

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062819\
 Data File : VX010557.D
 Acq On : 29 Jun 2019 00:44
 Operator : JC/SP
 Sample : K3570-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ERM-16R

Quant Time: Jun 29 04:44:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	251851	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	385320	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	346081	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167102	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	120494	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
35) Dibromofluoromethane	5.50	113	116366	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
50) Toluene-d8	8.71	98	452840	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
62) 4-Bromofluorobenzene	11.13	95	152983	46.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.96%	

Target Compounds

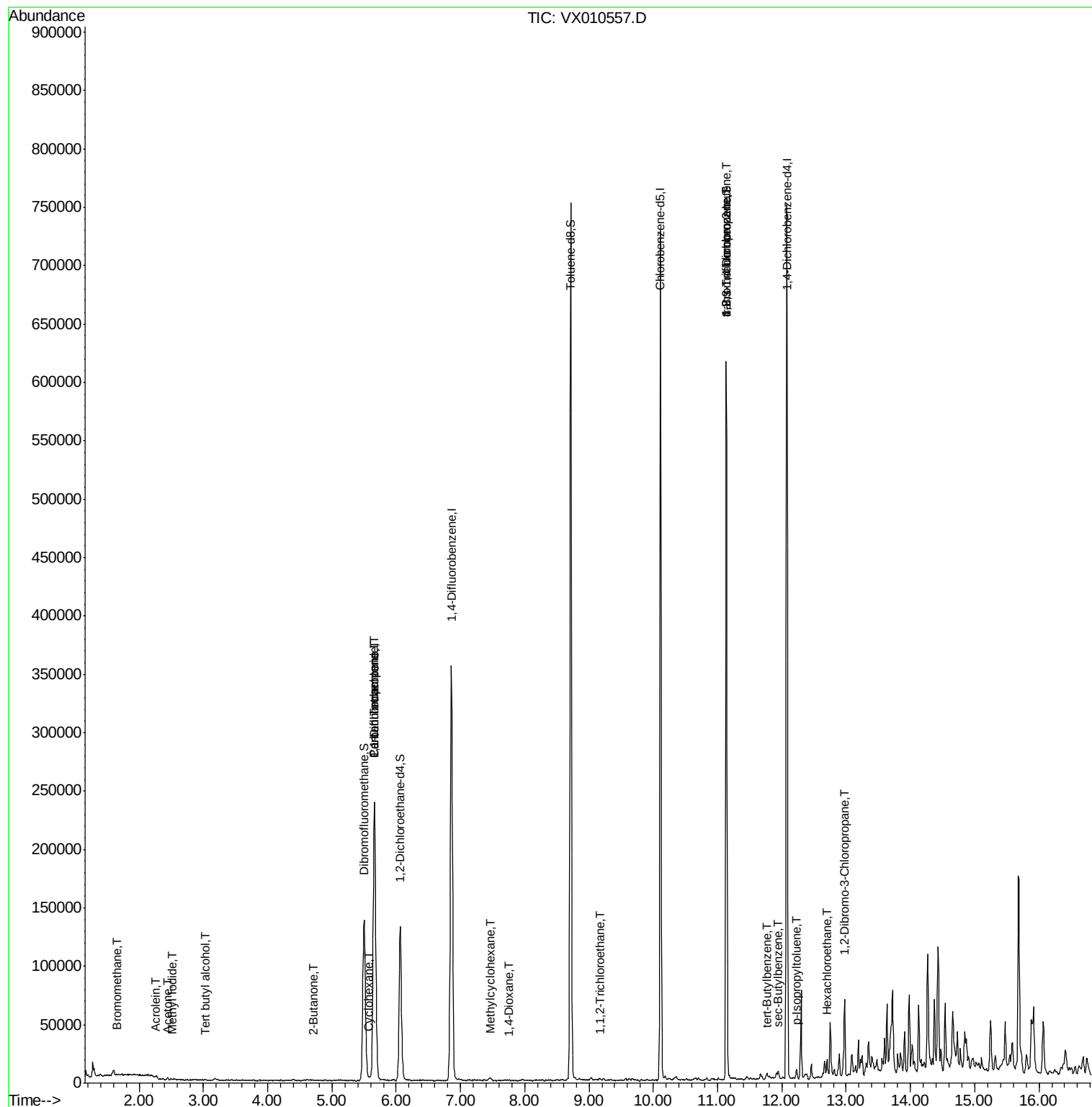
						Qvalue
5) Bromomethane	1.66	94	586	0.539	ug/l #	71
10) Methyl Iodide	2.52	142	840	0.274	ug/l #	95
11) Tert butyl alcohol	3.04	59	649	1.050	ug/l #	89
13) Acrolein	2.26	56	191	0.466	ug/l	90
16) Acetone	2.44	43	1881	1.589	ug/l #	81
25) 2-Butanone	4.70	43	482	0.278	ug/l #	46
31) Cyclohexane	5.57	56	1409	0.413	ug/l #	57
36) 1,1-Dichloropropene	5.67	75	15264	4.985	ug/l #	38
38) Carbon Tetrachloride	5.66	117	22056	6.652	ug/l #	14
39) Methylcyclohexane	7.46	83	1207	0.300	ug/l #	73
49) 1,4-Dioxane	7.75	88	141	2.021	ug/l #	7
55) 1,1,2-Trichloroethane	9.16	97	589	0.227	ug/l #	15
76) 1,2,3-Trichloropropane	11.13	75	73748	24.219	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	73748	56.501	ug/l #	16
83) tert-Butylbenzene	11.77	119	1968	0.210	ug/l	77
85) sec-Butylbenzene	11.94	105	2491	0.226	ug/l #	37
86) p-Isopropyltoluene	12.23	119	3396	0.334	ug/l	90
90) Hexachloroethane	12.70	117	3682	2.092	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	12.98	75	284	0.351	ug/l #	1

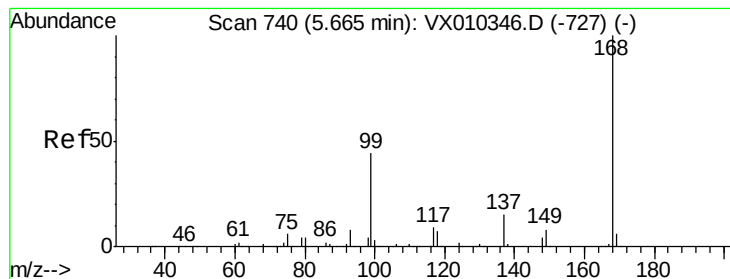
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
ERM-16R

Quant Time: Jun 29 04:44:44 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

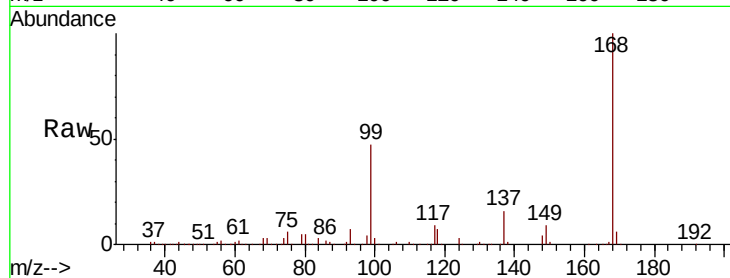
ERM-16R

Tot Ion:168 Resp: 251851

Ion Ratio Lower Upper

168 100

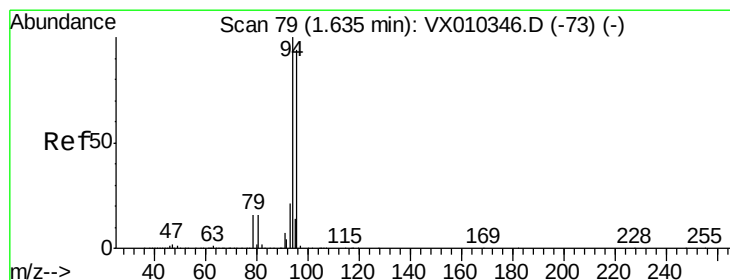
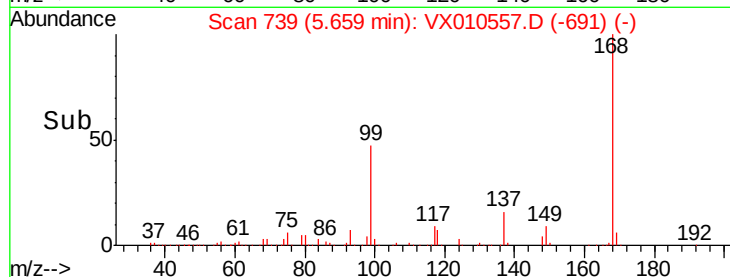
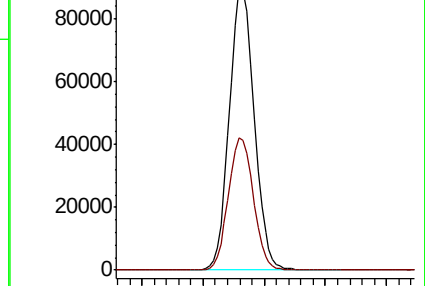
99 46.7 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): VX010346.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX010346.D (-727) (-)

