

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021220\
 Data File : VX014919.D
 Acq On : 12 Feb 2020 12:46
 Operator : JC/SP
 Sample : L1495-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 13 03:33:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	448976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	702592	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	661881	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	329839	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	258543	51.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.04%	
35) Dibromofluoromethane	5.48	113	214949	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
50) Toluene-d8	8.71	98	837773	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.13	95	301819	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	

Target Compounds

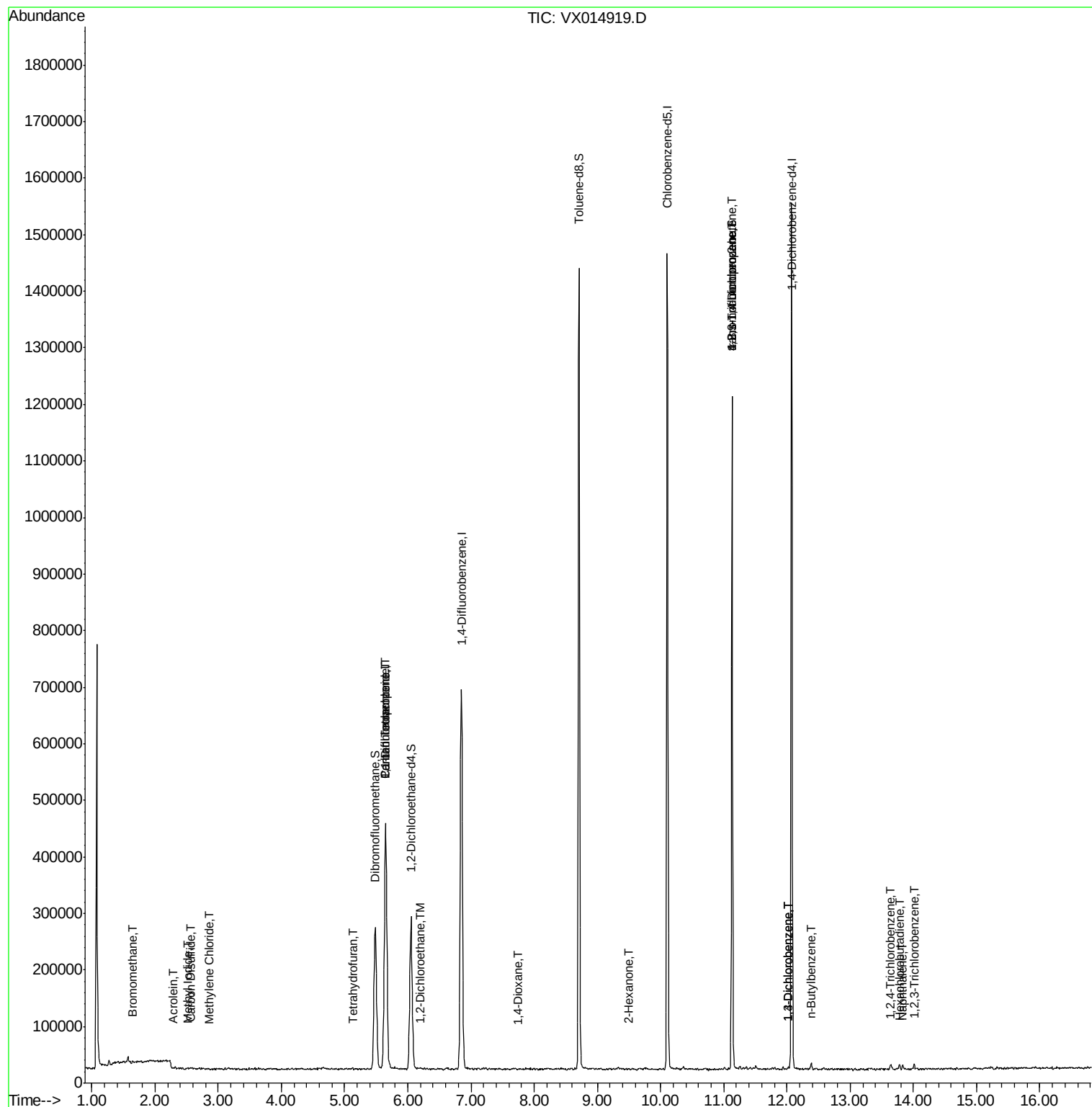
					Qvalue
5) Bromomethane	1.66	94	1824	0.543	ug/l 81
10) Methyl Iodide	2.51	142	2777	4.908	ug/l # 75
13) Acrolein	2.29	56	658	0.965	ug/l # 48
16) Acetone	2.42	43	1945	Below Cal	91
17) Carbon Disulfide	2.56	76	3580	0.311	ug/l # 84
20) Methylene Chloride	2.84	84	1329	0.273	ug/l # 67
29) Tetrahydrofuran	5.14	42	734	0.374	ug/l 96
36) 1,1-Dichloropropene	5.65	75	30277	4.817	ug/l # 45
38) Carbon Tetrachloride	5.64	117	39872	6.510	ug/l # 15
42) 1,2-Dichloroethane	6.19	62	1534	0.226	ug/l 79
49) 1,4-Dioxane	7.75	88	99	0.995	ug/l # 1
59) 2-Hexanone	9.50	43	1315	0.256	ug/l 99
76) 1,2,3-Trichloropropane	11.13	75	150112	25.167	ug/l # 40
81) trans-1,4-Dichloro-2-buten	11.13	75	150112	64.421	ug/l # 12
87) 1,3-Dichlorobenzene	12.03	146	2153	0.208	ug/l 84
88) 1,4-Dichlorobenzene	12.03	146	2153	0.204	ug/l 88
89) n-Butylbenzene	12.39	91	4072	0.239	ug/l 91
93) 1,2,4-Trichlorobenzene	13.64	180	2774	0.370	ug/l 92
94) Hexachlorobutadiene	13.78	225	1590	0.438	ug/l 90
95) Naphthalene	13.83	128	6579	0.330	ug/l # 91
96) 1,2,3-Trichlorobenzene	14.01	180	3061	0.423	ug/l 93

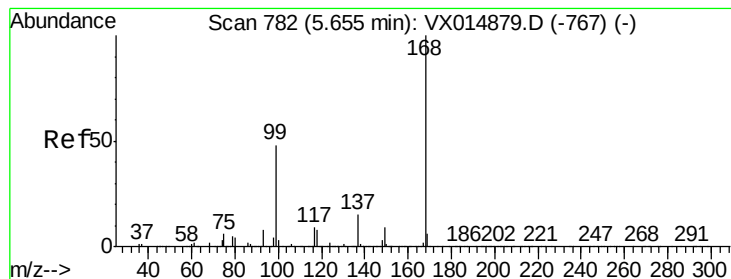
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 13 03:33:51 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
Quant Title : SW846 8260
QLast Update : Mon Feb 10 12:09:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Instrument :

