

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061319\
 Data File : VX010284.D
 Acq On : 13 Jun 2019 19:43
 Operator : JC/SP
 Sample : K3309-06DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 03:37:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	330512	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	496359	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	440665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210236	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	148294	45.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.94%	
35) Dibromofluoromethane	5.50	113	149848	48.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.88%	
50) Toluene-d8	8.71	98	576843	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
62) 4-Bromofluorobenzene	11.13	95	196716	45.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.80%	

Target Compounds

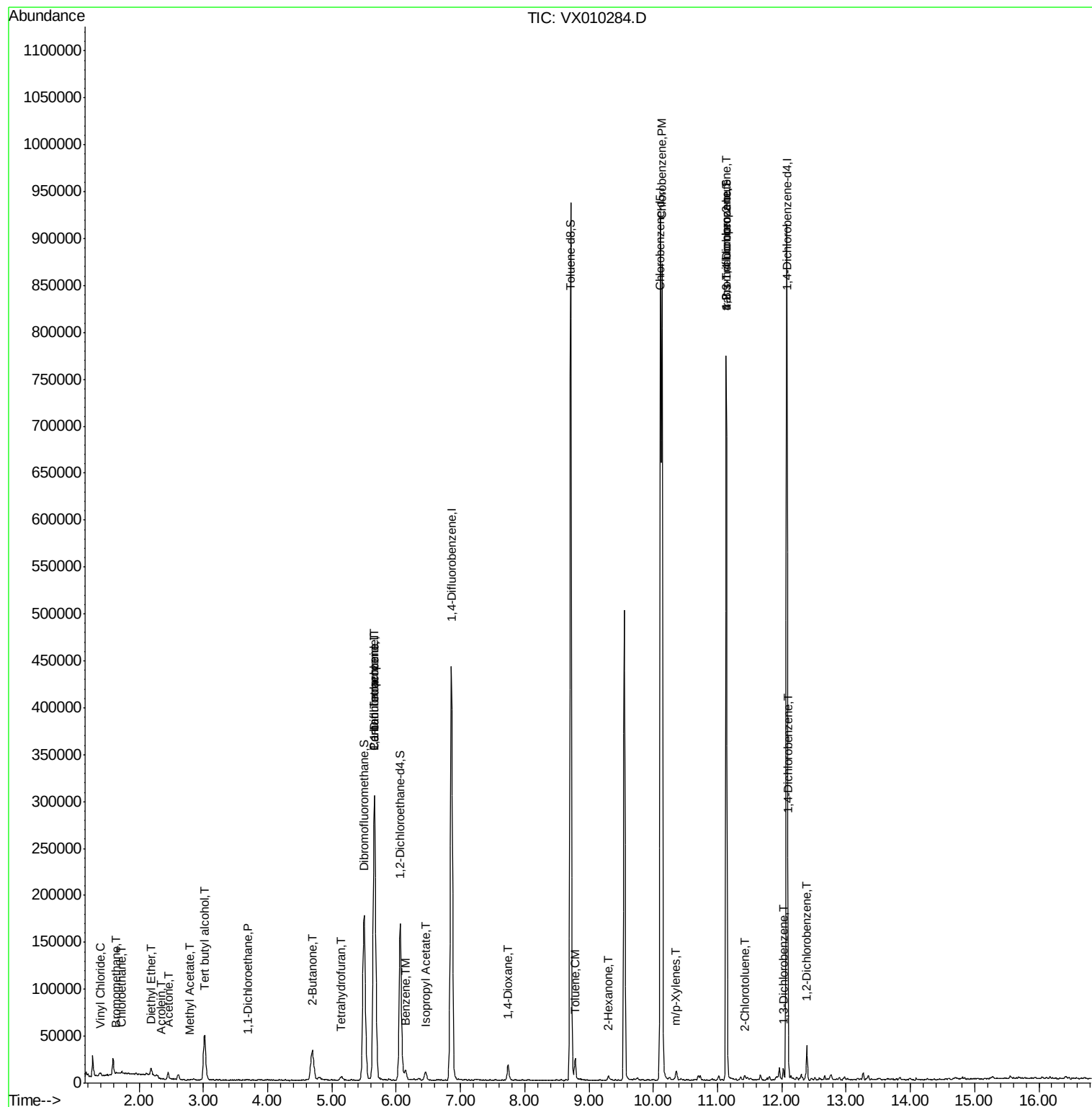
					Qvalue
4) Vinyl Chloride	1.40	62	1025	0.361	ug/l 90
5) Bromomethane	1.65	94	218	0.204	ug/l 84
6) Chloroethane	1.73	64	2566	1.793	ug/l 90
8) Diethyl Ether	2.19	74	2956	2.034	ug/l 73
11) Tert butyl alcohol	3.02	59	31734	40.153	ug/l # 79
13) Acrolein	2.34	56	67	0.465	ug/l # 14
16) Acetone	2.45	43	2699	1.779	ug/l # 81
18) Methyl Acetate	2.78	43	843	0.253	ug/l # 80
24) 1,1-Dichloroethane	3.70	63	1041	0.200	ug/l # 85
25) 2-Butanone	4.70	43	2606	1.153	ug/l # 89
29) Tetrahydrofuran	5.14	42	3365	2.370	ug/l # 70
36) 1,1-Dichloropropene	5.66	75	18773	4.636	ug/l # 53
38) Carbon Tetrachloride	5.67	117	27850	6.076	ug/l # 16
40) Benzene	6.14	78	12174	0.972	ug/l 94
43) Isopropyl Acetate	6.45	43	1684	0.239	ug/l # 73
49) 1,4-Dioxane	7.74	88	14520	154.576	ug/l # 76
52) Toluene	8.79	92	8054	0.978	ug/l 98
59) 2-Hexanone	9.30	43	2590	0.772	ug/l 95
65) Chlorobenzene	10.14	112	397726	43.730	ug/l 100
68) m/p-Xylenes	10.36	106	1991	0.332	ug/l 89
76) 1,2,3-Trichloropropane	11.13	75	91219	21.692	ug/l # 34
79) 2-Chlorotoluene	11.42	91	2116	0.216	ug/l 94
81) trans-1,4-Dichloro-2-buten	11.13	75	91219	47.928	ug/l # 10
87) 1,3-Dichlorobenzene	12.02	146	3128	0.440	ug/l 96
88) 1,4-Dichlorobenzene	12.10	146	21903	3.056	ug/l 92
91) 1,2-Dichlorobenzene	12.39	146	11144	1.613	ug/l 95

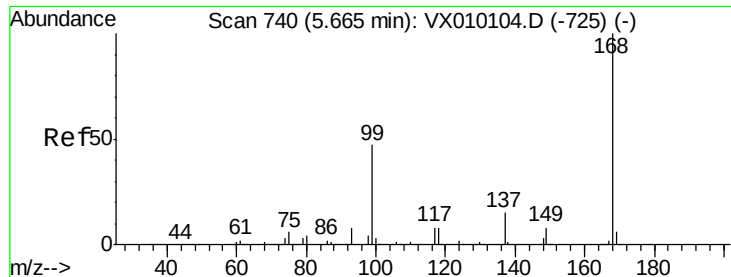
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010284.D

Acq: 13 Jun 2019 19:43

Instrument :

MSVOA_X

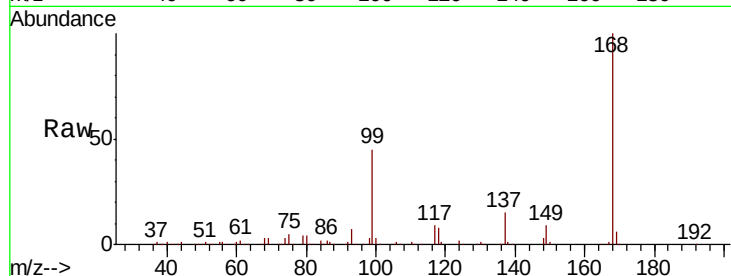
ClientSampleId :

Tot Ion:168 Resp: 330512

Ion Ratio Lower Upper

168 100

99 44.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

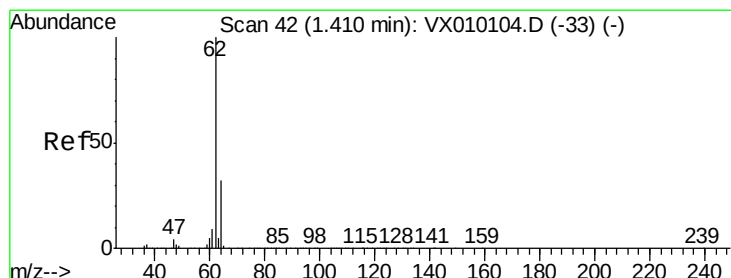
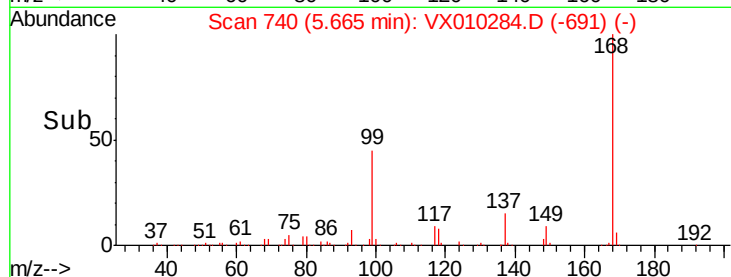
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.361 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX010284.D

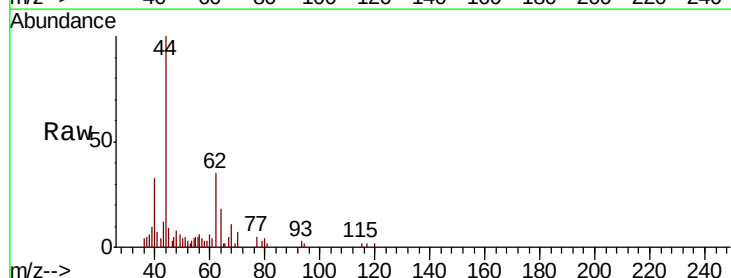
Acq: 13 Jun 2019 19:43

Tgt Ion: 62 Resp: 1025

Ion Ratio Lower Upper

62 100

64 26.7 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

1000

800

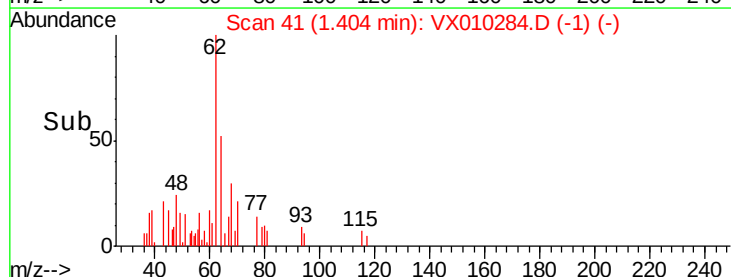
600

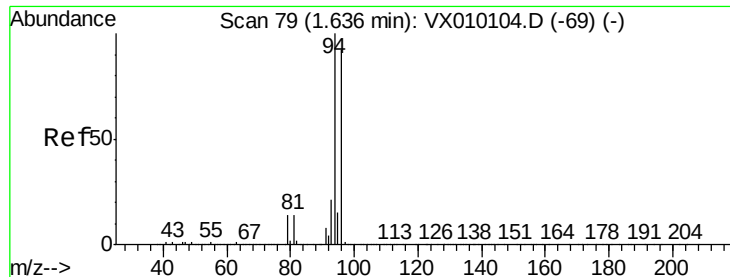
400

200

0

Time--> 1.38 1.40 1.42 1.44





#5

Bromomethane

Concen: 0.204 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010284.D

Acq: 13 Jun 2019 19:43

Instrument :

MSVOA_X

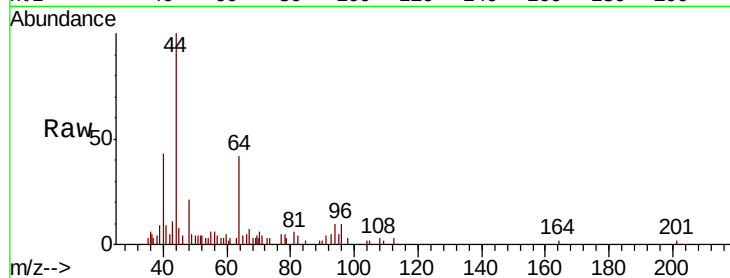
ClientSampled :