5.66



#5

Bromomethane

Concen: 0.539 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010557.D

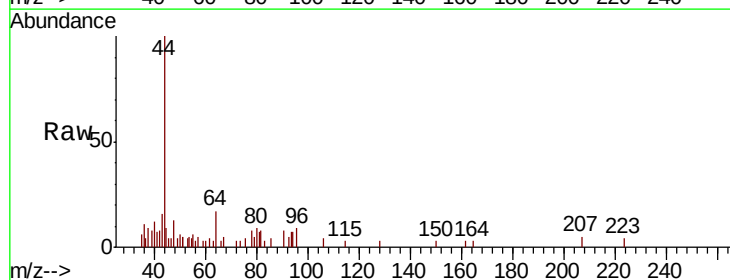
Acq: 29 Jun 2019 00:44

Tgt Ion: 94 Resp: 586

Ion Ratio Lower Upper

94 100

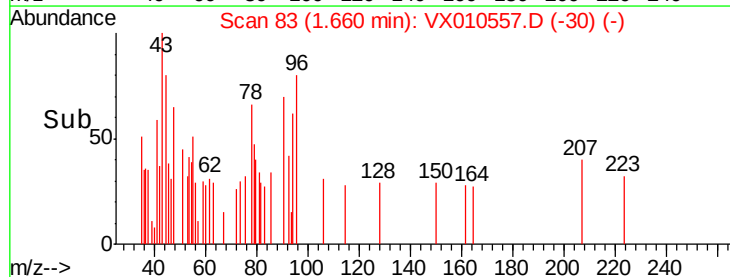
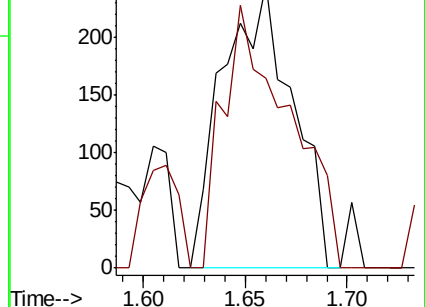
96 66.8 75.5 113.3#

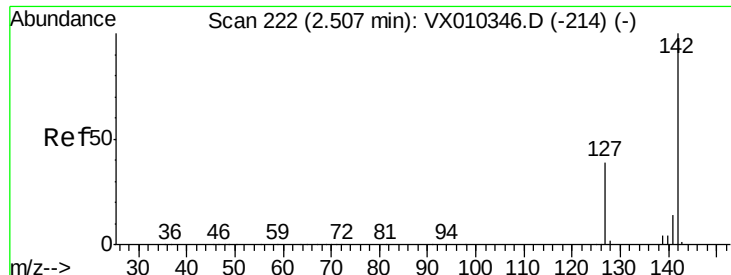


Abundance Ion 93.90 (93.60 to 94.60): VX010346.D (-73) (-)

Ion 95.90 (95.60 to 96.60): VX010346.D (-73) (-)

1.66

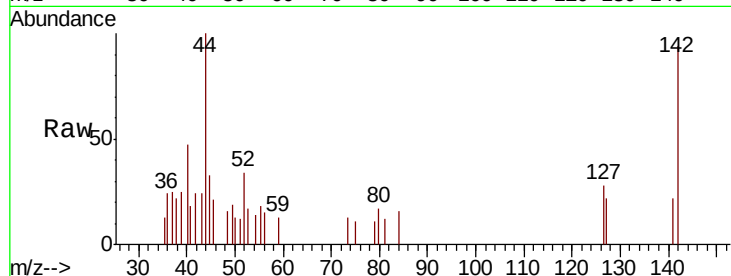




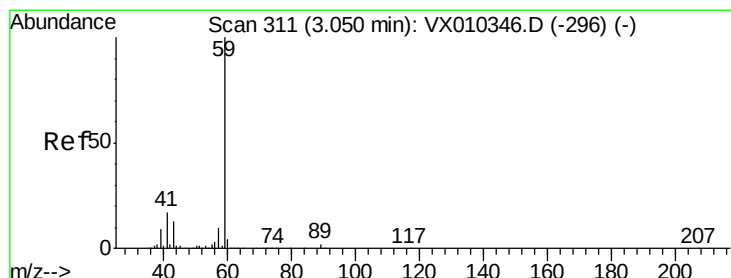
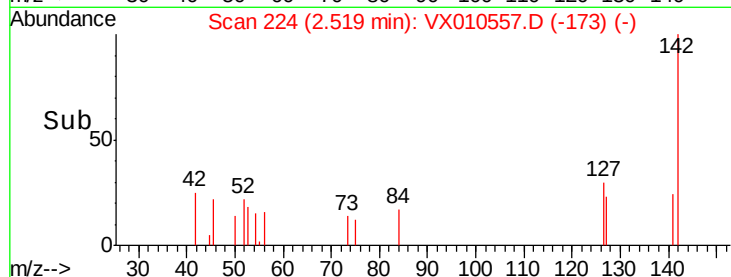
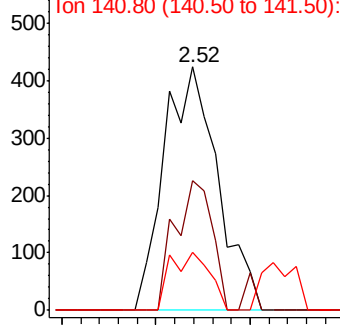
#10
Methvl Iodide
Concen: 0.274 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010557.D
Acq: 29 Jun 2019 00:44

Instrument :
MSVOA_X
ClientSampled :
ERM-16R

Tot Ion:142 Resp: 840
Ion Ratio Lower Upper
142 100
127 36.7 31.1 46.7
141 17.1 11.2 16.8#

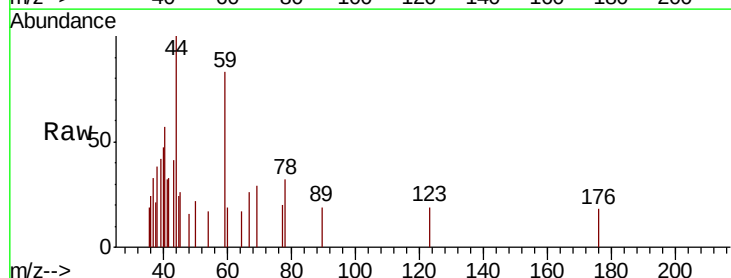


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

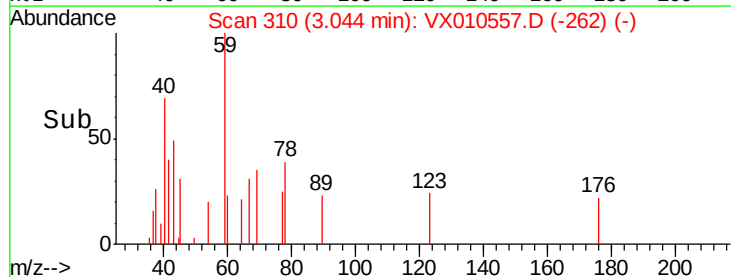
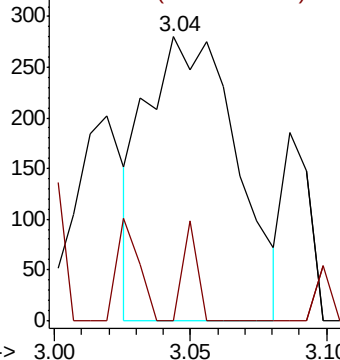


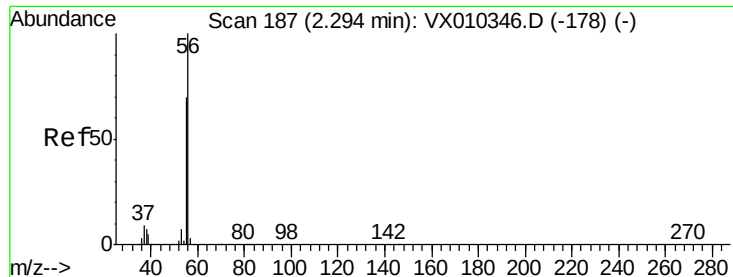
#11
Tert butyl alcohol
Concen: 1.050 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX010557.D
Acq: 29 Jun 2019 00:44

Tgt Ion: 59 Resp: 649
Ion Ratio Lower Upper
59 100
57 5.5 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.466 ug/l

RT: 2.26 min Scan# 182

Delta R.T. -0.03 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

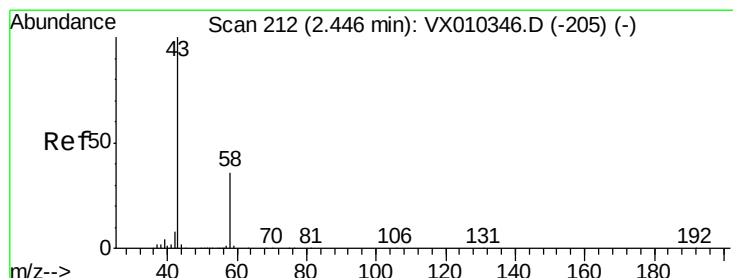
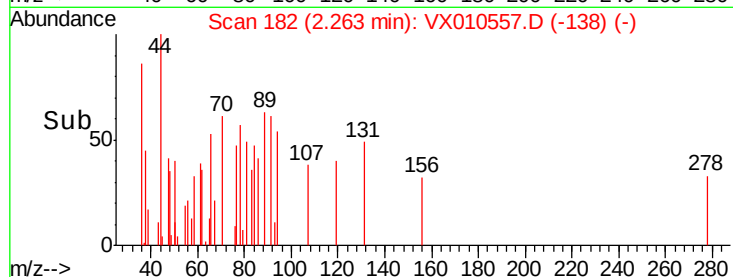
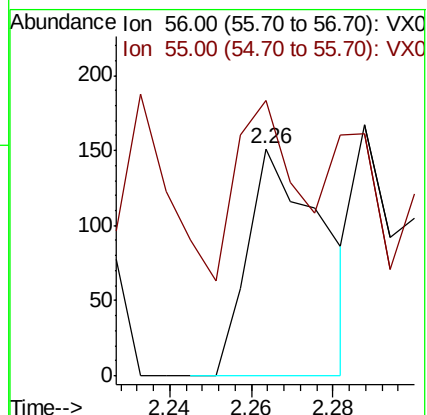
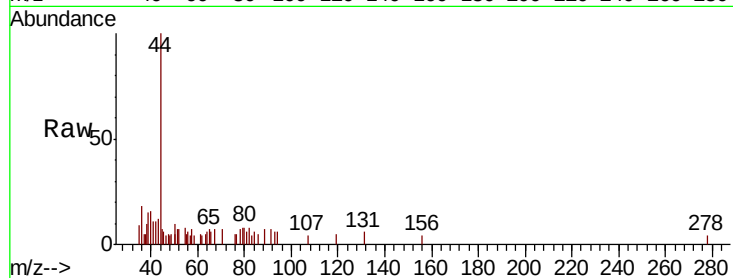
ERM-16R