MSVOA_X

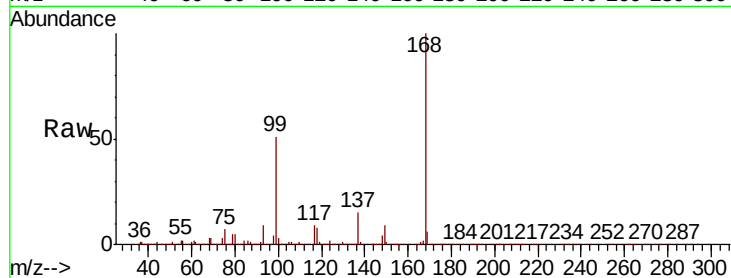
ClientSampleId :

Tot Ion:168 Resp: 448976

Ion Ratio Lower Upper

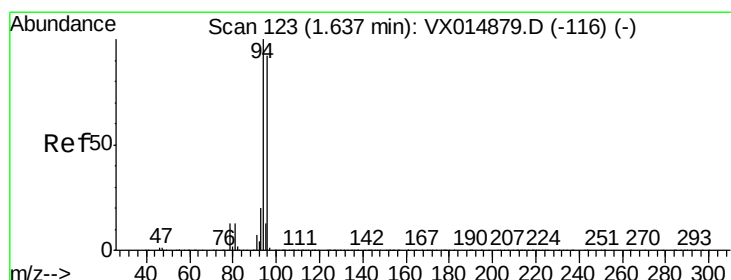
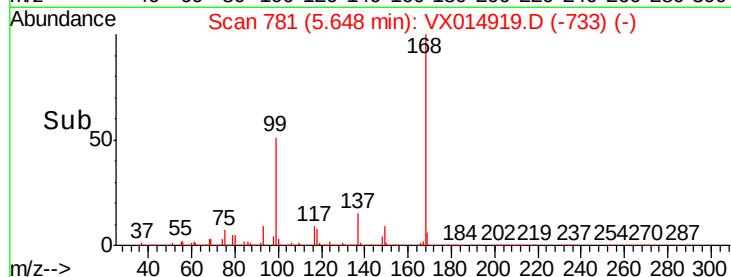
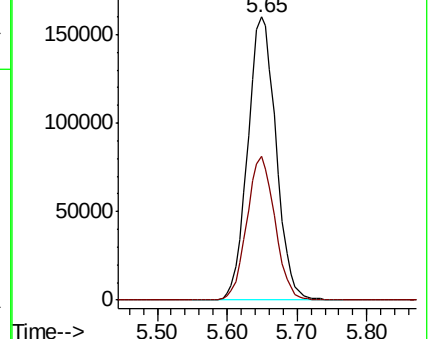
168 100

99 50.6 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.543 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX014919.D

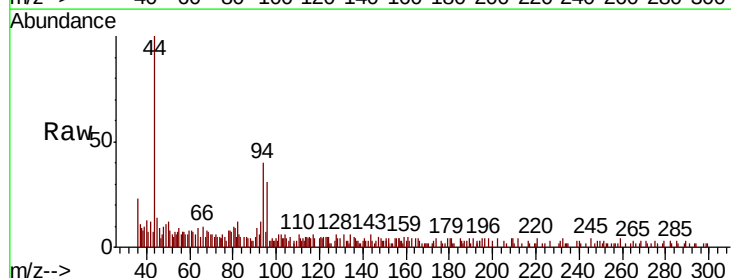
Acq: 12 Feb 2020 12:46

Tgt Ion: 94 Resp: 1824

Ion Ratio Lower Upper

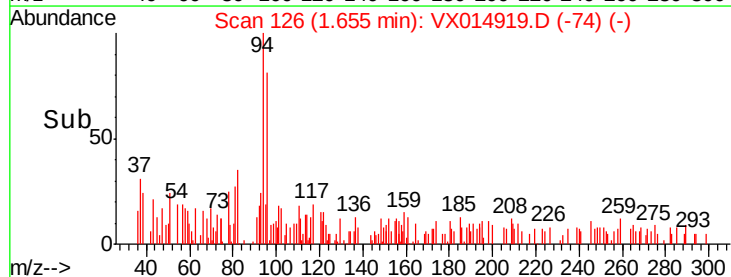
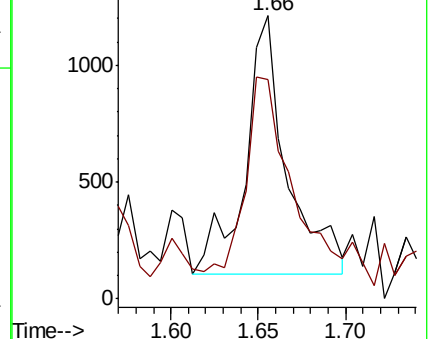
94 100

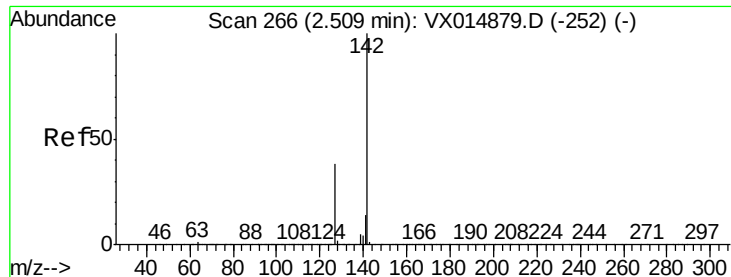
96 73.9 73.7 110.5



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methvl Iodide

Concen: 4.908 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Instrument :

MSVOA_X

ClientSampled :

