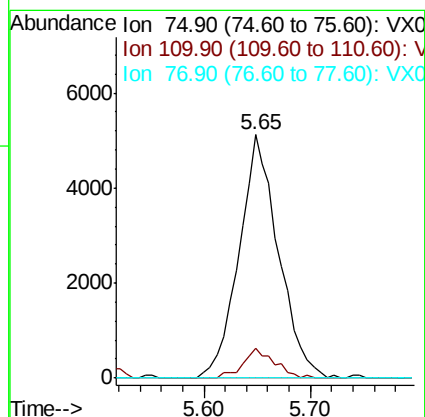
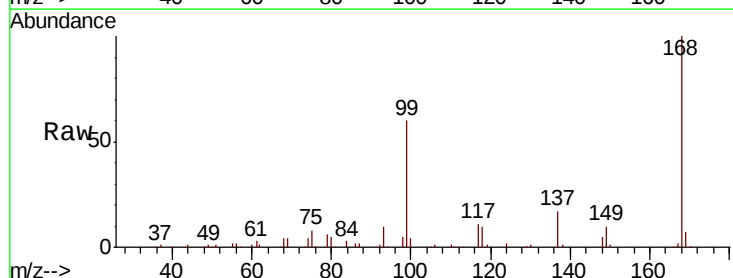
Tgt Ion: 75 Resp: 13244

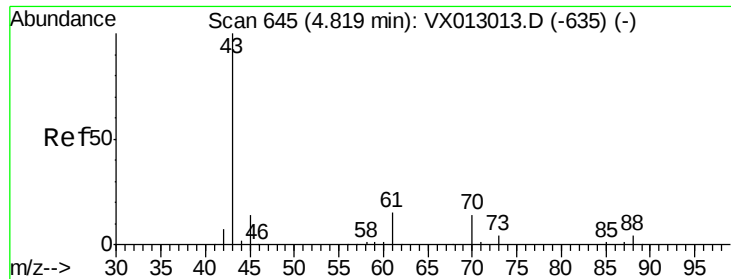
Ion Ratio Lower Upper

75 100

110 9.6 17.6 52.9#

77 0.0 24.4 36.6#

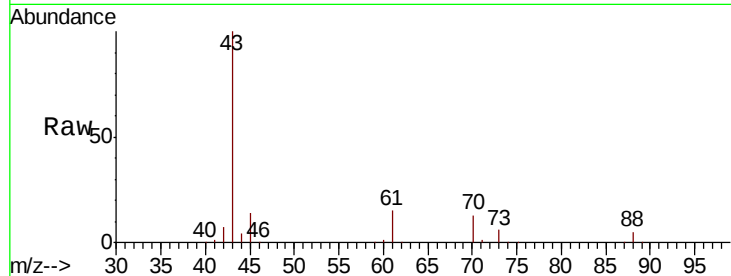




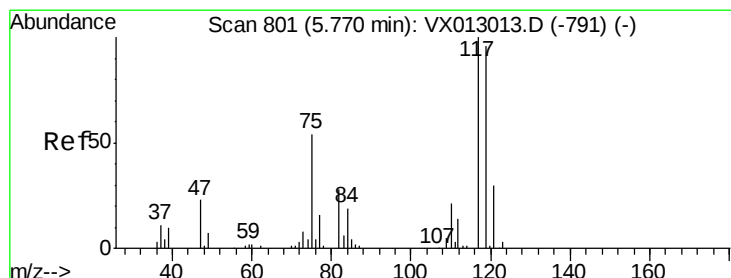
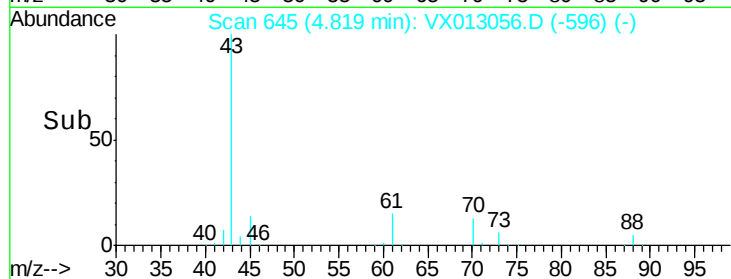
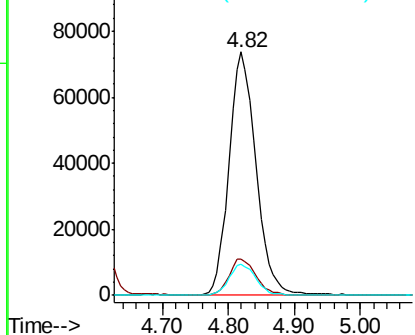
#37
Ethyl Acetate
Concen: 76.402 ug/l
RT: 4.82 min Scan# 645
Delta R.T. 0.00 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 209310
Ion Ratio Lower Upper
43 100
61 15.3 11.4 17.0
70 12.8 9.8 14.6

