

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091120\
 Data File : VX018367.D
 Acq On : 11 Sep 2020 17:44
 Operator : JC/SP
 Sample : PB131535TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 12 05:59:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	441012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	705130	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	693236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	330241	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	312878	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
35) Dibromofluoromethane	5.46	113	247333	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
50) Toluene-d8	8.70	98	879436	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	11.12	95	326503	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	

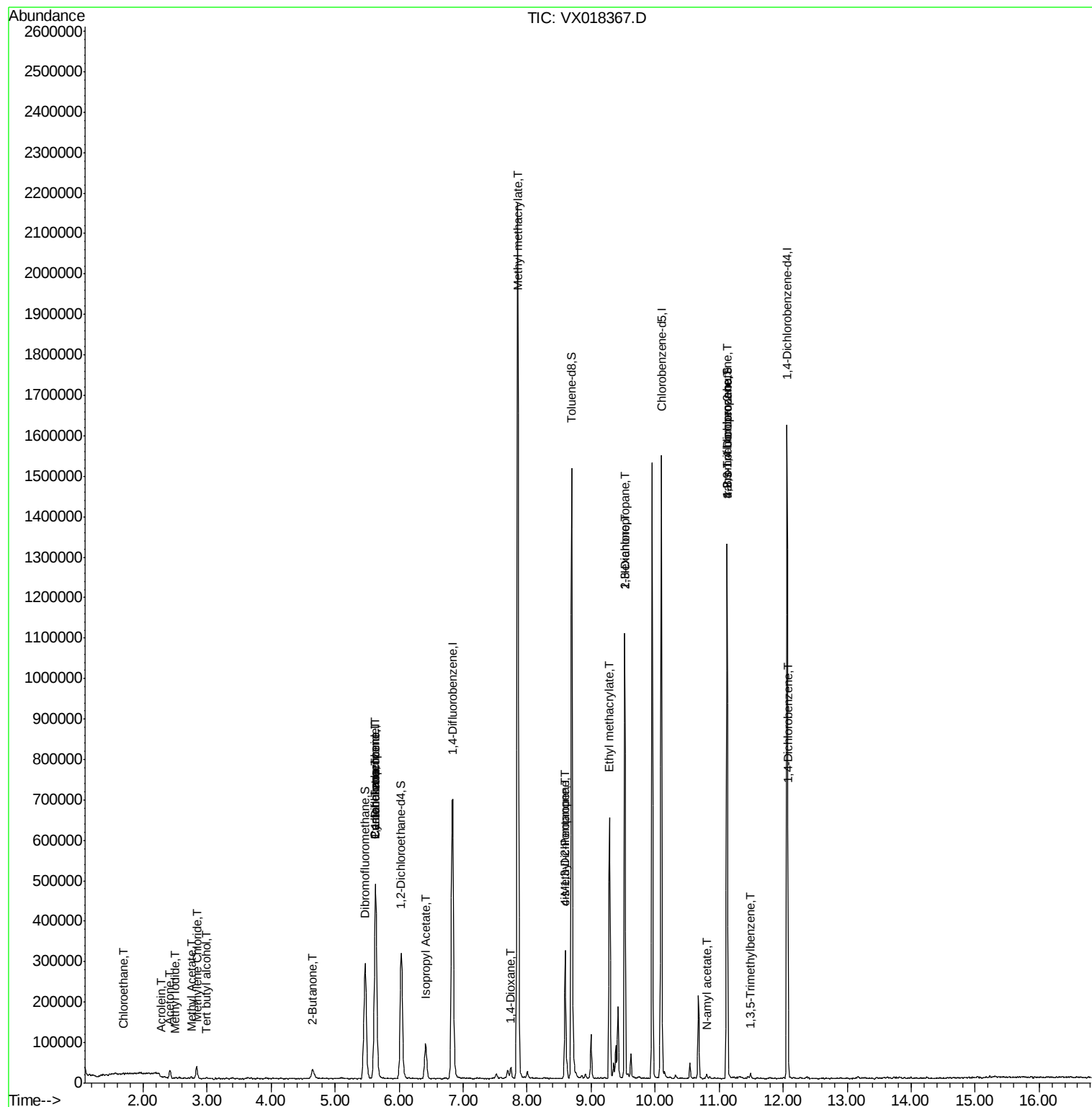
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	785	0.259	ug/l #	64
10) Methyl Iodide	2.50	142	413	5.370	ug/l #	78
11) Tert butyl alcohol	3.00	59	2346	1.971	ug/l #	78
13) Acrolein	2.29	56	371	0.752	ug/l #	14
16) Acetone	2.42	43	21337	8.944	ug/l	97
18) Methyl Acetate	2.75	43	5274	0.916	ug/l #	82
20) Methylene Chloride	2.84	84	14632	1.876	ug/l #	92
25) 2-Butanone	4.65	43	5924	1.511	ug/l #	89
31) Cyclohexane	5.63	56	10116	1.380	ug/l #	18
36) 1,1-Dichloropropene	5.62	75	36048	5.543	ug/l #	51
38) Carbon Tetrachloride	5.64	117	45657	6.229	ug/l #	18
43) Isopropyl Acetate	6.42	43	117957	9.668	ug/l	99
48) Methyl methacrylate	7.85	41	198619	32.702	ug/l #	44
49) 1,4-Dioxane	7.74	88	510	4.636	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	117648	15.611	ug/l #	45
54) cis-1,3-Dichloropropene	8.59	75	49093	5.782	ug/l #	62
56) Ethyl methacrylate	9.29	69	3340	0.435	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	8777	1.030	ug/l #	47
59) 2-Hexanone	9.52	43	127587	22.264	ug/l #	50
74) N-amyl acetate	10.80	43	5473	0.530	ug/l #	54
76) 1,2,3-Trichloropropane	11.12	75	168446	22.929	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	5400	0.302	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.12	75	168446	61.928	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	2190	0.207	ug/l #	58

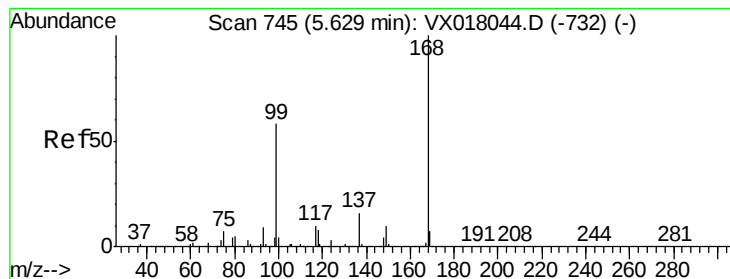
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 12 05:59:35 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Instrument :

MSVOA_X

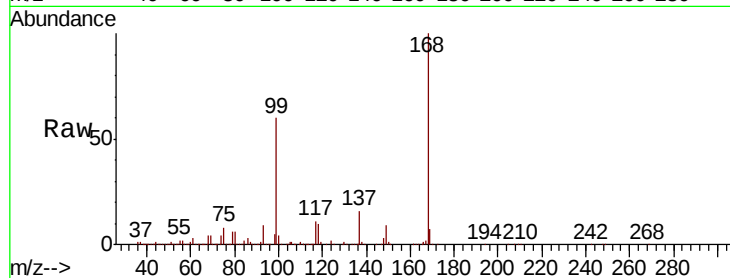
ClientSampleId :

Tot Ion:168 Resp: 441012

Ion Ratio Lower Upper

168 100

99 60.0 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

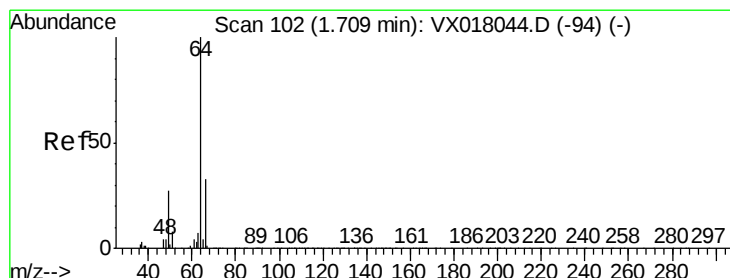
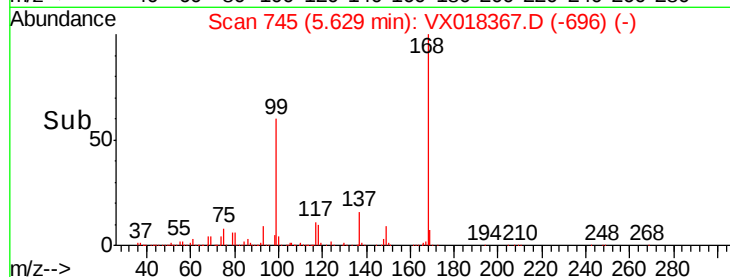
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.259 ug/l

RT: 1.70 min Scan# 100

Delta R.T. -0.01 min

Lab File: VX018367.D

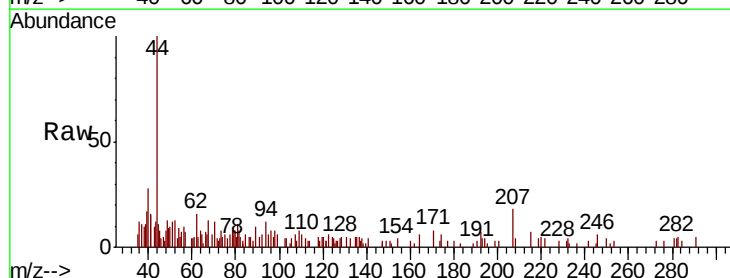
Acq: 11 Sep 2020 17:44

Tgt Ion: 64 Resp: 785

Ion Ratio Lower Upper

64 100

66 53.6 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

400

300

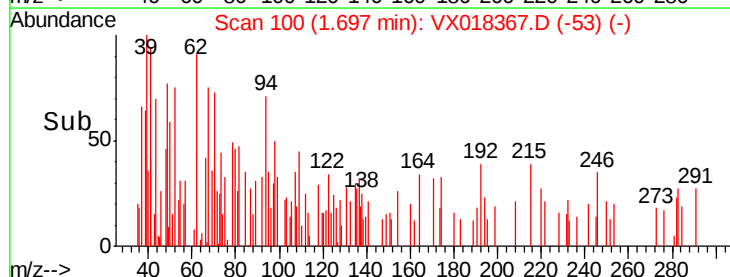
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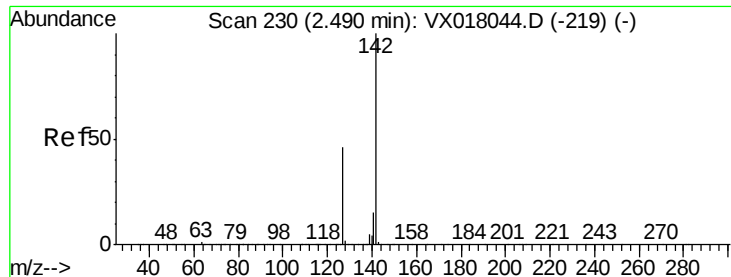
100