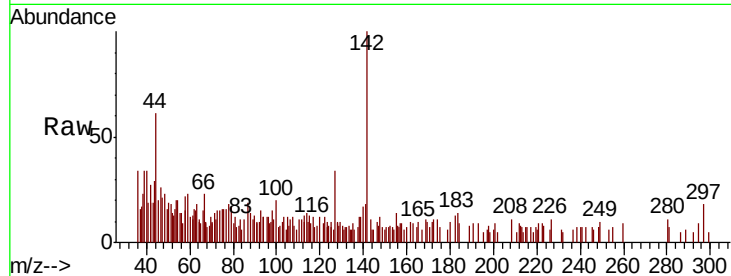
Tot Ion:142 Resp: 2777

Ion Ratio Lower Upper

142 100

127 26.1 31.1 46.7#

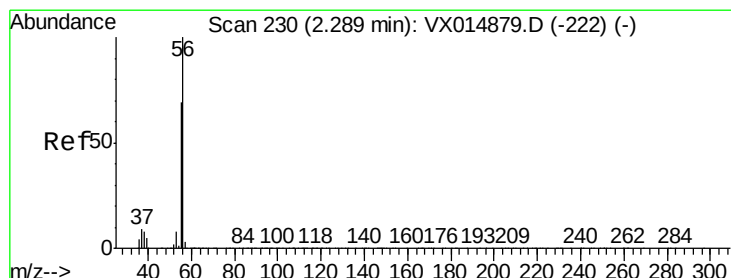
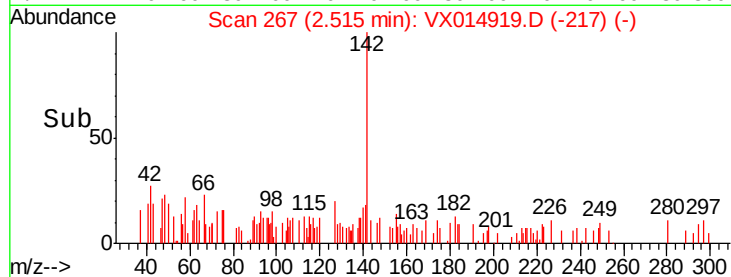
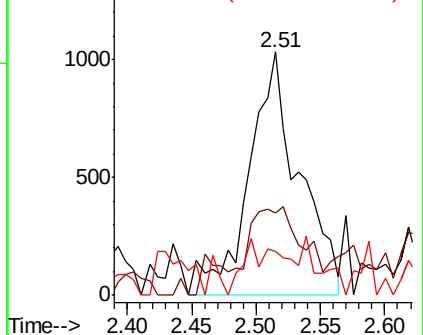
141 0.0 11.3 16.9#



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



#13

Acrolein

Concen: 0.965 ug/l

RT: 2.29 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX014919.D

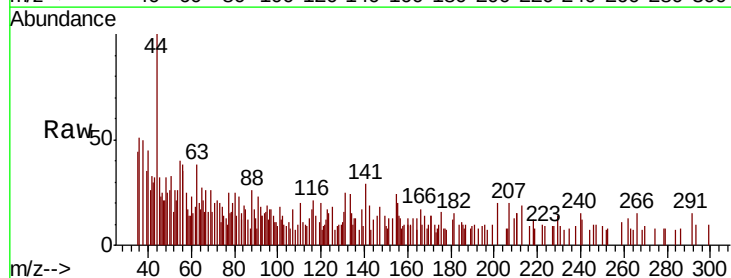
Acq: 12 Feb 2020 12:46

Tgt Ion: 56 Resp: 658

Ion Ratio Lower Upper

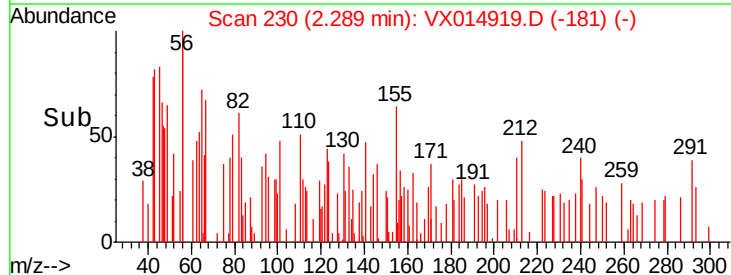
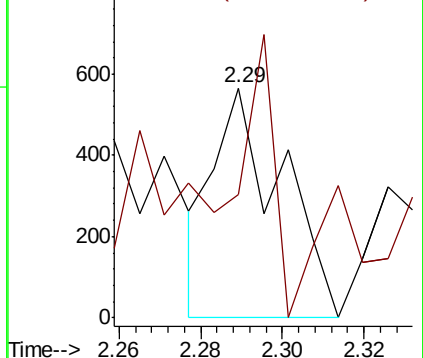
56 100

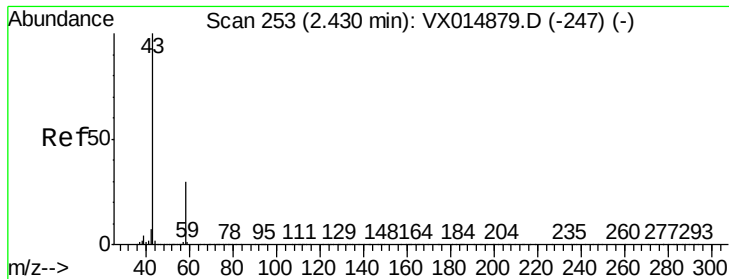
55 26.3 55.0 82.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

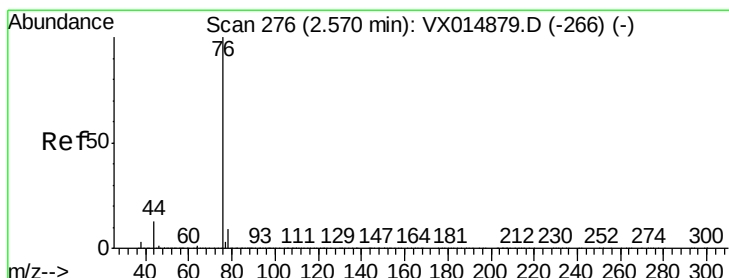
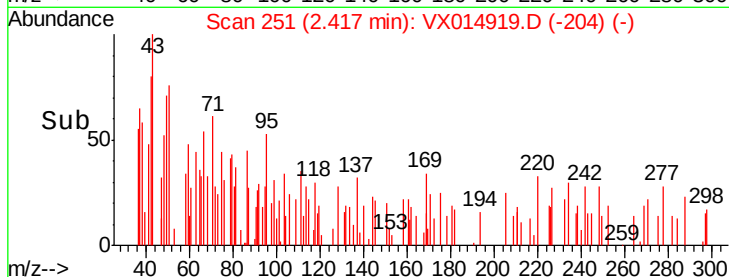
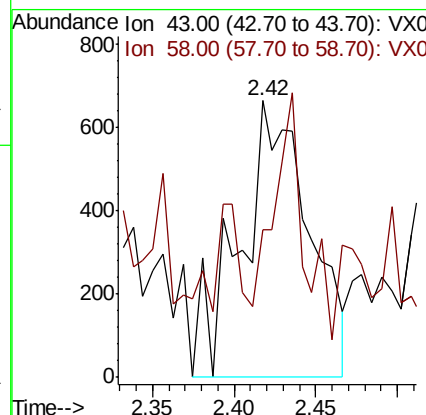
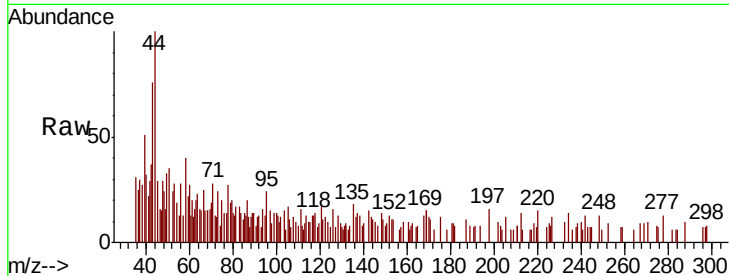