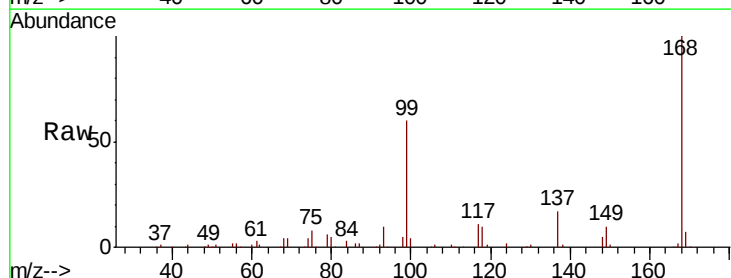


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

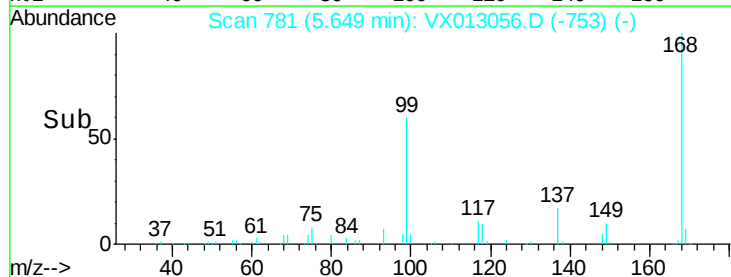
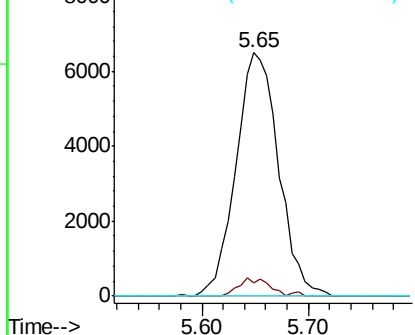


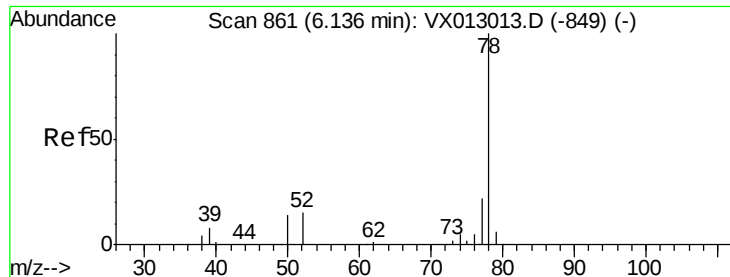
#38
Carbon Tetrachloride
Concen: 7.653 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

Tgt Ion: 117 Resp: 18251
Ion Ratio Lower Upper
117 100
119 5.5 74.5 111.7#
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





#40

Benzene

Concen: 0.263 ug/l

RT: 6.13 min Scan# 860

Delta R.T. -0.01 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

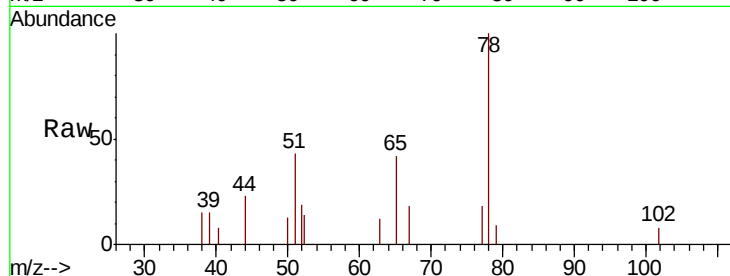
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 78 Resp: 1904

Ion Ratio Lower Upper

78 100

77 17.7 19.0 28.4#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.13

800

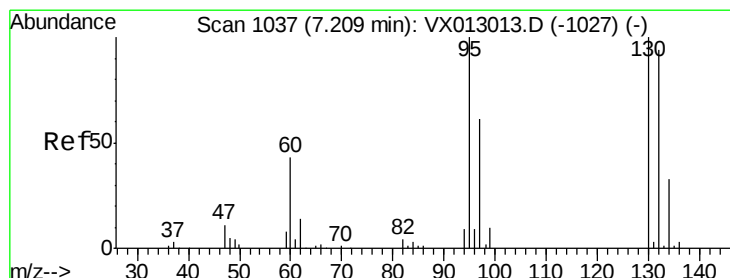
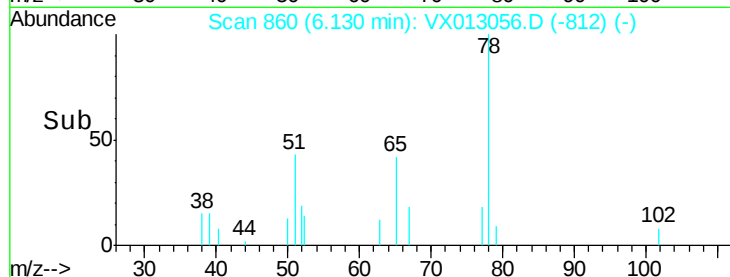
600