0

Time-->

1.65 1.70

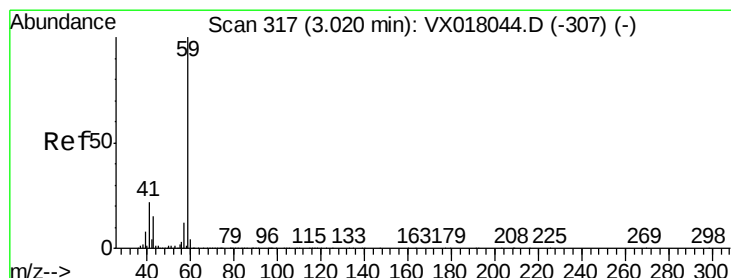
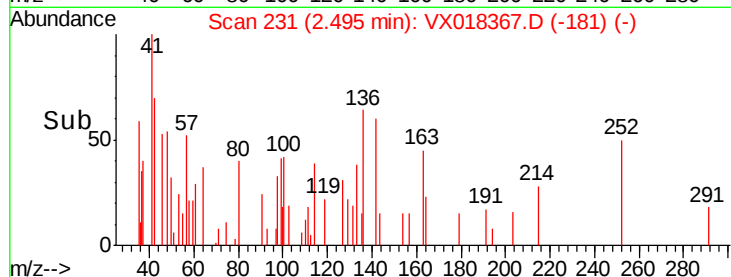
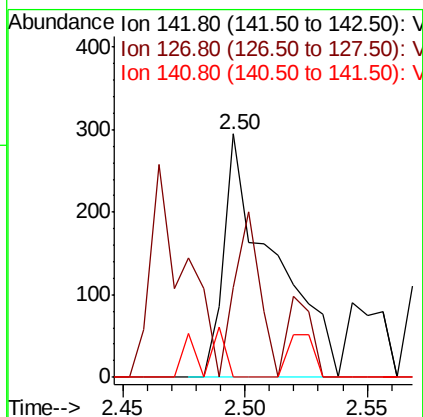
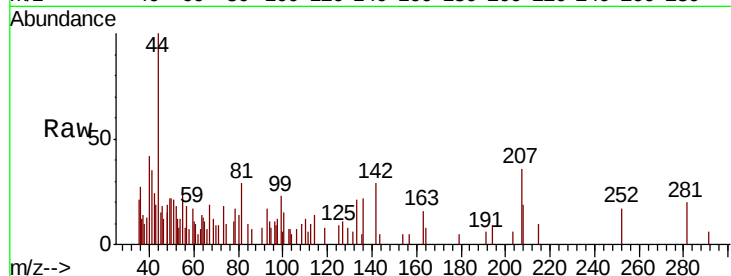




#10
Methvl Iodide
Concen: 5.370 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

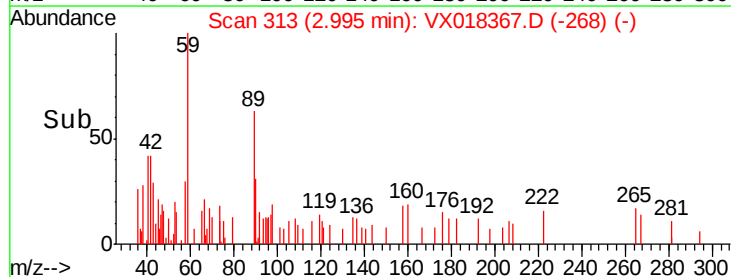
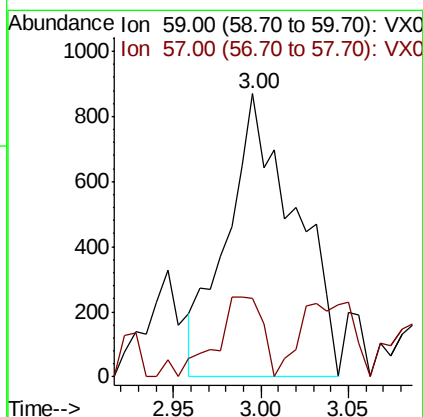
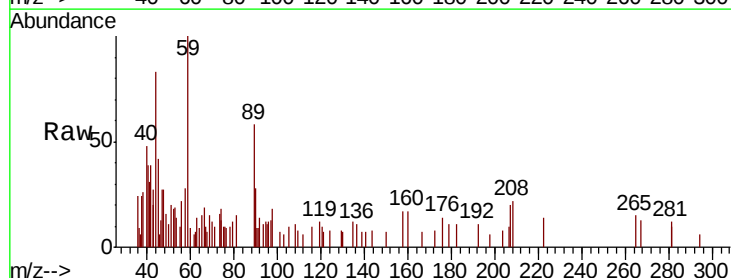
Instrument :
MSVOA_X
ClientSampled :

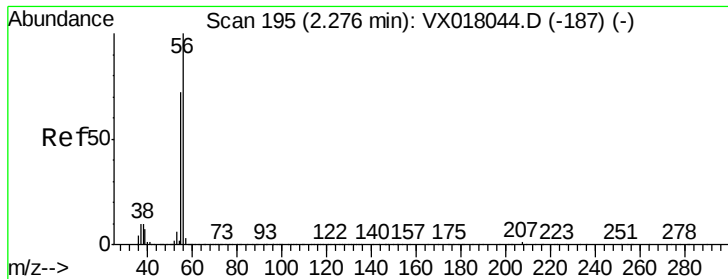
Tot Ion:142 Resp: 413
Ion Ratio Lower Upper
142 100
127 34.4 37.0 55.6#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 1.971 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

Tgt Ion: 59 Resp: 2346
Ion Ratio Lower Upper
59 100
57 19.4 8.9 13.3#





#13

Acrolein

Concen: 0.752 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.01 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Instrument :

MSVOA_X

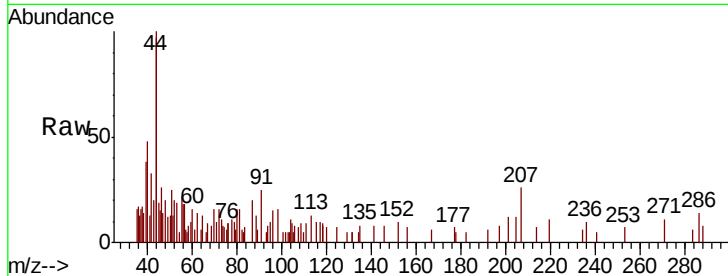
ClientSampleId :

Tot Ion: 56 Resp: 371

Ion Ratio Lower Upper

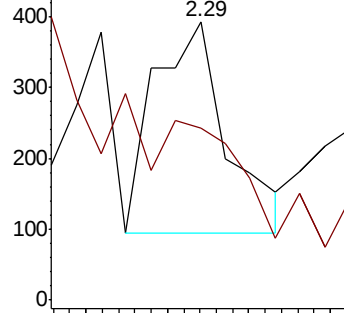
56 100

55 0.0 57.0 85.6#

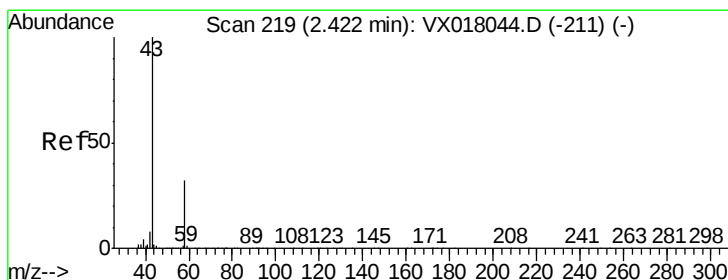
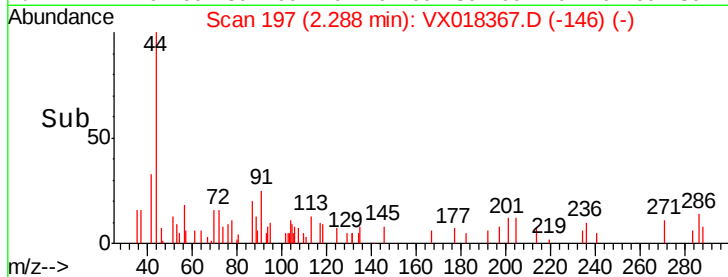


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 8.944 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018367.D

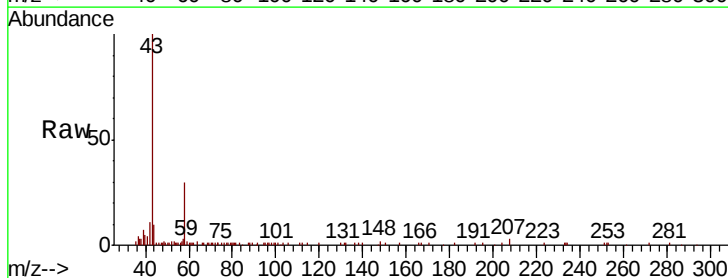
Acq: 11 Sep 2020 17:44

Tgt Ion: 43 Resp: 21337

Ion Ratio Lower Upper

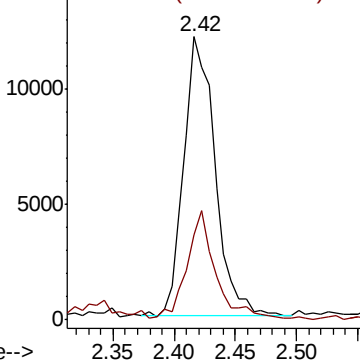
43 100

58 30.0 25.5 38.3

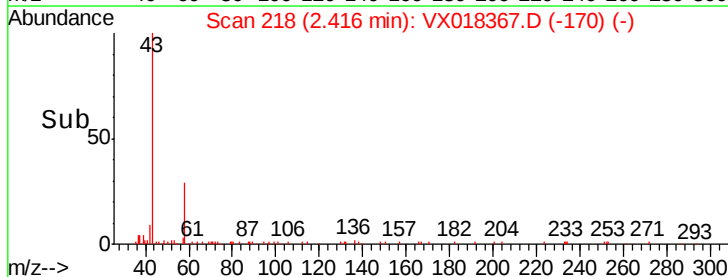


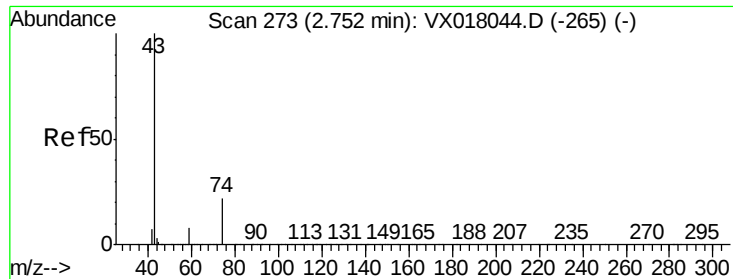
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