Tot Ion: 56 Resp: 191

Ion Ratio Lower Upper

56 100

55 62.8 56.9 85.3



#16

Acetone

Concen: 1.589 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010557.D

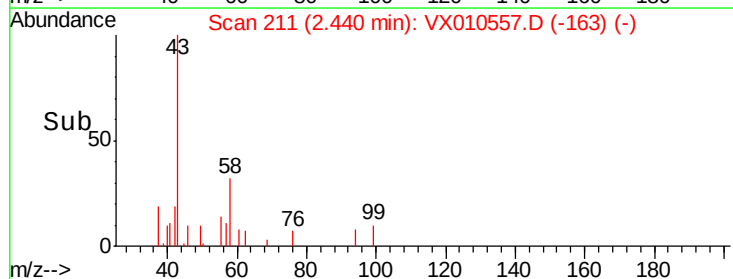
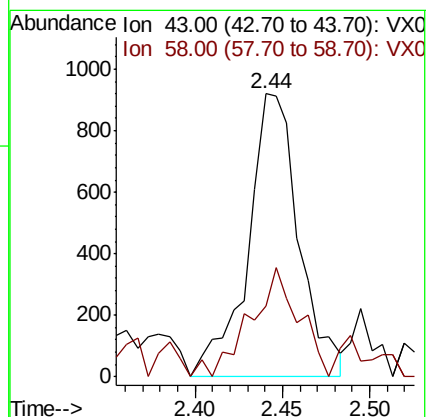
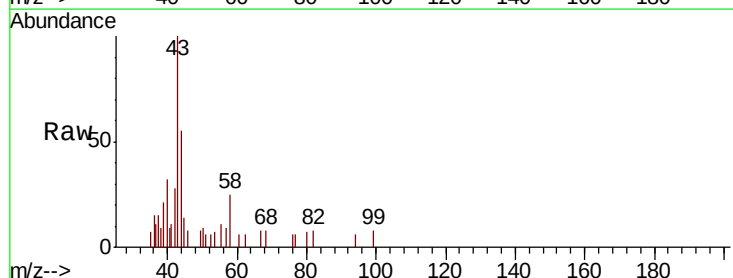
Acq: 29 Jun 2019 00:44

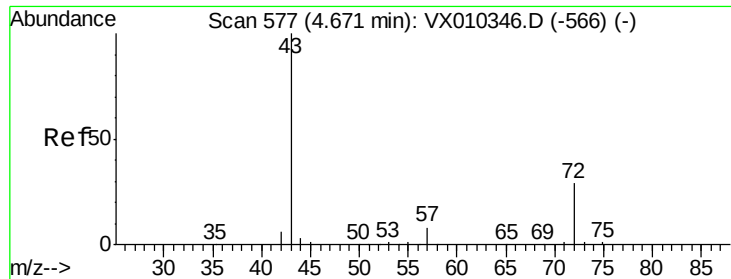
Tgt Ion: 43 Resp: 1881

Ion Ratio Lower Upper

43 100

58 24.9 28.9 43.3#





#25

2-Butanone

Concen: 0.278 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

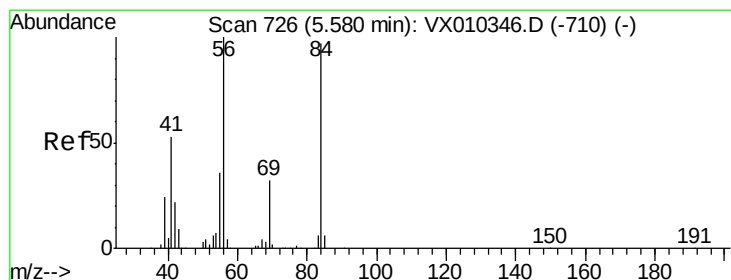
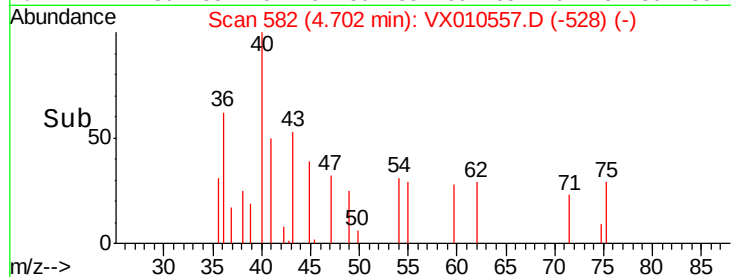
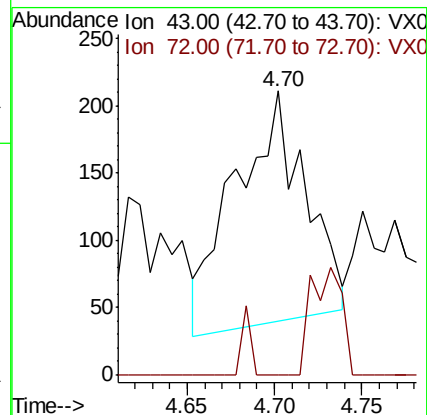
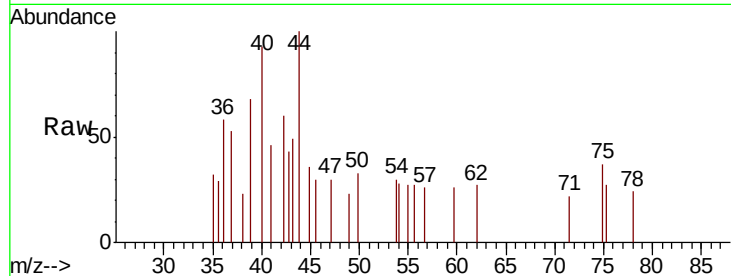
ERM-16R

Tot Ion: 43 Resp: 482

Ion Ratio Lower Upper

43 100

72 0.0 23.3 34.9#



#31

Cyclohexane

Concen: 0.413 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

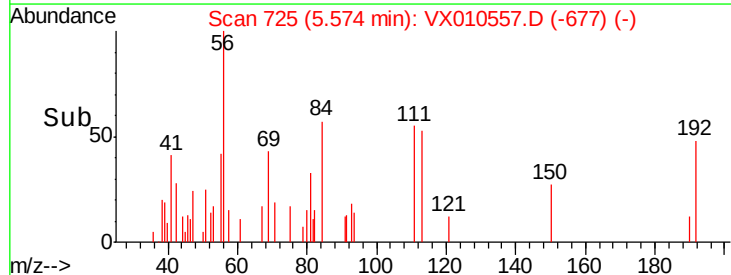
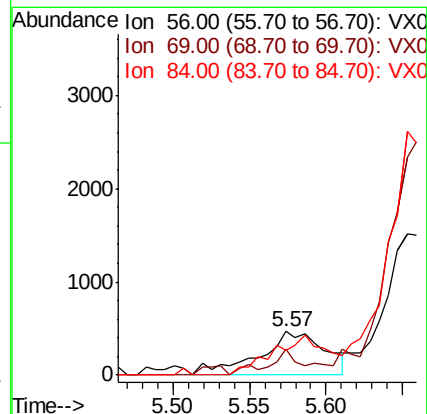
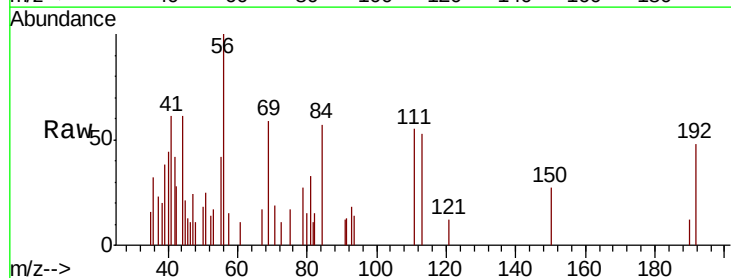
Tgt Ion: 56 Resp: 1409