Tot Ion: 94 Resp: 218

Ion Ratio Lower Upper

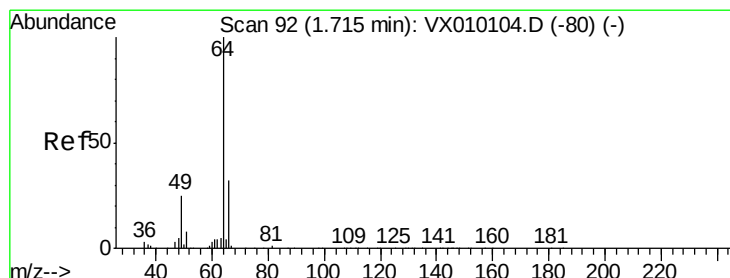
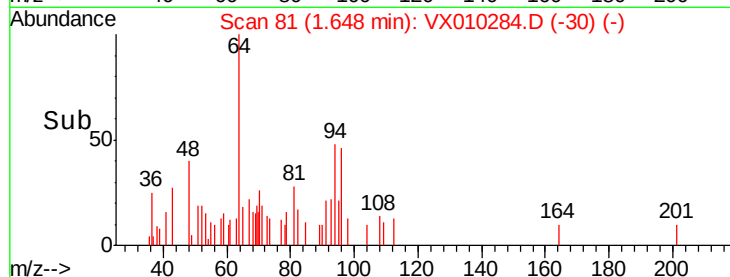
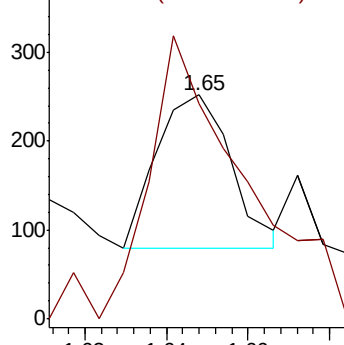
94 100

96 110.5 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.793 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX010284.D

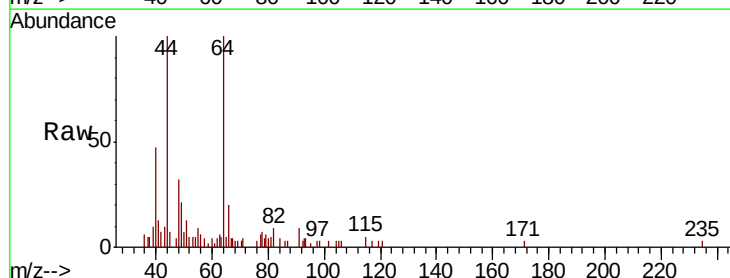
Acq: 13 Jun 2019 19:43

Tgt Ion: 64 Resp: 2566

Ion Ratio Lower Upper

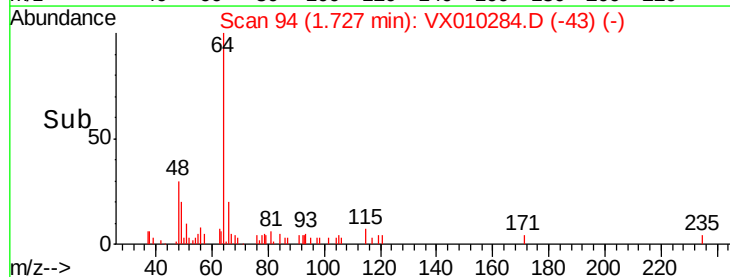
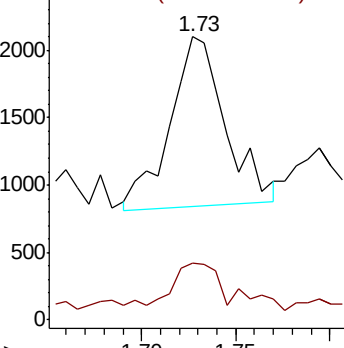
64 100

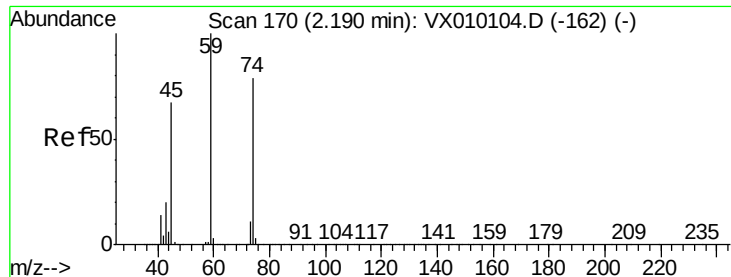
66 25.7 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 2.034 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX010284.D

Acq: 13 Jun 2019 19:43

Instrument :

MSVOA_X

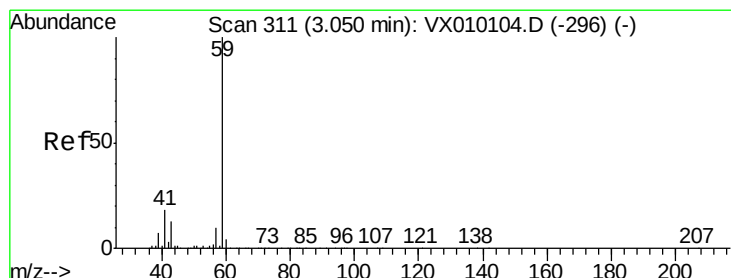
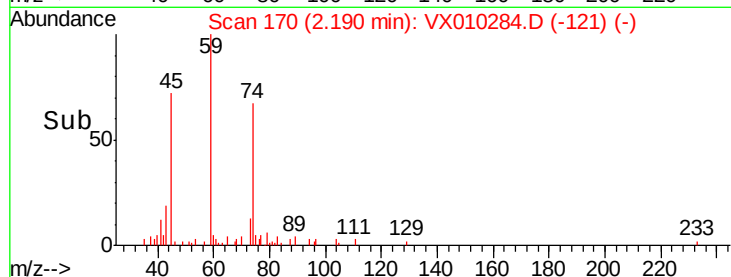
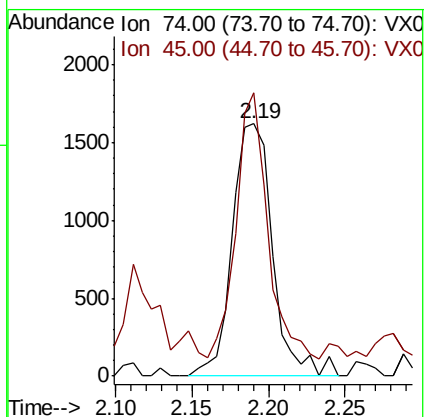
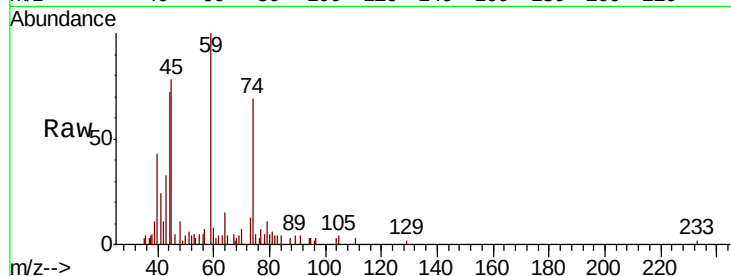
ClientSampled :

Tot Ion: 74 Resp: 2956

Ion Ratio Lower Upper

74 100

45 83.3 56.1 168.3



#11

Tert butyl alcohol

Concen: 40.153 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010284.D

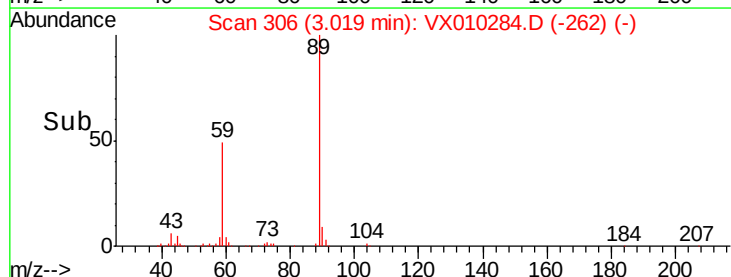
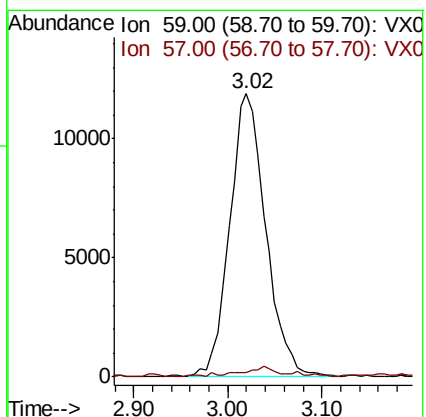
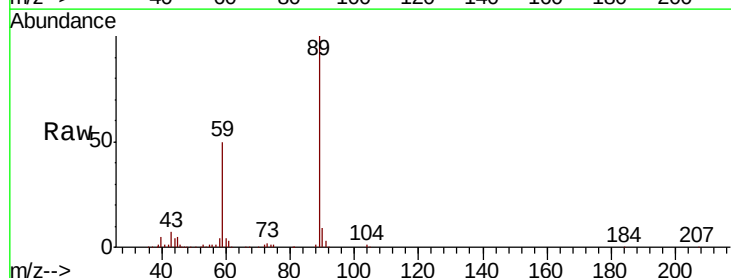
Acq: 13 Jun 2019 19:43

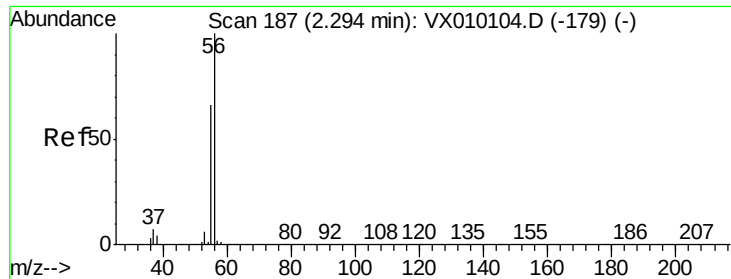
Tgt Ion: 59 Resp: 31734

Ion Ratio Lower Upper

59 100

57 2.5 8.2 12.2#





#13

Acrolein

Concen: 0.465 ug/l

RT: 2.34 min Scan# 195

Delta R.T. 0.05 min

Lab File: VX010284.D

Acq: 13 Jun 2019 19:43

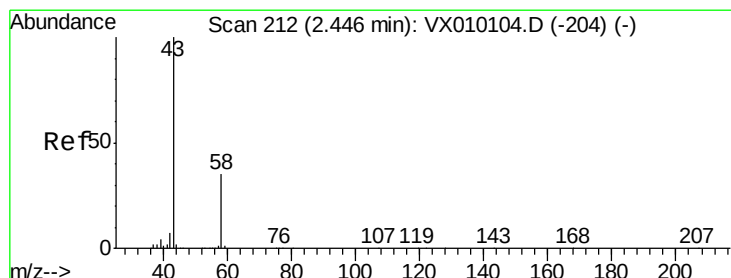
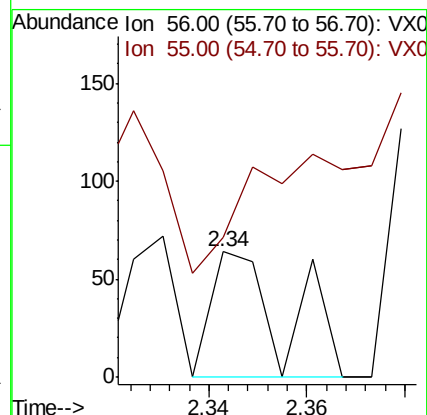
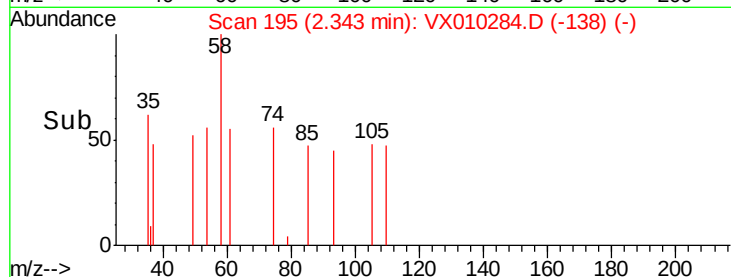
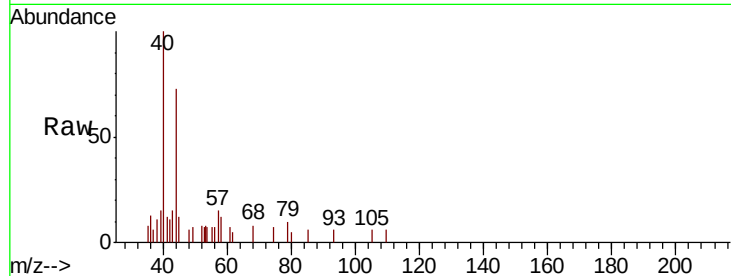
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 1.779 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010284.D