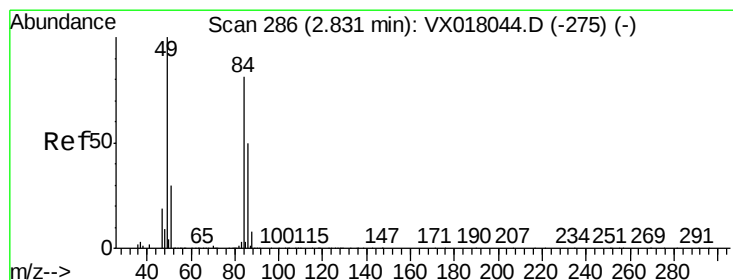
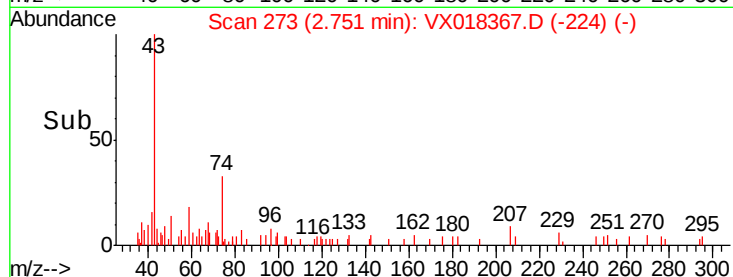
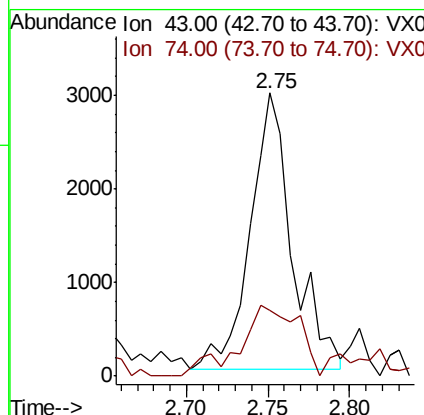
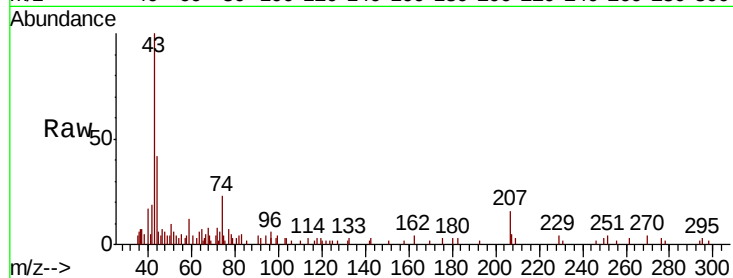




#18
Methvl Acetate
Concen: 0.916 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

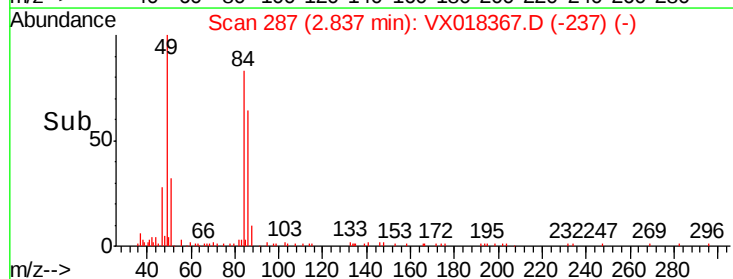
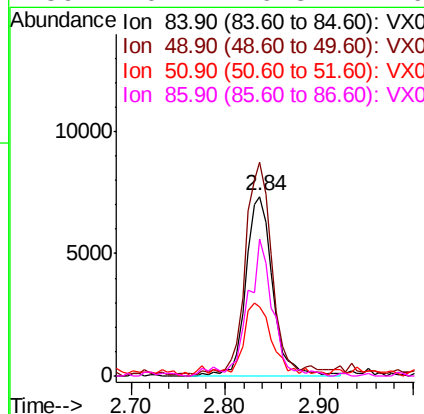
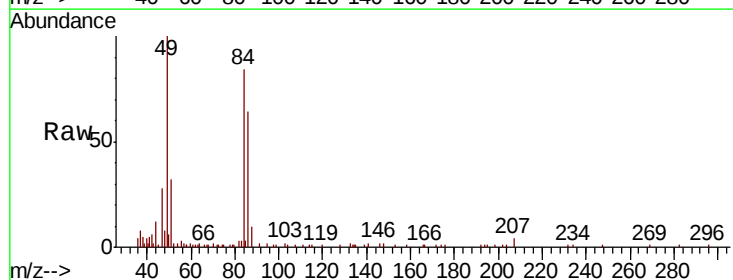
Instrument :
MSVOA_X
ClientSampleId :

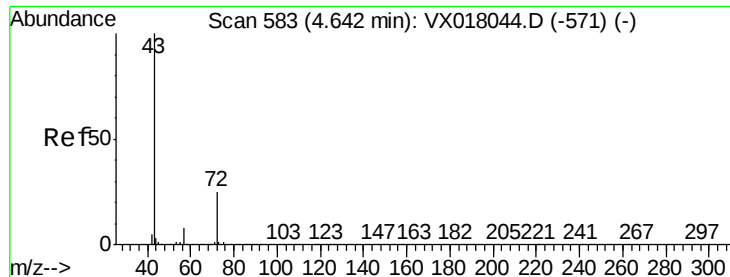
Tot Ion: 43 Resp: 5274
Ion Ratio Lower Upper
43 100
74 31.5 18.2 27.4#



#20
Methylene Chloride
Concen: 1.876 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

Tgt Ion: 84 Resp: 14632
Ion Ratio Lower Upper
84 100
49 117.6 98.6 148.0
51 38.7 29.6 44.4
86 76.1 49.8 74.6#

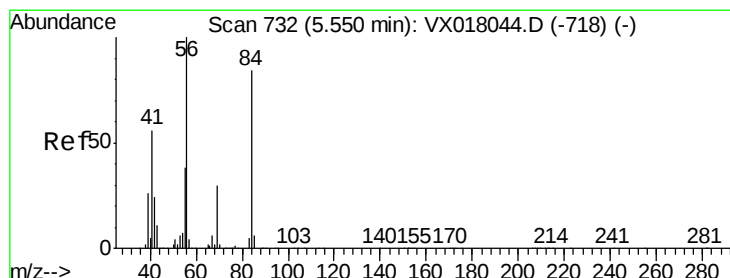
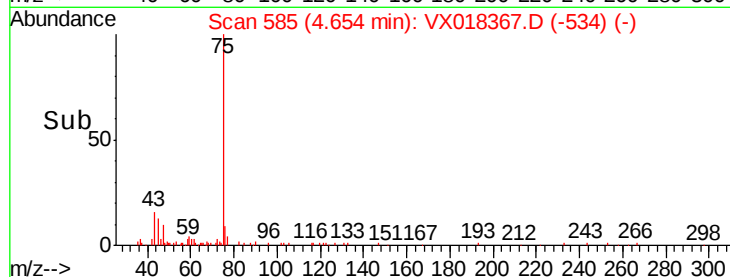
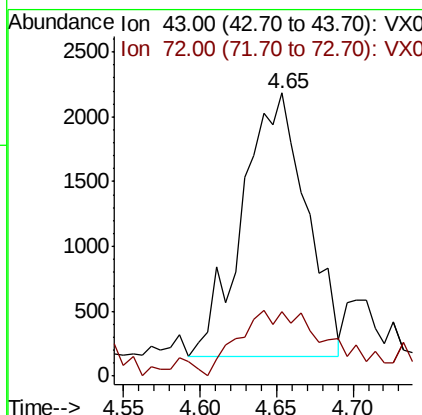
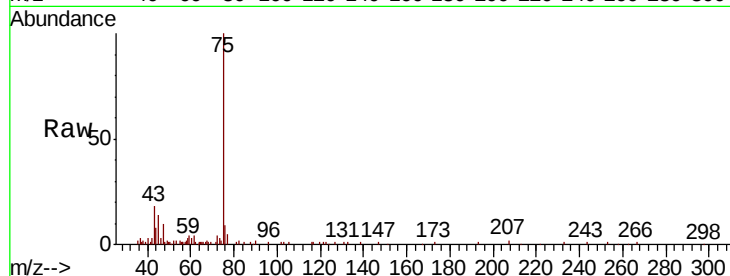




#25
2-Butanone
Concen: 1.511 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

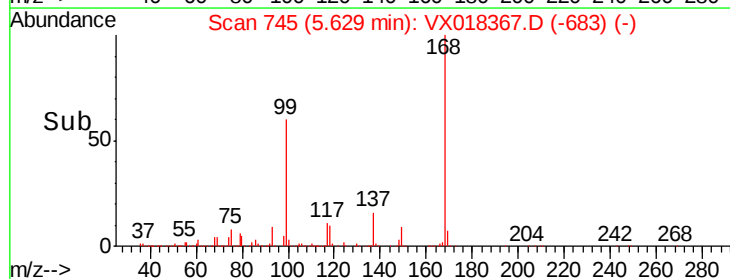
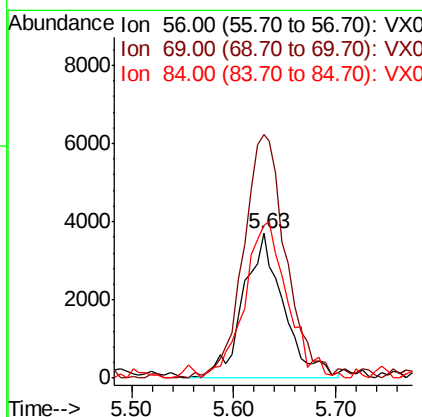
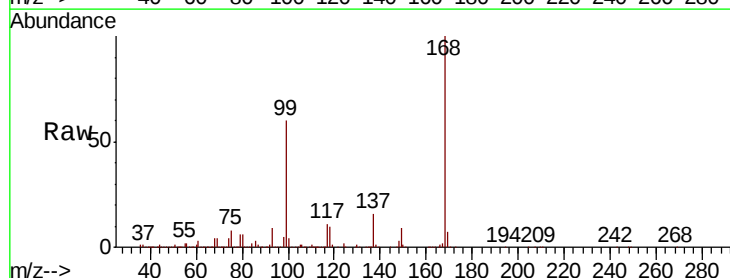
Instrument :
MSVOA_X
ClientSampleId :

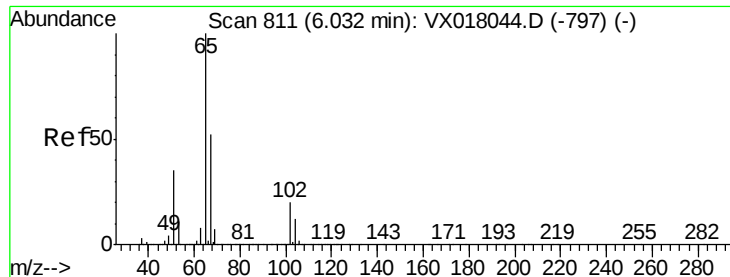
Tot Ion: 43 Resp: 5924
Ion Ratio Lower Upper
43 100
72 19.1 19.8 29.6#



#31
Cyclohexane
Concen: 1.380 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

Tgt Ion: 56 Resp: 10116
Ion Ratio Lower Upper
56 100
69 168.3 23.9 35.9#
84 102.0 67.0 100.4#





#33

1,2-Dichloroethane-d4

Concen: 51.104 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Instrument :

MSVOA_X

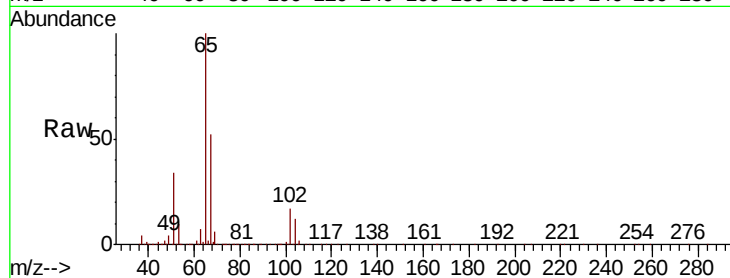
ClientSampleId :