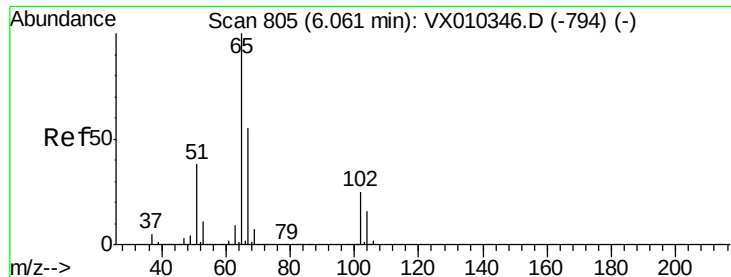
Ion Ratio Lower Upper

56 100

69 59.0 25.9 38.9#

84 56.9 78.0 117.0#

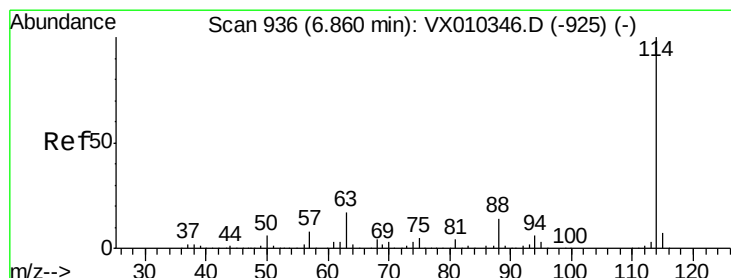
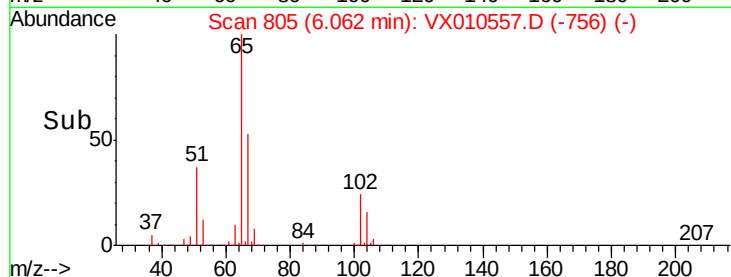
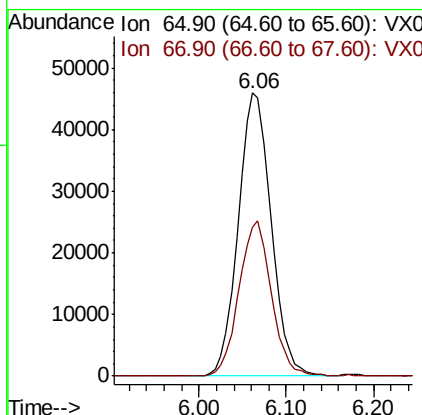
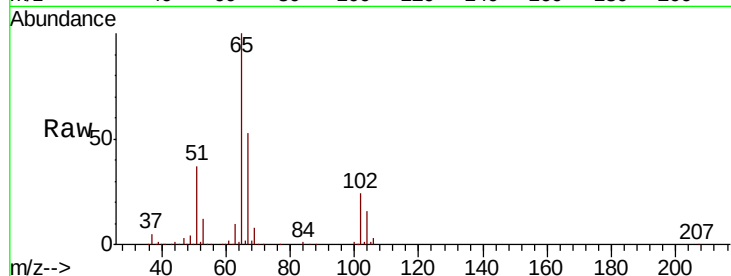




#33
 1,2-Dichloroethane-d4
 Concen: 51.028 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010557.D
 Acq: 29 Jun 2019 00:44

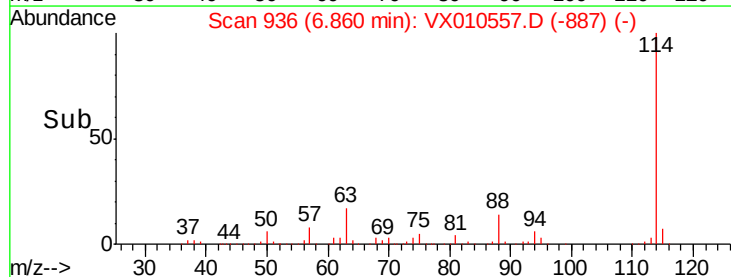
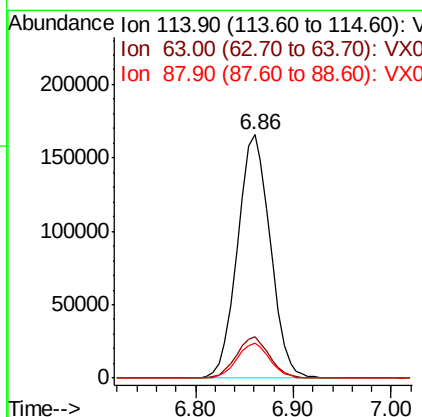
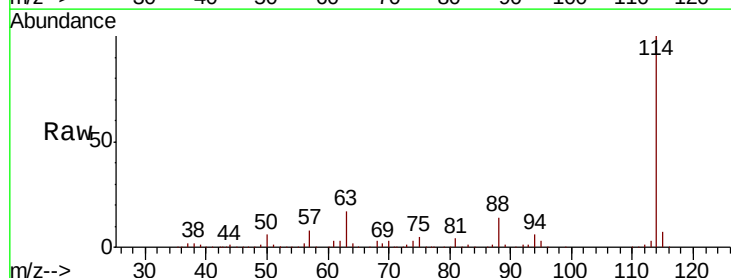
Instrument :
 MSVOA_X
 ClientSampled :
 ERM-16R

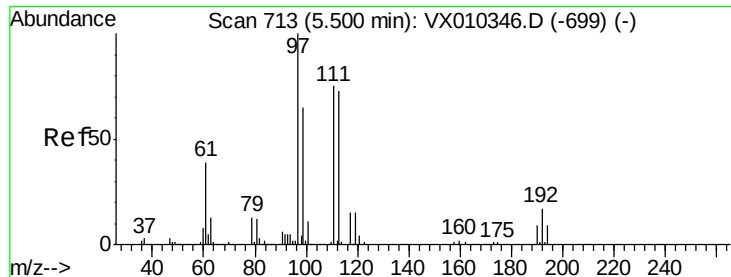
Tot Ion: 65 Resp: 120494
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010557.D
 Acq: 29 Jun 2019 00:44

Tgt Ion: 114 Resp: 385320
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 33.8
 88 14.3 0.0 27.6





#35

Dibromofluoromethane

Concen: 49.359 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

ERM-16R

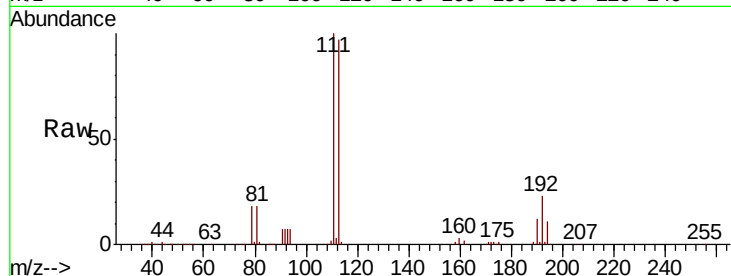
Tot Ion:113 Resp: 116366

Ion Ratio Lower Upper

113 100

111 101.7 81.2 121.8

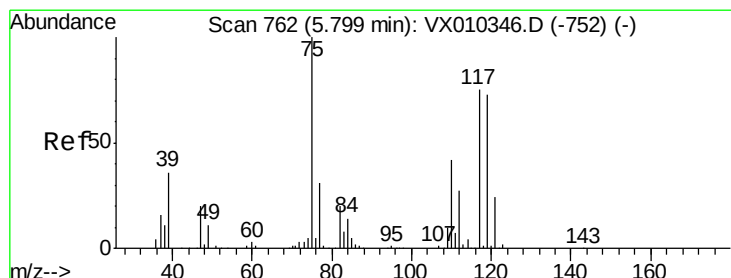
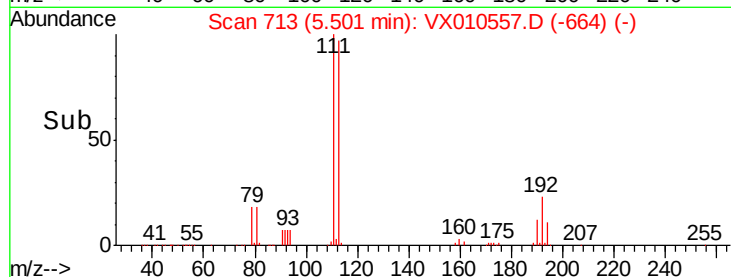
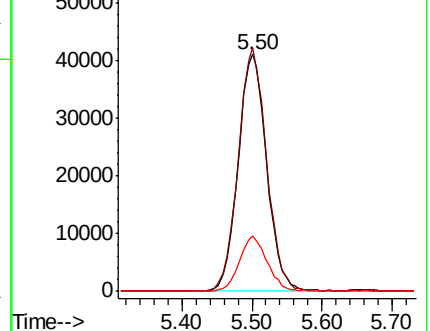
192 22.6 18.6 27.8



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: 4.985 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

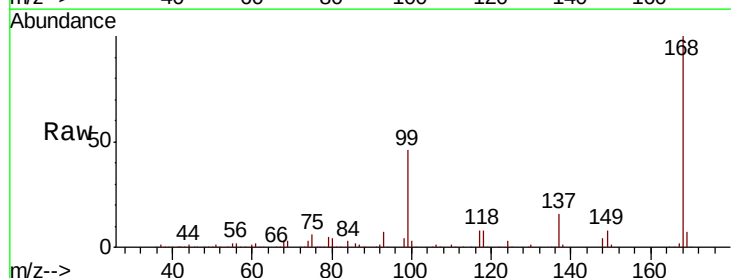
Tgt Ion: 75 Resp: 15264

Ion Ratio Lower Upper

75 100

110 0.0 20.8 62.2#

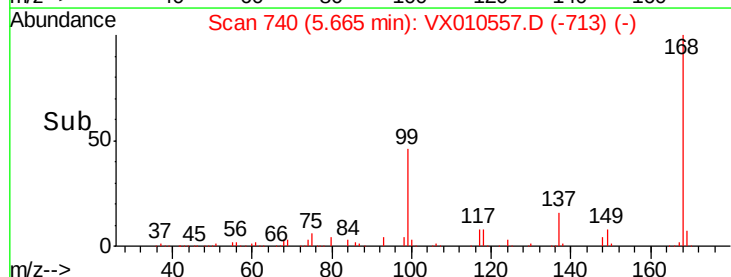
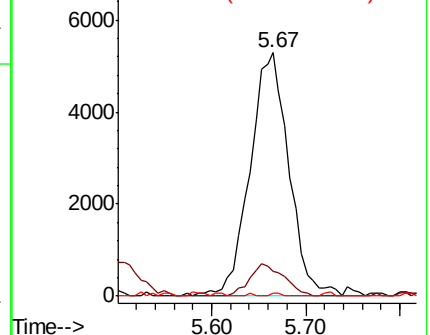
77 0.3 25.4 38.0#

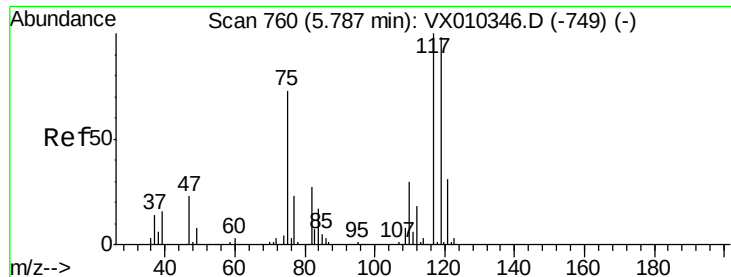


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.652 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