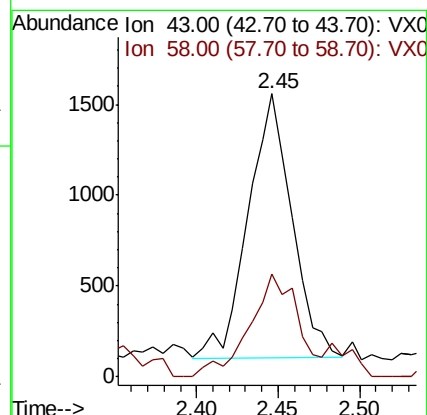
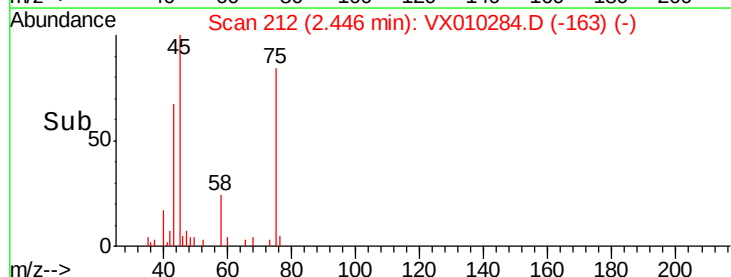
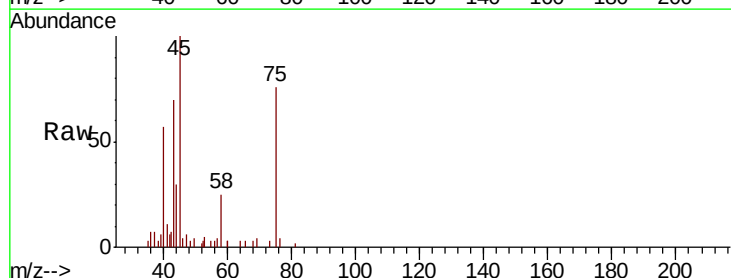
Acq: 13 Jun 2019 19:43

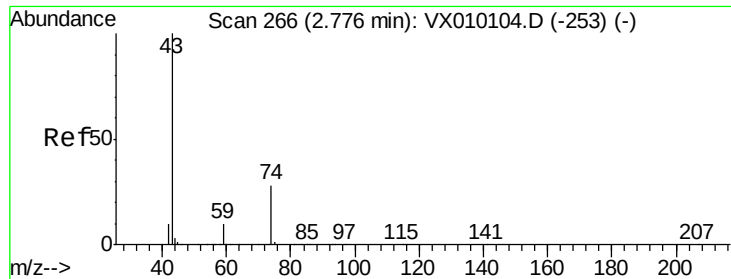
Tgt Ion: 43 Resp: 2699

Ion Ratio Lower Upper

43 100

58 39.2 23.2 34.8#

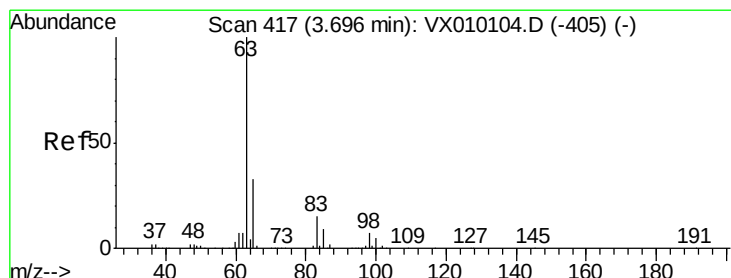
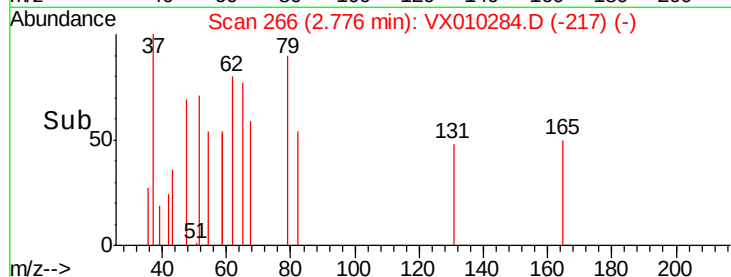
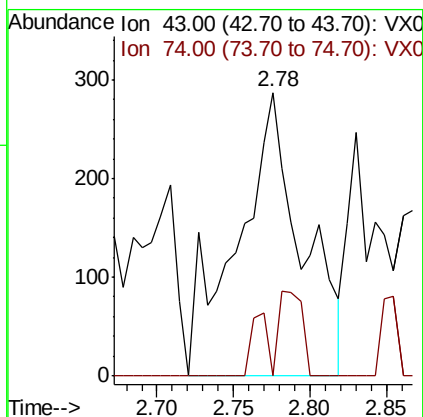
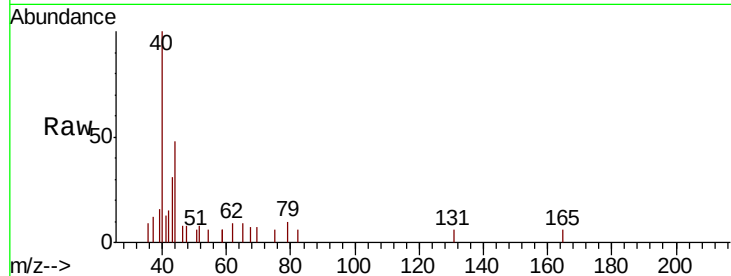




#18
Methyl Acetate
Concen: 0.253 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

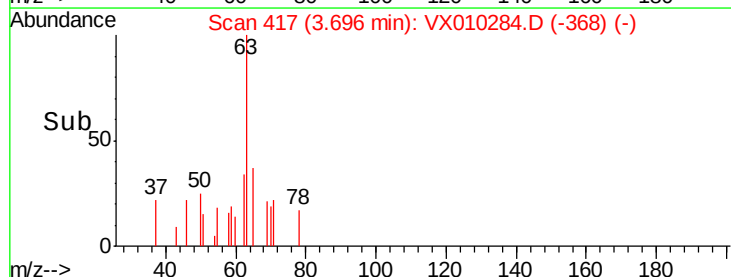
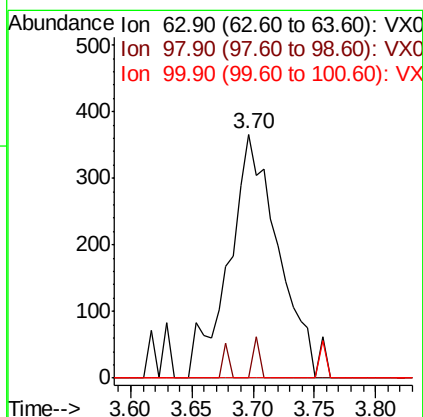
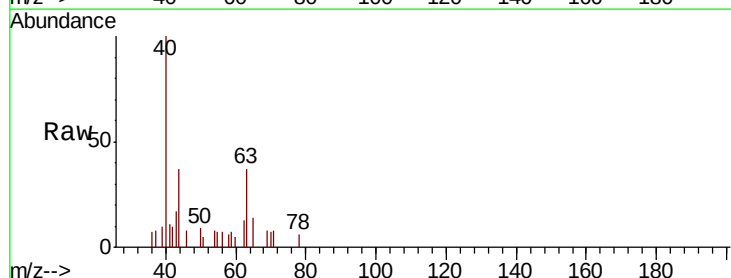
Instrument :
MSVOA_X
ClientSampled :

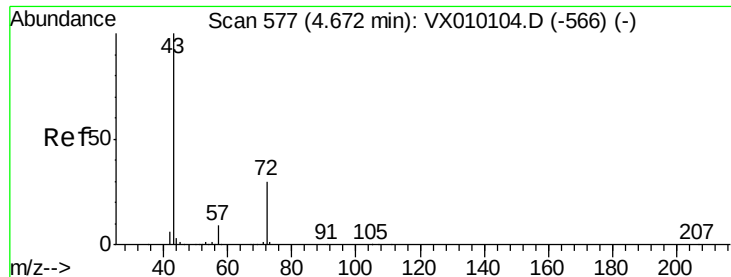
Tot Ion: 43 Resp: 843
Ion Ratio Lower Upper
43 100
74 10.7 15.8 23.6#



#24
1,1-Dichloroethane
Concen: 0.200 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Tgt Ion: 63 Resp: 1041
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.8#
100 0.0 1.8 5.4#

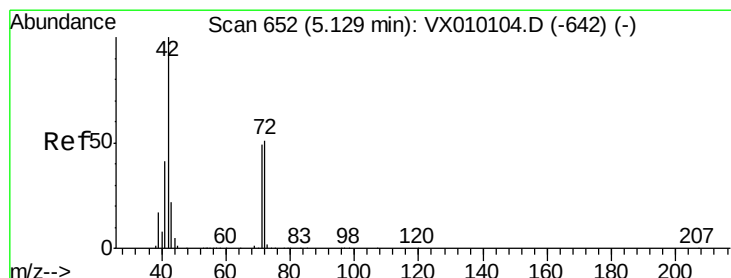
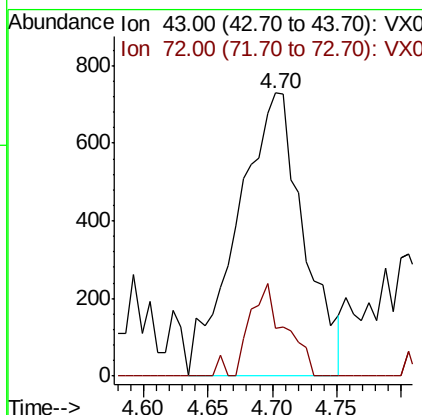
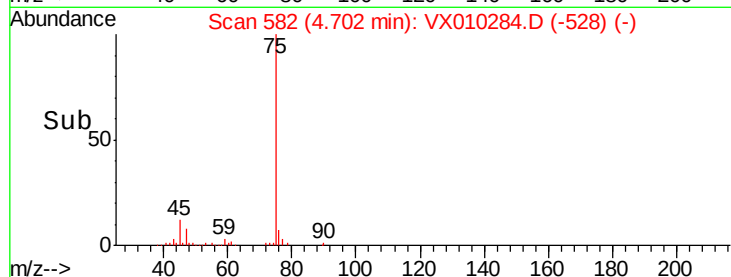
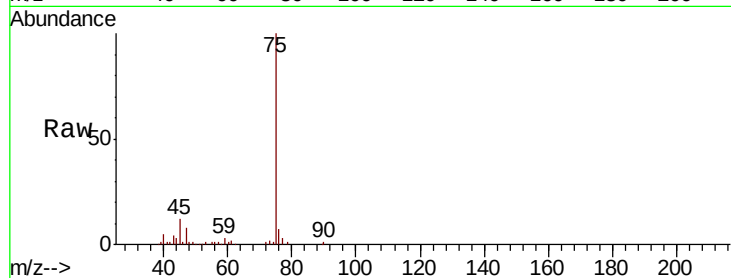




#25
2-Butanone
Concen: 1.153 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.03 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