#16
Acetone
Concen: Below Cal
RT: 2.42 min Scan# 251
Delta R.T. -0.01 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

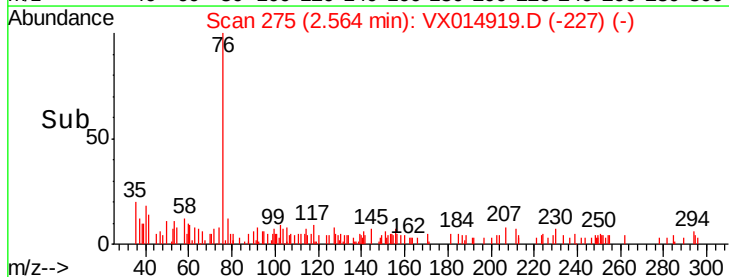
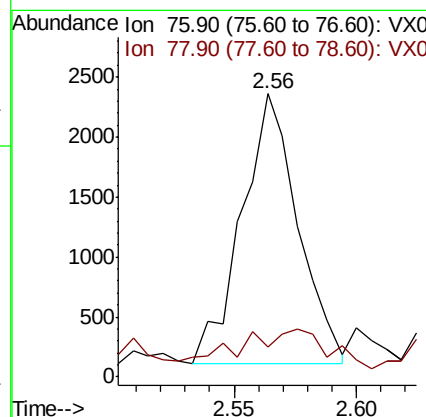
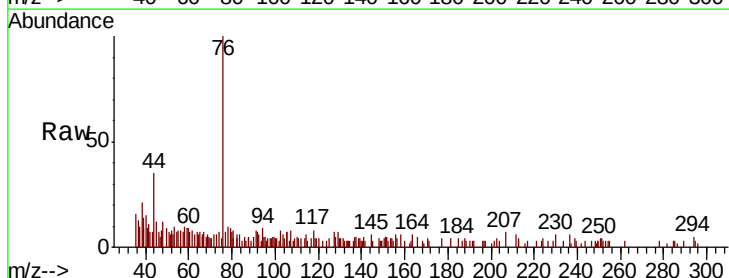
Instrument :
MSVOA_X
ClientSampled :

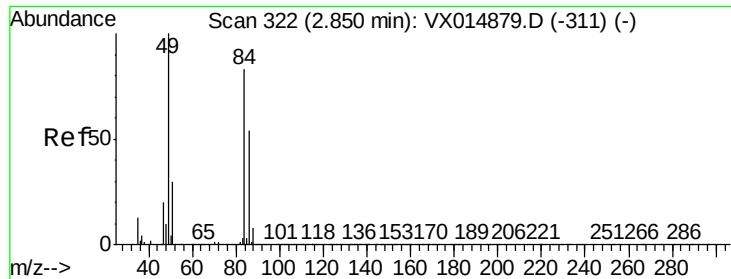
Tot Ion: 43 Resp: 1945
Ion Ratio Lower Upper
43 100
58 25.0 24.1 36.1



#17
Carbon Disulfide
Concen: 0.311 ug/l
RT: 2.56 min Scan# 275
Delta R.T. -0.01 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

Tgt Ion: 76 Resp: 3580
Ion Ratio Lower Upper
76 100
78 3.5 7.4 11.0#

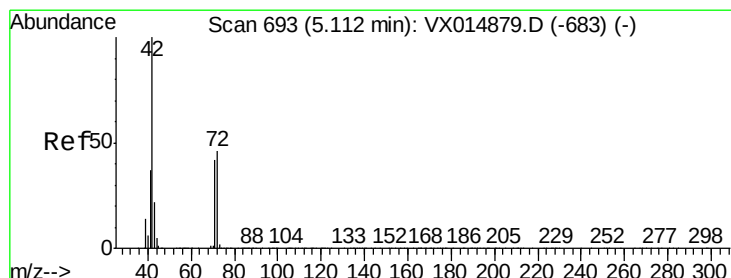
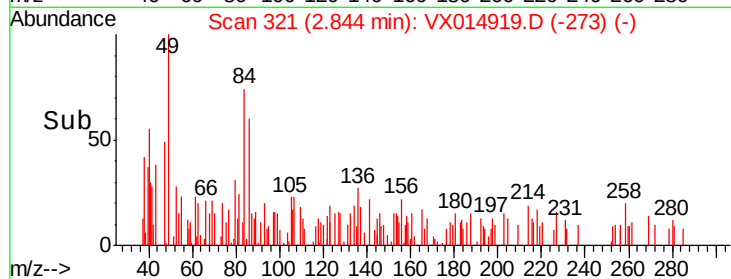
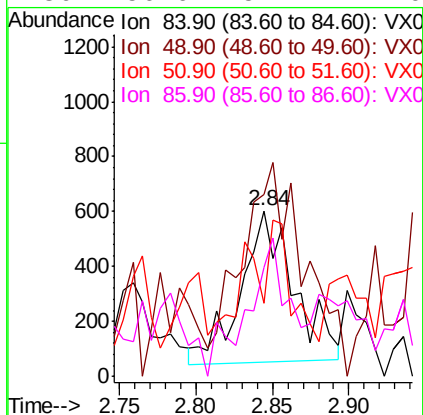
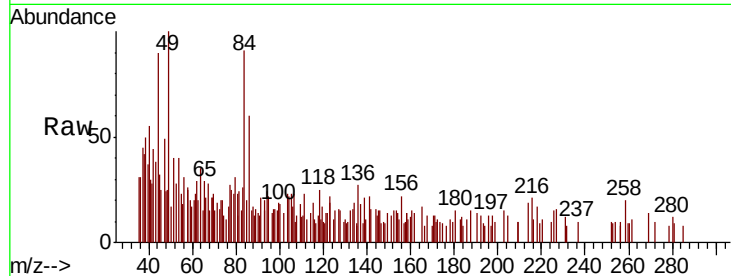




#20
Methylene Chloride
Concen: 0.273 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

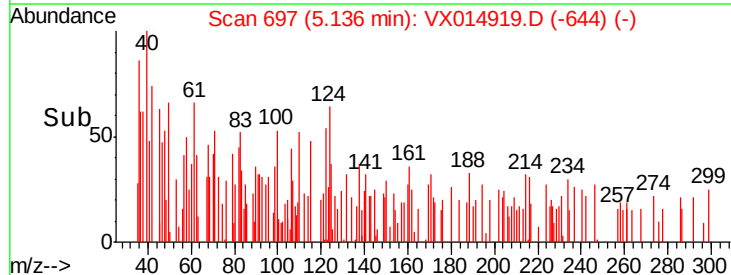
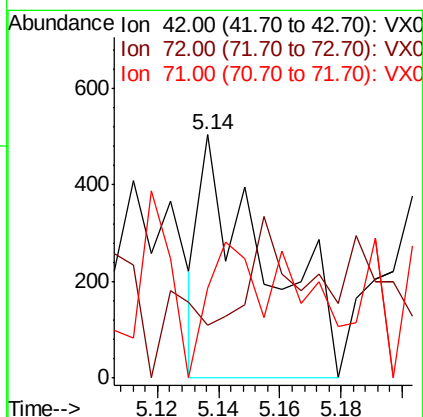
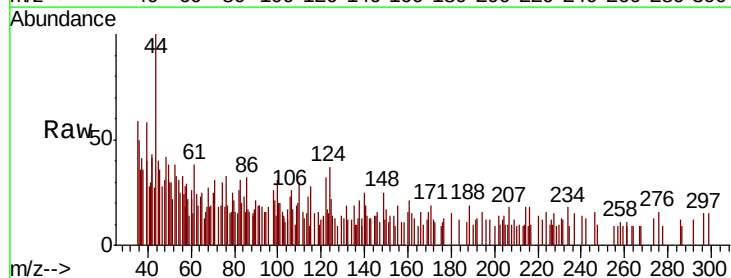
Instrument :
MSVOA_X
ClientSampled :

