

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\
 Data File : VX014148.D
 Acq On : 20 Dec 2019 03:19
 Operator : JC/SP
 Sample : K6372-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 20 04:03:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	574156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	871535	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	786178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	359706	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	308947	47.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.96%	
35) Dibromofluoromethane	5.49	113	253227	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	
50) Toluene-d8	8.71	98	1029748	49.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.84%	
62) 4-Bromofluorobenzene	11.13	95	351311	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	

Target Compounds

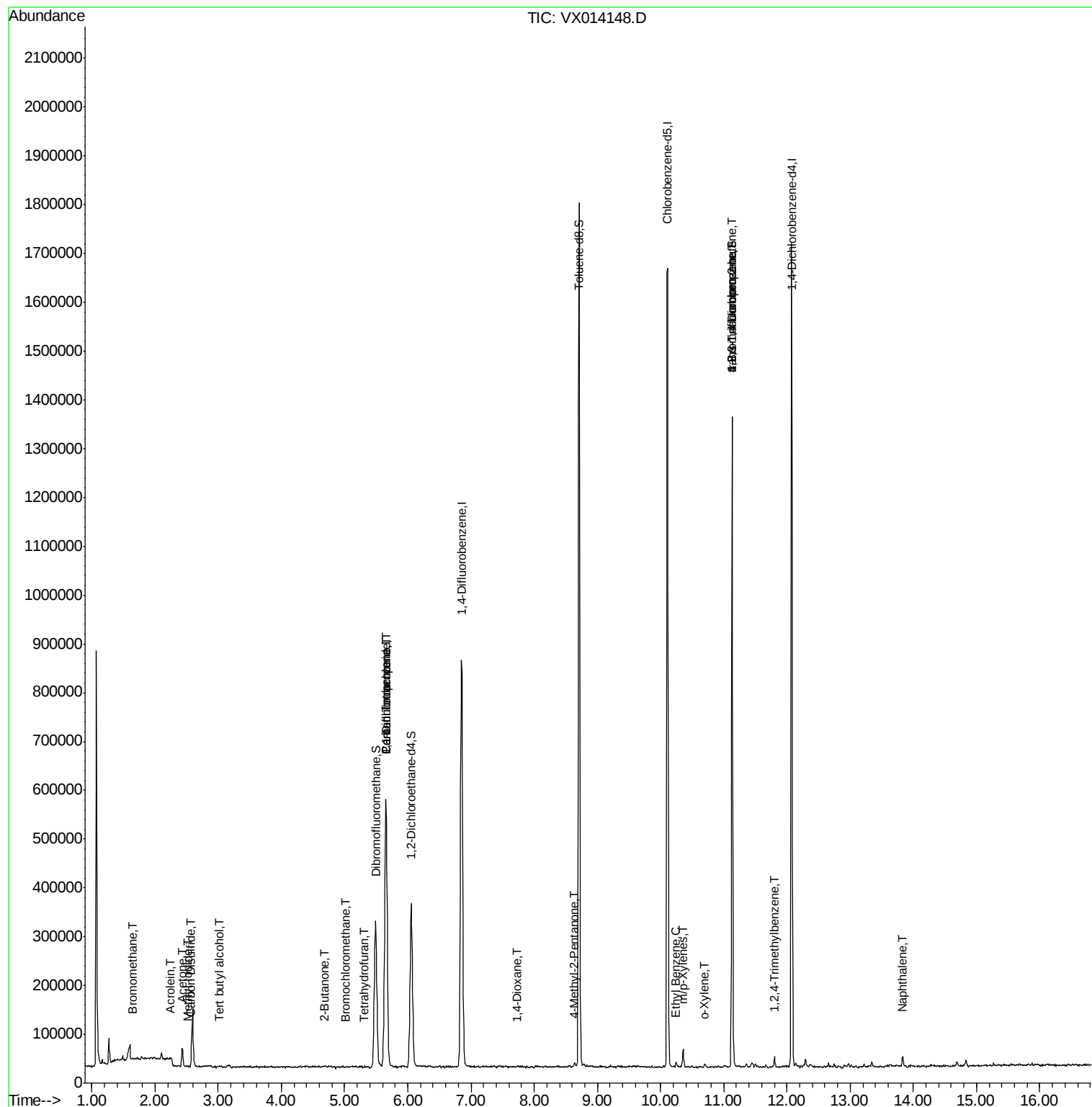
						Qvalue
5) Bromomethane	1.65	94	1841	0.357	ug/l #	74
10) Methyl Iodide	2.51	142	1276	2.790	ug/l #	92
11) Tert butyl alcohol	3.02	59	896	0.637	ug/l #	50
13) Acrolein	2.25	56	362	0.450	ug/l #	1
16) Acetone	2.43	43	43449	10.285	ug/l	94
17) Carbon Disulfide	2.56	76	1172	0.825	ug/l #	53
25) 2-Butanone	4.68	43	5701	1.095	ug/l #	84
28) Bromochloromethane	5.01	49	470	0.565	ug/l #	48
29) Tetrahydrofuran	5.30	42	633	0.217	ug/l	92
36) 1,1-Dichloropropene	5.65	75	37956	4.746	ug/l #	51
38) Carbon Tetrachloride	5.65	117	49305	6.768	ug/l #	16
49) 1,4-Dioxane	7.72	88	210	1.442	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	7662	0.835	ug/l	88
67) Ethyl Benzene	10.25	91	6510	0.227	ug/l	93
68) m/p-Xylenes	10.36	106	9610	0.869	ug/l	98
69) o-Xylene	10.70	106	2755	0.254	ug/l	54
76) 1,2,3-Trichloropropane	11.13	75	173078	22.163	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	173078	62.557	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	9914	0.464	ug/l	92
95) Naphthalene	13.83	128	15461	0.659	ug/l #	92

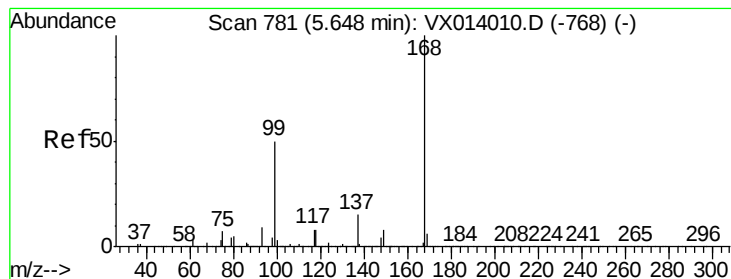
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Instrument :

MSVOA_X

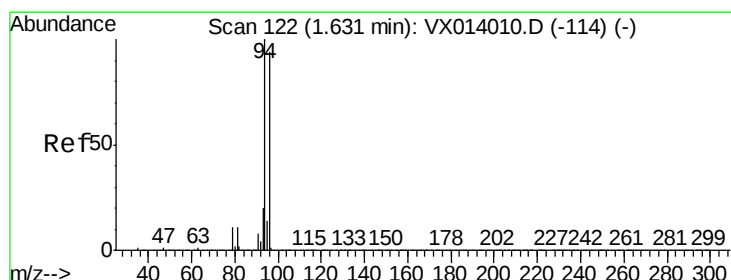
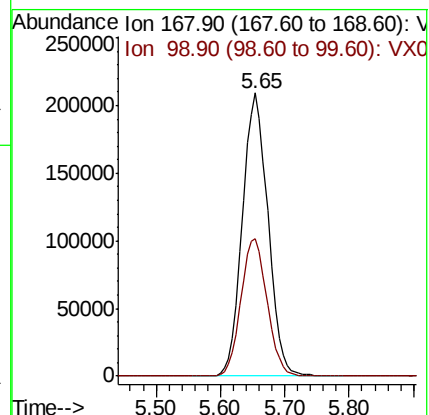
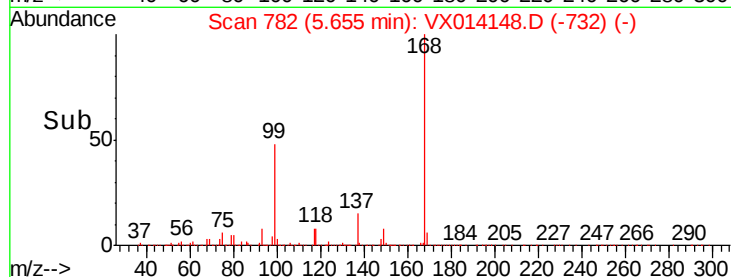
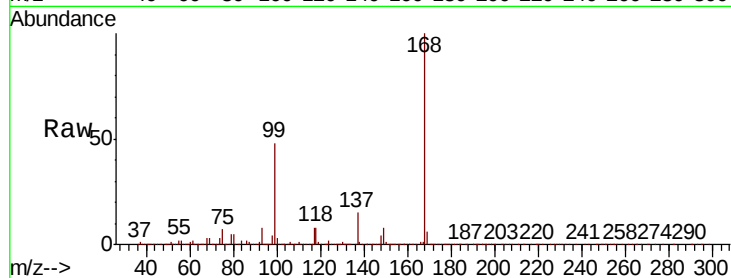
ClientSampled :

Tot Ion:168 Resp: 574156

Ion Ratio Lower Upper

168 100

99 48.4 40.3 60.5



#5

Bromomethane

Concen: 0.357 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014148.D

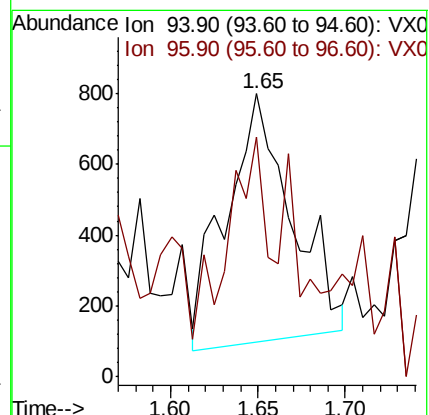
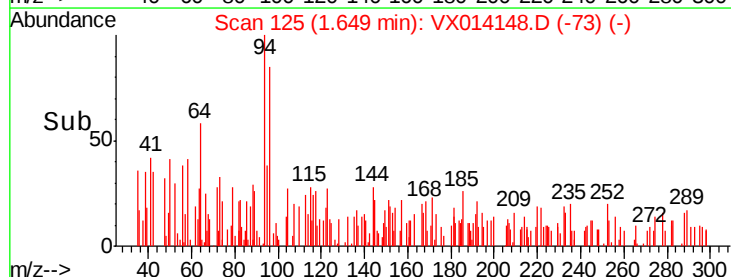
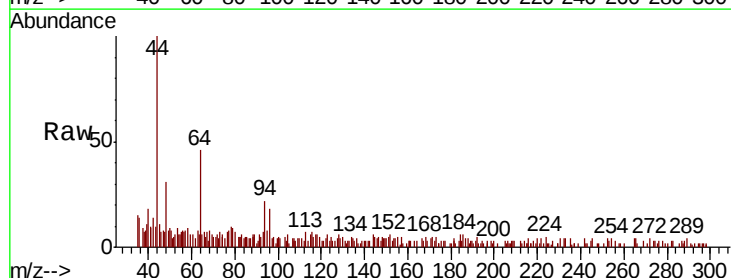
Acq: 20 Dec 2019 03:19