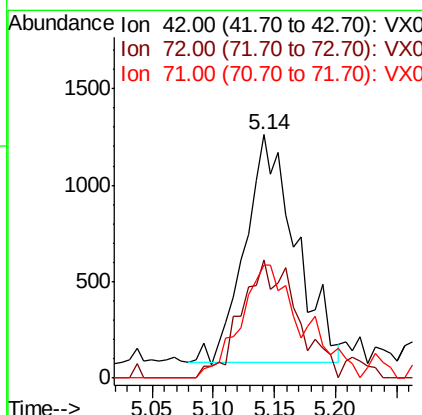
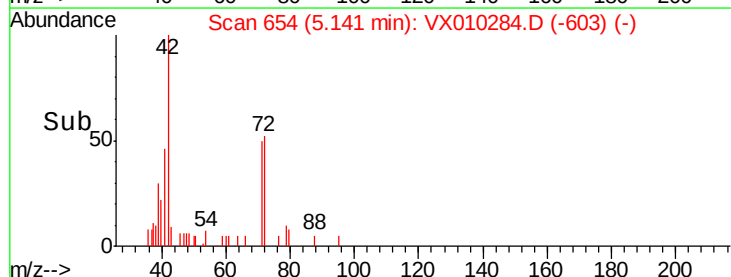
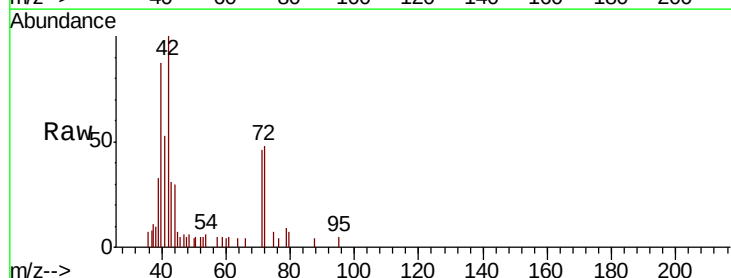
Instrument :
MSVOA_X
ClientSampleId :

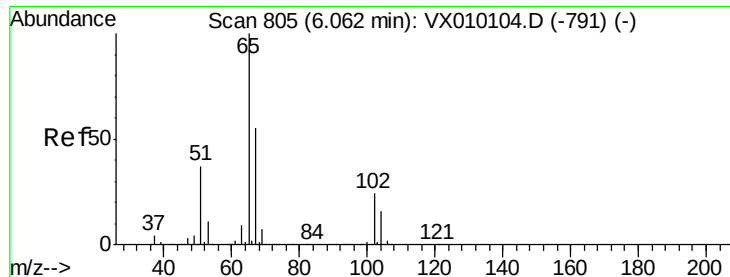
Tot Ion: 43 Resp: 2606
Ion Ratio Lower Upper
43 100
72 16.9 17.5 26.3#



#29
Tetrahydrofuran
Concen: 2.370 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Tgt Ion: 42 Resp: 3365
Ion Ratio Lower Upper
42 100
72 57.3 29.2 43.8#
71 48.4 27.6 41.4#

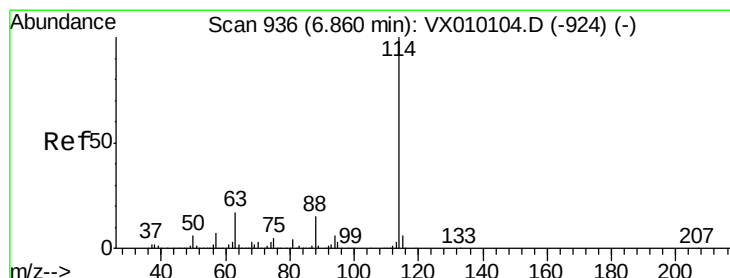
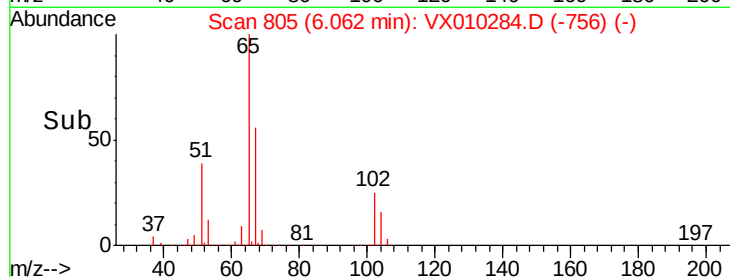
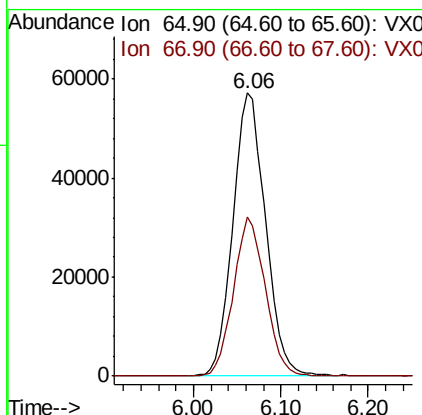
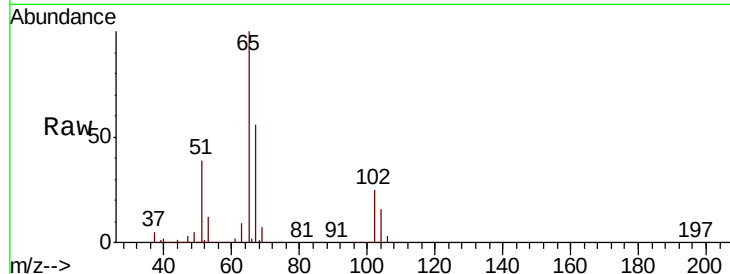




#33
 1,2-Dichloroethane-d4
 Concen: 45.966 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010284.D
 Acq: 13 Jun 2019 19:43

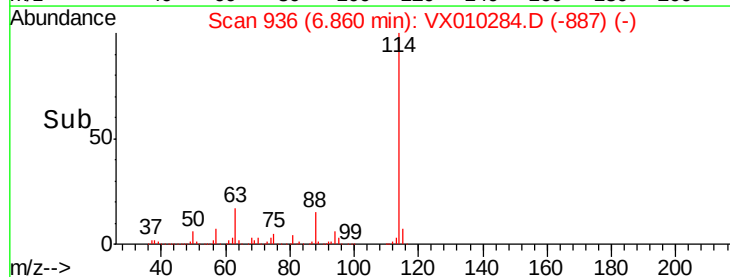
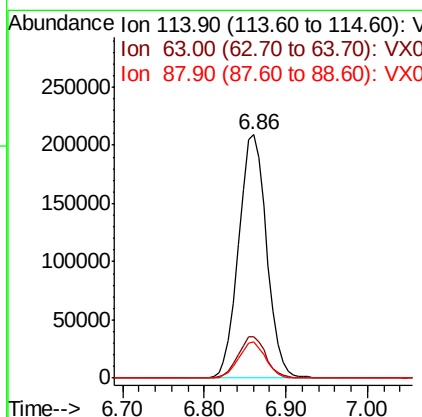
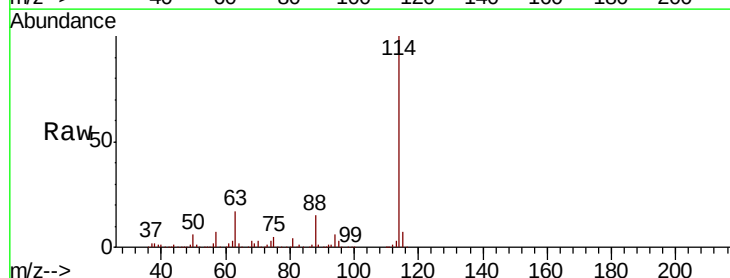
Instrument :
 MSVOA_X
 ClientSampleId :

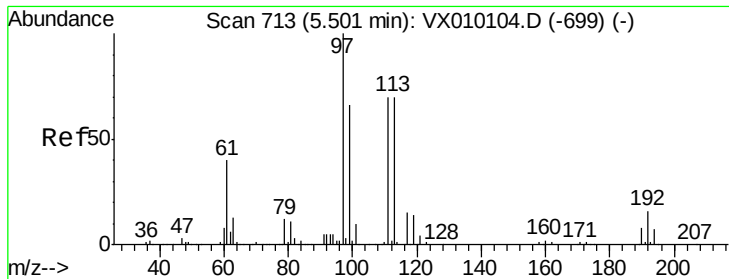
Tot Ion: 65 Resp: 148294
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010284.D
 Acq: 13 Jun 2019 19:43

Tgt Ion: 114 Resp: 496359
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 47.4
 88 14.8 0.0 33.0

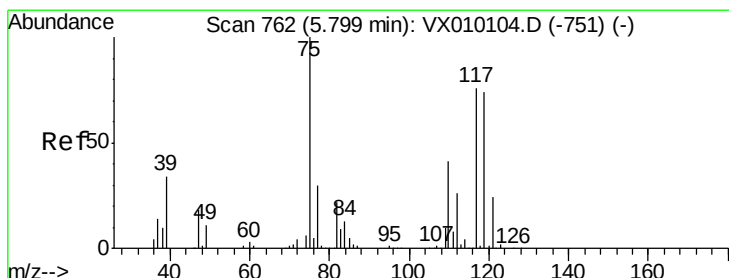
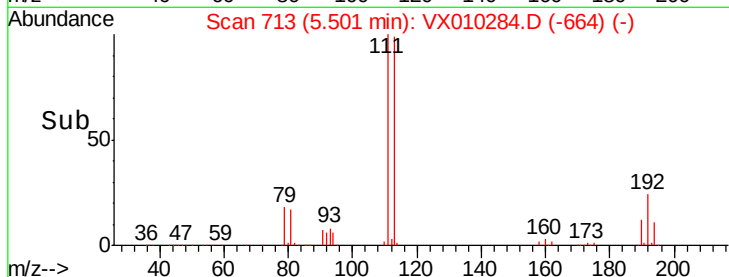
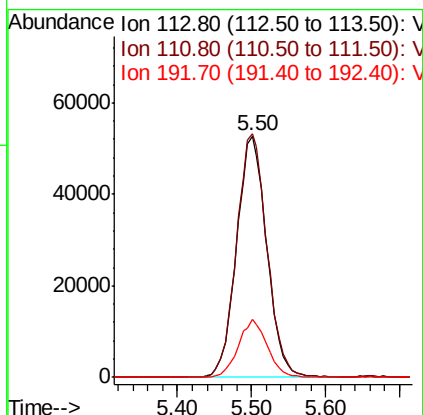
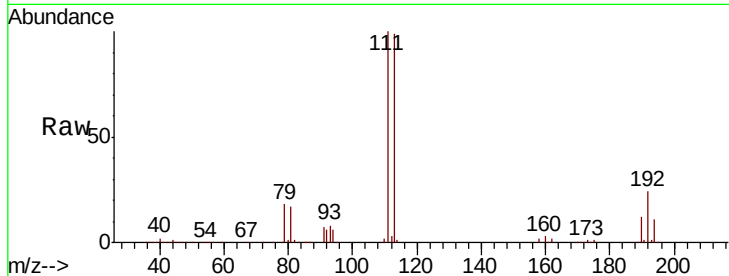




#35
Dibromofluoromethane
Concen: 48.943 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

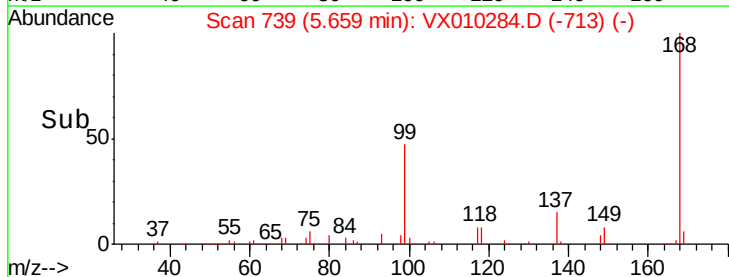
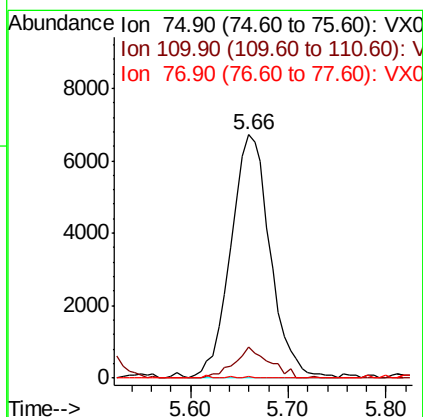
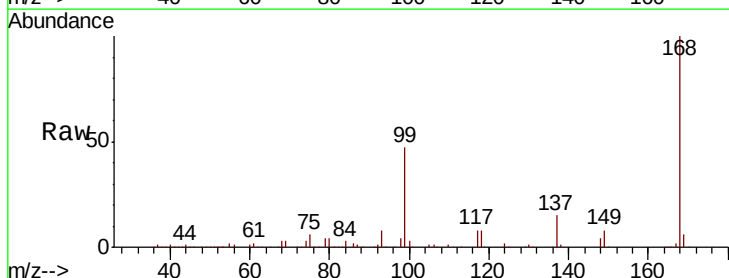
Instrument :
MSVOA_X
ClientSampleId :