400

200

0

Time-->



#44

Trichloroethene

Concen: 40.899 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX013056.D

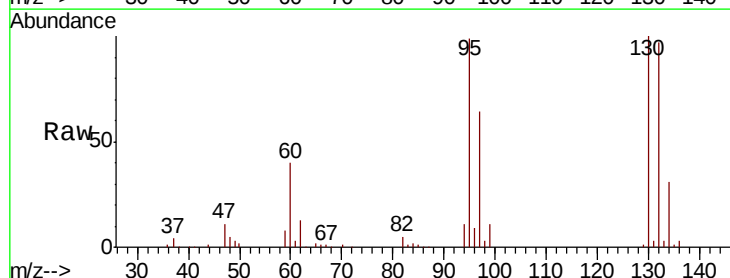
Acq: 14 Oct 2019 16:53

Tgt Ion:130 Resp: 82069

Ion Ratio Lower Upper

130 100

95 98.7 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

40000

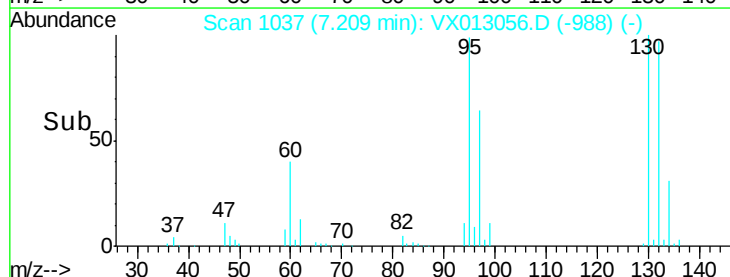
30000

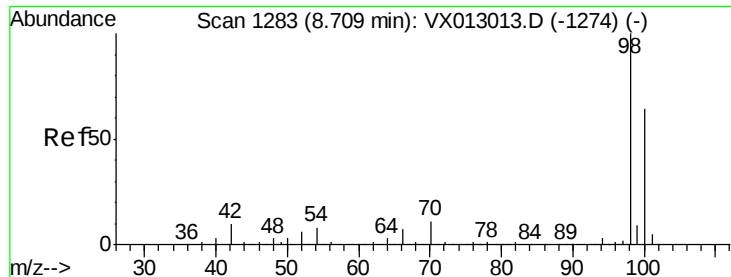
20000

10000

0

Time-->

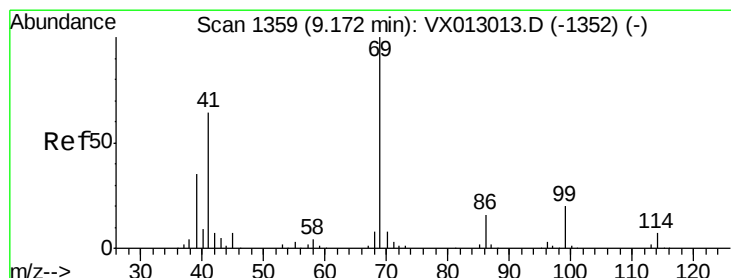
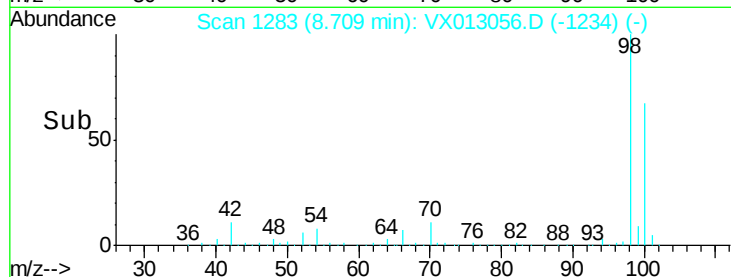
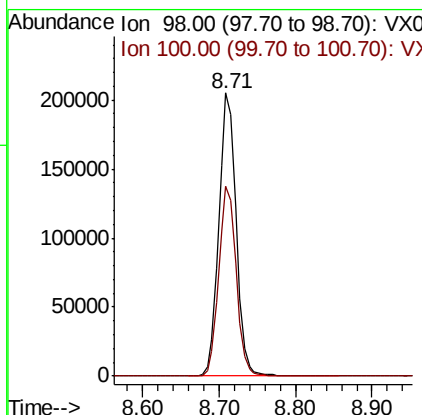
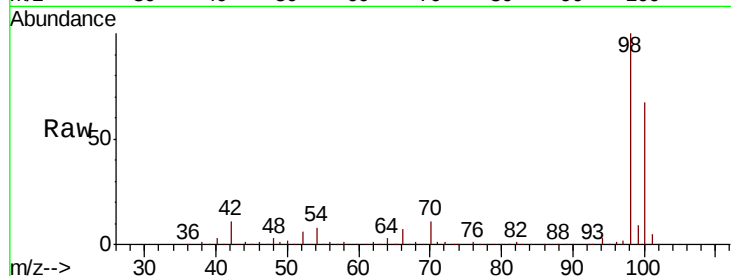