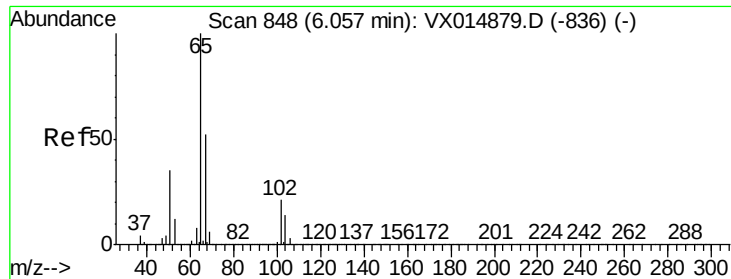
Tot Ion:	84	Resp:	1329
Ion	Ratio	Lower	Upper
84	100		
49	79.5	95.6	143.4#
51	0.0	29.0	43.6#
86	56.6	51.4	77.0



#29
Tetrahydrofuran
Concen: 0.374 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

Tgt Ion:	42	Resp:	734
Ion	Ratio	Lower	Upper
42	100		
72	41.1	36.9	55.3
71	42.0	34.1	51.1

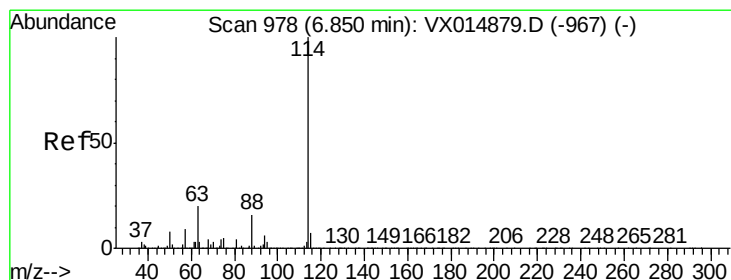
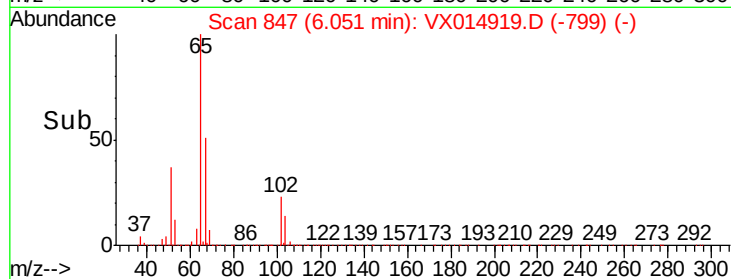
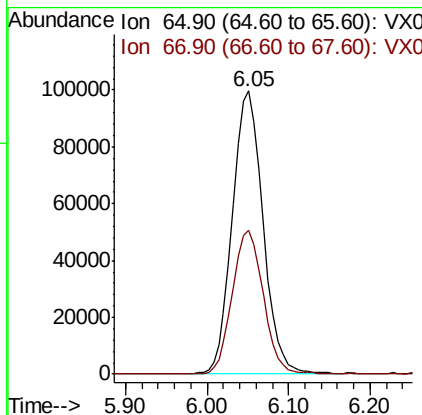
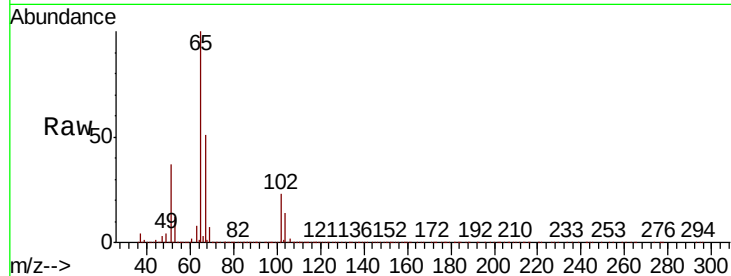




#33
 1,2-Dichloroethane-d4
 Concen: 51.024 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX014919.D
 Acq: 12 Feb 2020 12:46

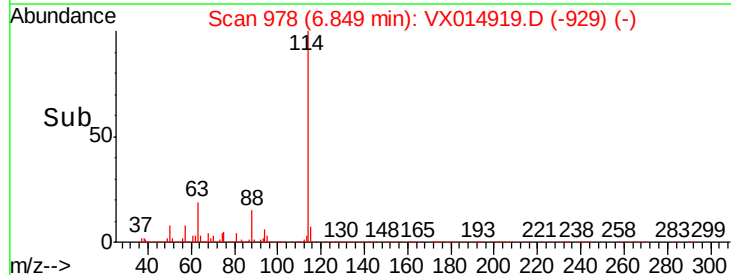
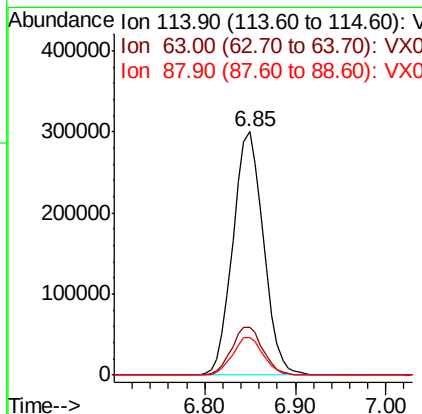
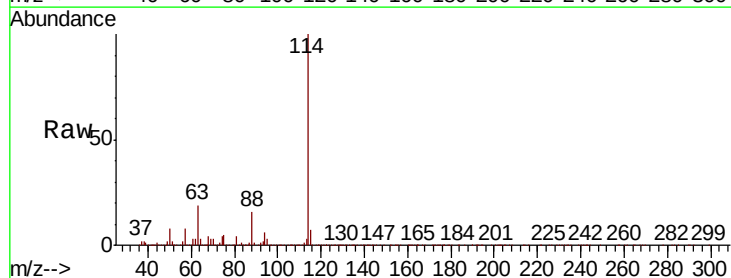
Instrument :
 MSVOA_X
 ClientSampleId :