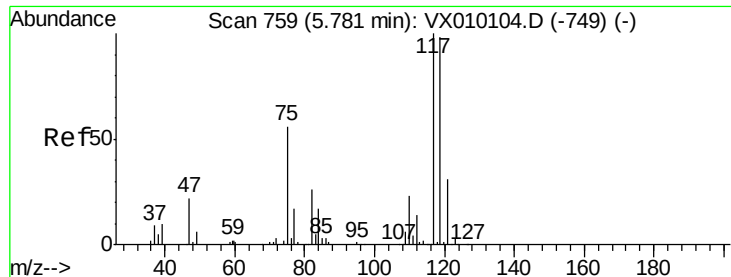
Tot Ion:113 Resp: 149848
Ion Ratio Lower Upper
113 100
111 102.0 82.2 123.2
192 23.0 17.1 25.7



#36
1,1-Dichloropropene
Concen: 4.636 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.14 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Tgt Ion: 75 Resp: 18773
Ion Ratio Lower Upper
75 100
110 11.3 16.7 50.1#
77 0.1 25.0 37.4#

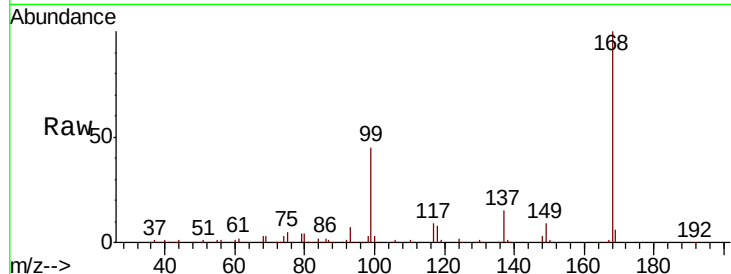




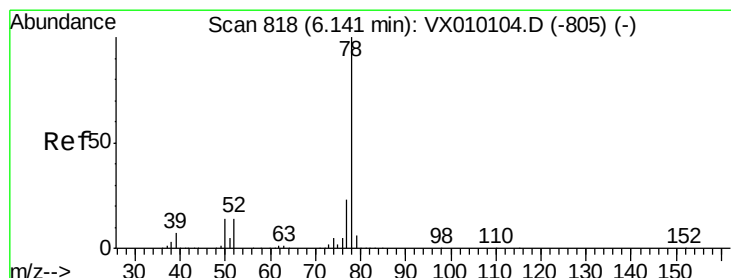
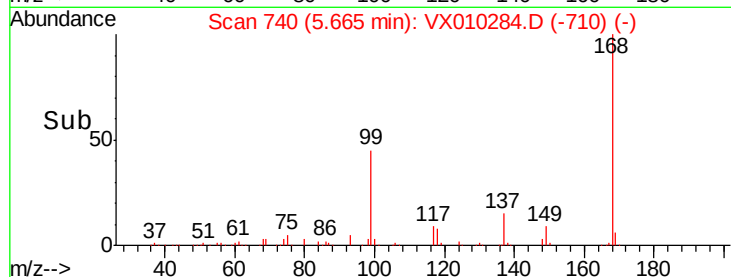
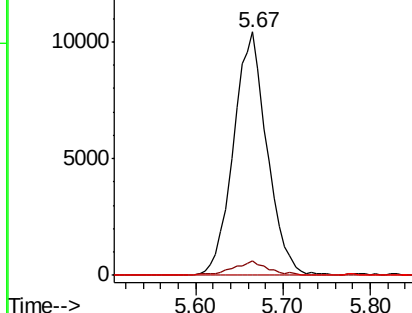
#38
Carbon Tetrachloride
Concen: 6.076 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 27850
Ion Ratio Lower Upper
117 100
119 5.7 77.3 115.9#
121 0.0 25.4 38.0#

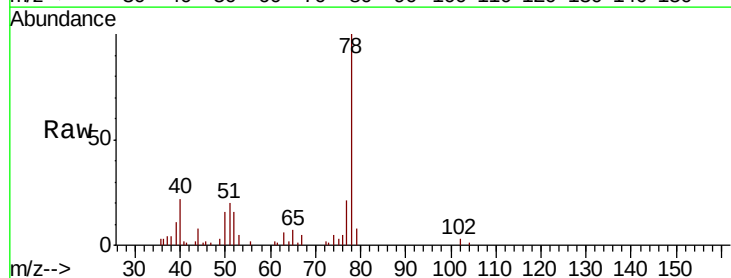


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

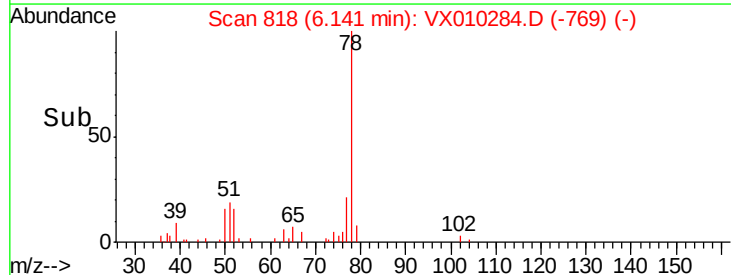
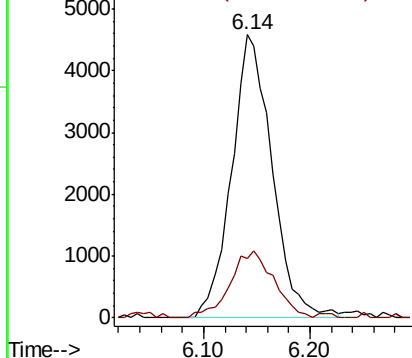


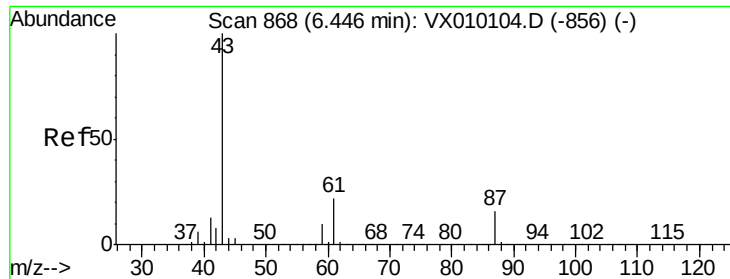
#40
Benzene
Concen: 0.972 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Tgt Ion: 78 Resp: 12174
Ion Ratio Lower Upper
78 100
77 20.9 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 0.239 ug/l

RT: 6.45 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX010284.D

Acq: 13 Jun 2019 19:43

Instrument :

MSVOA_X

ClientSampled :

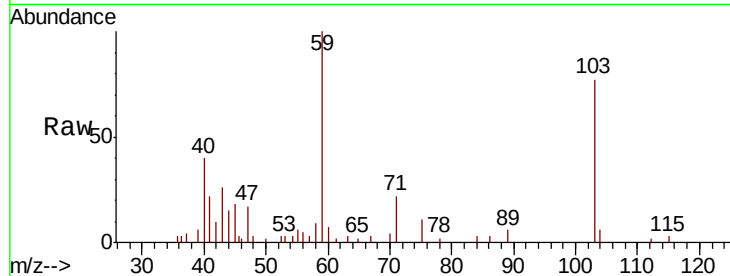
Tot Ion: 43 Resp: 1684

Ion Ratio Lower Upper

43 100

61 6.8 14.6 21.8#

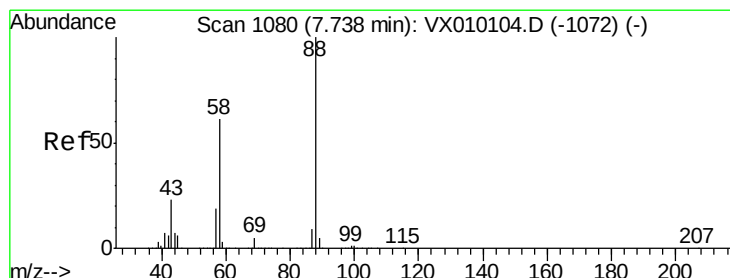
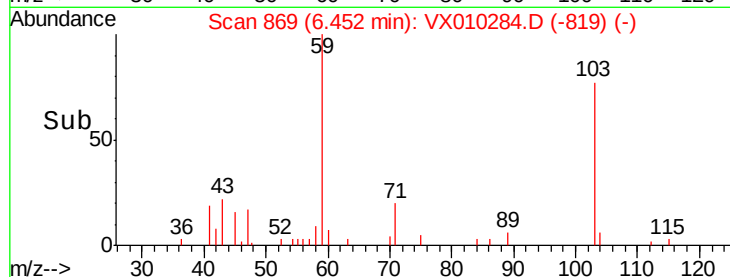
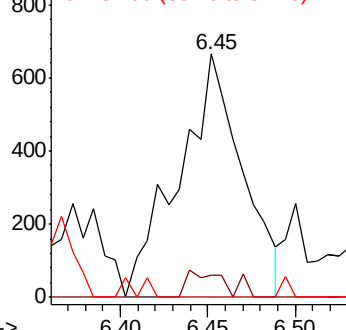
87 0.0 8.7 13.1#



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



#49

1,4-Dioxane

Concen: 154.576 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VX010284.D

Acq: 13 Jun 2019 19:43

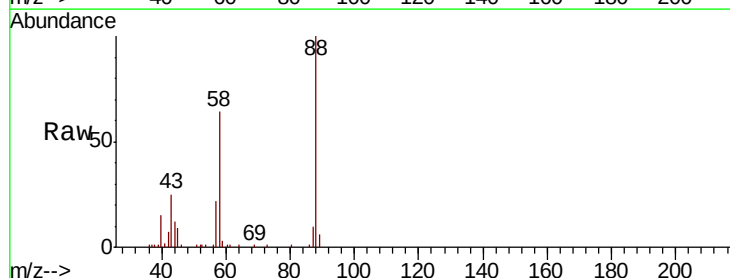
Tgt Ion: 88 Resp: 14520

Ion Ratio Lower Upper

88 100

43 19.7 30.2 45.4#

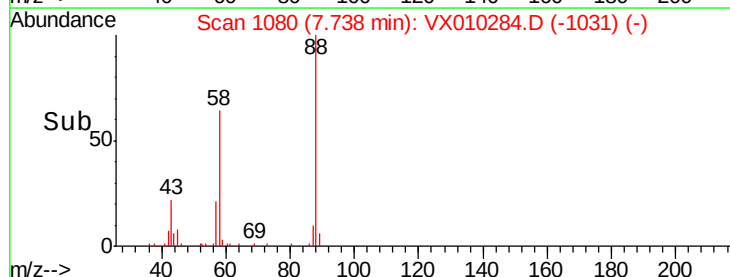
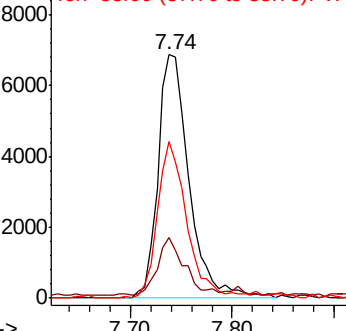
58 61.0 64.0 96.0#

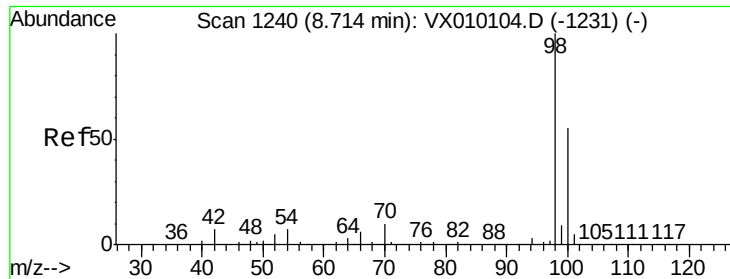


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.271 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010284.D