ERM-16R

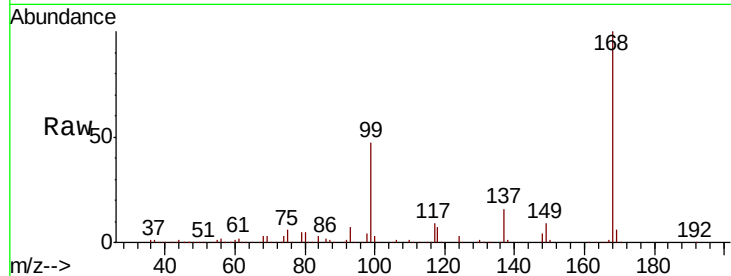
Tot Ion:117 Resp: 22056

Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.4#

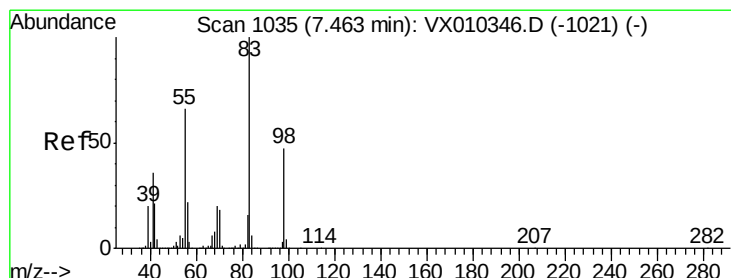
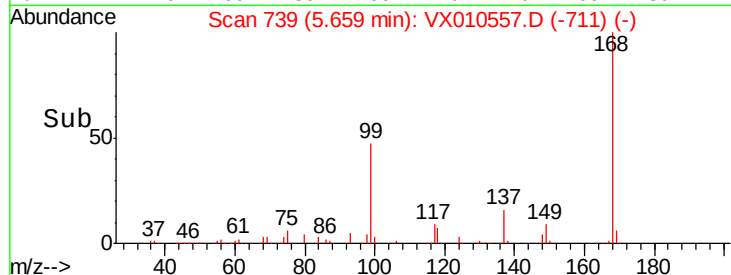
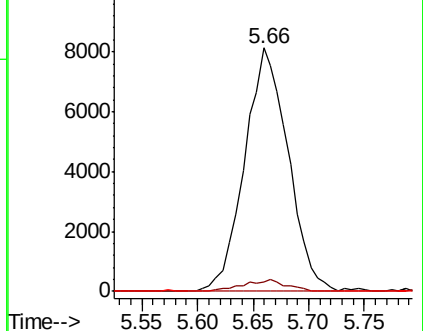
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.300 ug/l

RT: 7.46 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

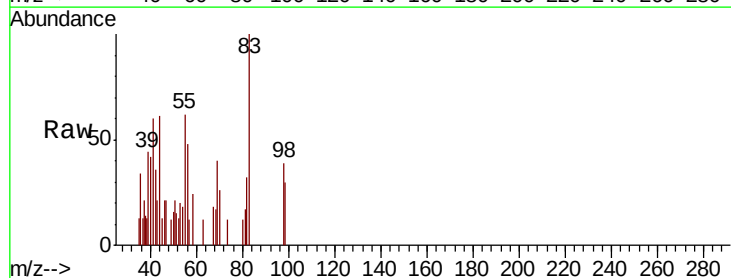
Tgt Ion: 83 Resp: 1207

Ion Ratio Lower Upper

83 100

55 48.1 53.0 79.6#

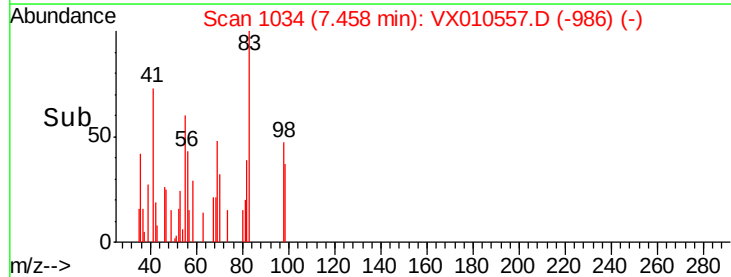
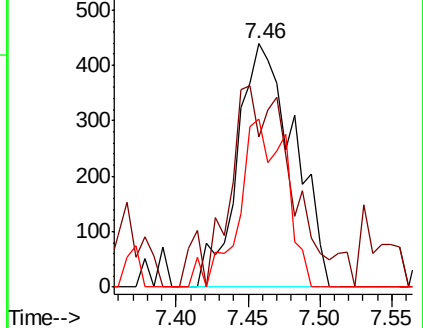
98 69.0 37.8 56.8#

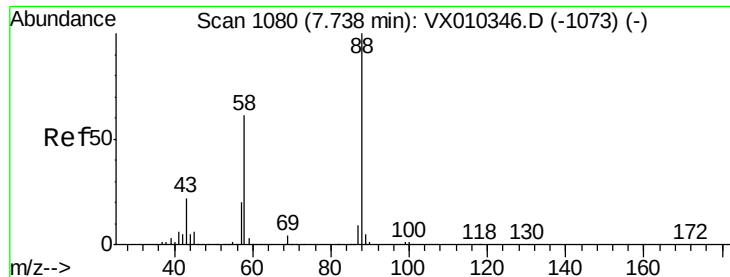


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#49

1,4-Dioxane

Concen: 2.021 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

ERM-16R

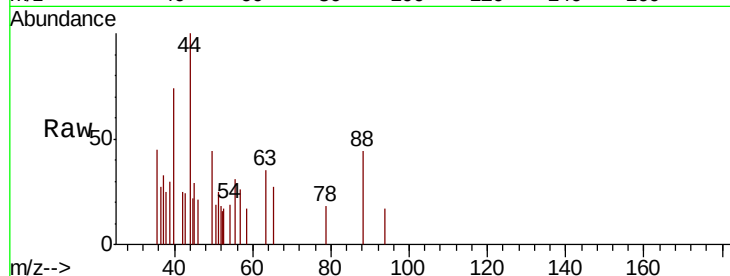
Tot Ion: 88 Resp: 141

Ion Ratio Lower Upper

88 100

43 87.9 20.2 30.2#

58 0.0 49.5 74.3#



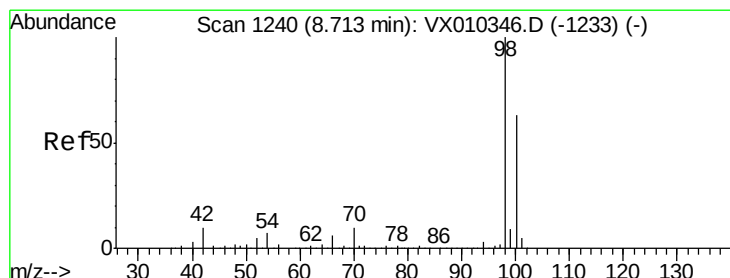
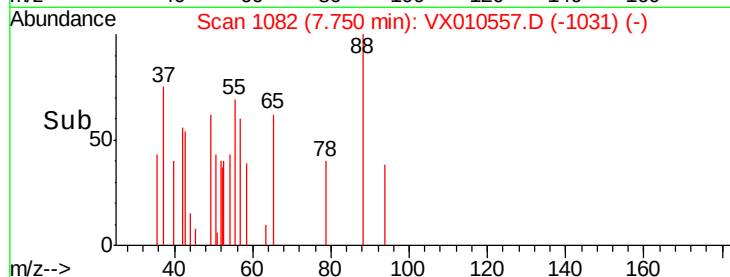
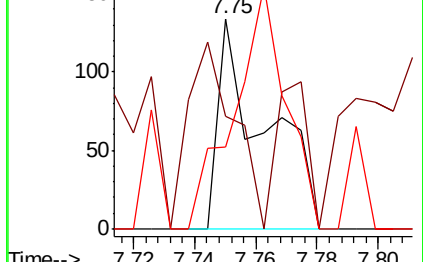
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.75

7.72 7.74 7.76 7.78 7.80



#50

Toluene-d8

Concen: 50.207 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010557.D

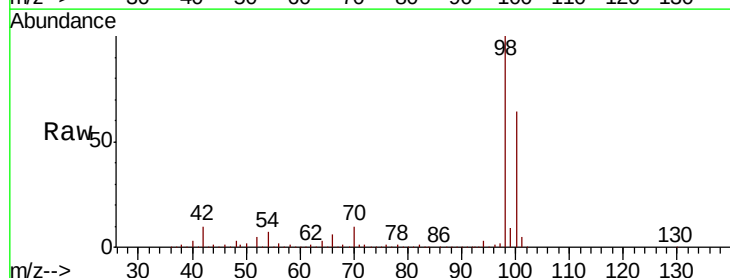
Acq: 29 Jun 2019 00:44

Tgt Ion: 98 Resp: 452840

Ion Ratio Lower Upper

98 100

100 65.0 51.6 77.4

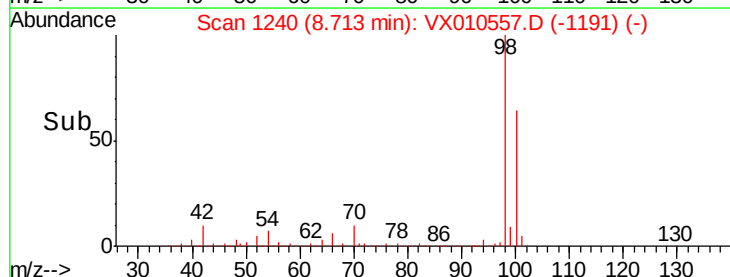
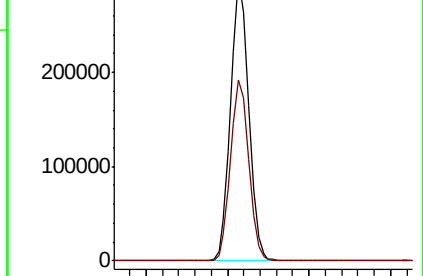