Tot Ion: 65 Resp: 312878

Ion Ratio Lower Upper

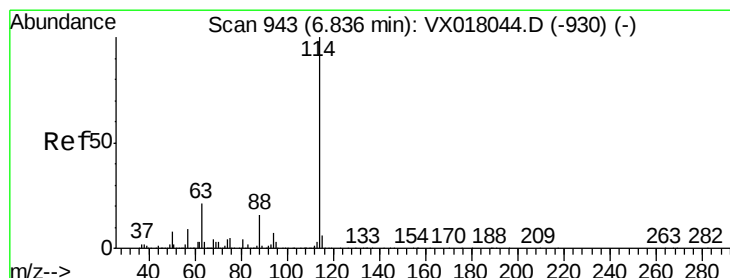
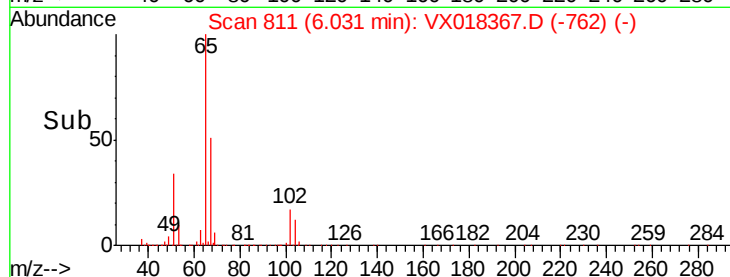
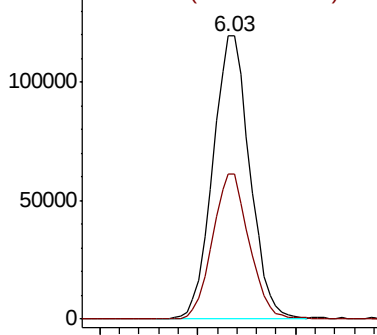
65 100

67 51.3 0.0 105.8



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: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

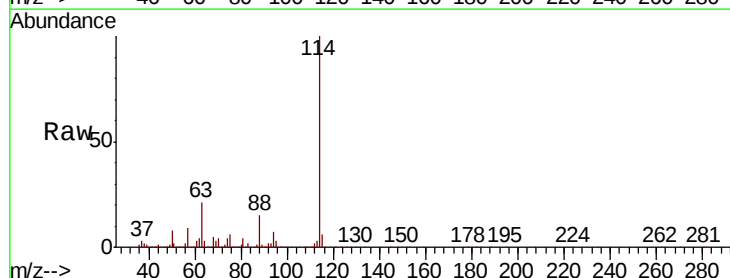
Tgt Ion: 114 Resp: 705130

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.6

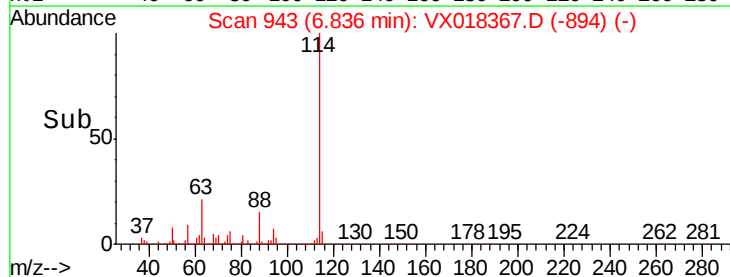
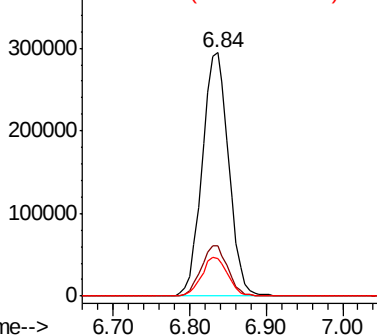
88 15.2 0.0 31.8

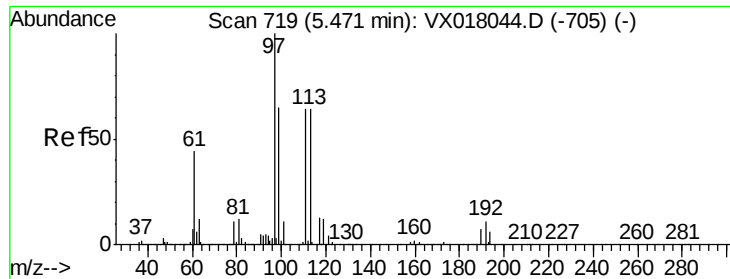


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

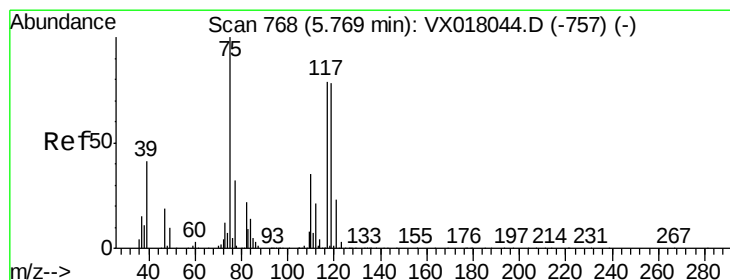
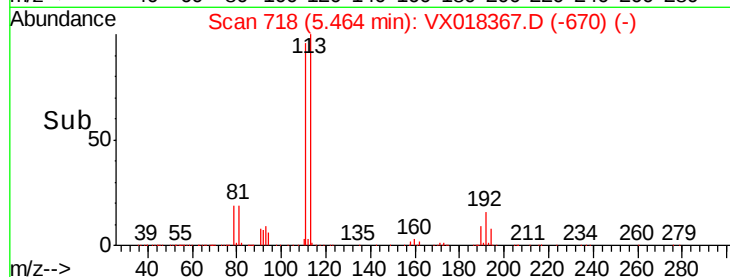
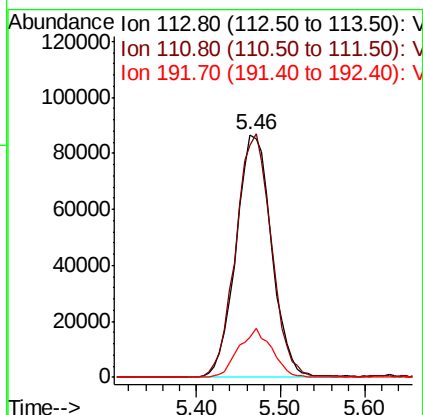
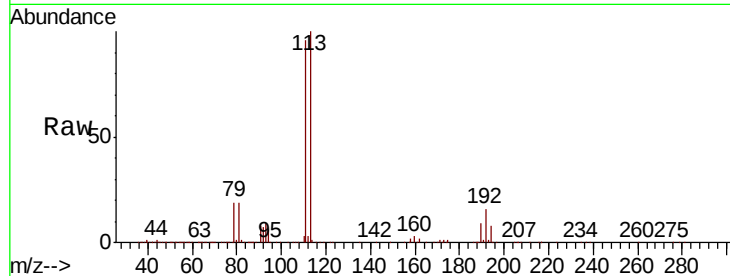




#35
Dibromofluoromethane
Concen: 51.503 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.01 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

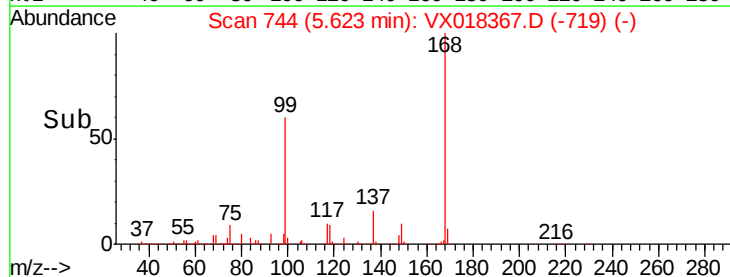
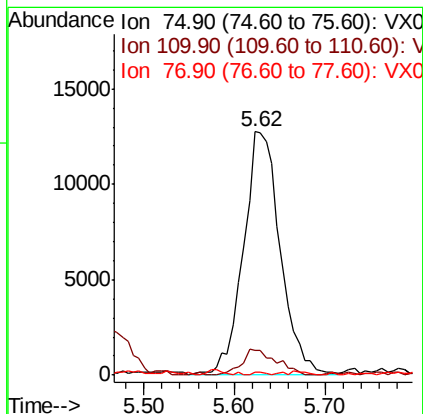
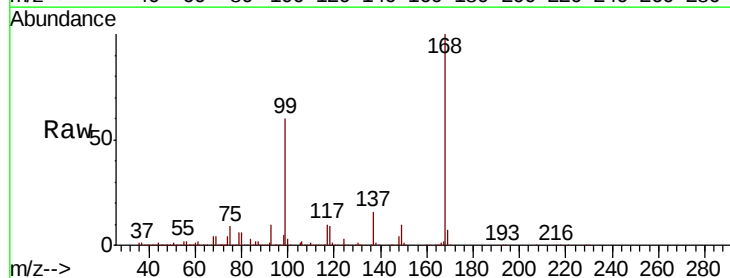
Instrument :
MSVOA_X
ClientSampleId :

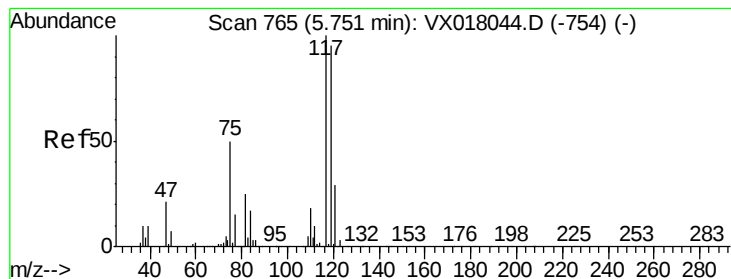
Tot Ion:113 Resp: 247333
Ion Ratio Lower Upper
113 100
111 100.8 81.6 122.4
192 19.1 15.8 23.8



#36
1,1-Dichloropropene
Concen: 5.543 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.15 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

Tgt Ion: 75 Resp: 36048
Ion Ratio Lower Upper
75 100
110 9.8 18.0 54.0#
77 0.4 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 6.229 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