#50
Toluene-d8
Concen: 51.488 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

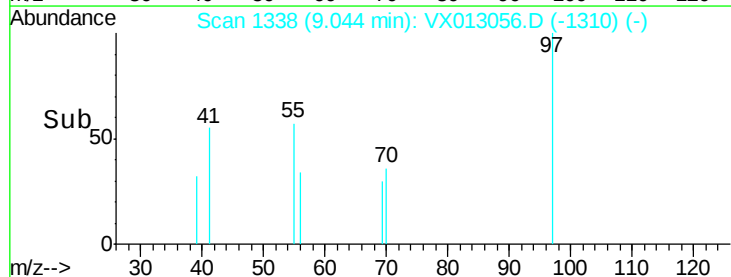
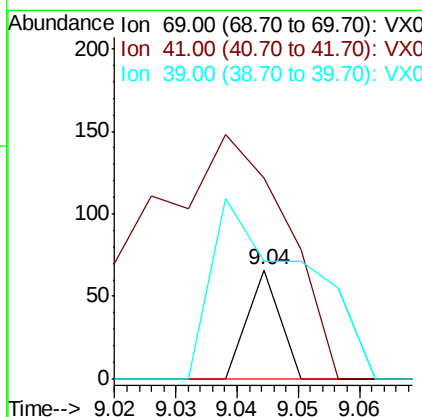
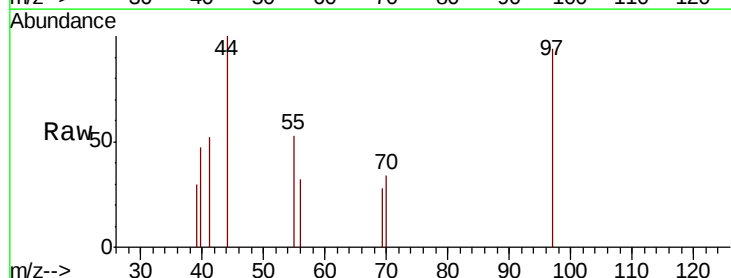
Instrument :
MSVOA_X
ClientSampled :

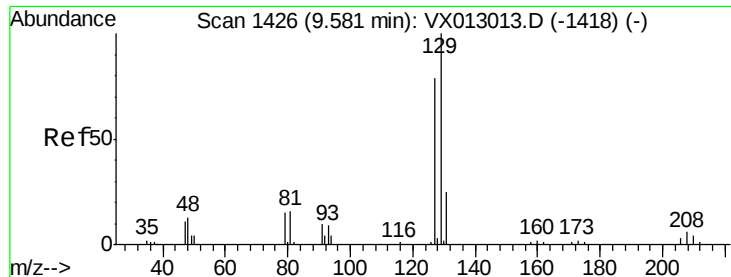
Tot Ion: 98 Resp: 321181
Ion Ratio Lower Upper
98 100
100 67.5 53.4 80.2



#56
Ethyl methacrylate
Concen: 1.838 ug/l
RT: 9.04 min Scan# 1338
Delta R.T. -0.13 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

Tgt Ion: 69 Resp: 24
Ion Ratio Lower Upper
69 100
41 962.5 52.1 78.1#
39 466.7 27.8 41.8#





#60

Dibromochloromethane

Concen: 2.071 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

Instrument :

MSVOA_X

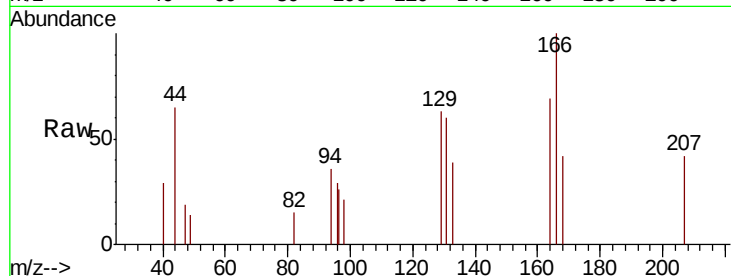
ClientSampled :