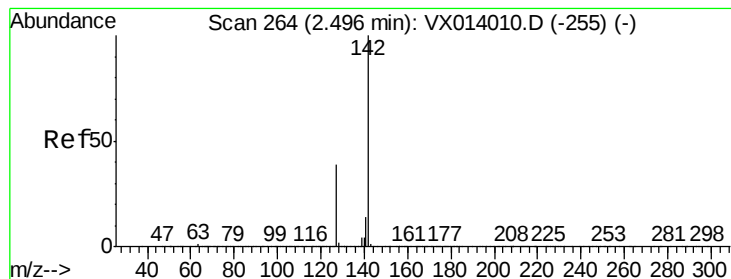
Tgt Ion: 94 Resp: 1841

Ion Ratio Lower Upper

94 100

96 68.7 75.2 112.8#





#10

Methvl Iodide

Concen: 2.790 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Instrument :

MSVOA_X

ClientSampled :

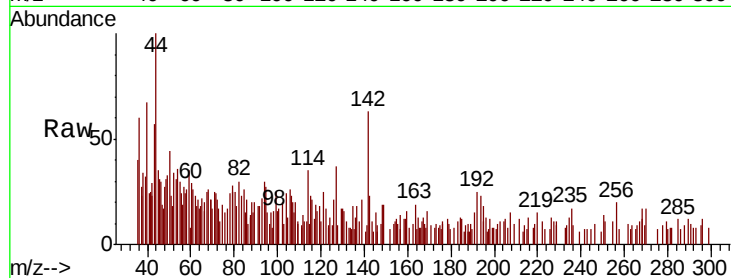
Tot Ion:142 Resp: 1276

Ion Ratio Lower Upper

142 100

127 41.2 31.6 47.4

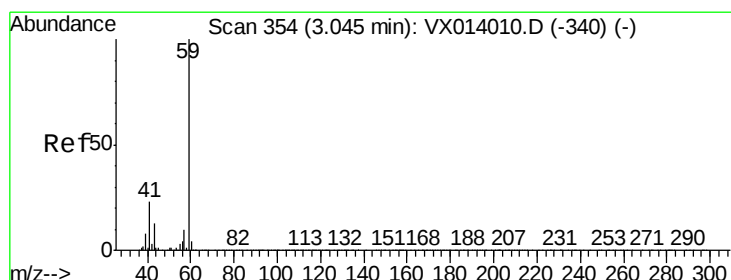
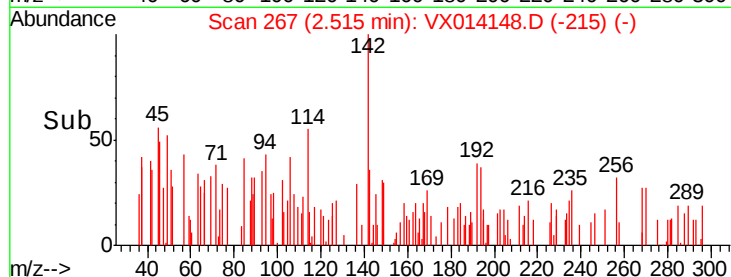
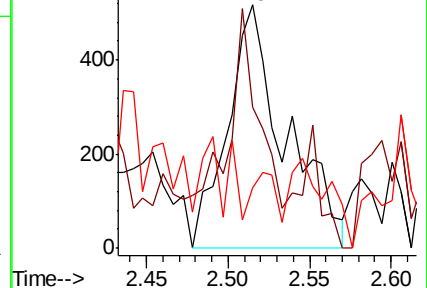
141 6.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.637 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX014148.D

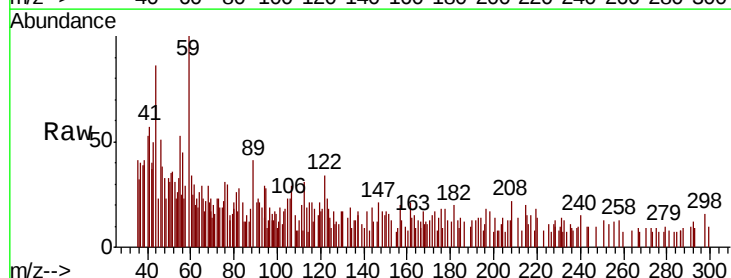
Acq: 20 Dec 2019 03:19

Tgt Ion: 59 Resp: 896

Ion Ratio Lower Upper

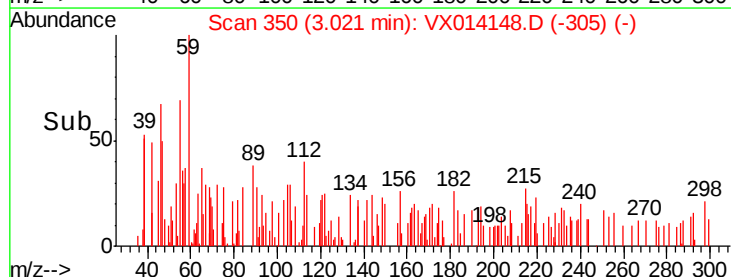
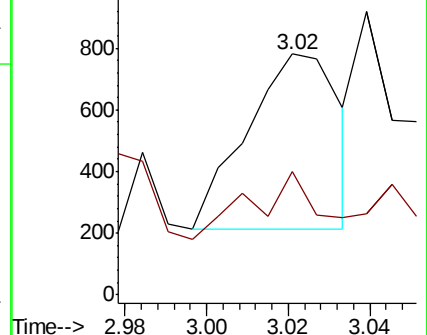
59 100

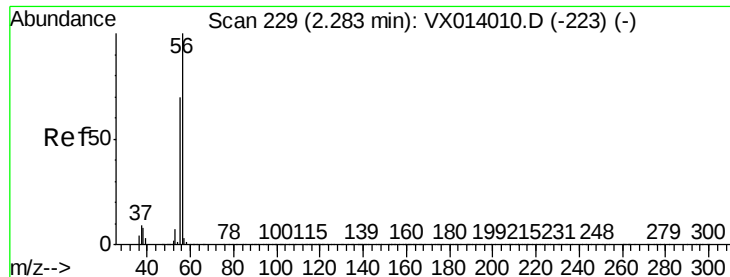
57 29.1 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.450 ug/l

RT: 2.25 min Scan# 223

Delta R.T. -0.04 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Instrument :

MSVOA_X

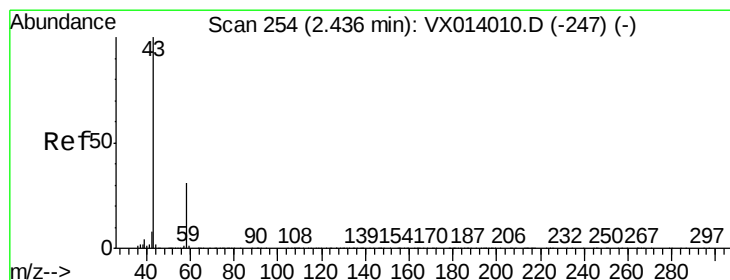
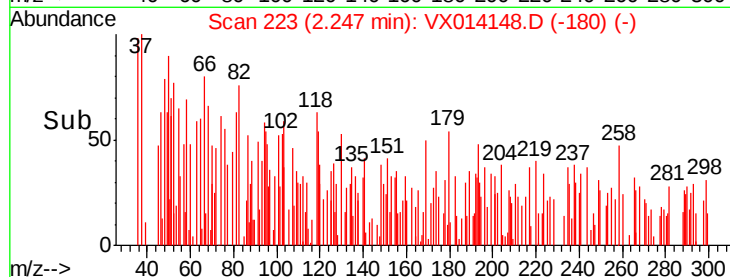
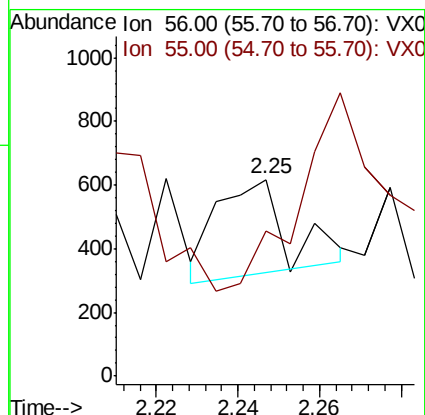
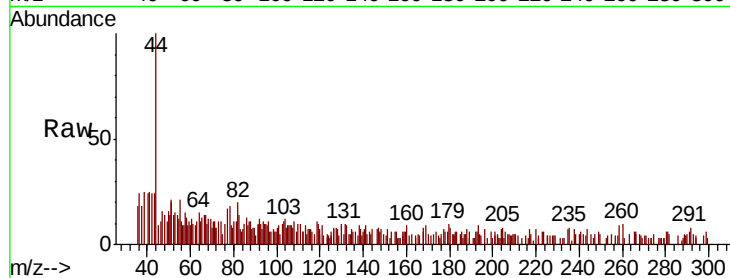
ClientSampleId :