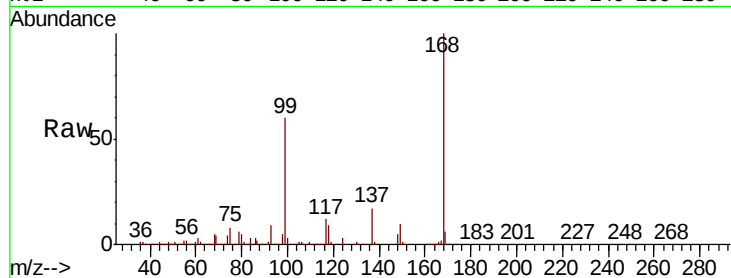
Tot Ion:117 Resp: 45657

Ion Ratio Lower Upper

117 100

119 6.4 75.8 113.6#

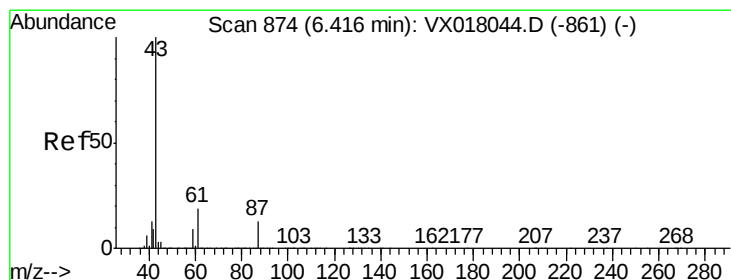
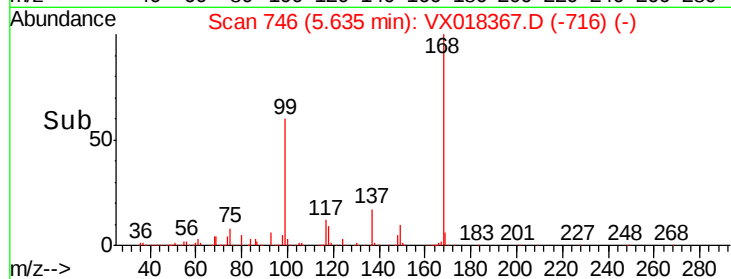
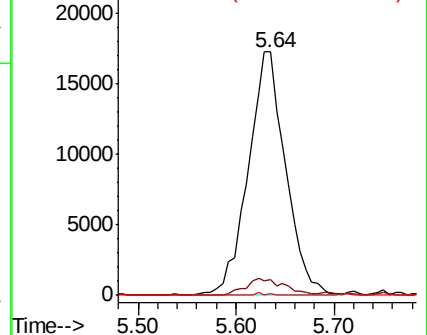
121 0.5 23.4 35.0#



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



#43

Isopropyl Acetate

Concen: 9.668 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

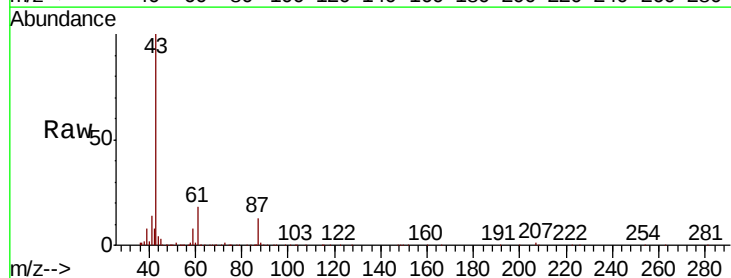
Tgt Ion: 43 Resp: 117957

Ion Ratio Lower Upper

43 100

61 18.9 15.7 23.5

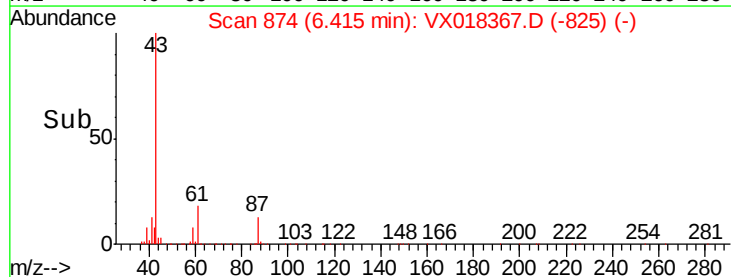
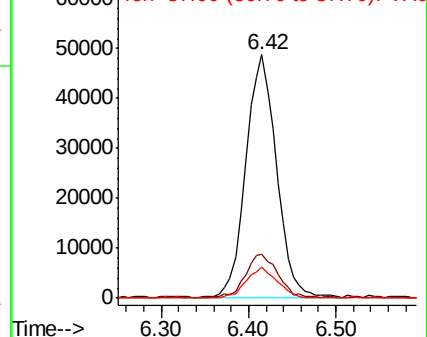
87 13.0 10.3 15.5

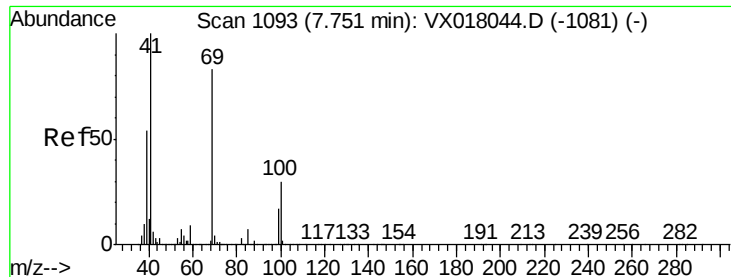


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

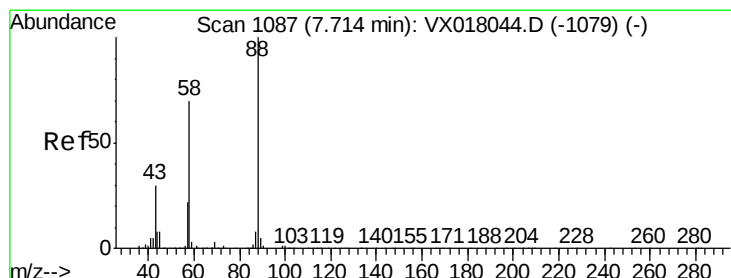
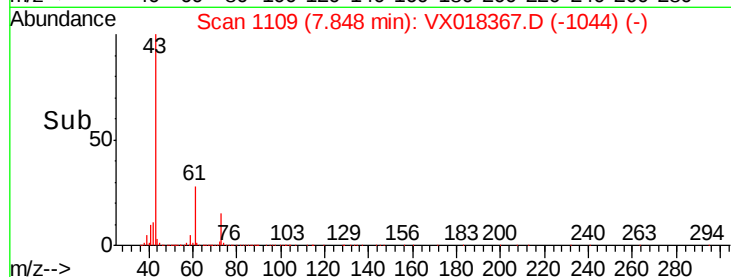
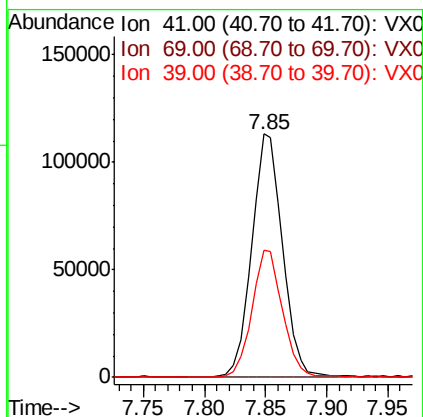
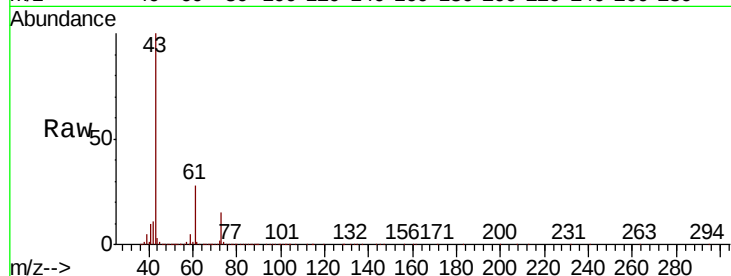




#48
Methvl methacrylate
Concen: 32.702 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

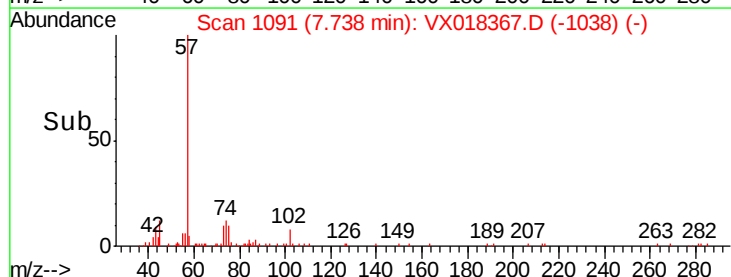
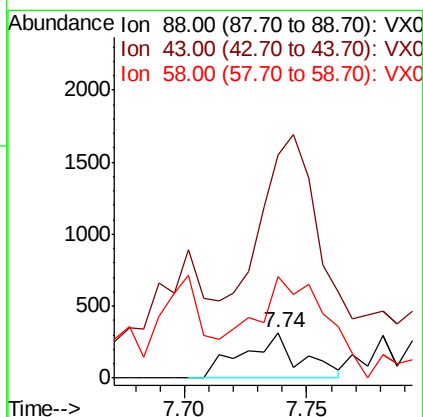
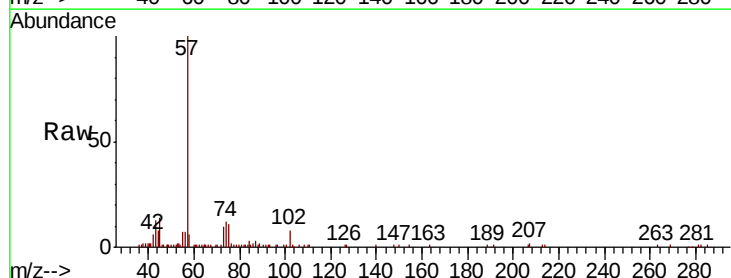
Instrument :
MSVOA_X
ClientSampleId :

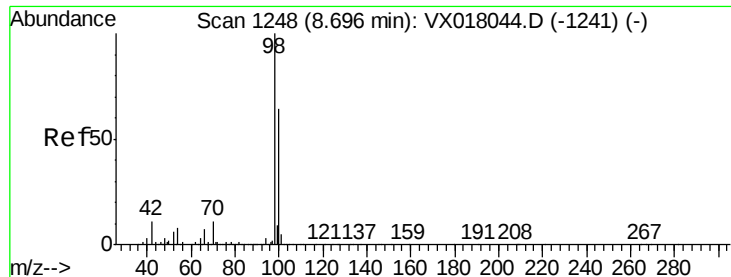
Tot Ion: 41 Resp: 198619
Ion Ratio Lower Upper
41 100
69 0.3 65.5 98.3#
39 52.2 44.5 66.7



#49
1,4-Dioxane
Concen: 4.636 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

Tgt Ion: 88 Resp: 510
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 290.0 56.4 84.6#

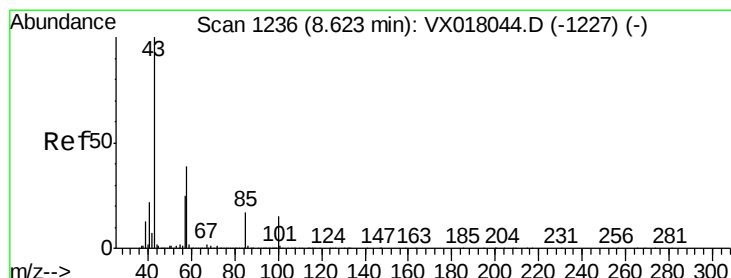
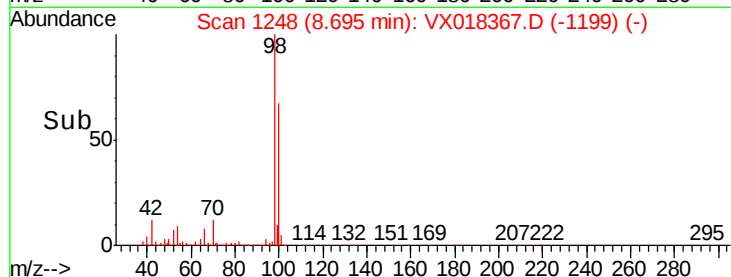
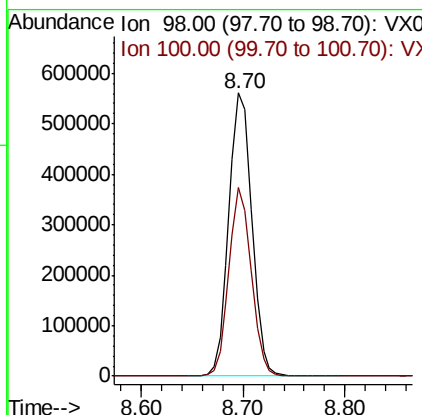
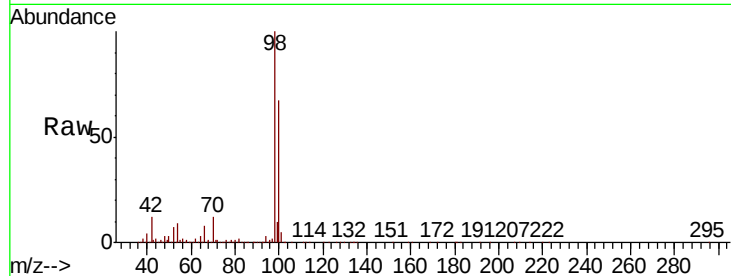