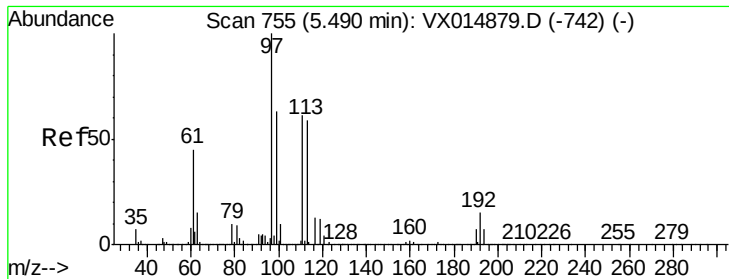
Tot Ion: 65 Resp: 258543
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014919.D
 Acq: 12 Feb 2020 12:46

Tgt Ion: 114 Resp: 702592
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.2
 88 15.5 0.0 32.0





#35

Dibromofluoromethane

Concen: 49.764 ug/l

RT: 5.48 min Scan# 754

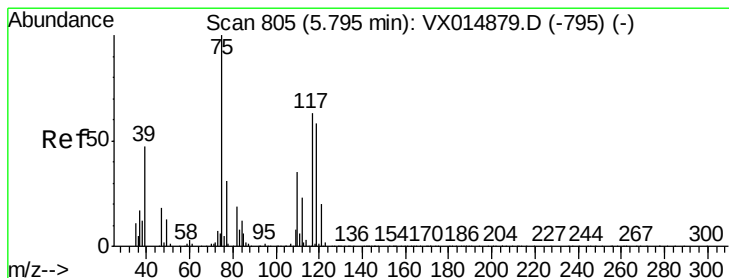
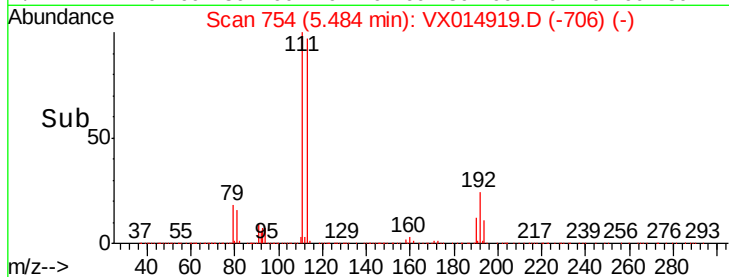
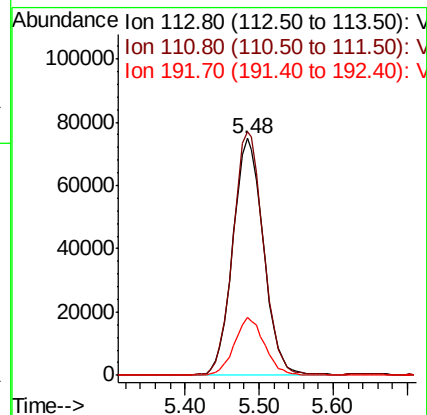
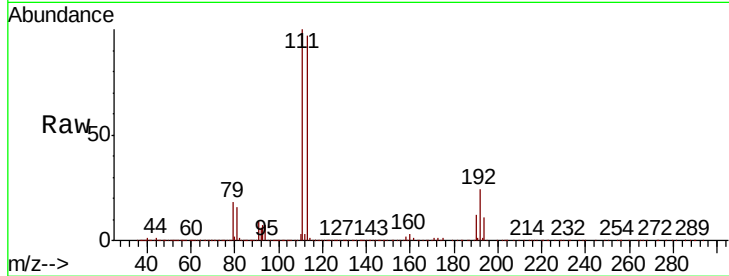
Delta R.T. -0.01 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.4	123.6
192	24.3	19.1	28.7



#36

1,1-Dichloropropene

Concen: 4.817 ug/l

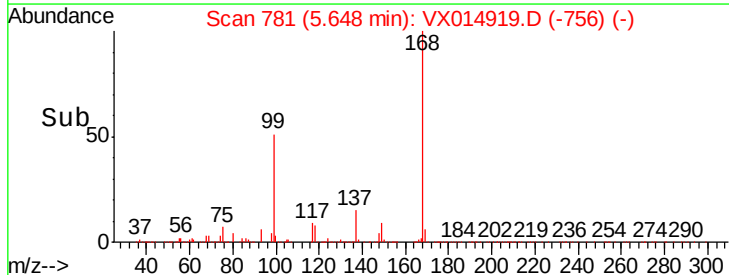
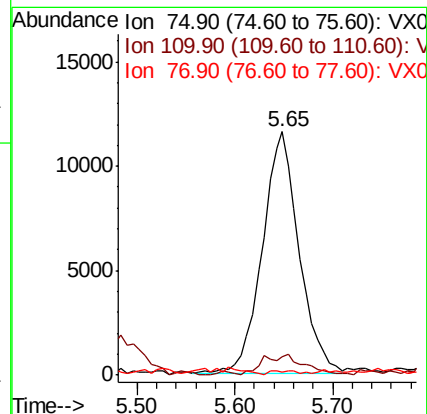
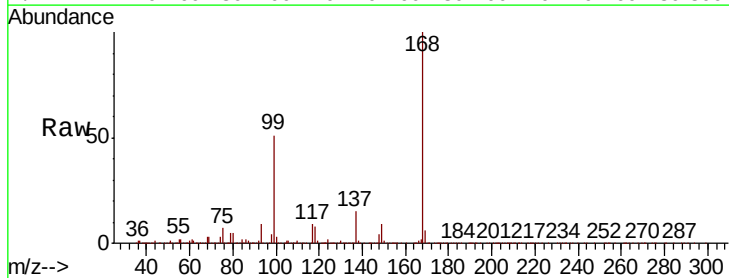
RT: 5.65 min Scan# 781

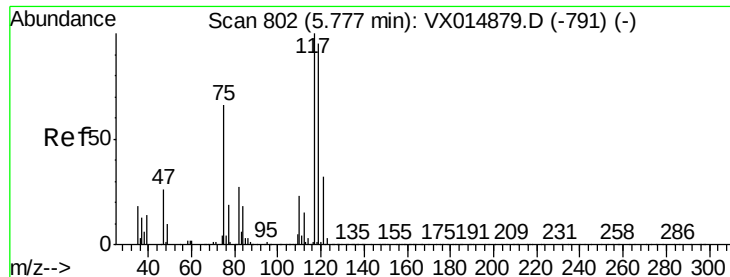
Delta R.T. -0.15 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.0	18.3	54.8#
77	0.6	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.510 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Instrument :

MSVOA_X

ClientSampleId :