Tot Ion: 56 Resp: 362

Ion Ratio Lower Upper

56 100

55 361.3 56.9 85.3#



#16

Acetone

Concen: 10.285 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014148.D

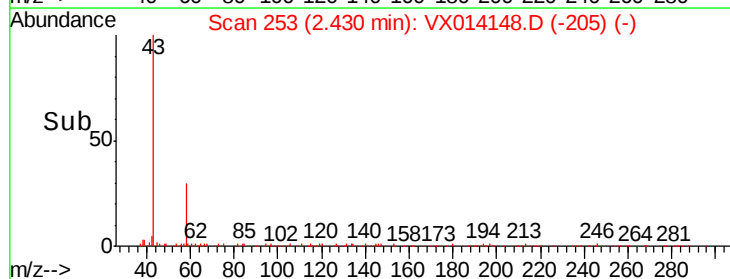
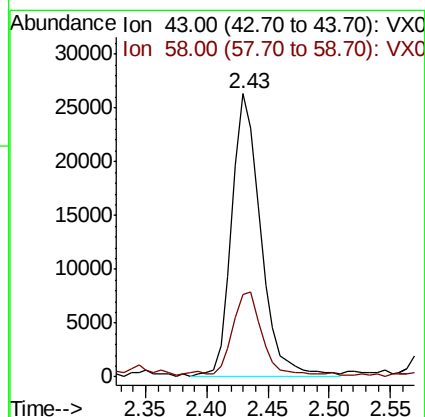
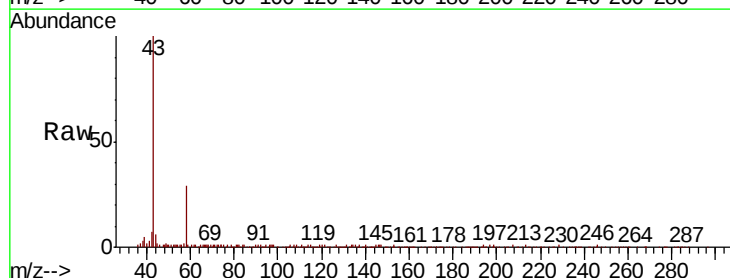
Acq: 20 Dec 2019 03:19

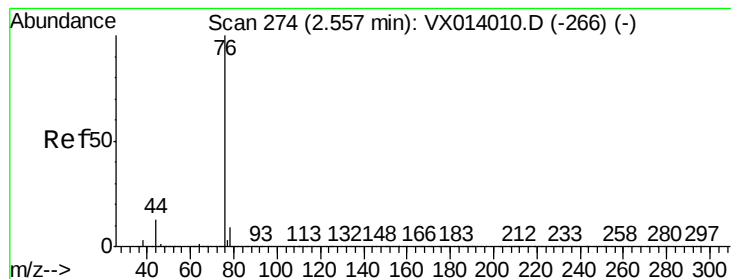
Tgt Ion: 43 Resp: 43449

Ion Ratio Lower Upper

43 100

58 27.6 24.9 37.3





#17

Carbon Disulfide

Concen: 0.825 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Instrument :

MSVOA_X

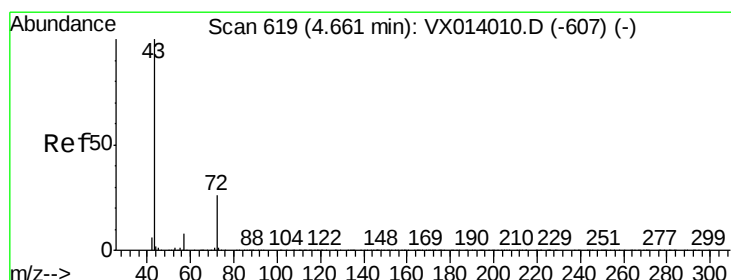
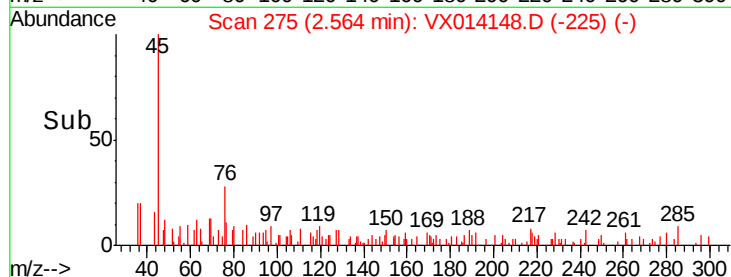
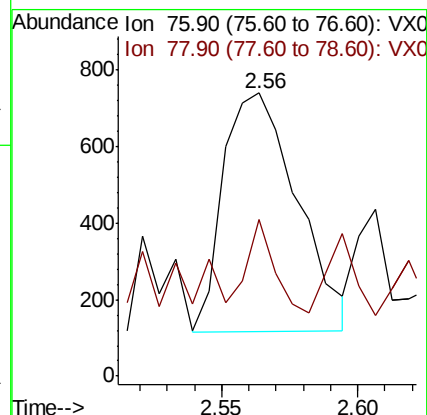
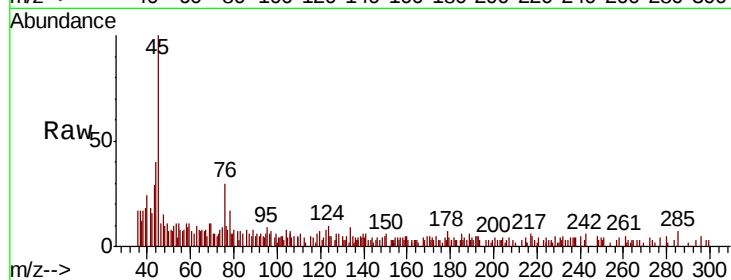
ClientSampled :

Tot Ion: 76 Resp: 1172

Ion Ratio Lower Upper

76 100

78 25.9 7.2 10.8#



#25

2-Butanone

Concen: 1.095 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014148.D

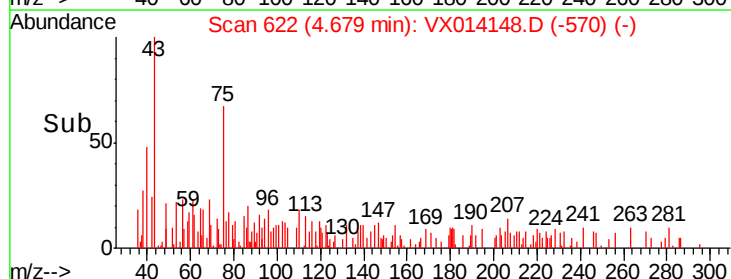
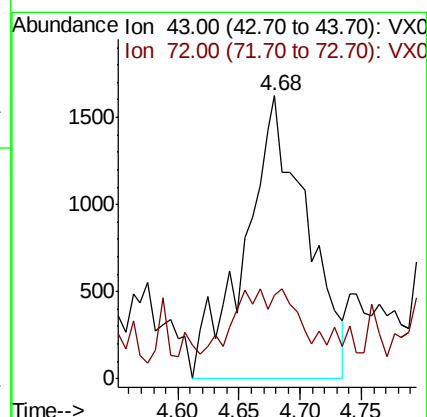
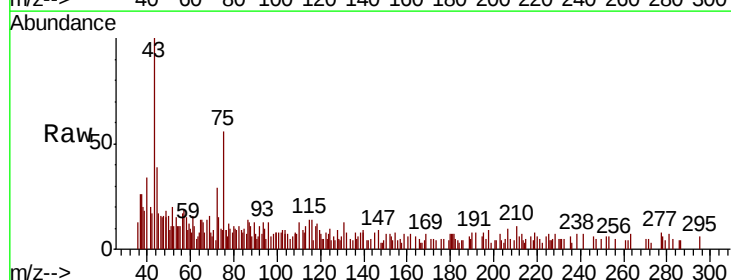
Acq: 20 Dec 2019 03:19

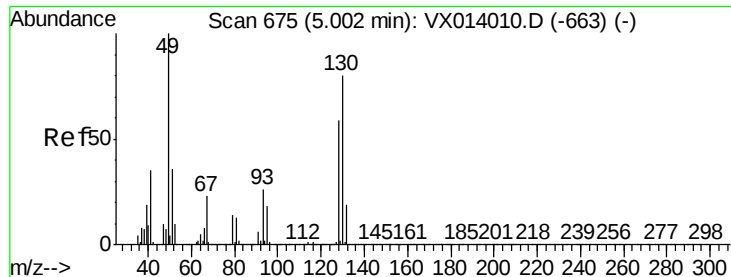
Tgt Ion: 43 Resp: 5701

Ion Ratio Lower Upper

43 100

72 17.8 21.0 31.4#





#28

Bromochloromethane

Concen: 0.565 ug/l

RT: 5.01 min Scan# 677

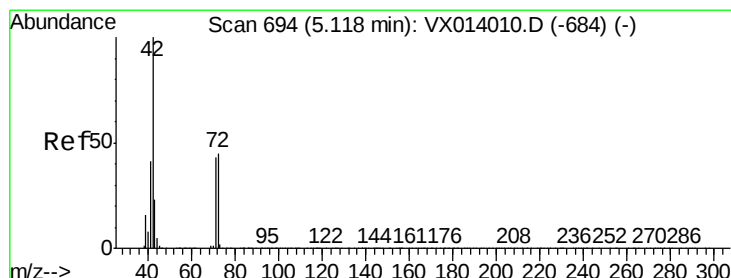
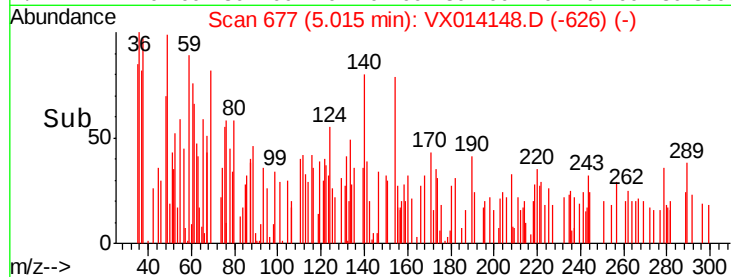
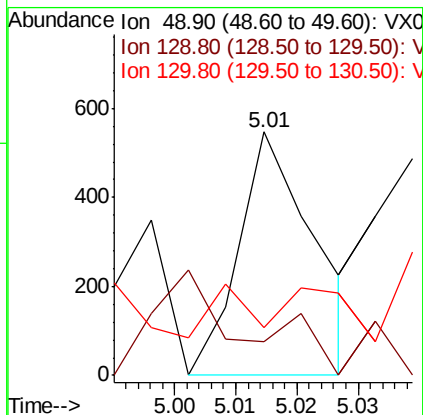
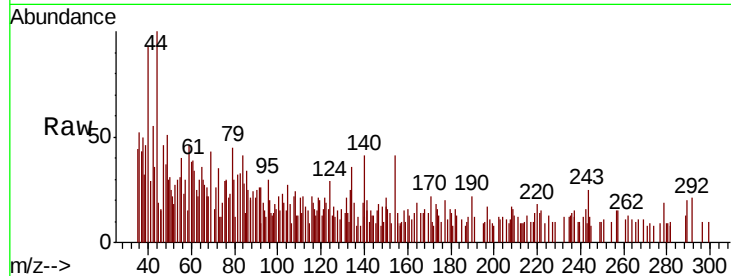
Delta R.T. 0.01 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 470
Ion Ratio Lower Upper
49 100
129 41.5 0.0 5.0#
130 36.0 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.217 ug/l