#50
Toluene-d8
Concen: 49.168 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

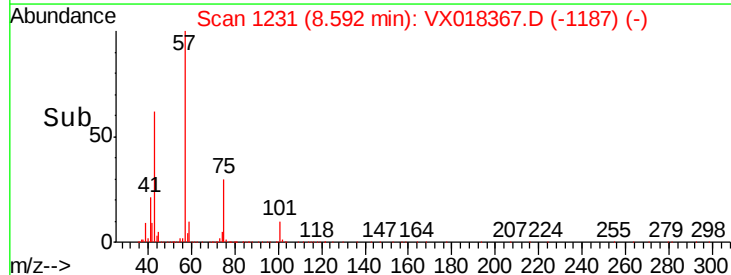
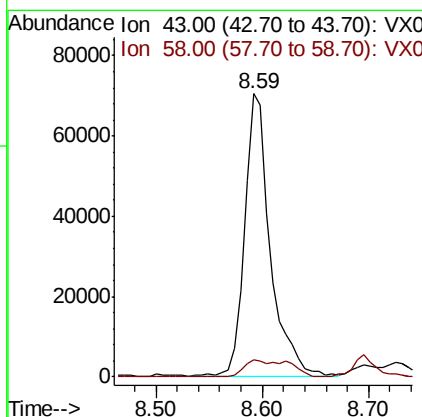
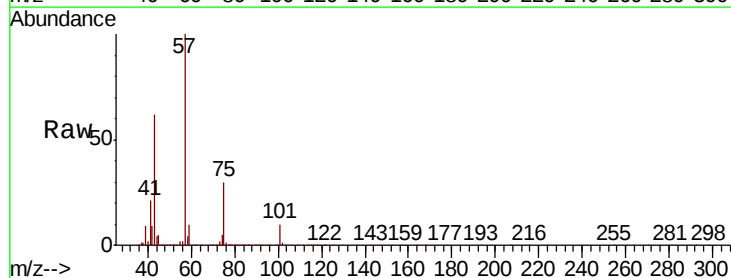
Instrument :
MSVOA_X
ClientSampleId :

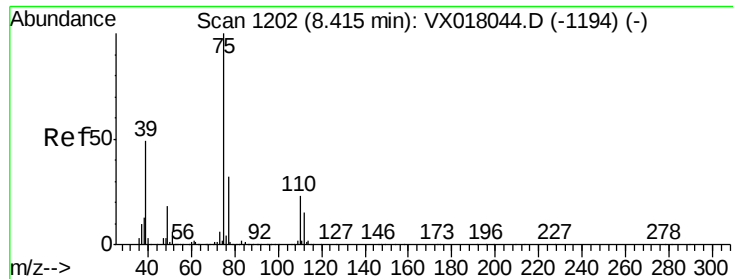
Tot Ion: 98 Resp: 879436
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 15.611 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

Tgt Ion: 43 Resp: 117648
Ion Ratio Lower Upper
43 100
58 5.1 30.7 46.1#



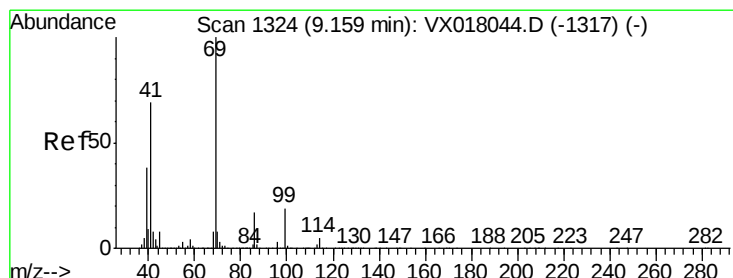
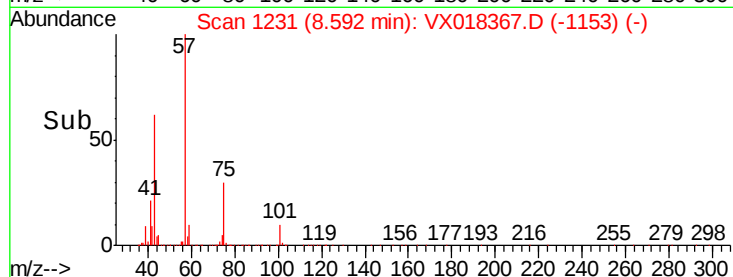
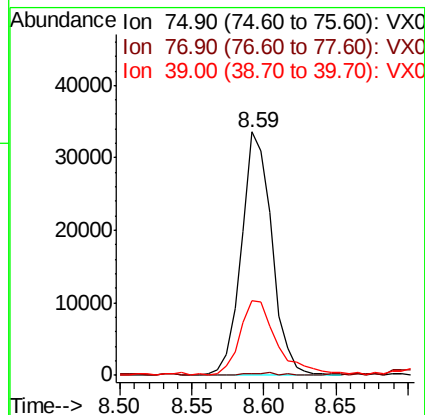
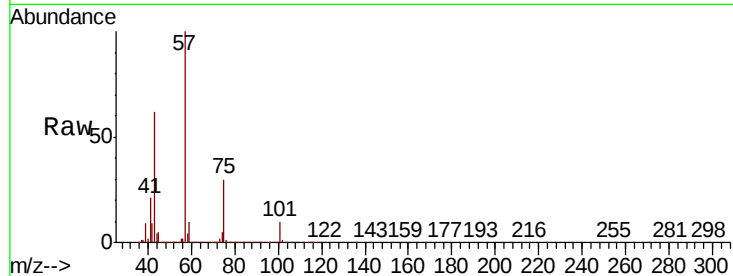


#54

cis-1,3-Dichloropropene
 Concen: 5.782 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX018367.D
 Acq: 11 Sep 2020 17:44

Instrument :
 MSVOA_X
 ClientSampled :

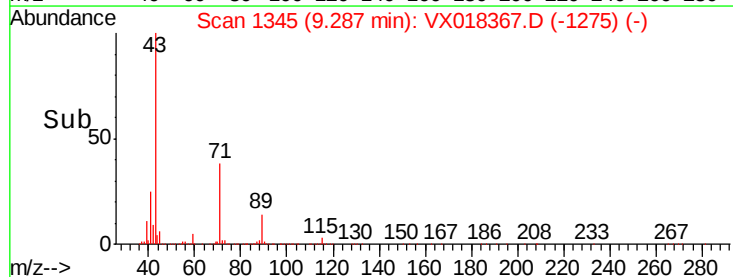
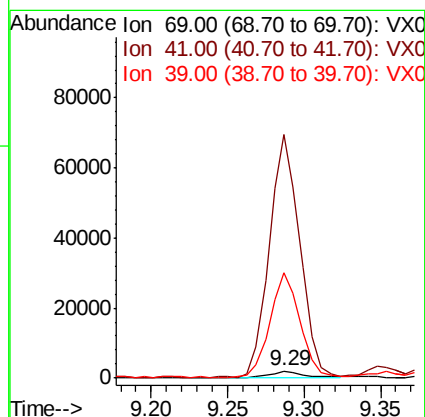
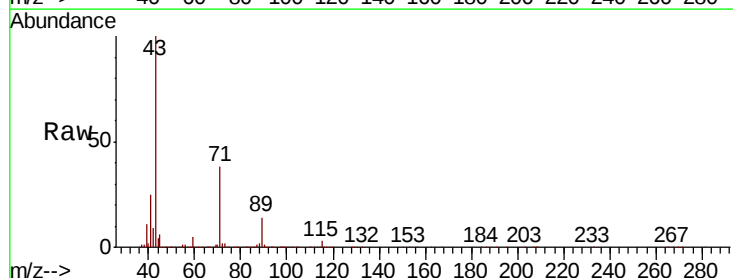
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.7	25.8	38.8#
39	30.5	38.8	58.2#

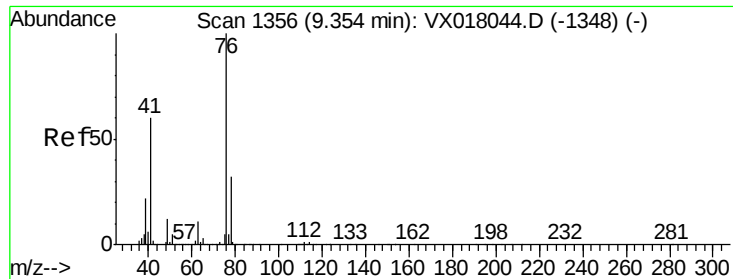


#56

Ethyl methacrylate
 Concen: 0.435 ug/l
 RT: 9.29 min Scan# 1345
 Delta R.T. 0.13 min
 Lab File: VX018367.D
 Acq: 11 Sep 2020 17:44

Tgt Ion	Ratio	Lower	Upper
69	100		
41	2889.6	54.6	81.8#
39	1250.2	29.1	43.7#





#57

1,3-Dichloropropane

Concen: 1.030 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Instrument :

MSVOA_X

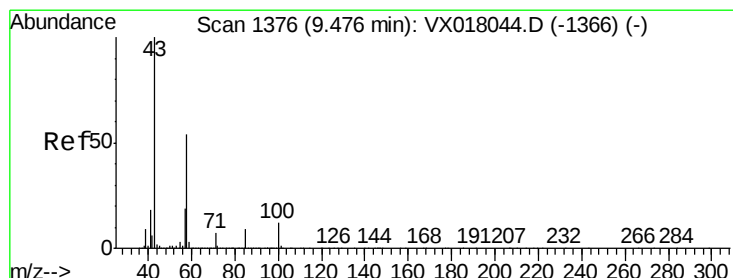
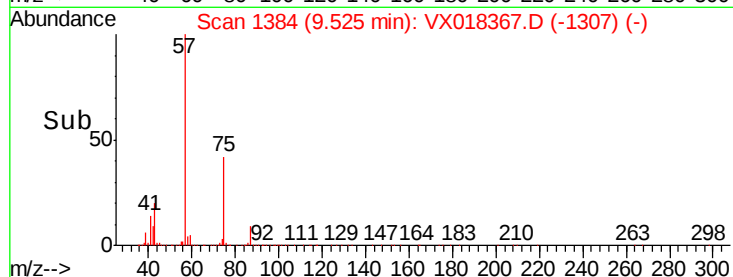
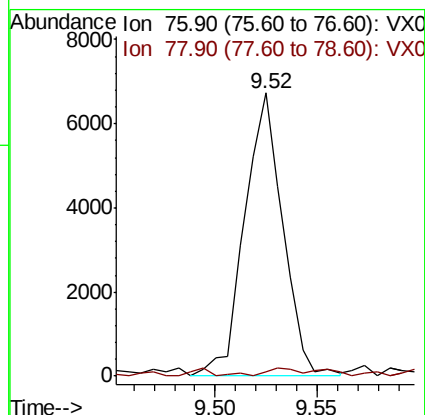
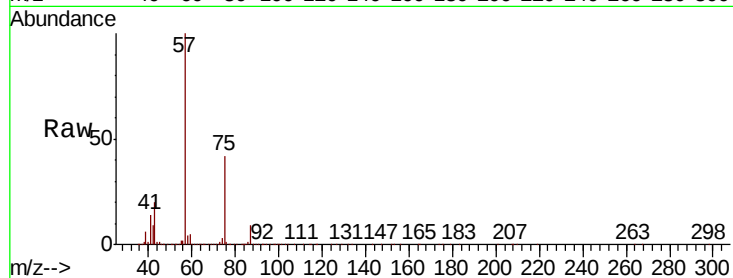
ClientSampleId :