Tot Ion:129 Resp: 453

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

250

200

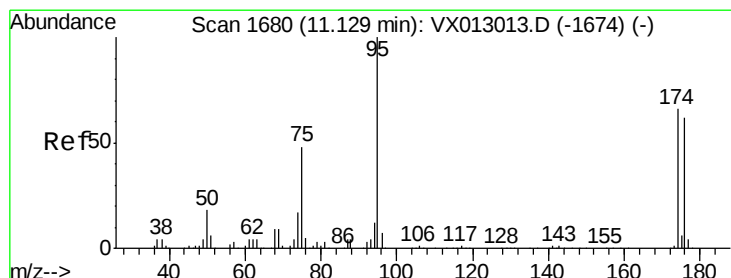
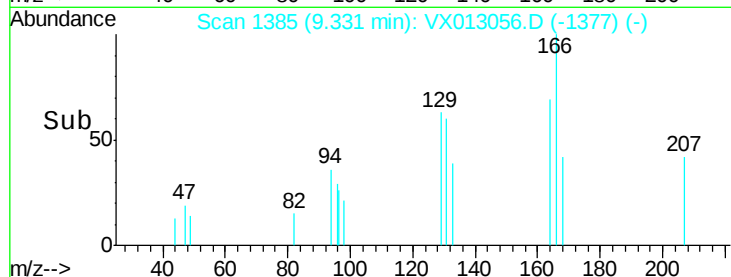
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 40.989 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