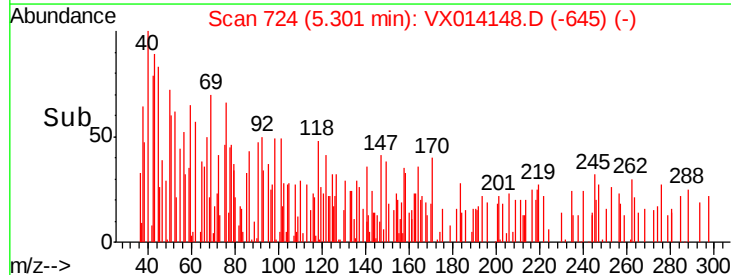
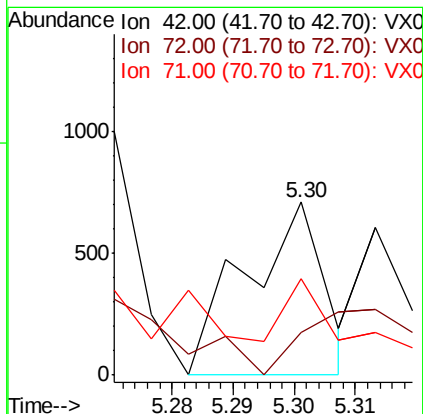
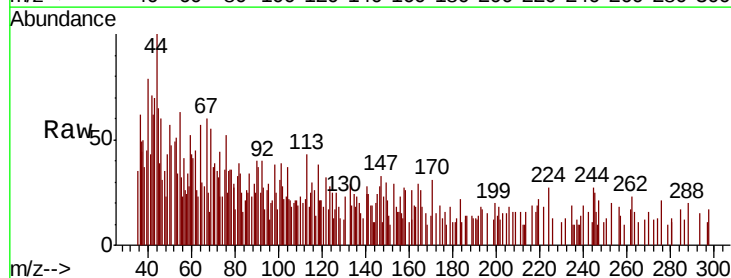
RT: 5.30 min Scan# 724

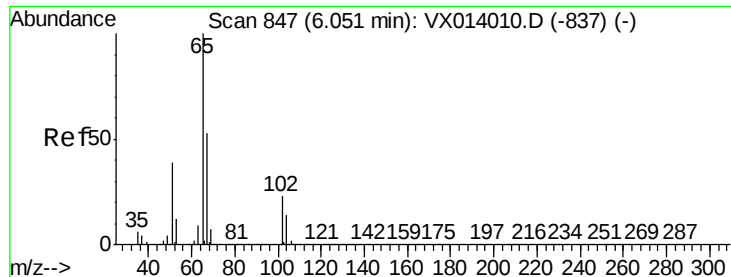
Delta R.T. 0.18 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Tgt Ion: 42 Resp: 633
Ion Ratio Lower Upper
42 100
72 50.6 35.8 53.8
71 37.3 33.6 50.4

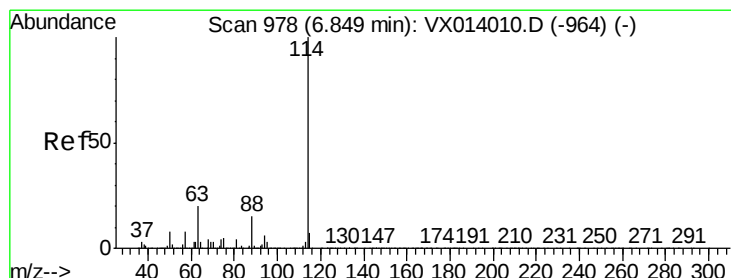
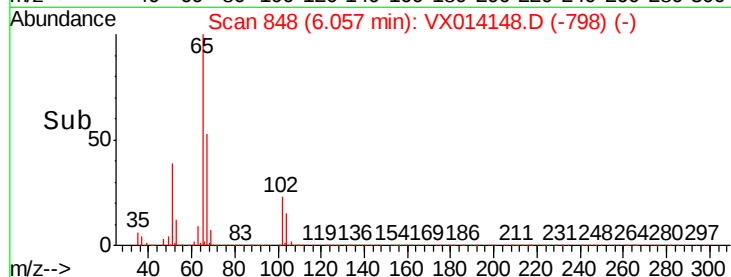
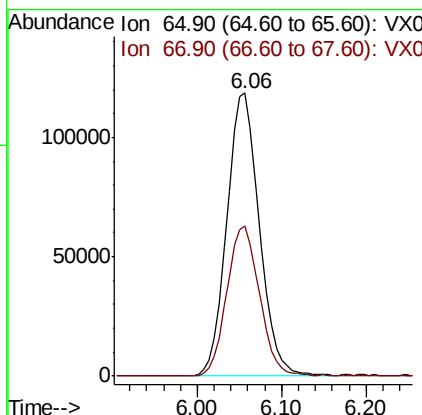
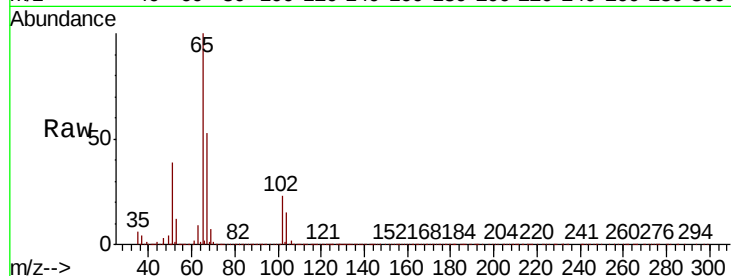




#33
 1,2-Dichloroethane-d4
 Concen: 47.477 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX014148.D
 Acq: 20 Dec 2019 03:19

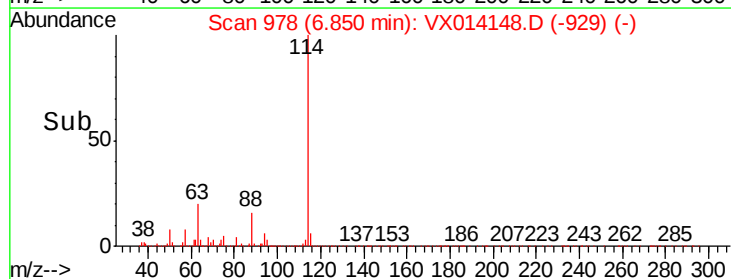
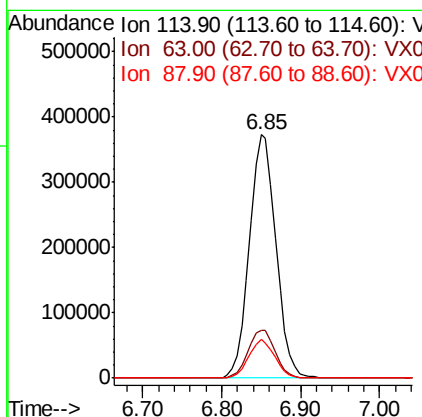
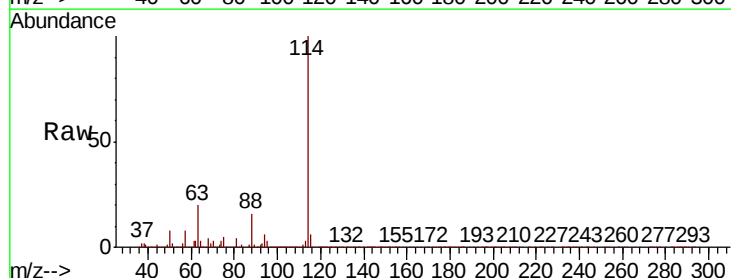
Instrument :
 MSVOA_X
 ClientSampleId :

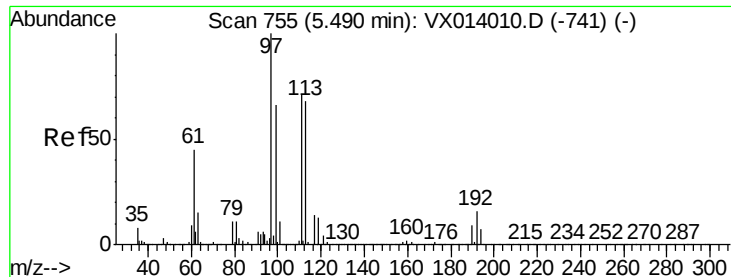
Tot Ion: 65 Resp: 308947
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014148.D
 Acq: 20 Dec 2019 03:19

Tgt Ion: 114 Resp: 871535
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.8
 88 15.8 0.0 30.4