Acq: 13 Jun 2019 19:43

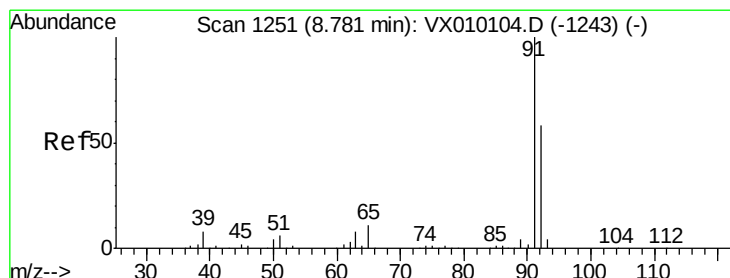
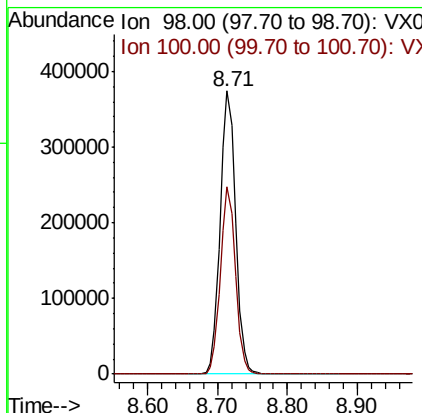
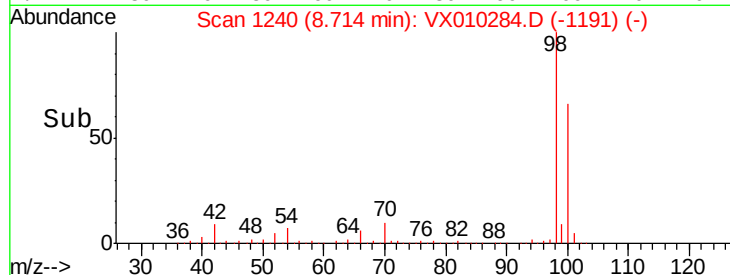
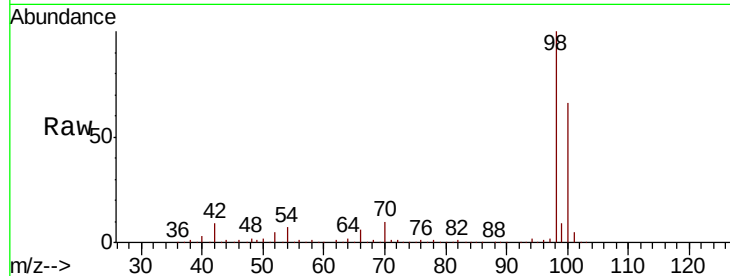
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 576843

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3



#52

Toluene

Concen: 0.978 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX010284.D

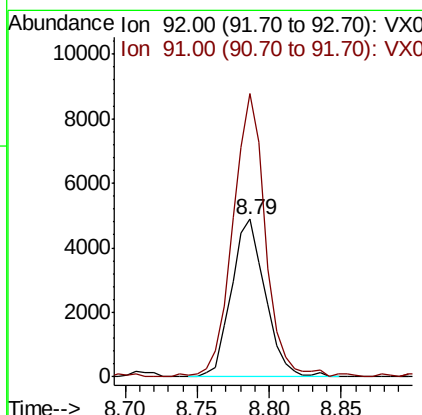
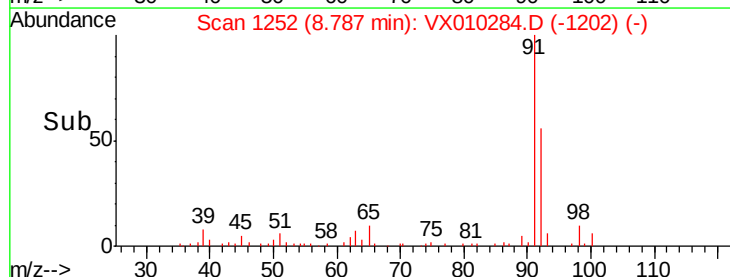
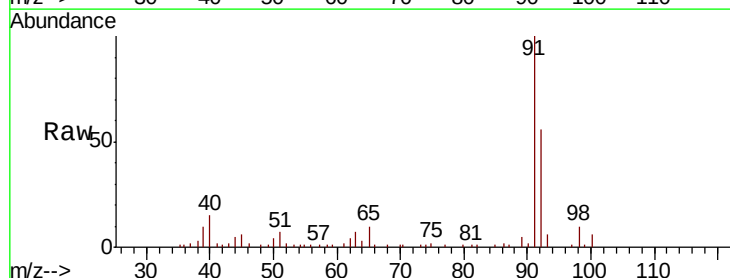
Acq: 13 Jun 2019 19:43

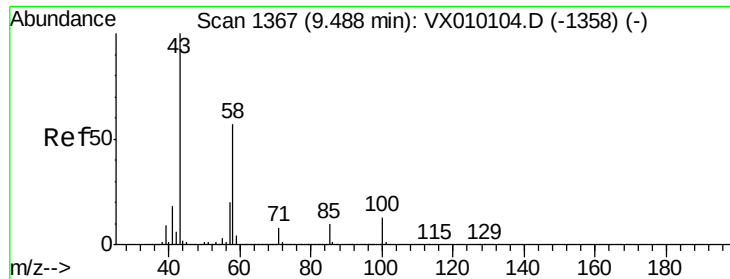
Tgt Ion: 92 Resp: 8054

Ion Ratio Lower Upper

92 100

91 172.0 139.9 209.9

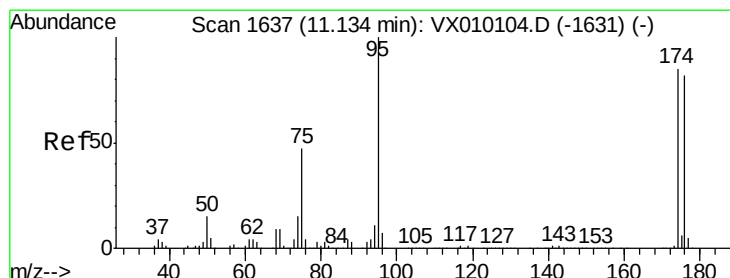
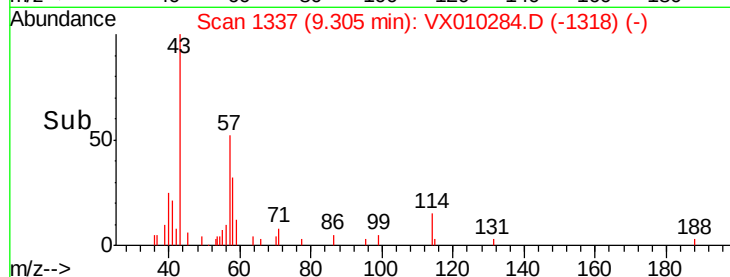
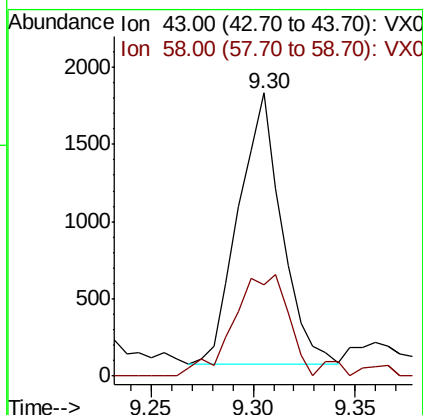
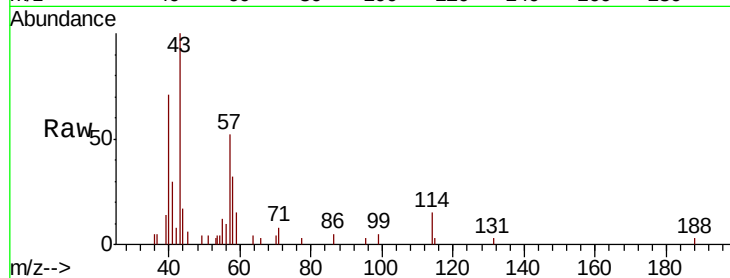




#59
2-Hexanone
Concen: 0.772 ug/l
RT: 9.30 min Scan# 1337
Delta R.T. -0.18 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

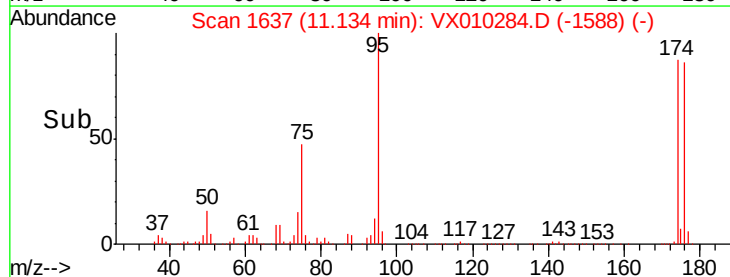
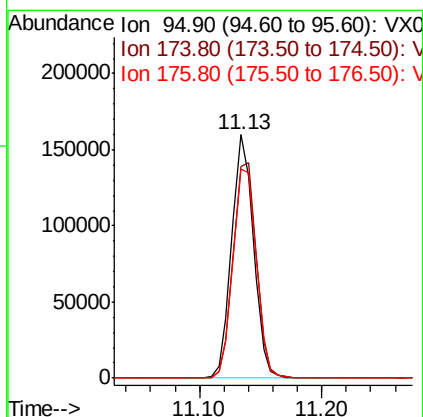
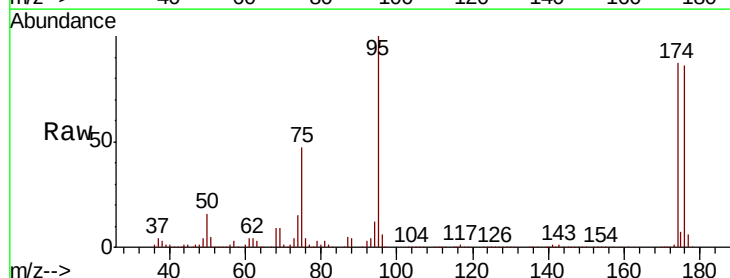
Instrument :
MSVOA_X
ClientSampleId :

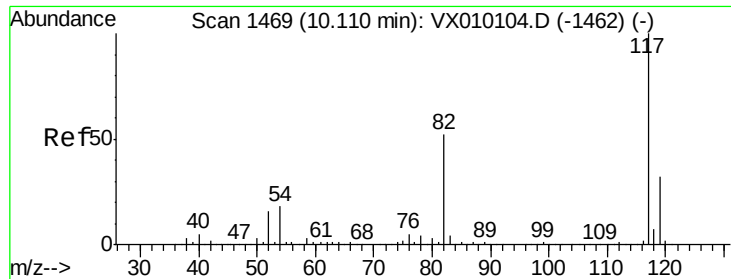
Tot Ion: 43 Resp: 2590
Ion Ratio Lower Upper
43 100
58 46.9 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 45.905 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Tgt Ion: 95 Resp: 196716
Ion Ratio Lower Upper
95 100
174 94.2 0.0 160.4
176 92.1 0.0 154.6