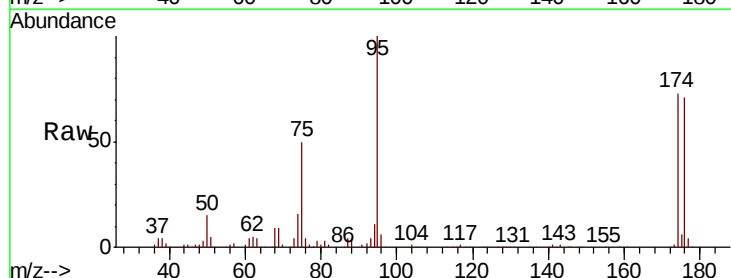
Tgt Ion: 95 Resp: 99351

Ion Ratio Lower Upper

95 100

174 73.4 0.0 143.4

176 71.6 0.0 136.0



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

100000

80000

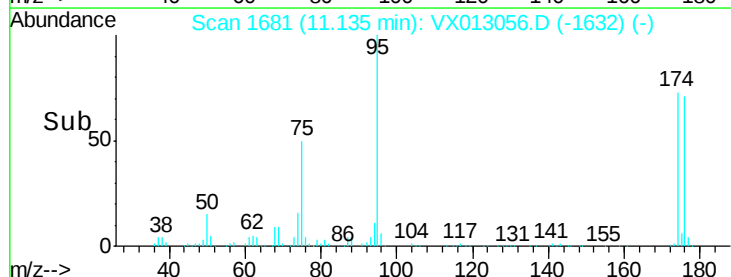
60000

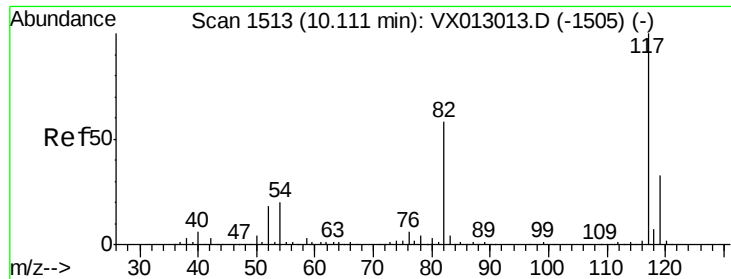
40000

20000

0

Time-->

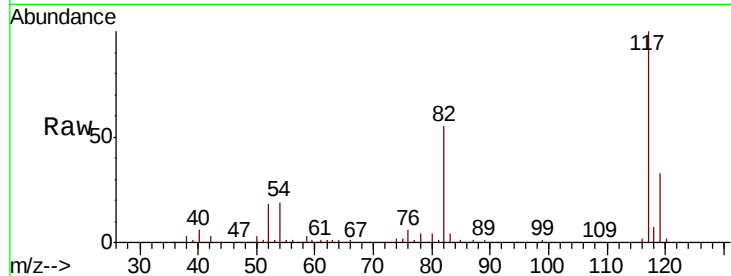




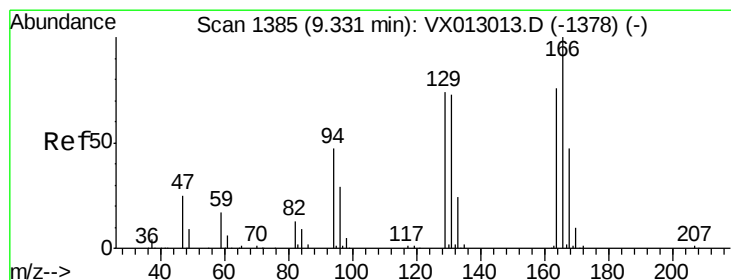
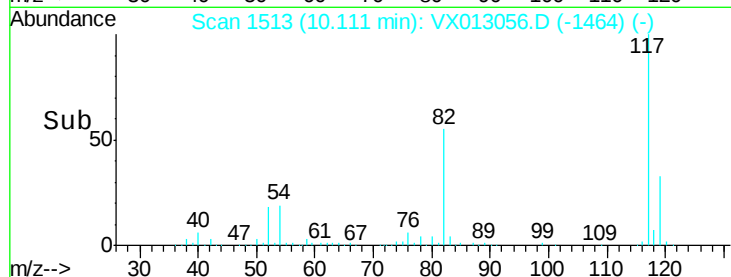
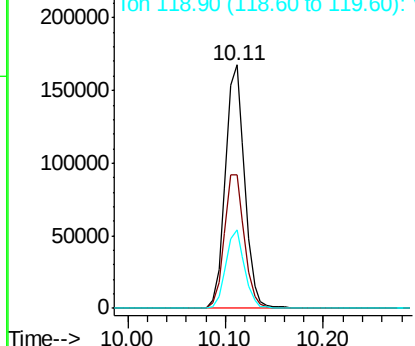
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 229334
Ion Ratio Lower Upper
117 100
82 55.0 44.1 66.1
119 32.5 25.8 38.8

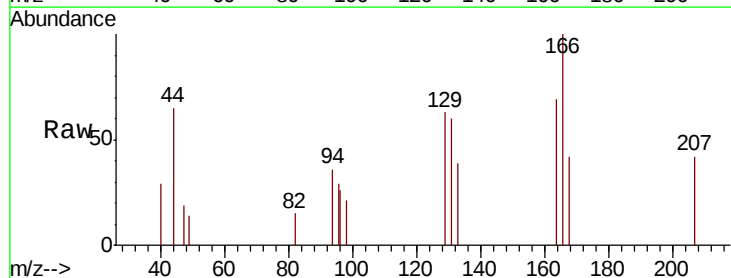


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

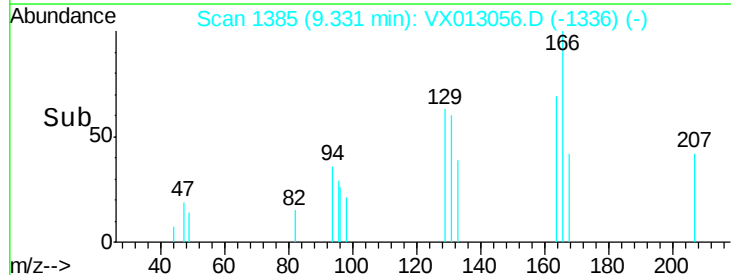
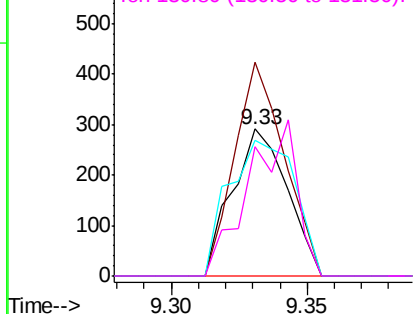


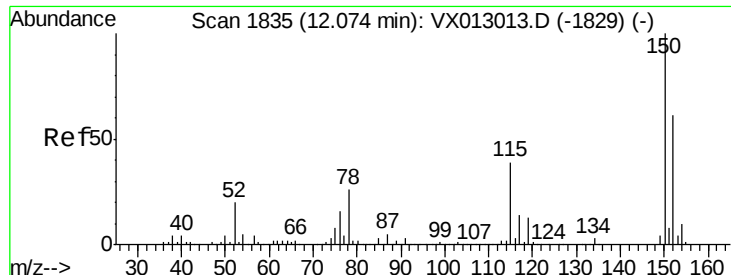
#64
Tetrachloroethene
Concen: 0.256 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013056.D
Acq: 14 Oct 2019 16:53