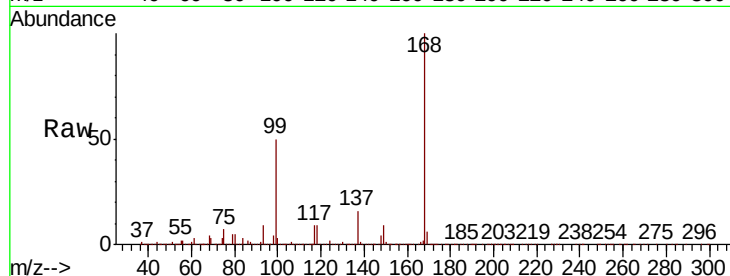
Tot Ion:117 Resp: 39872

Ion Ratio Lower Upper

117 100

119 4.0 76.0 114.0#

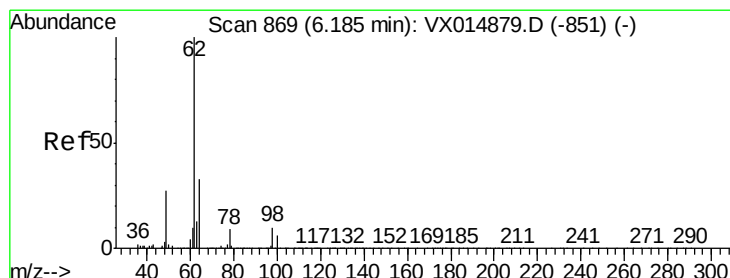
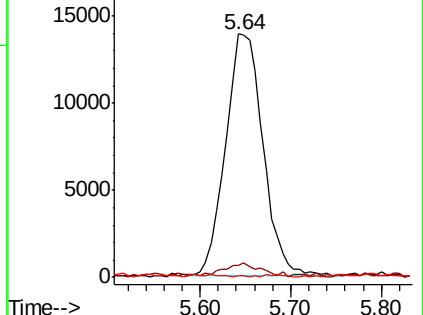
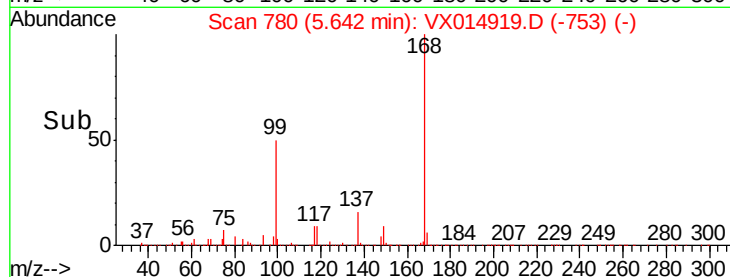
121 0.1 25.4 38.2#



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



#42

1,2-Dichloroethane

Concen: 0.226 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX014919.D

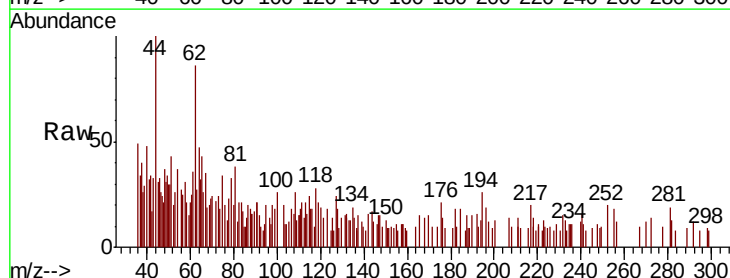
Acq: 12 Feb 2020 12:46

Tgt Ion: 62 Resp: 1534

Ion Ratio Lower Upper

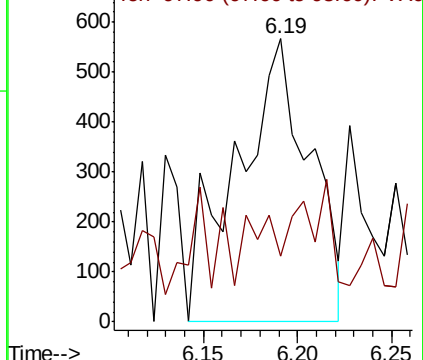
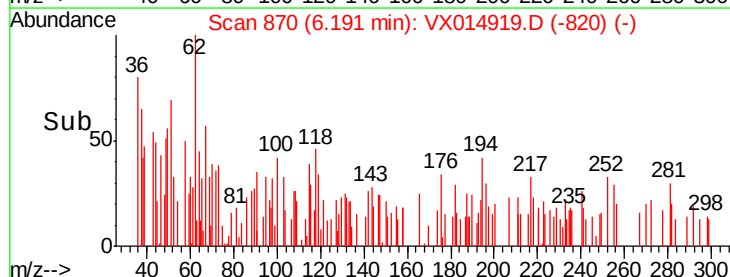
62 100

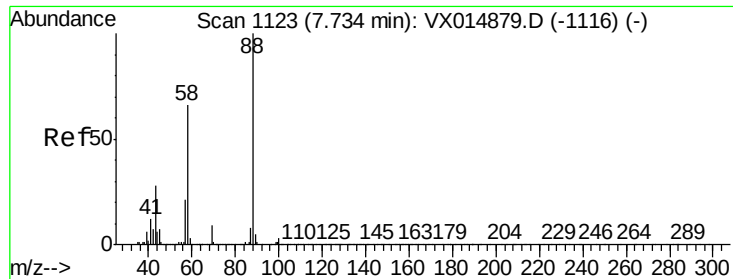
98 17.2 0.0 19.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

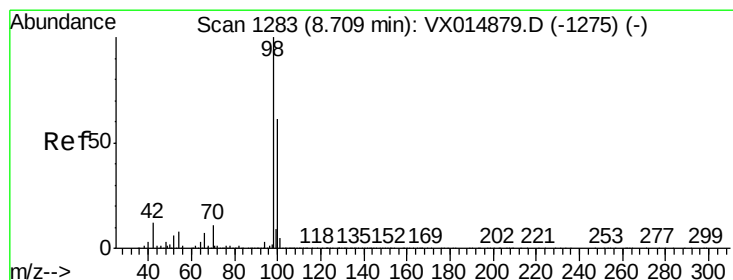
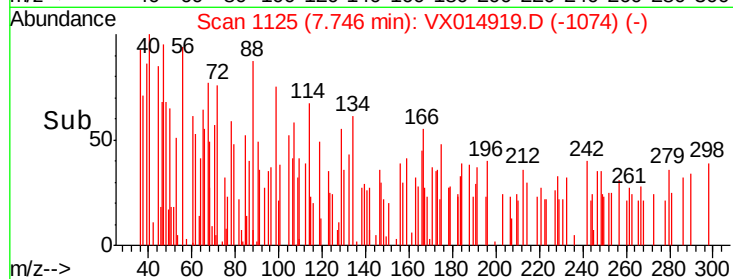
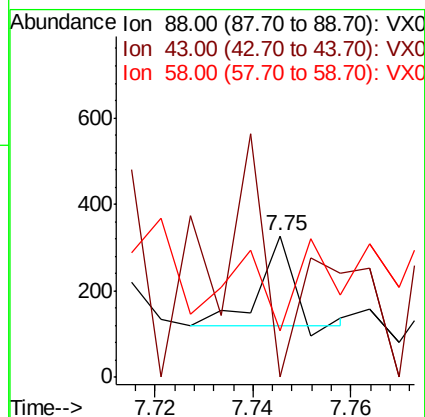
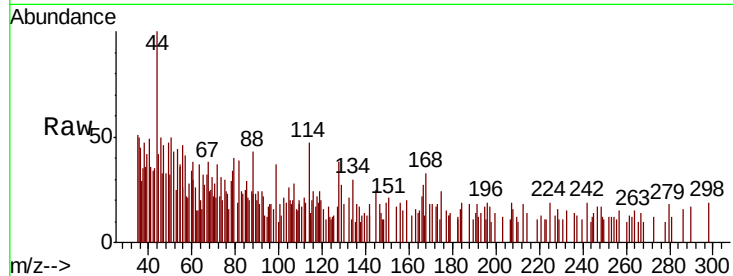