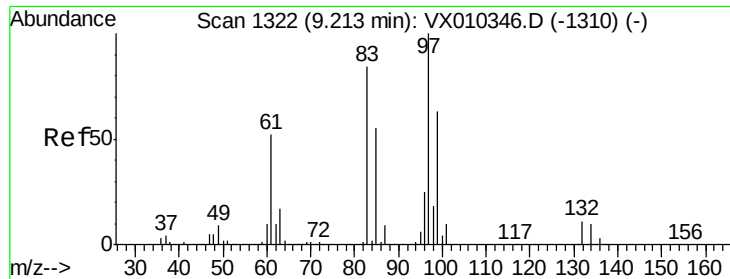
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

8.60 8.70 8.80 8.90

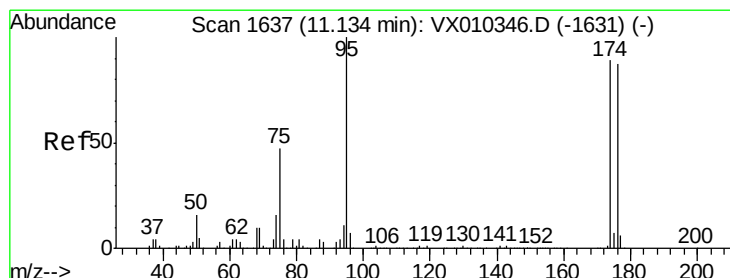
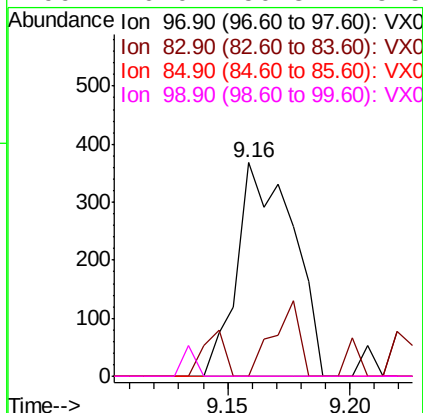
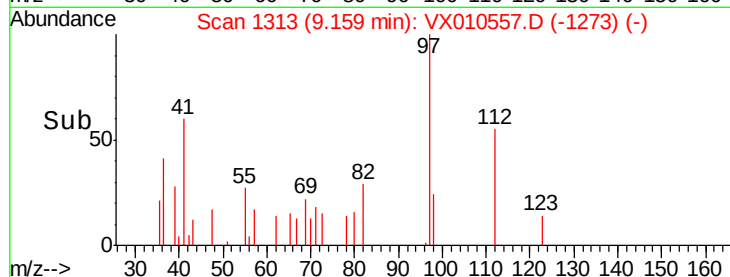
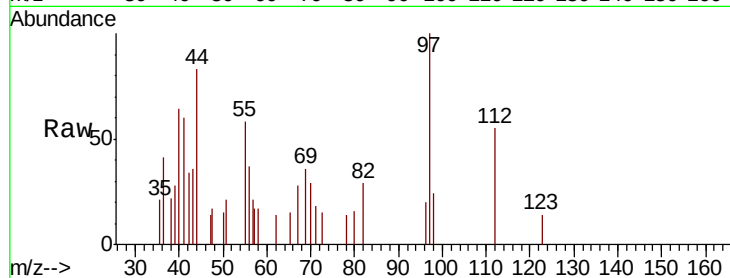




#55
 1,1,2-Trichloroethane
 Concen: 0.227 ug/l
 RT: 9.16 min Scan# 1313
 Delta R.T. -0.05 min
 Lab File: VX010557.D
 Acq: 29 Jun 2019 00:44

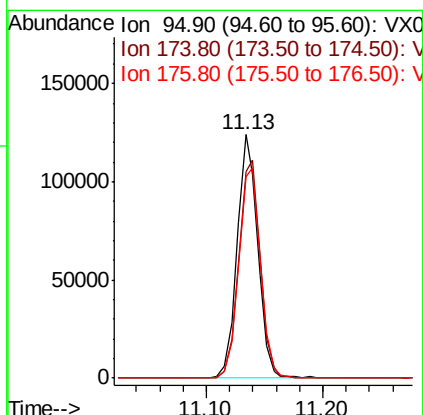
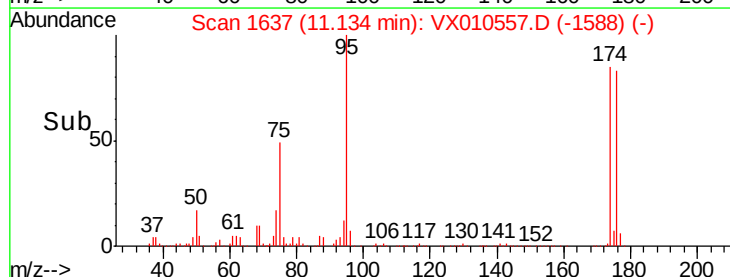
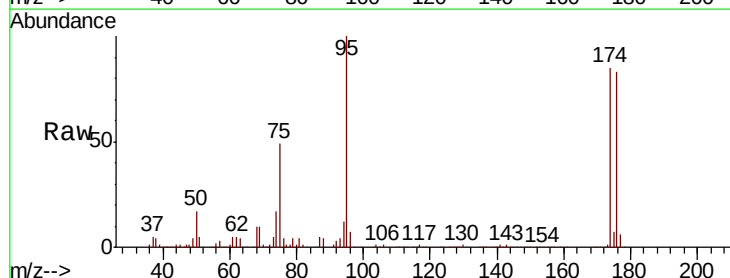
Instrument :
 MSVOA_X
 ClientSampled :
 ERM-16R

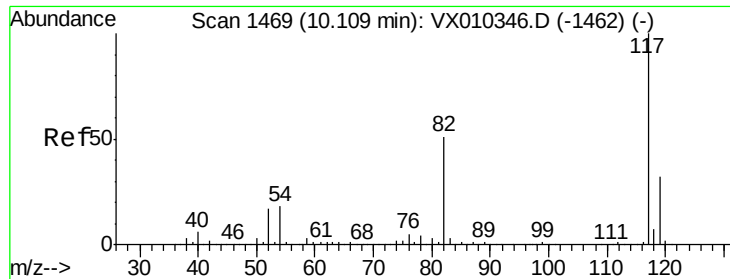
Tot Ion: 97 Resp: 589
 Ion Ratio Lower Upper
 97 100
 83 0.0 67.4 101.0#
 85 0.0 43.8 65.8#
 99 0.0 50.3 75.5#



#62
 4-Bromofluorobenzene
 Concen: 46.981 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX010557.D
 Acq: 29 Jun 2019 00:44

Tgt Ion: 95 Resp: 152983
 Ion Ratio Lower Upper
 95 100
 174 93.0 0.0 187.6
 176 90.9 0.0 184.0

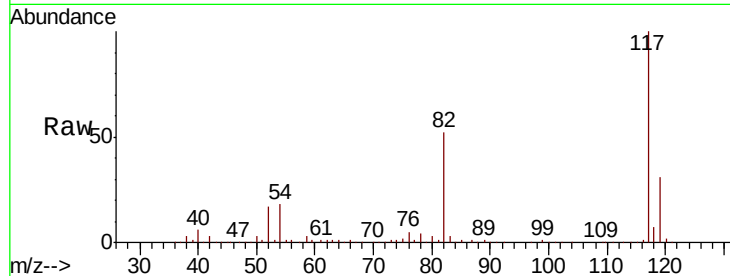




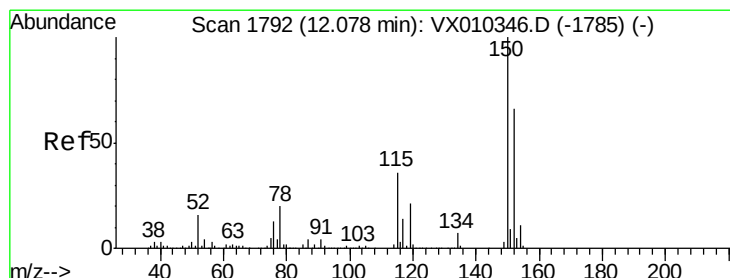
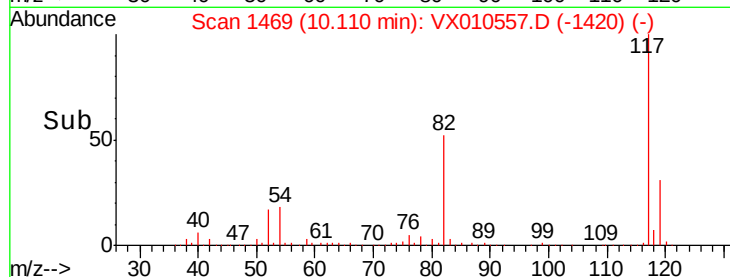
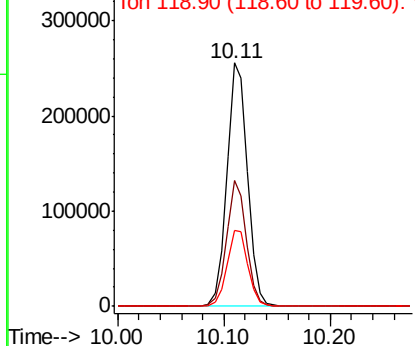
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010557.D
Acq: 29 Jun 2019 00:44

Instrument :
MSVOA_X
ClientSampleId :
ERM-16R

Tot Ion:117 Resp: 346081
Ion Ratio Lower Upper
117 100
82 51.7 41.2 61.8
119 31.2 25.5 38.3