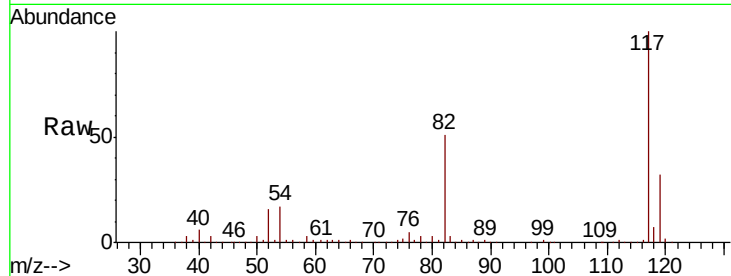




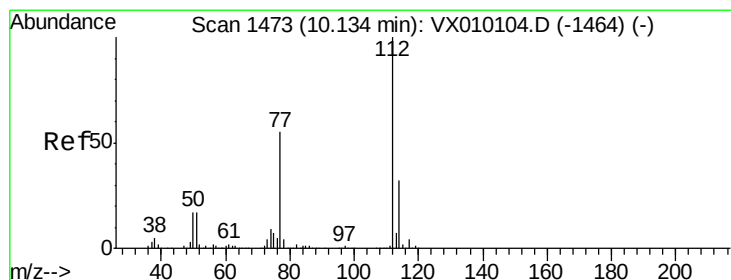
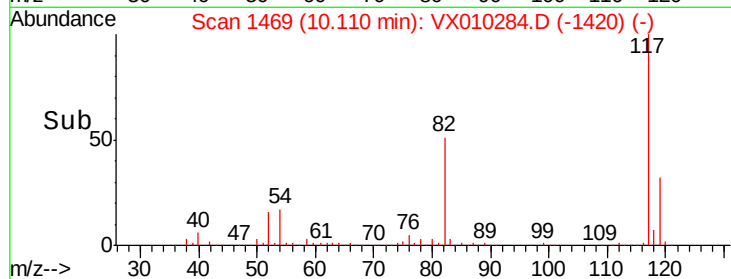
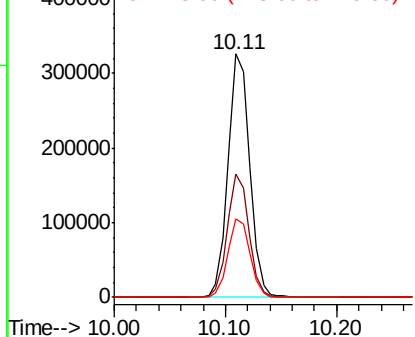
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 440665
Ion Ratio Lower Upper
117 100
82 50.7 49.2 73.8
119 32.2 25.2 37.8

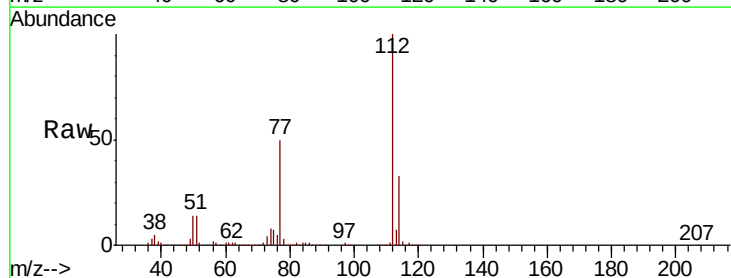


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

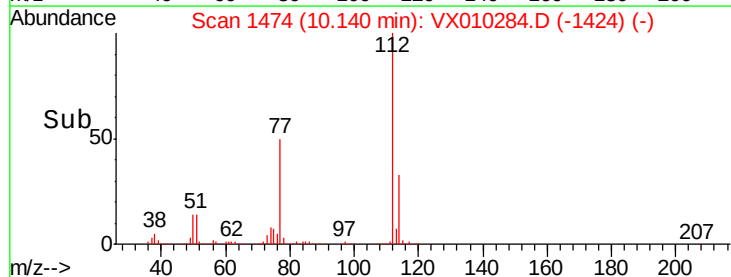
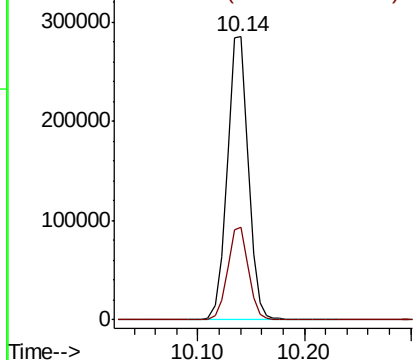


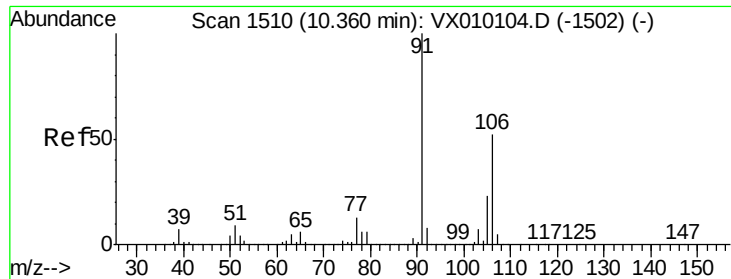
#65
Chlorobenzene
Concen: 43.730 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Tgt Ion:112 Resp: 397726
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

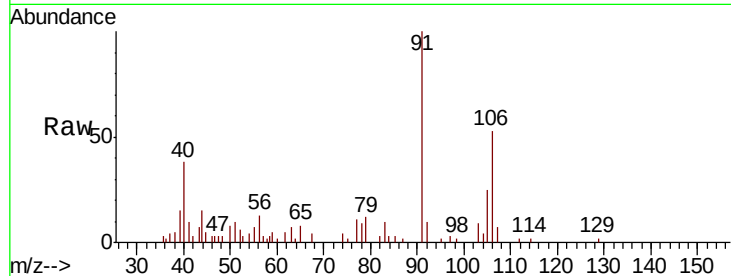




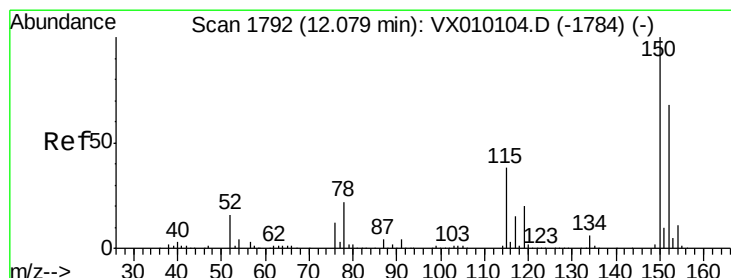
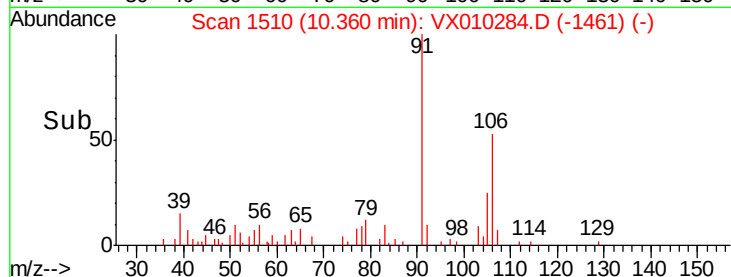
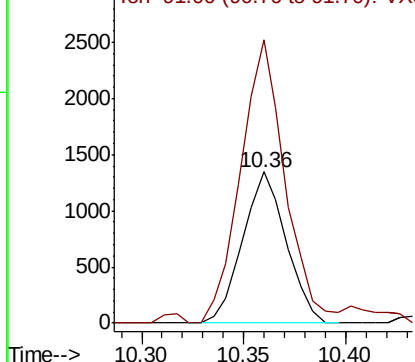
#68
m/p-Xvlenes
Concen: 0.332 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:106 Resp: 1991
Ion Ratio Lower Upper
106 100
91 192.2 167.3 250.9

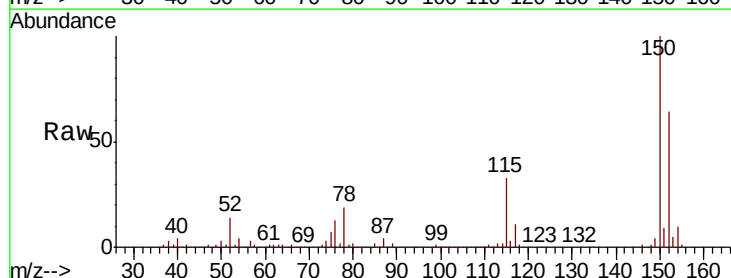


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

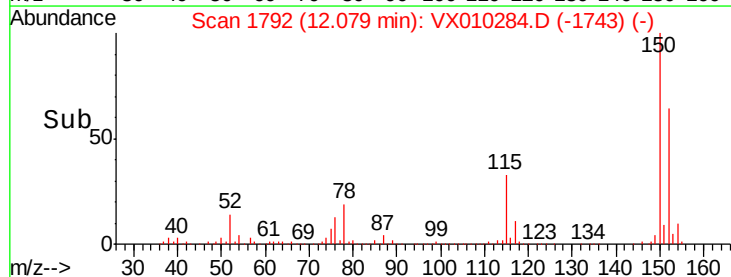
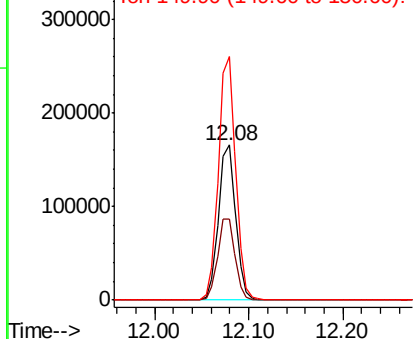


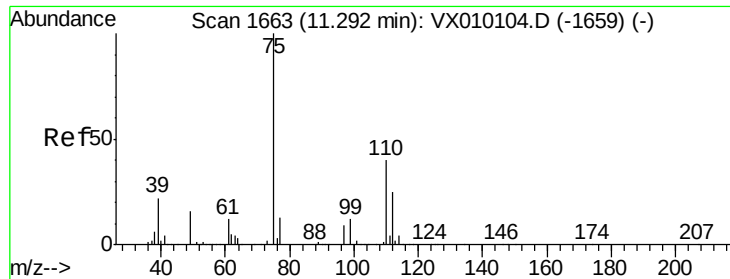
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Tgt Ion:152 Resp: 210236
Ion Ratio Lower Upper
152 100
115 53.2 41.4 124.2
150 156.8 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

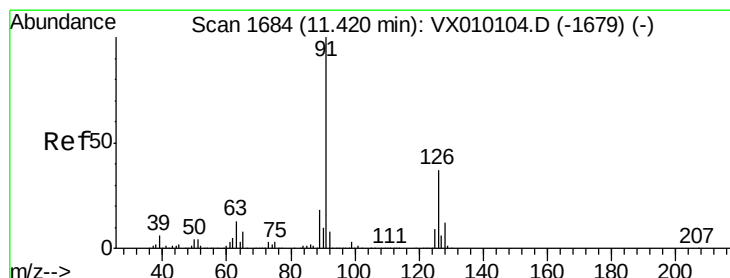
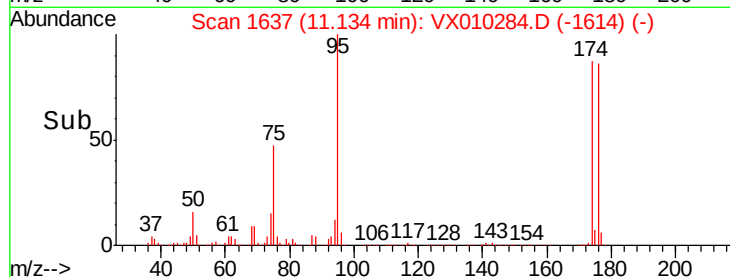
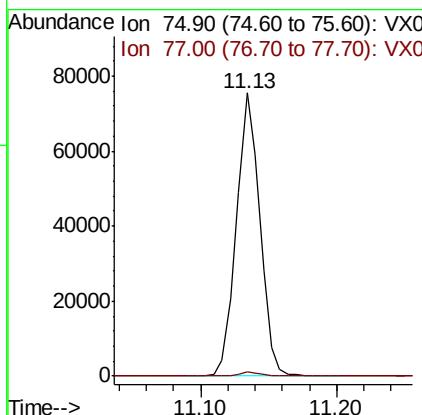
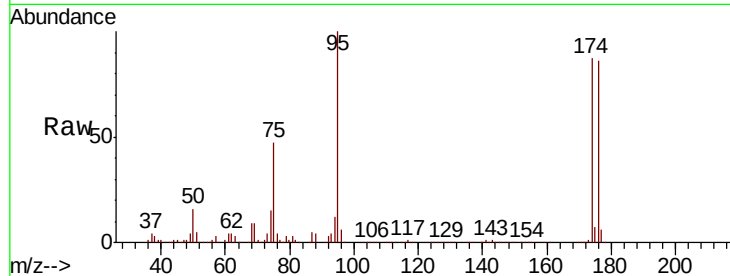




#76
 1,2,3-Trichloropropane
 Concen: 21.692 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010284.D
 Acq: 13 Jun 2019 19:43