Tgt Ion:164 Resp: 407
Ion Ratio Lower Upper
164 100
166 145.7 96.9 145.3#
129 92.4 77.9 116.9
131 88.0 72.7 109.1



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: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampled :

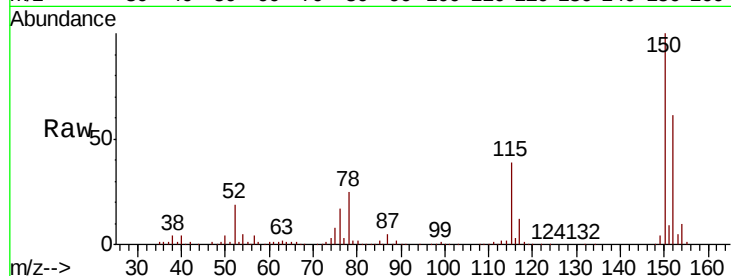
Tot Ion:152 Resp: 80433

Ion Ratio Lower Upper

152 100

115 62.0 44.5 133.5

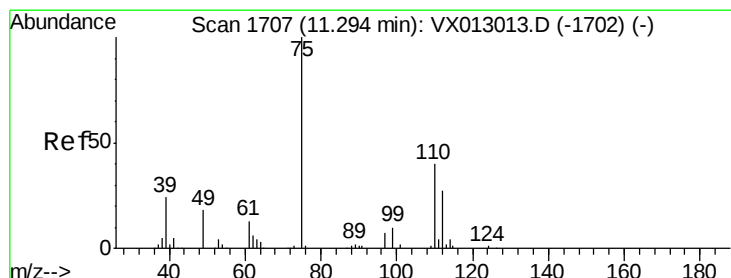
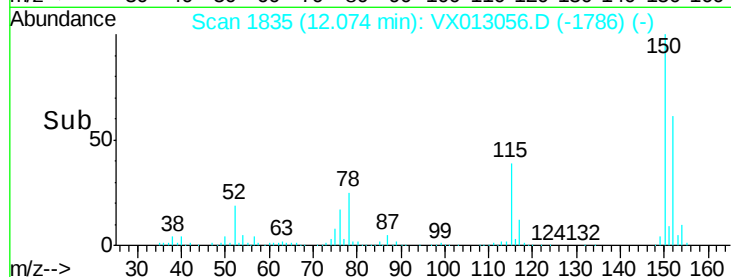
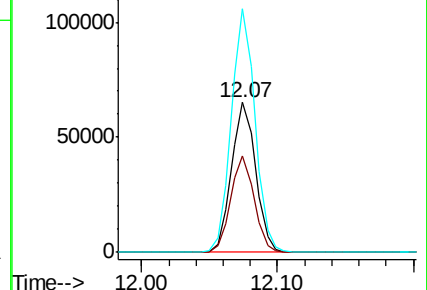
150 159.1 0.0 353.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 27.767 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013056.D

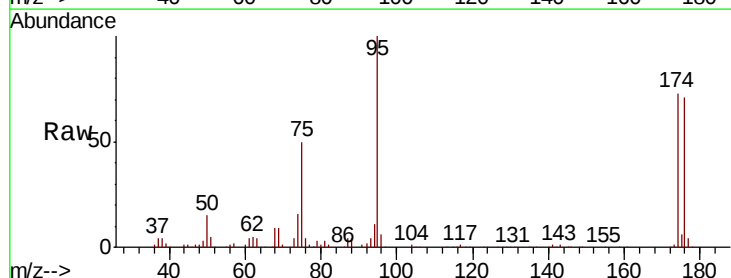
Acq: 14 Oct 2019 16:53

Tgt Ion: 75 Resp: 49537

Ion Ratio Lower Upper

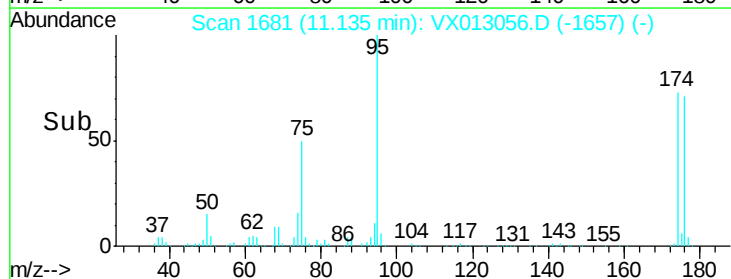
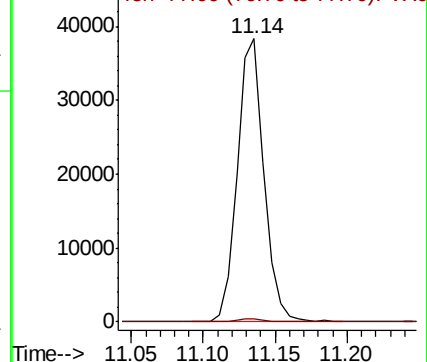
75 100