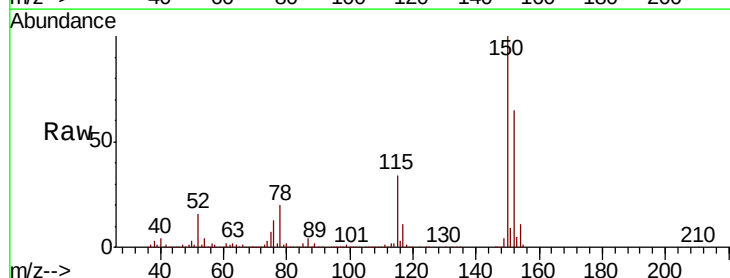


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

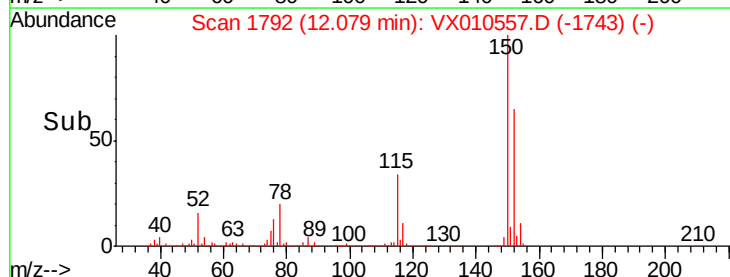
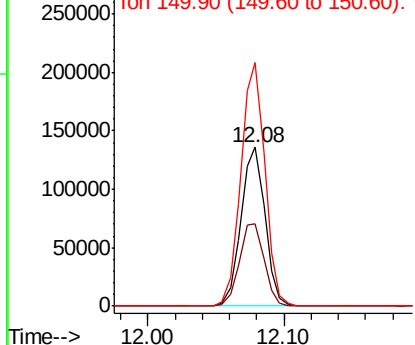


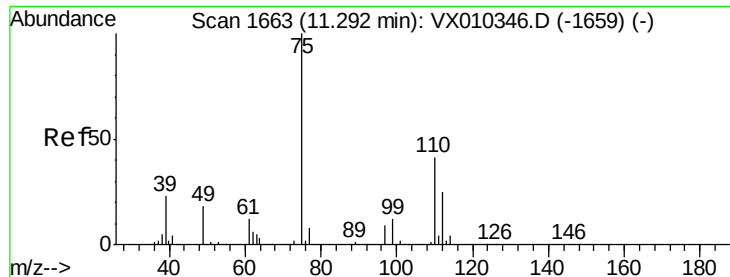
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010557.D
Acq: 29 Jun 2019 00:44

Tgt Ion:152 Resp: 167102
Ion Ratio Lower Upper
152 100
115 53.7 38.6 115.7
150 153.3 0.0 347.4



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

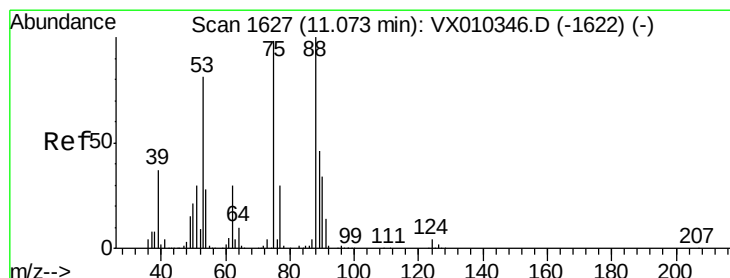
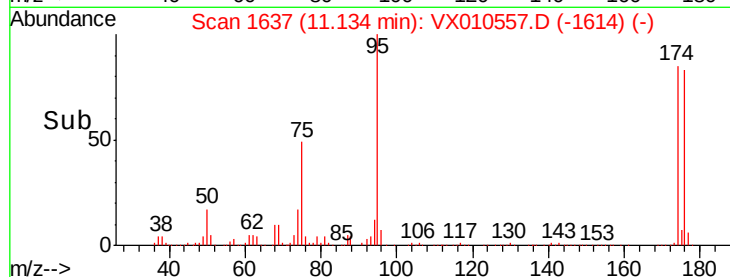
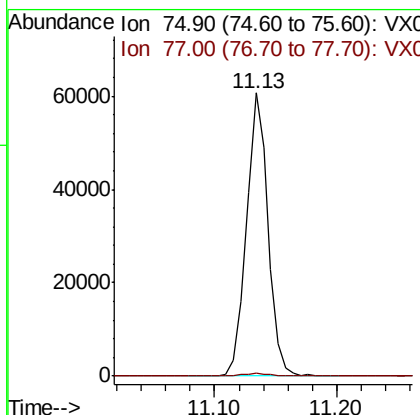
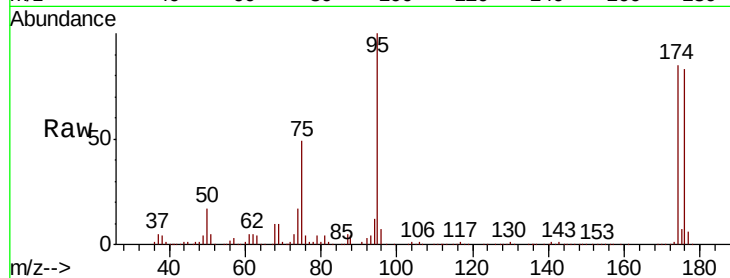




#76
 1,2,3-Trichloropropane
 Concen: 24.219 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010557.D
 Acq: 29 Jun 2019 00:44

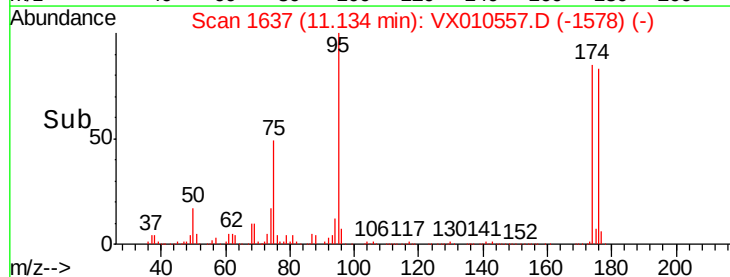
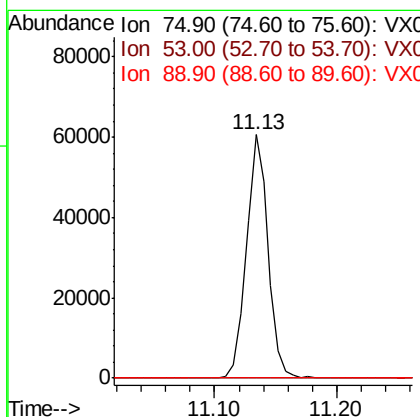
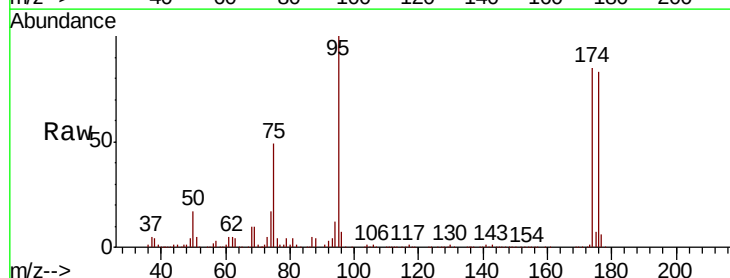
Instrument :
 MSVOA_X
 ClientSampleId :
 ERM-16R

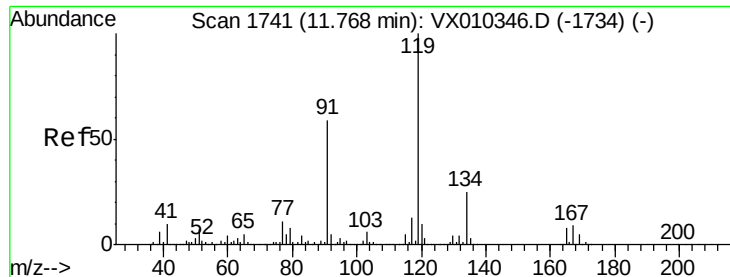
Tot Ion: 75 Resp: 73748
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.501 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010557.D
 Acq: 29 Jun 2019 00:44

Tgt Ion: 75 Resp: 73748
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.1 99.1#
 89 0.0 37.8 56.6#





#83

tert-Butylbenzene

Concen: 0.210 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

ERM-16R

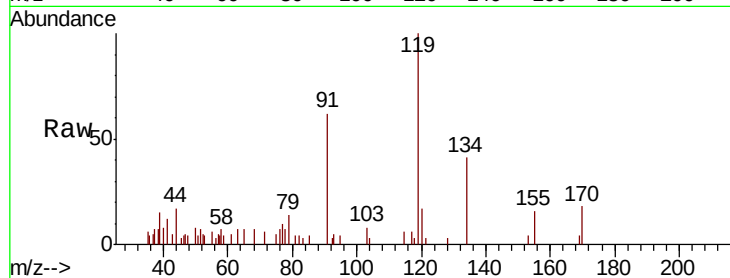
Tot Ion:119 Resp: 1968

Ion Ratio Lower Upper

119 100

91 73.4 27.6 82.7

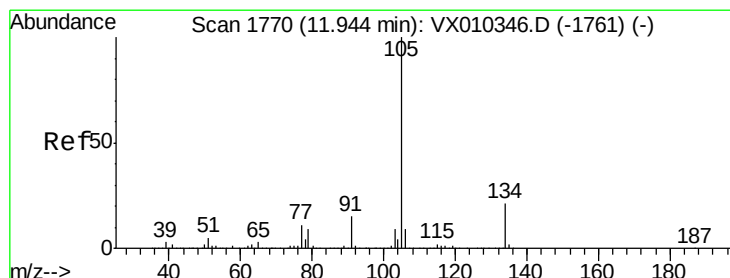
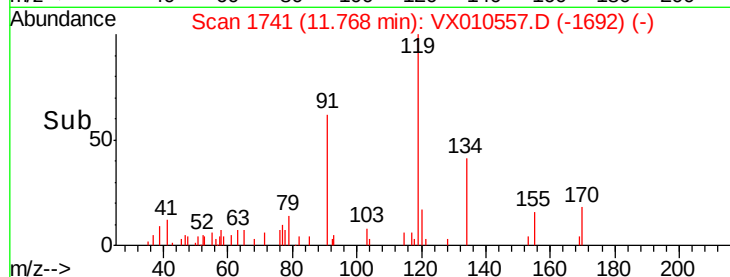
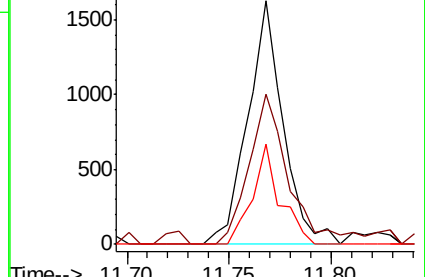
134 32.1 11.8 35.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#85