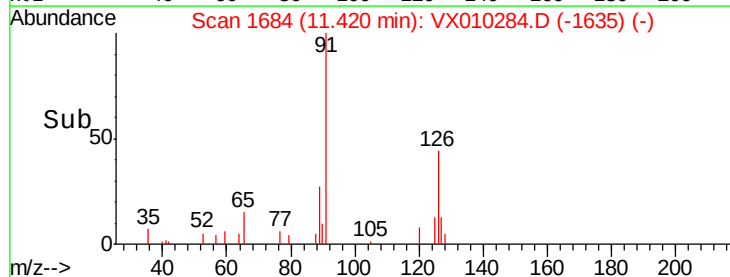
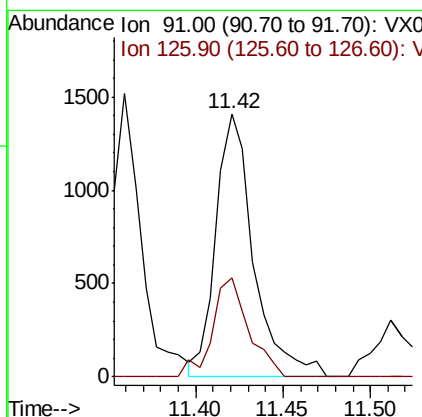
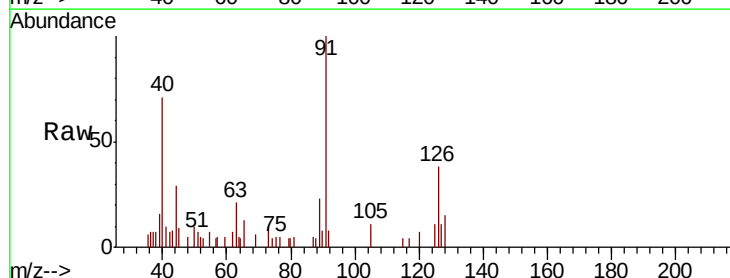
Instrument :
 MSVOA_X
 ClientSampleId :

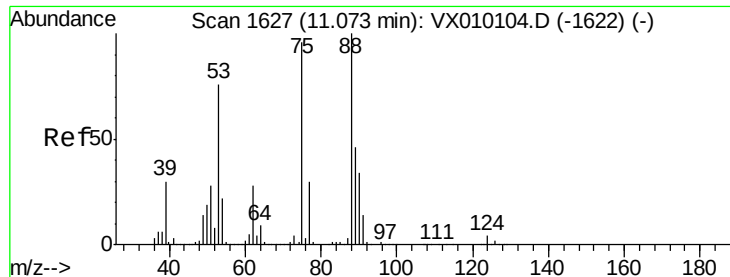
Tot Ion: 75 Resp: 91219
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#79
 2-Chlorotoluene
 Concen: 0.216 ug/l
 RT: 11.42 min Scan# 1684
 Delta R.T. 0.00 min
 Lab File: VX010284.D
 Acq: 13 Jun 2019 19:43

Tgt Ion: 91 Resp: 2116
 Ion Ratio Lower Upper
 91 100
 126 35.8 16.1 48.3

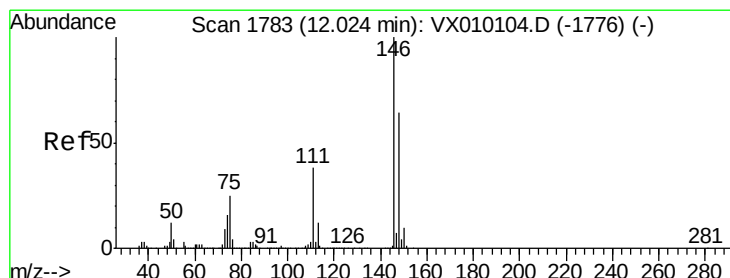
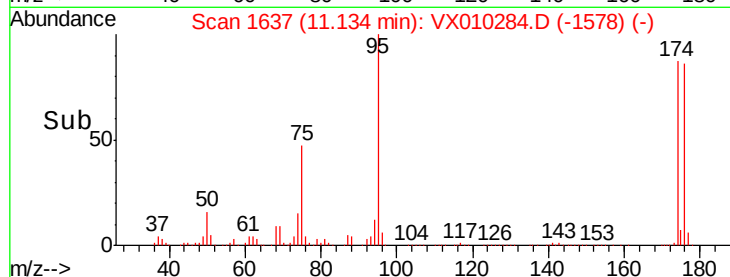
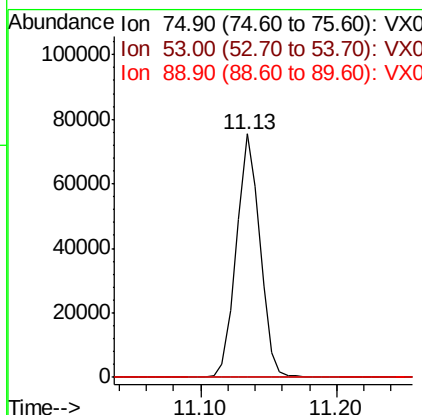
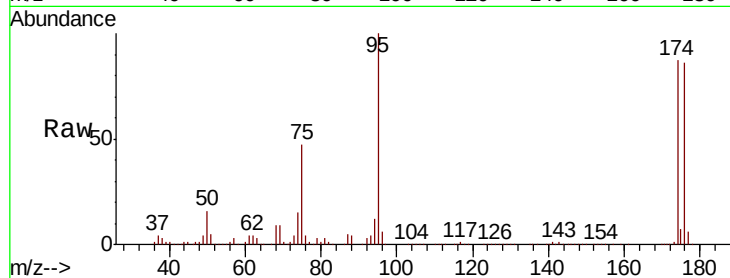




#81
trans-1,4-Dichloro-2-butene
Concen: 47.928 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

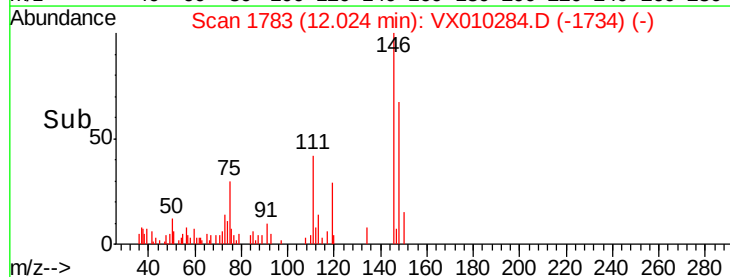
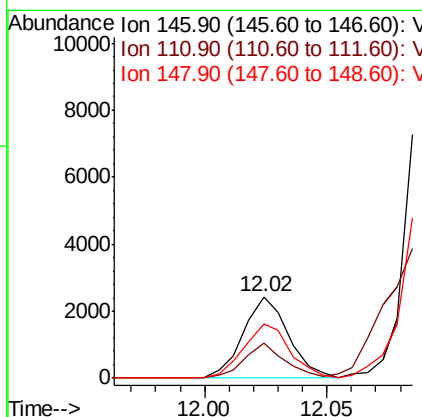
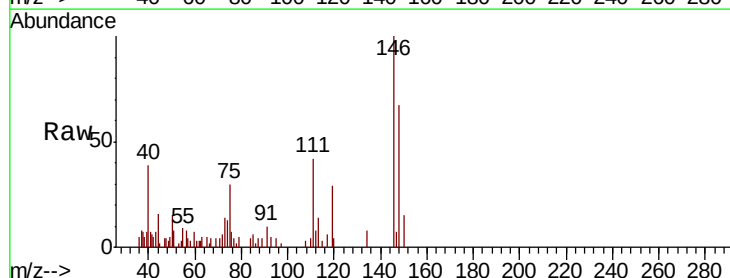
Instrument :
MSVOA_X
ClientSampled :

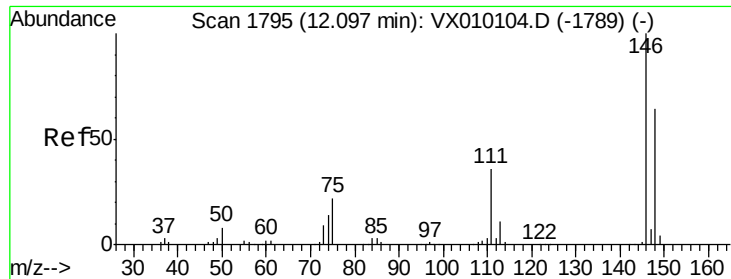
Tot Ion: 75 Resp: 91219
Ion Ratio Lower Upper
75 100
53 0.1 79.8 119.6#
89 0.1 34.2 51.4#



#87
1,3-Dichlorobenzene
Concen: 0.440 ug/l
RT: 12.02 min Scan# 1783
Delta R.T. 0.00 min
Lab File: VX010284.D
Acq: 13 Jun 2019 19:43

Tgt Ion: 146 Resp: 3128
Ion Ratio Lower Upper
146 100
111 38.8 20.1 60.2
148 67.6 31.9 95.5

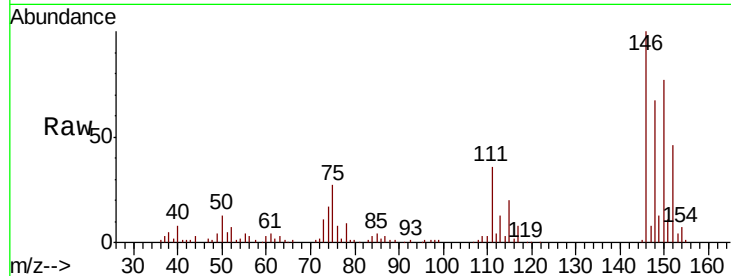




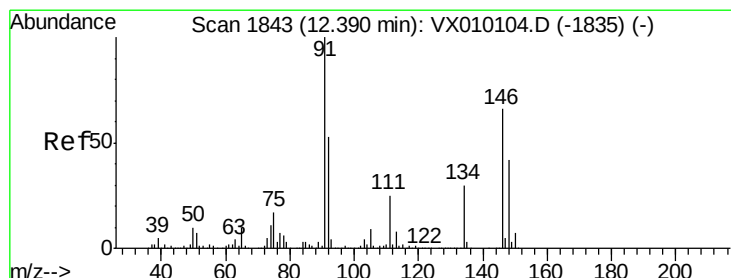
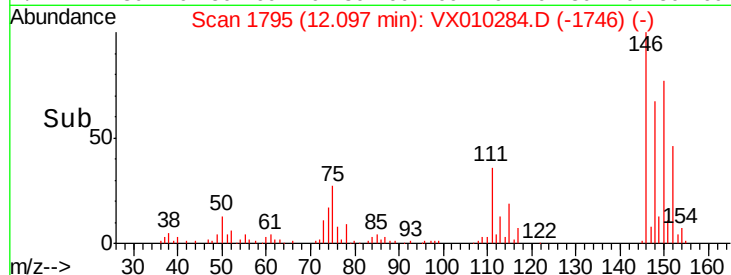
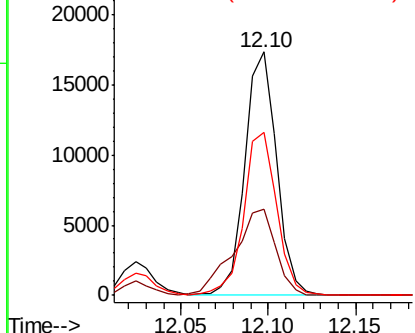
#88
 1,4-Dichlorobenzene
 Concen: 3.056 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX010284.D
 Acq: 13 Jun 2019 19:43

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:146 Resp: 21903
 Ion Ratio Lower Upper
 146 100
 111 46.9 20.0 59.9
 148 69.4 32.3 96.9

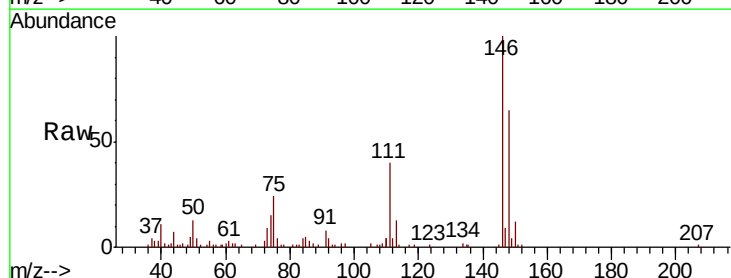


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#91
 1,2-Dichlorobenzene
 Concen: 1.613 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX010284.D
 Acq: 13 Jun 2019 19:43

Tgt Ion:146 Resp: 11144
 Ion Ratio Lower Upper
 146 100
 111 39.8 21.1 63.1
 148 68.8 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