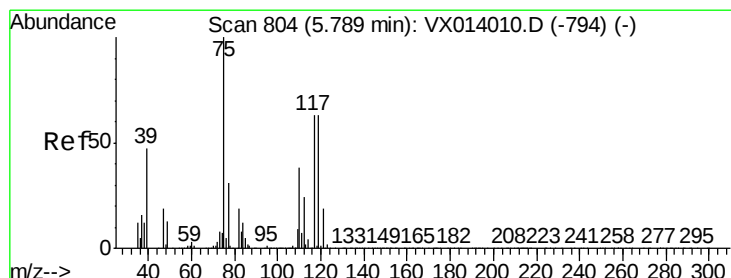
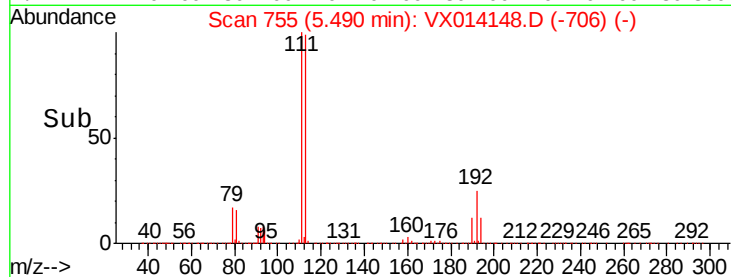
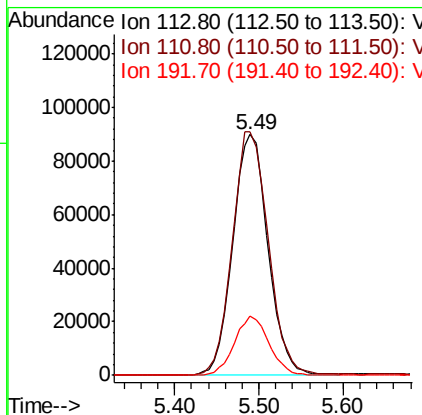
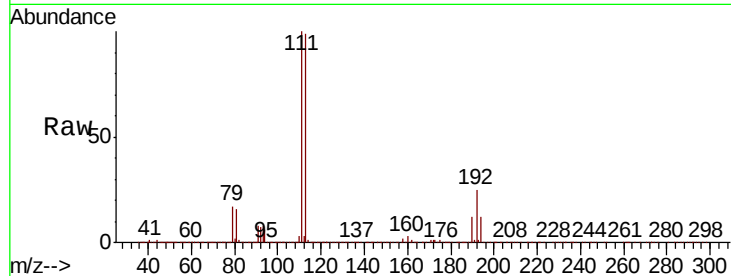




#35
 Dibromofluoromethane
 Concen: 47.797 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX014148.D
 Acq: 20 Dec 2019 03:19

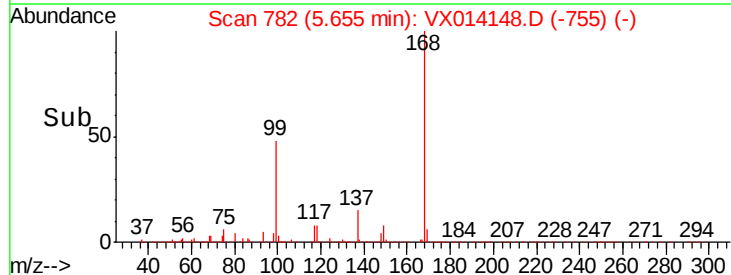
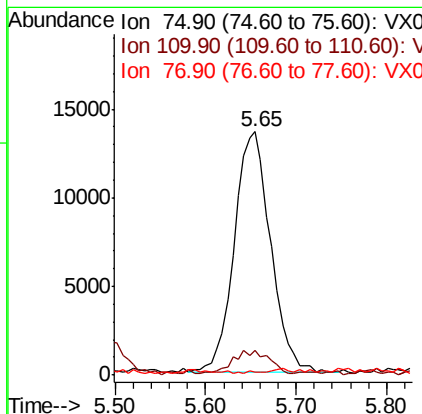
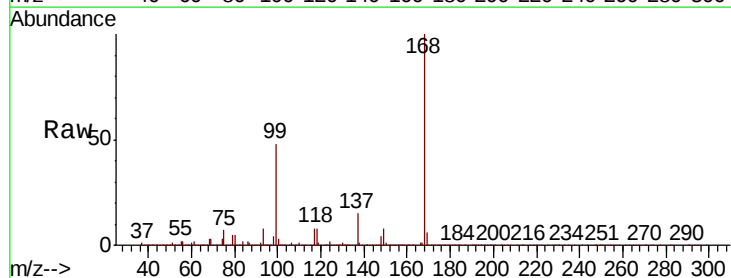
Instrument :
 MSVOA_X
 ClientSampleId :

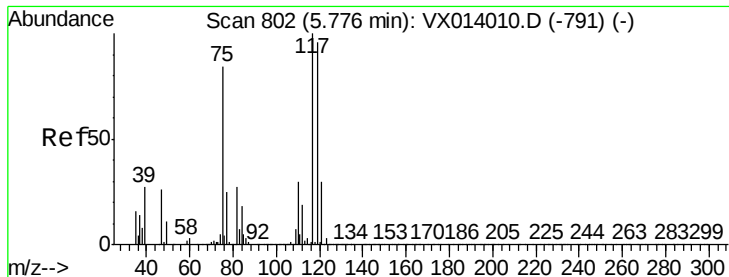
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.0	123.0
192	24.3	19.3	28.9



#36
 1,1-Dichloropropene
 Concen: 4.746 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014148.D
 Acq: 20 Dec 2019 03:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.3	54.9#
77	0.3	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.768 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Instrument :

MSVOA_X

ClientSampleId :

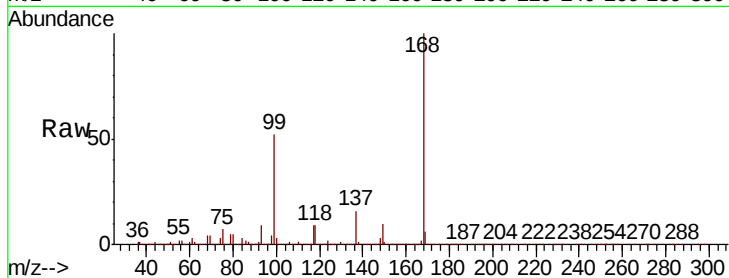
Tot Ion:117 Resp: 49305

Ion Ratio Lower Upper

117 100

119 4.3 76.2 114.4#

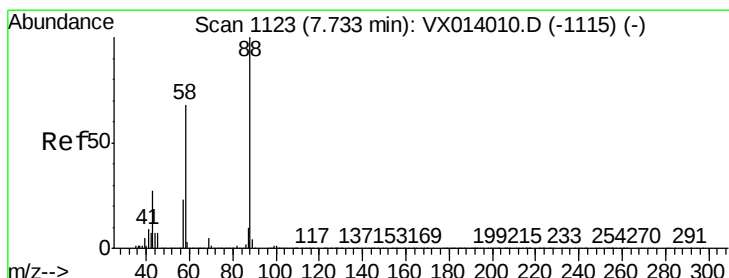
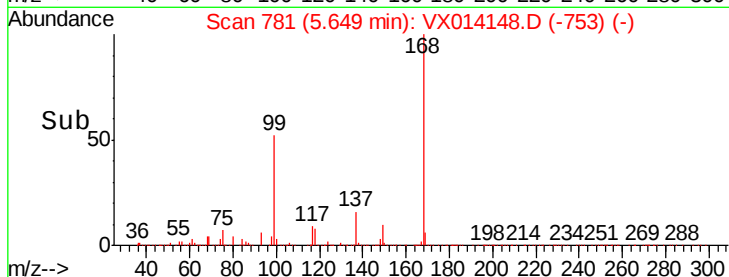
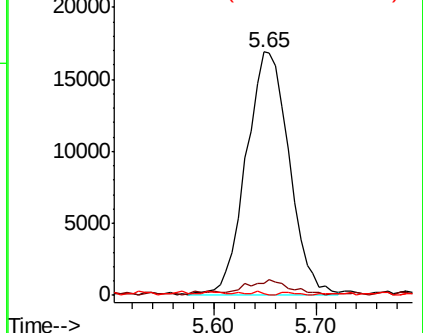
121 0.2 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.442 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

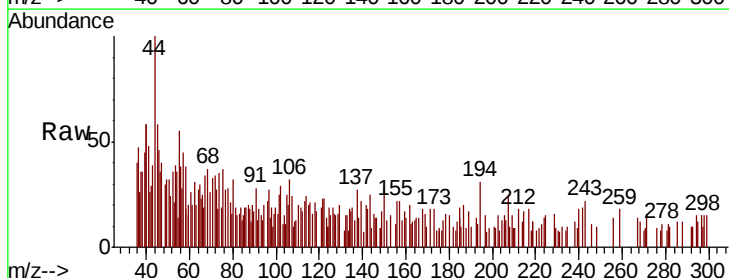
Tgt Ion: 88 Resp: 210

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

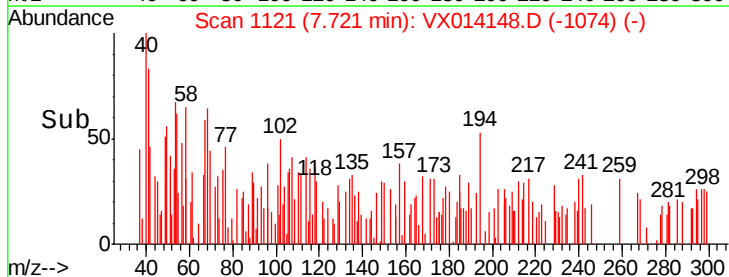
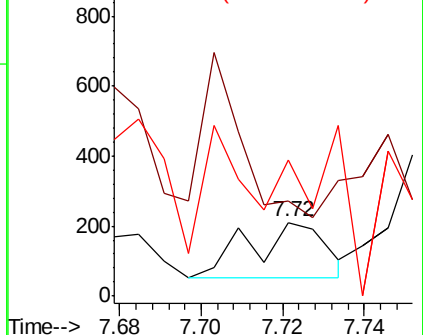
58 195.7 56.8 85.2#