Tot Ion: 76 Resp: 8777

Ion Ratio Lower Upper

76 100

78 2.4 25.8 38.6#



#59

2-Hexanone

Concen: 22.264 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018367.D

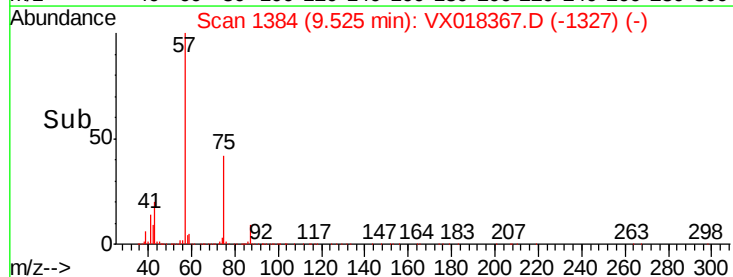
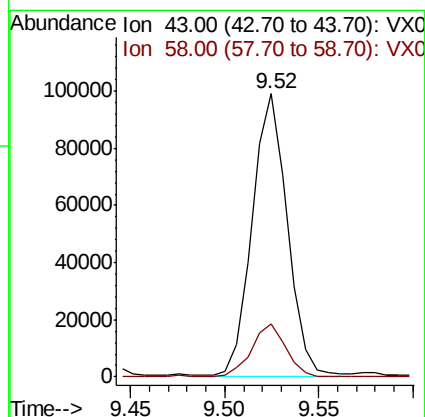
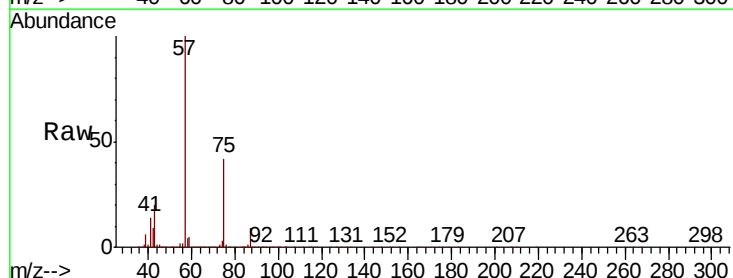
Acq: 11 Sep 2020 17:44

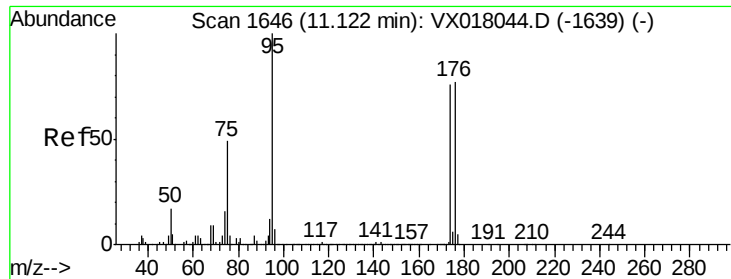
Tgt Ion: 43 Resp: 127587

Ion Ratio Lower Upper

43 100

58 17.7 26.6 79.7#





#62

4-Bromofluorobenzene

Concen: 46.397 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

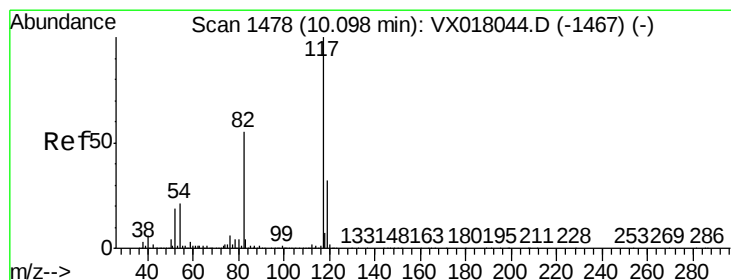
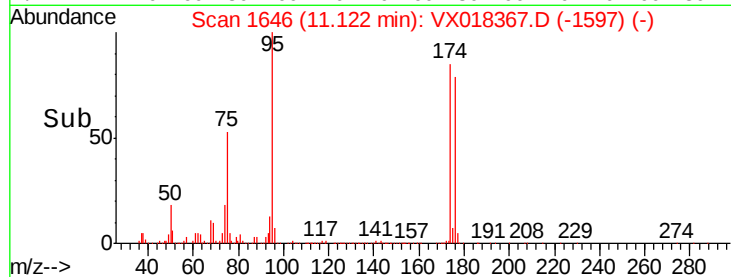
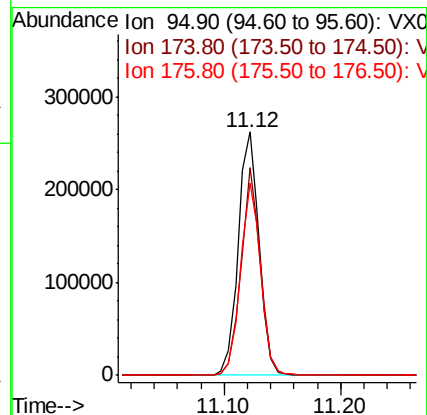
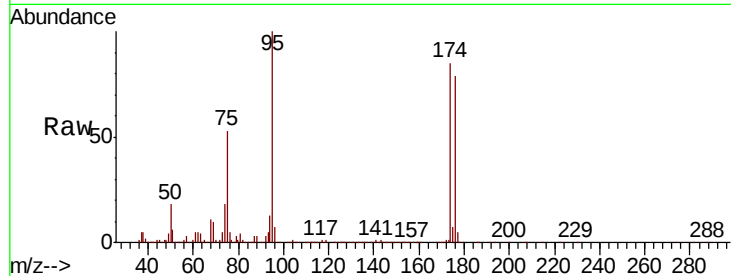
Tot Ion: 95 Resp: 326503

Ion Ratio Lower Upper

95 100

174 79.0 0.0 160.2

176 76.7 0.0 155.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

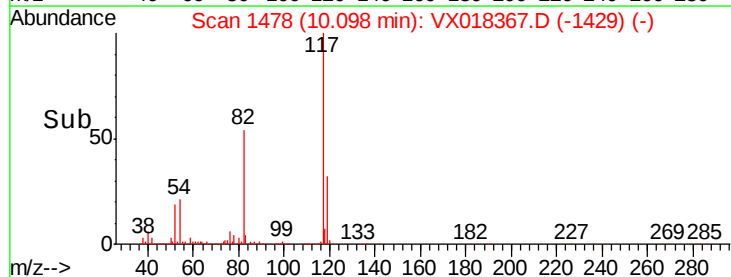
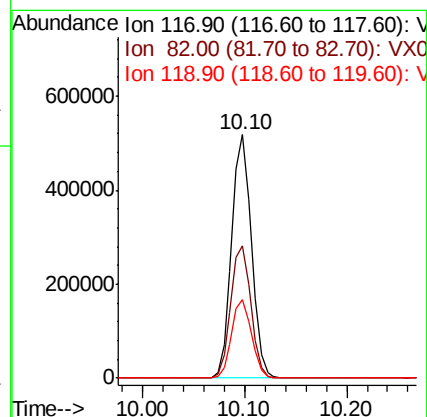
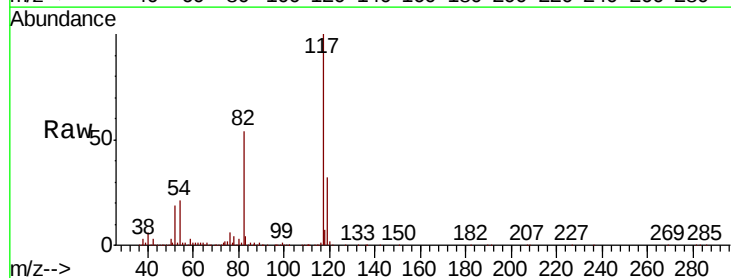
Tgt Ion: 117 Resp: 693236

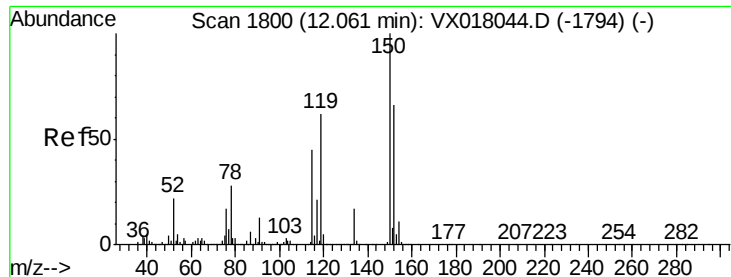
Ion Ratio Lower Upper

117 100

82 54.4 44.2 66.2

119 32.3 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

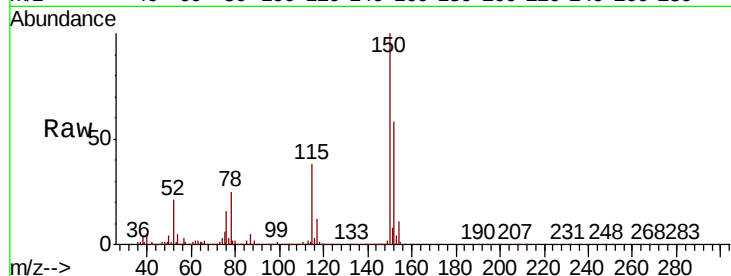
Tot Ion:152 Resp: 330241

Ion Ratio Lower Upper

152 100

115 59.9 41.5 124.5

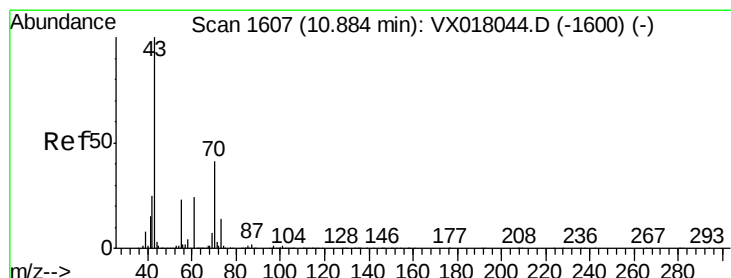
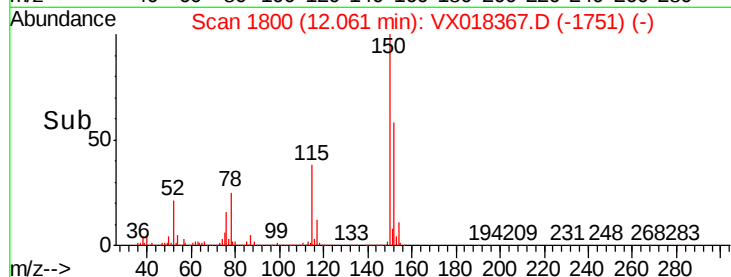
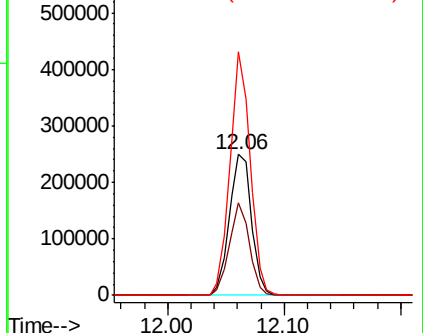
150 158.1 0.0 343.8