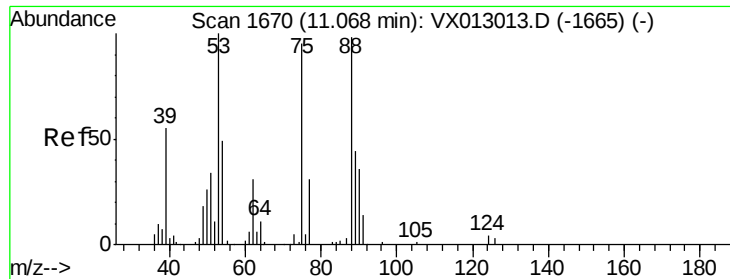
77 1.2 22.9 68.8#



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: 69.655 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013056.D

Acq: 14 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

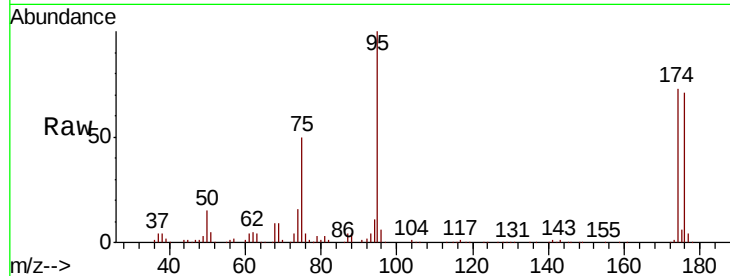
Tot Ion: 75 Resp: 49537

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

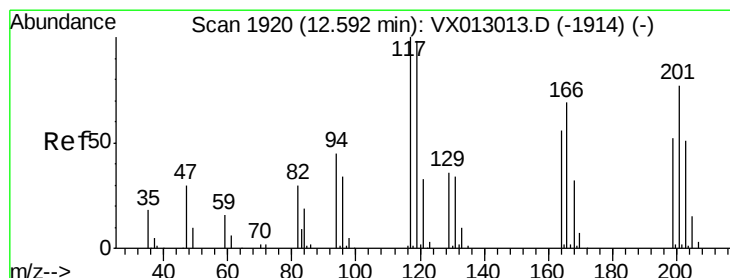
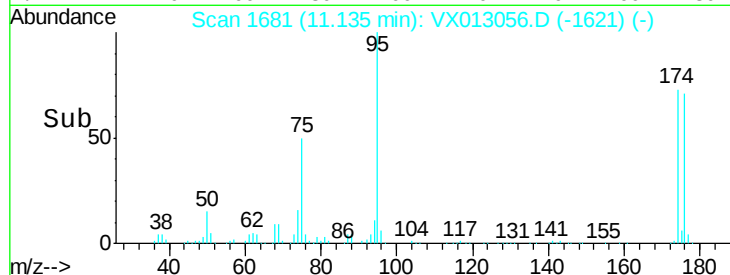
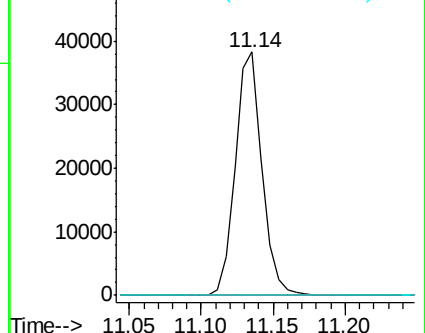
89 0.0 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.357 ug/l

RT: 12.69 min Scan# 1936

Delta R.T. 0.10 min

Lab File: VX013056.D

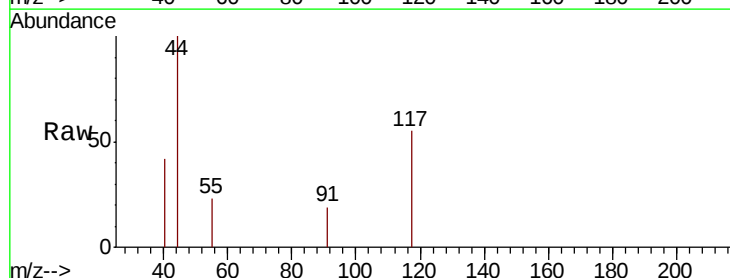
Acq: 14 Oct 2019 16:53

Tgt Ion: 117 Resp: 239

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