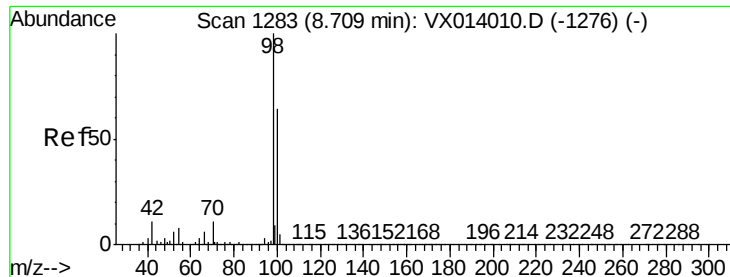


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

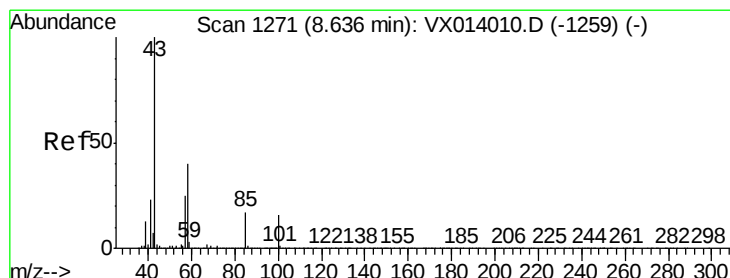
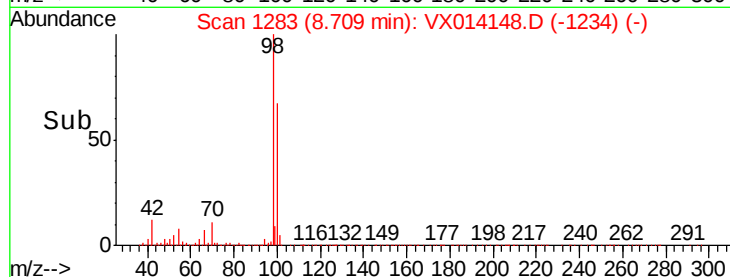
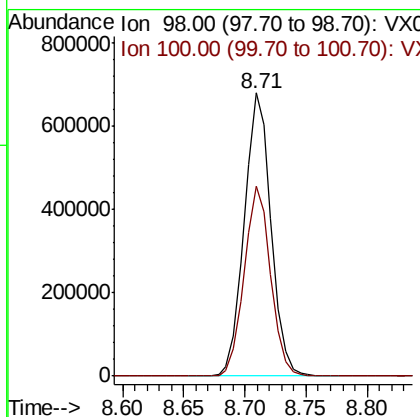
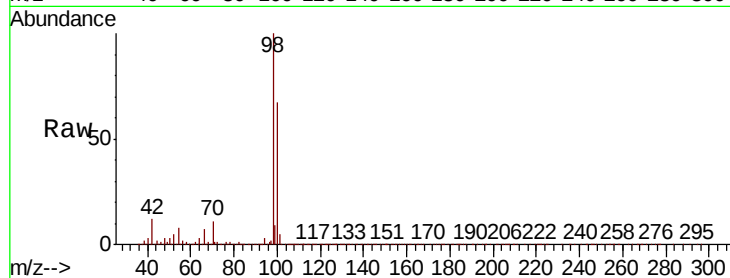




#50
Toluene-d8
Concen: 49.924 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014148.D
Acq: 20 Dec 2019 03:19

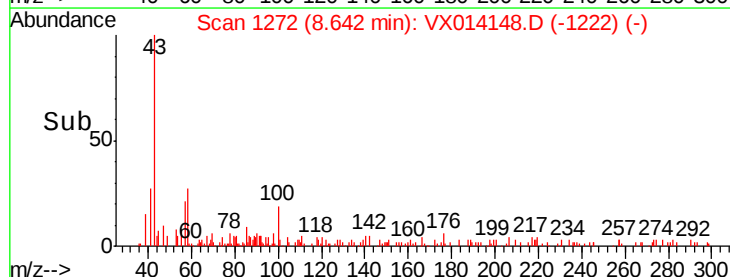
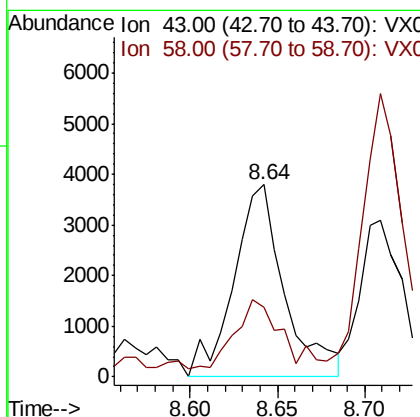
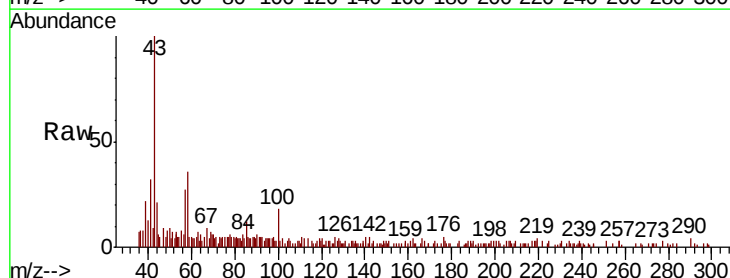
Instrument :
MSVOA_X
ClientSampleId :

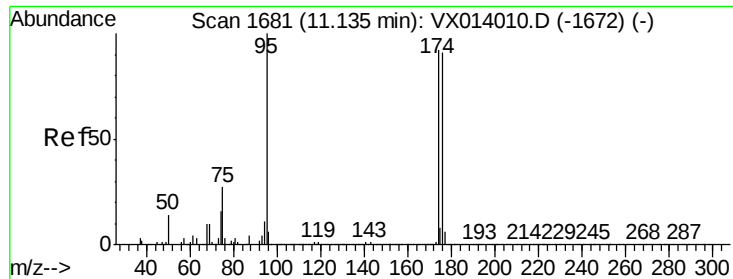
Tot Ion: 98 Resp: 1029748
Ion Ratio Lower Upper
98 100
100 66.2 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.835 ug/l
RT: 8.64 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VX014148.D
Acq: 20 Dec 2019 03:19

Tgt Ion: 43 Resp: 7662
Ion Ratio Lower Upper
43 100
58 32.6 32.2 48.2

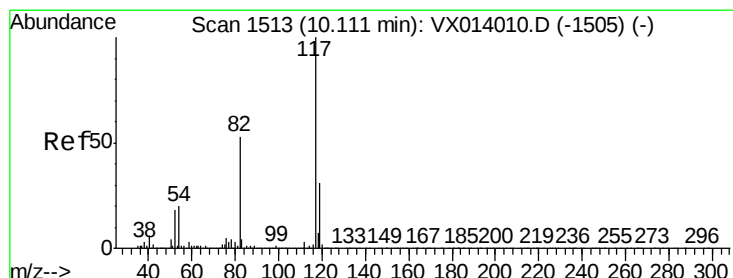
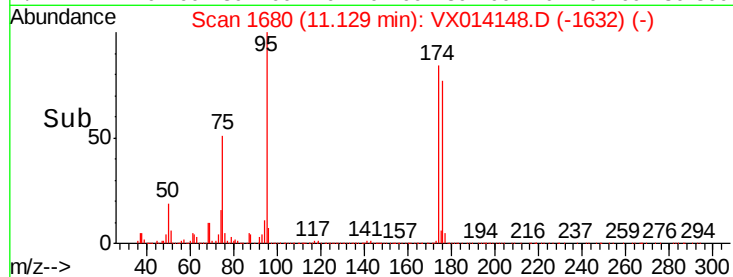
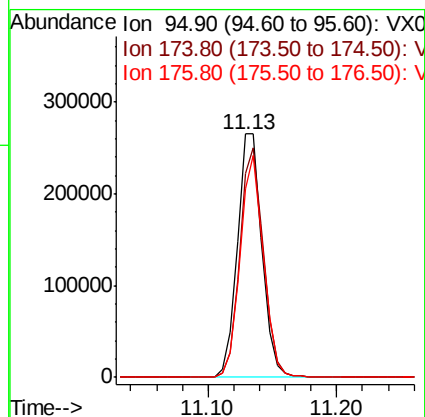
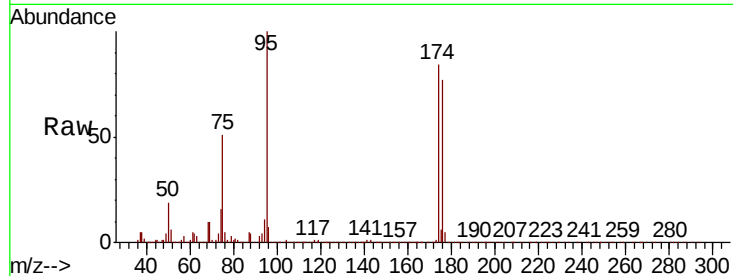




#62
4-Bromofluorobenzene
Concen: 46.594 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014148.D
Acq: 20 Dec 2019 03:19

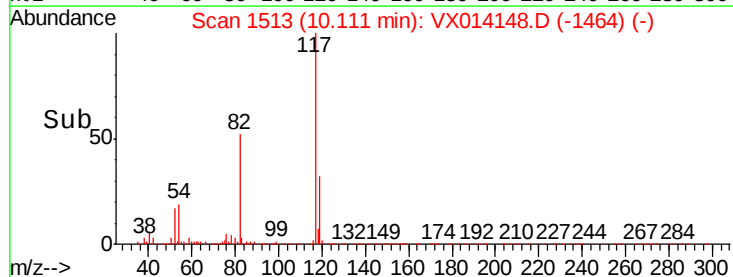
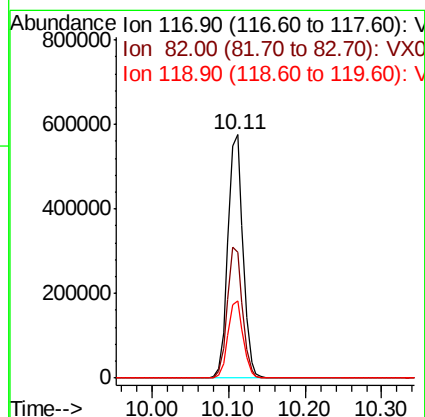
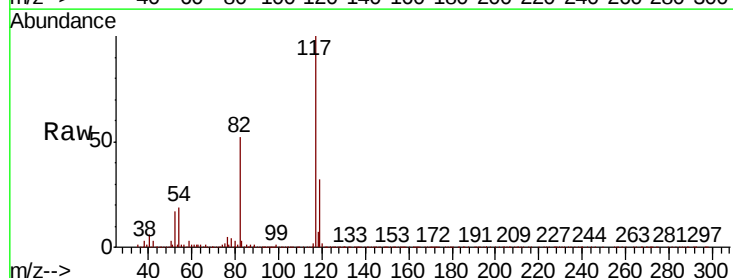
Instrument :
MSVOA_X
ClientSampleId :