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



#74

N-aryl acetate

Concen: 0.530 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.08 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Tgt Ion: 43 Resp: 5473

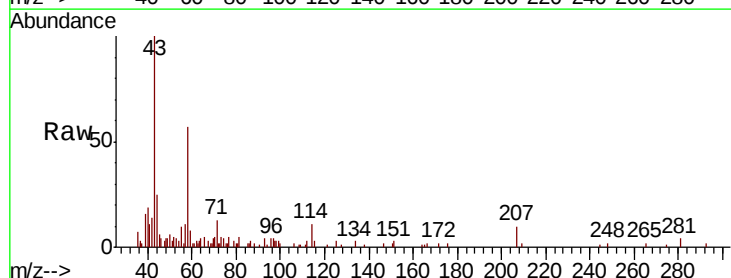
Ion Ratio Lower Upper

43 100

70 5.2 32.3 48.5#

55 10.7 18.2 27.2#

61 0.0 18.9 28.3#

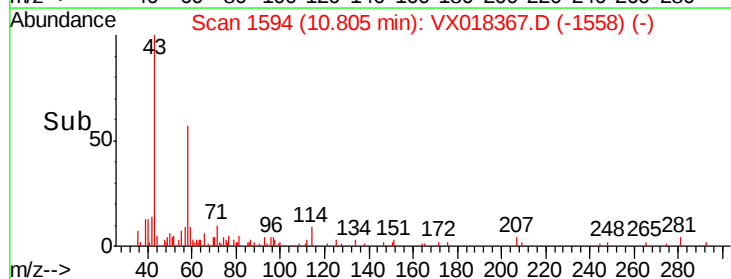
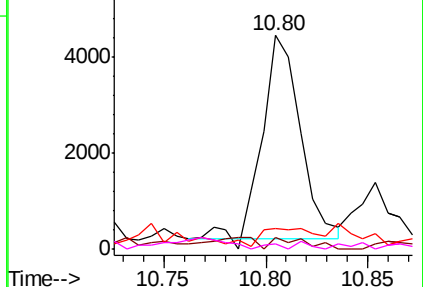


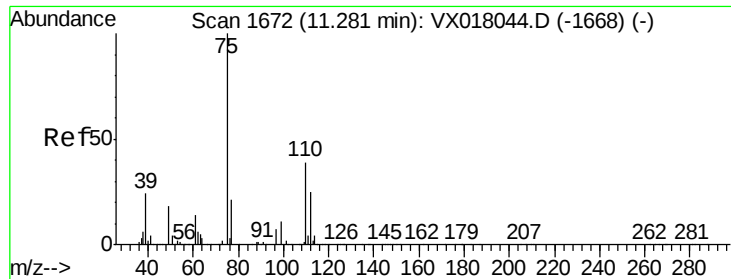
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.929 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018367.D

Acq: 11 Sep 2020 17:44

Instrument :

MSVOA_X

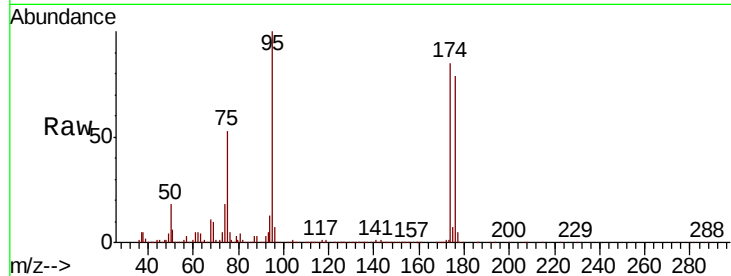
ClientSampleId :

Tot Ion: 75 Resp: 168446

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

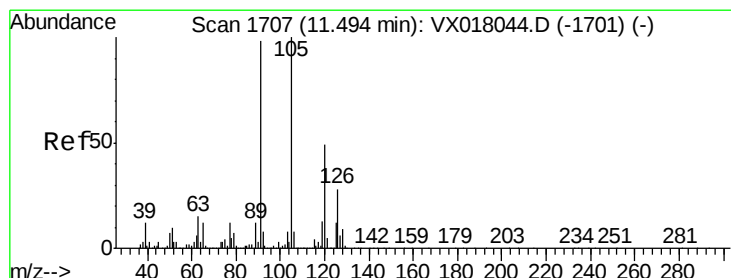
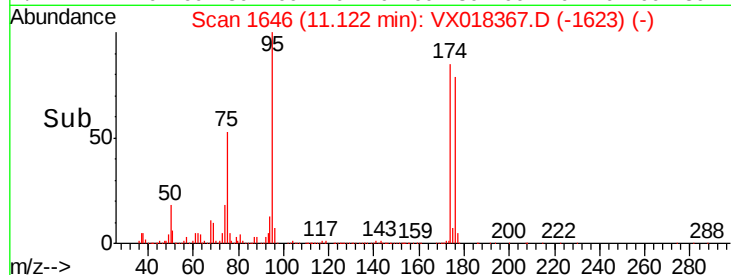
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.302 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX018367.D

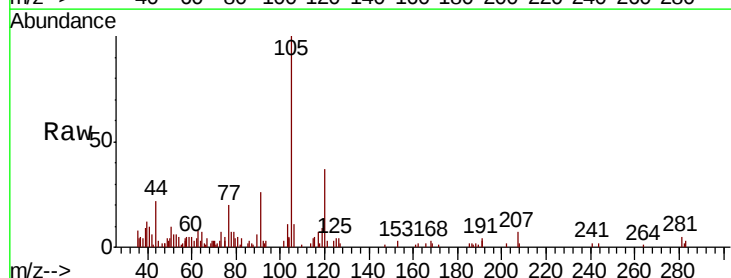
Acq: 11 Sep 2020 17:44

Tgt Ion:105 Resp: 5400

Ion Ratio Lower Upper

105 100

120 44.3 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

5000

4000

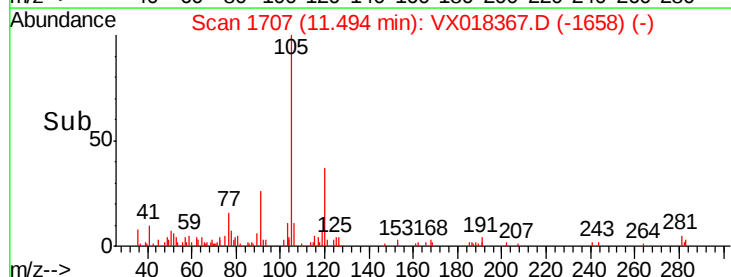
3000

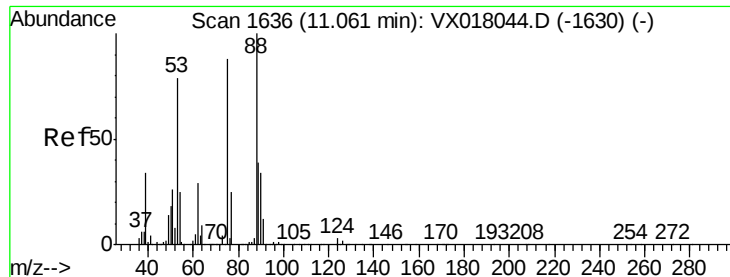
2000

1000

0

Time-->

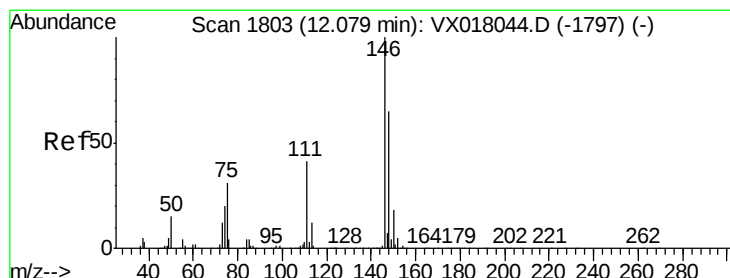
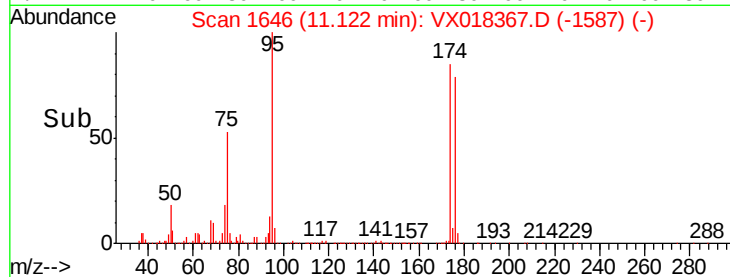
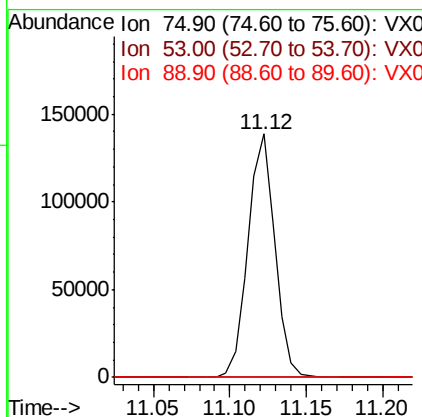
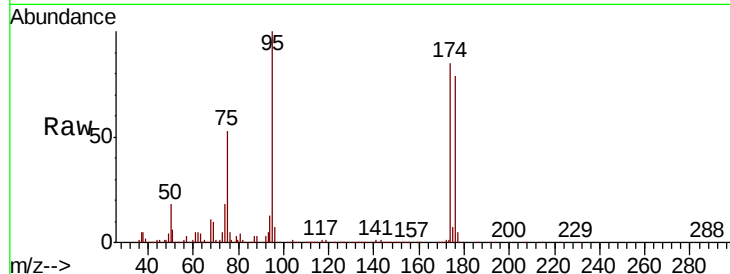




#81
trans-1,4-Dichloro-2-butene
Concen: 61.928 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 168446
Ion Ratio Lower Upper
75 100
53 0.6 74.7 112.1#
89 0.1 36.6 54.8#



#88
1,4-Dichlorobenzene
Concen: 0.207 ug/l
RT: 12.08 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VX018367.D
Acq: 11 Sep 2020 17:44

Tgt Ion: 146 Resp: 2190
Ion Ratio Lower Upper
146 100
111 0.0 20.3 60.8#
148 44.5 33.1 99.2