sec-Butylbenzene

Concen: 0.226 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010557.D

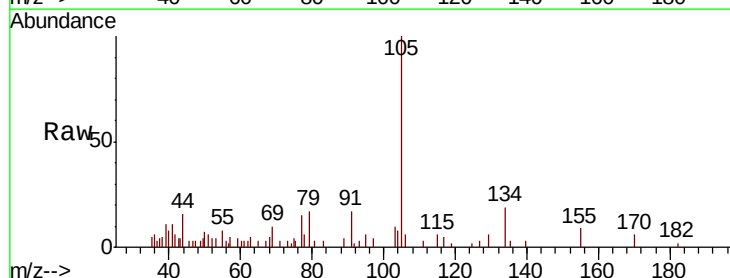
Acq: 29 Jun 2019 00:44

Tgt Ion:105 Resp: 2491

Ion Ratio Lower Upper

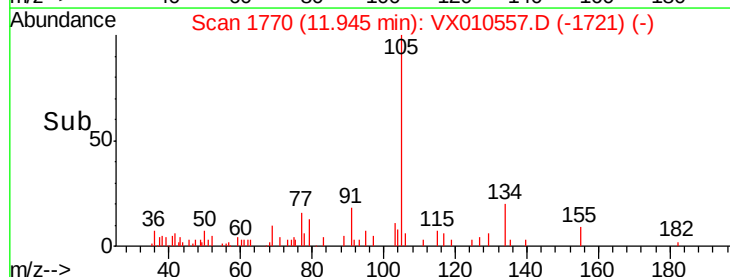
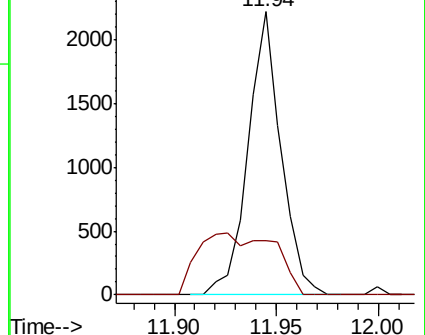
105 100

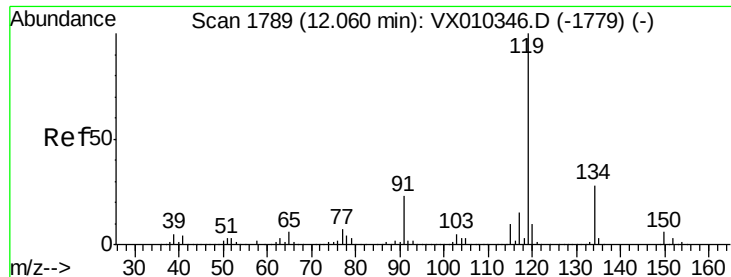
134 50.8 10.7 31.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

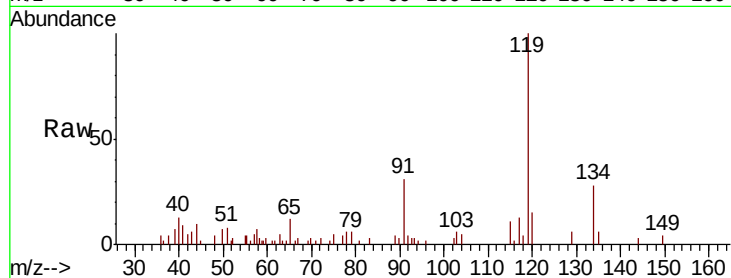




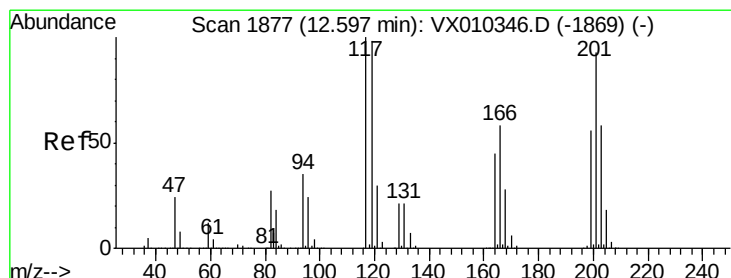
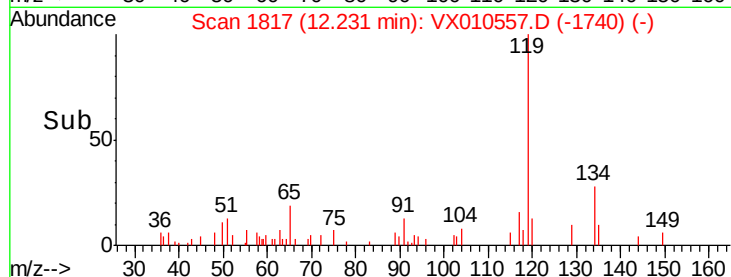
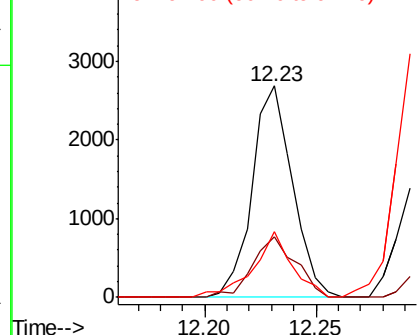
#86
p-Isopropyltoluene
Concen: 0.334 ug/l
RT: 12.23 min Scan# 1817
Delta R.T. 0.17 min
Lab File: VX010557.D
Acq: 29 Jun 2019 00:44

Instrument :
MSVOA_X
ClientSampleId :
ERM-16R

Tot Ion:119 Resp: 3396
Ion Ratio Lower Upper
119 100
134 30.3 13.7 41.1
91 30.2 11.3 33.8

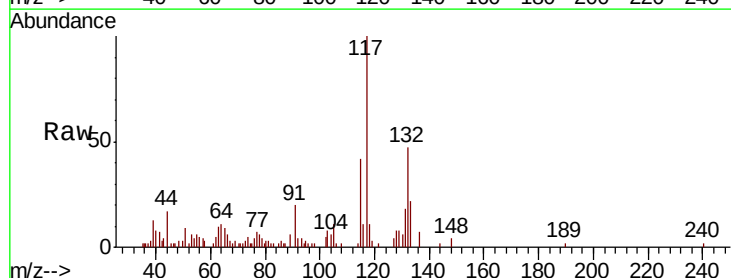


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

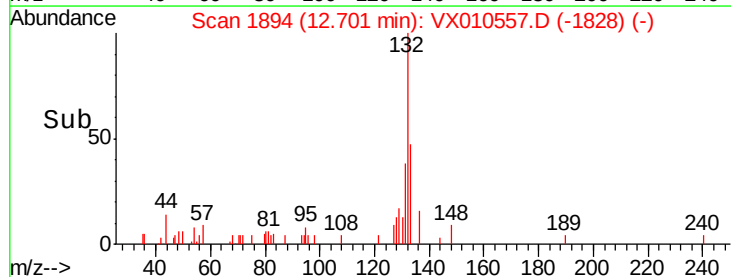
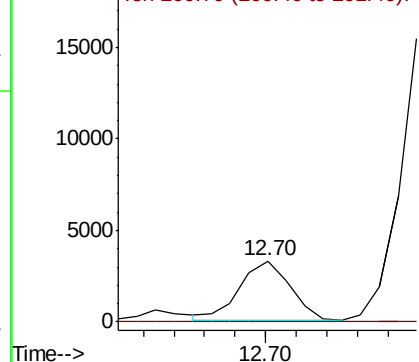


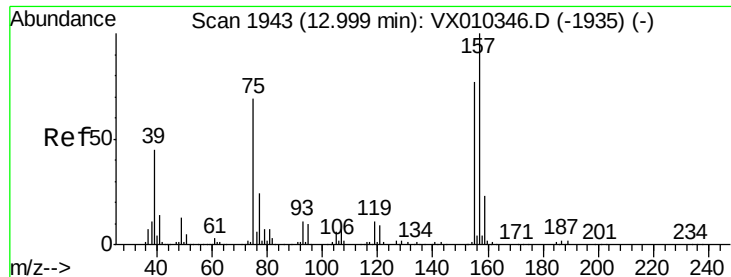
#90
Hexachloroethane
Concen: 2.092 ug/l
RT: 12.70 min Scan# 1894
Delta R.T. 0.10 min
Lab File: VX010557.D
Acq: 29 Jun 2019 00:44

Tgt Ion:117 Resp: 3682
Ion Ratio Lower Upper
117 100
201 0.0 44.0 131.8#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.351 ug/l

RT: 12.98 min Scan# 1940

Delta R.T. -0.02 min

Lab File: VX010557.D

Acq: 29 Jun 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

ERM-16R

Tot Ion: 75 Resp: 284

Ion Ratio Lower Upper

75 100

155 0.0 54.4 163.1#

157 0.0 69.5 208.3#