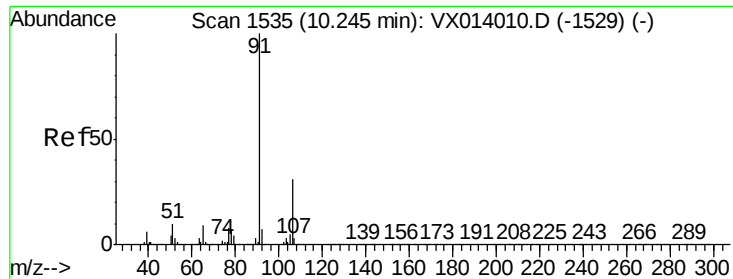
Tot Ion: 95 Resp: 351311
Ion Ratio Lower Upper
95 100
174 90.2 0.0 175.8
176 86.7 0.0 173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014148.D
Acq: 20 Dec 2019 03:19

Tgt Ion: 117 Resp: 786178
Ion Ratio Lower Upper
117 100
82 51.9 42.2 63.4
119 31.8 25.1 37.7





#67

Ethyl Benzene

Concen: 0.227 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Instrument :

MSVOA_X

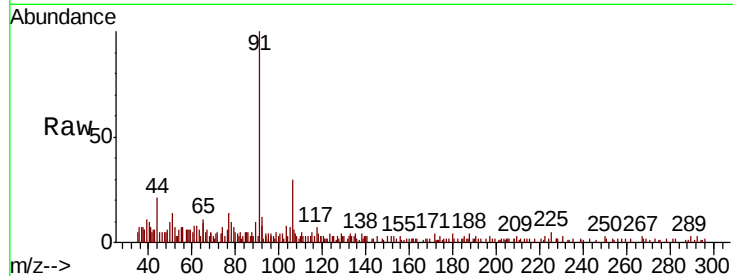
ClientSampleId :

Tot Ion: 91 Resp: 6510

Ion Ratio Lower Upper

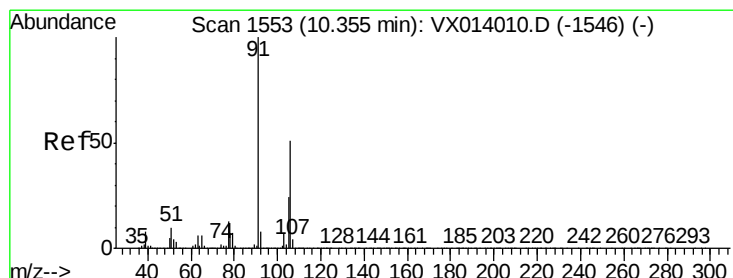
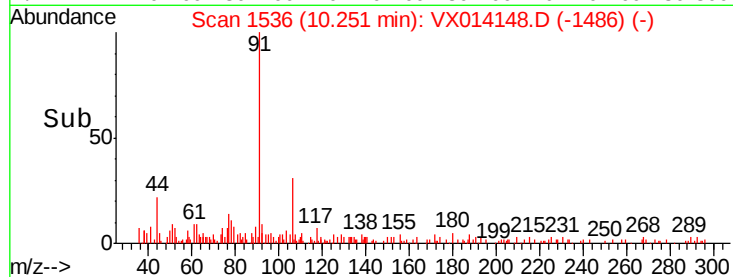
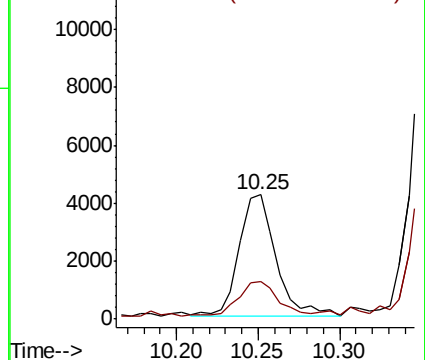
91 100

106 27.5 25.0 37.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 0.869 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014148.D

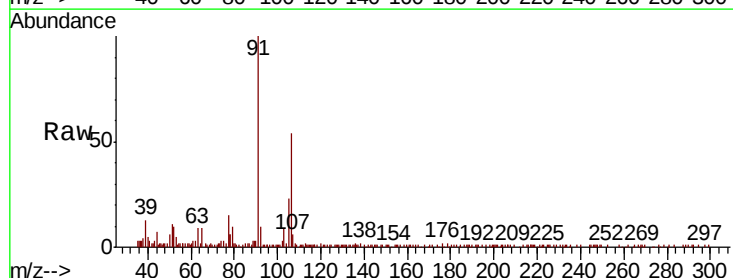
Acq: 20 Dec 2019 03:19

Tgt Ion: 106 Resp: 9610

Ion Ratio Lower Upper

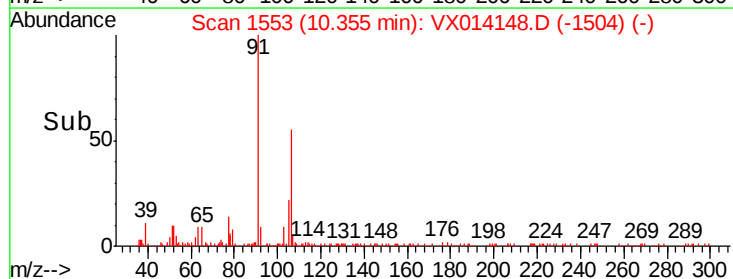
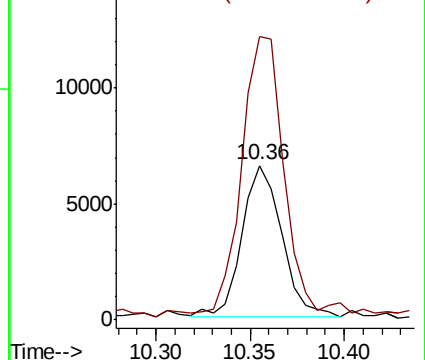
106 100

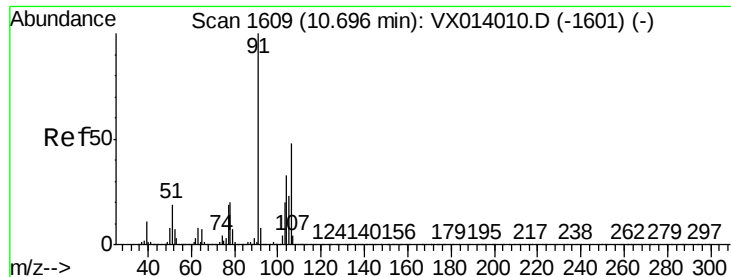
91 201.4 158.6 238.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

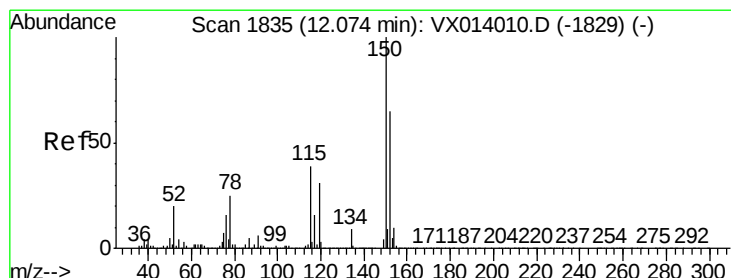
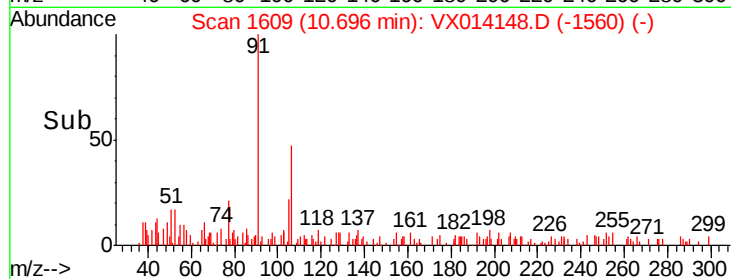
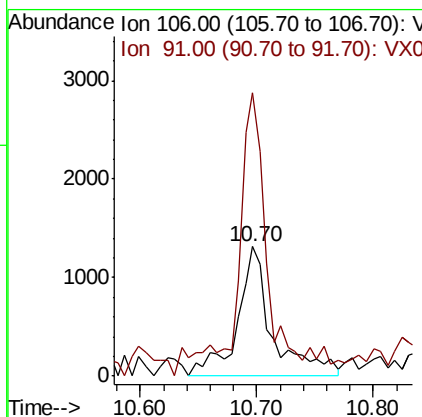
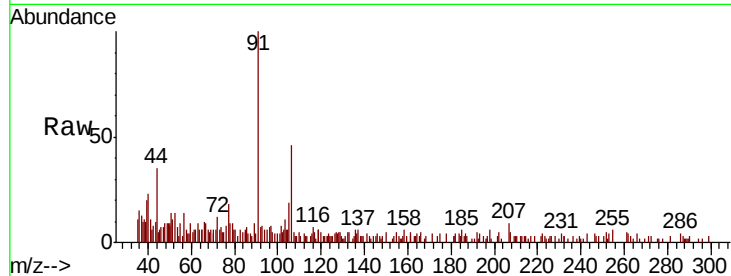




#69
o-Xylene
Concen: 0.254 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014148.D
Acq: 20 Dec 2019 03:19

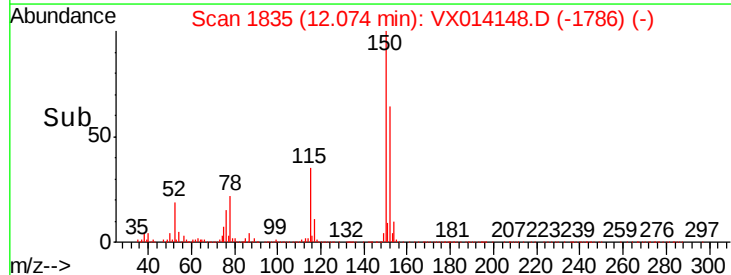
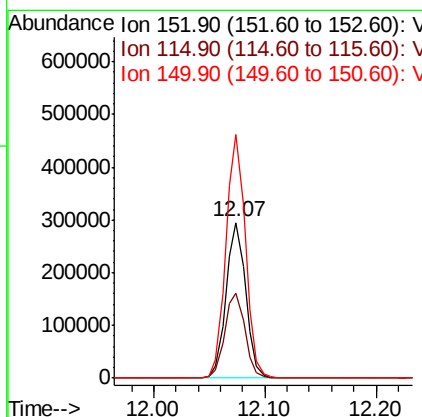
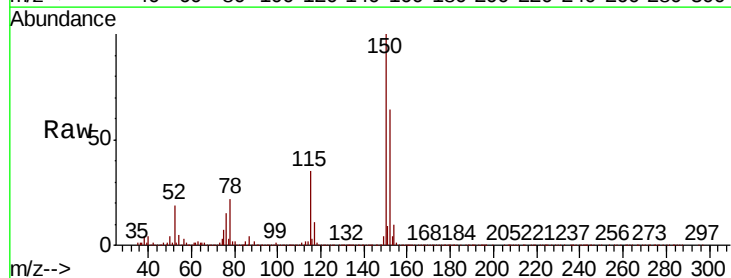
Instrument :
MSVOA_X
ClientSampleId :

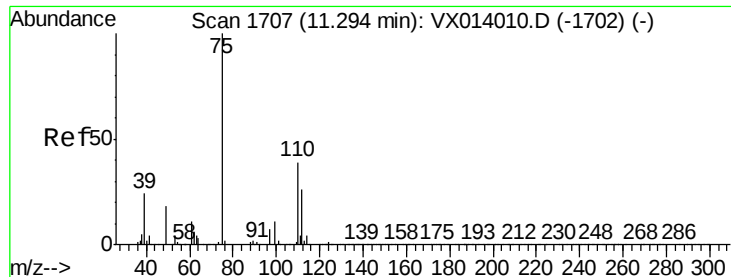
Tot Ion:106 Resp: 2755
Ion Ratio Lower Upper
106 100
91 136.2 104.2 312.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014148.D
Acq: 20 Dec 2019 03:19

Tgt Ion:152 Resp: 359706
Ion Ratio Lower Upper
152 100
115 55.8 38.3 114.9
150 155.9 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 22.163 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

Instrument :

MSVOA_X

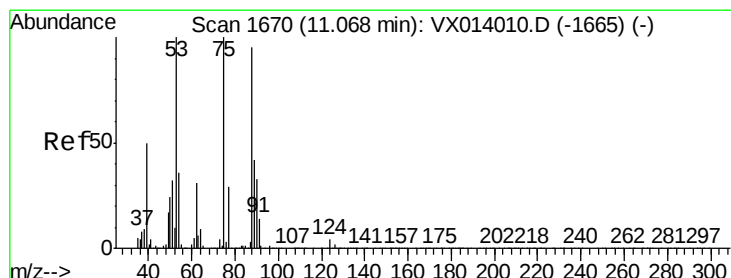
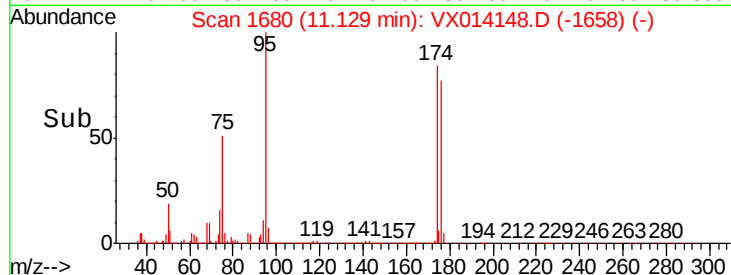
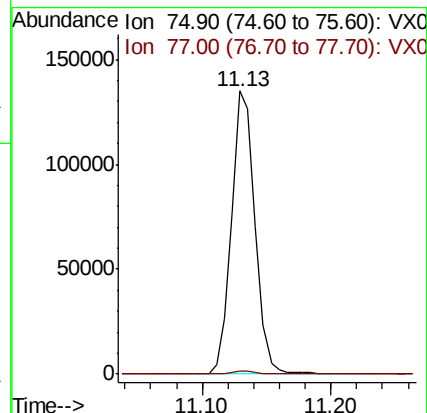
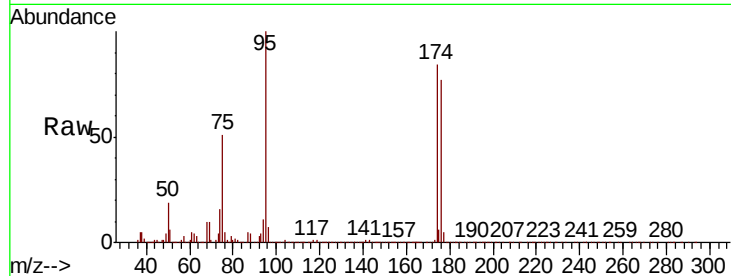
ClientSampleId :

Tot Ion: 75 Resp: 173078

Ion Ratio Lower Upper

75 100

77 1.4 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.557 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014148.D

Acq: 20 Dec 2019 03:19

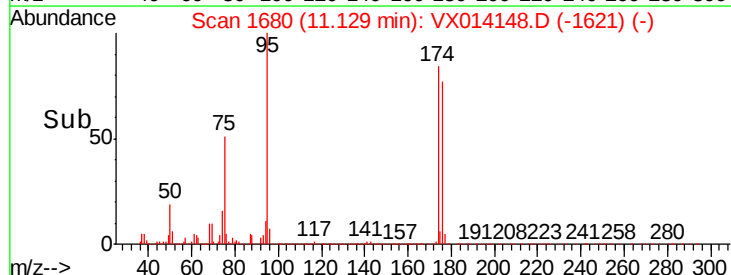
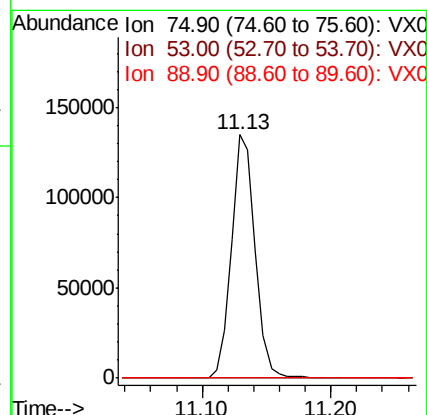
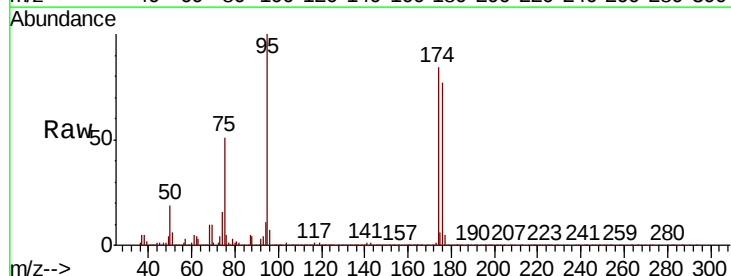
Tgt Ion: 75 Resp: 173078

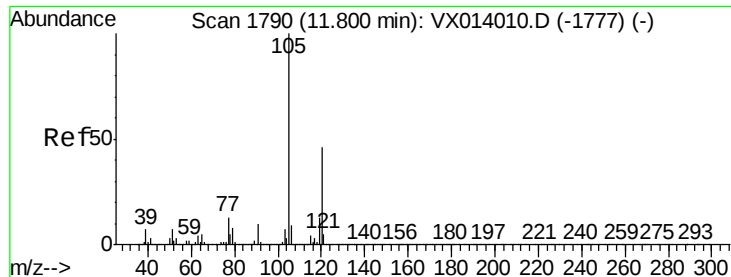
Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 34.6 51.8#

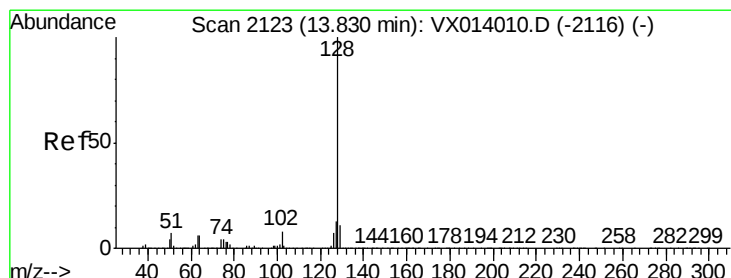
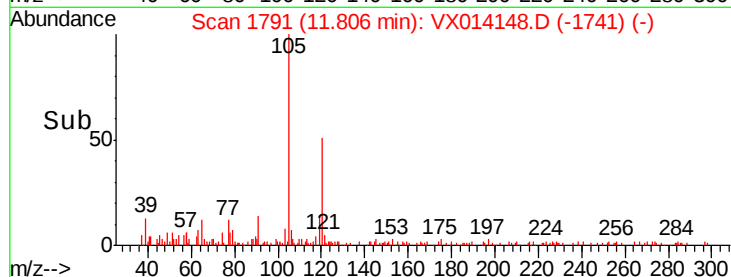
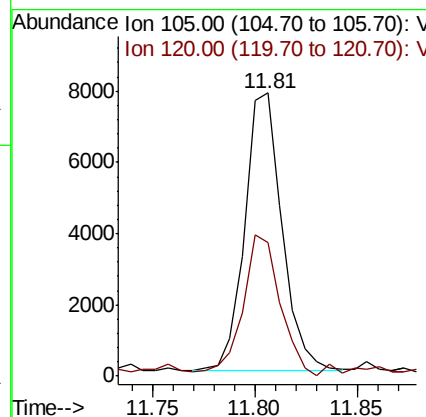
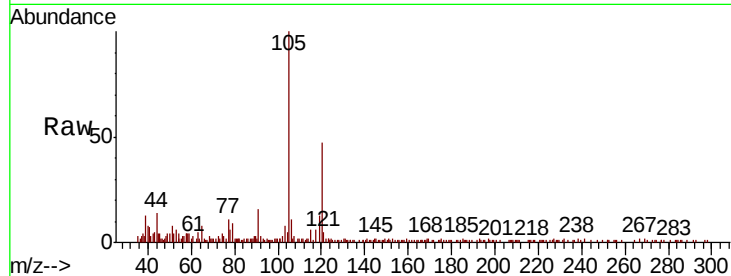




#84
 1,2,4-Trimethylbenzene
 Concen: 0.464 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.01 min
 Lab File: VX014148.D
 Acq: 20 Dec 2019 03:19

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:105 Resp: 9914
 Ion Ratio Lower Upper
 105 100
 120 51.2 23.1 69.2



#95
 Naphthalene
 Concen: 0.659 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX014148.D
 Acq: 20 Dec 2019 03:19

Tgt Ion:128 Resp: 15461
 Ion Ratio Lower Upper
 128 100
 127 16.4 10.2 15.4#
 129 13.8 8.7 13.1#