#49
1,4-Dioxane
Concen: 0.995 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

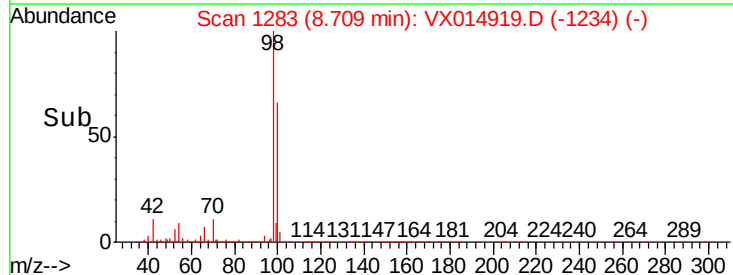
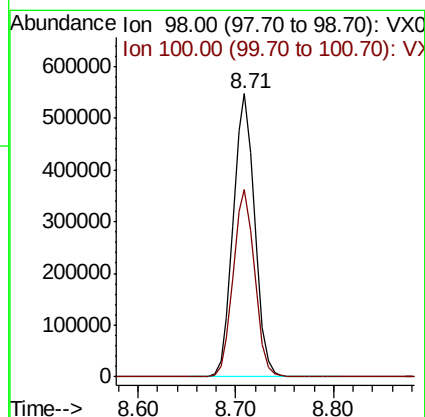
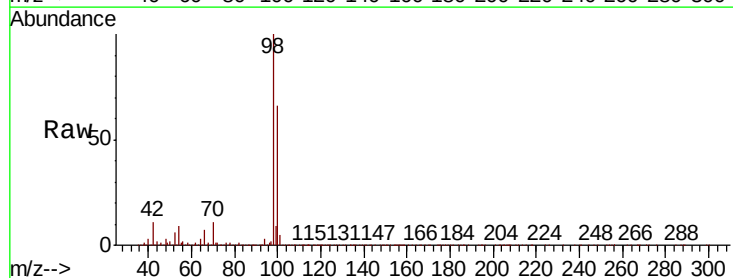
Instrument :
MSVOA_X
ClientSampleId :

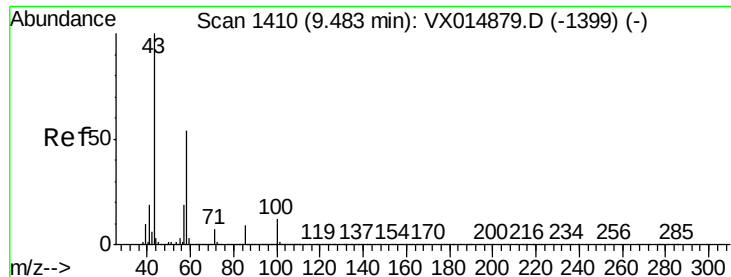
Tot Ion: 88 Resp: 99
Ion Ratio Lower Upper
88 100
43 400.0 27.0 40.4#
58 0.0 53.2 79.8#



#50
Toluene-d8
Concen: 50.813 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

Tgt Ion: 98 Resp: 837773
Ion Ratio Lower Upper
98 100
100 65.9 52.4 78.6

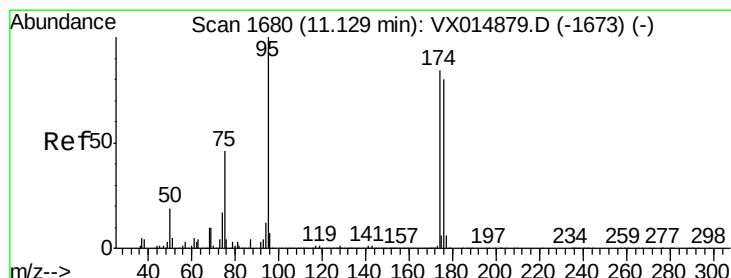
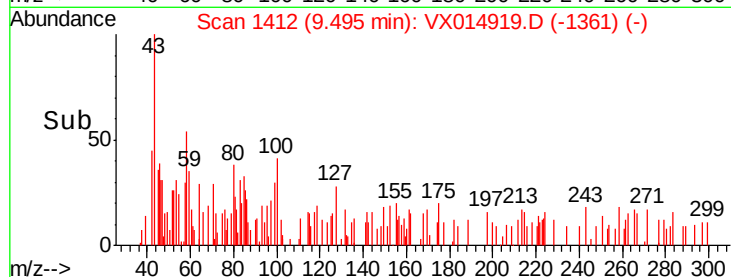
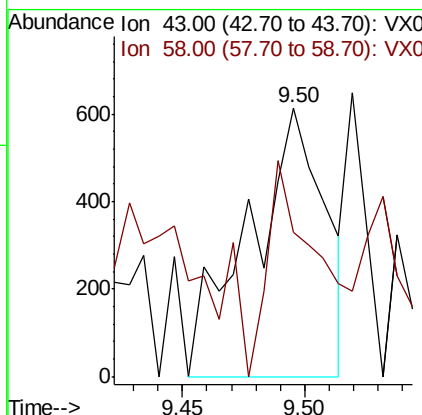
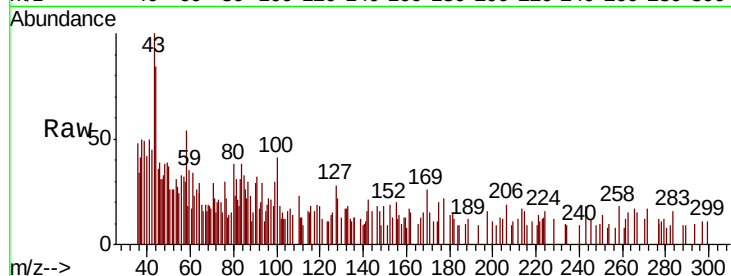




#59
2-Hexanone
Concen: 0.256 ug/l
RT: 9.50 min Scan# 1412
Delta R.T. 0.01 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

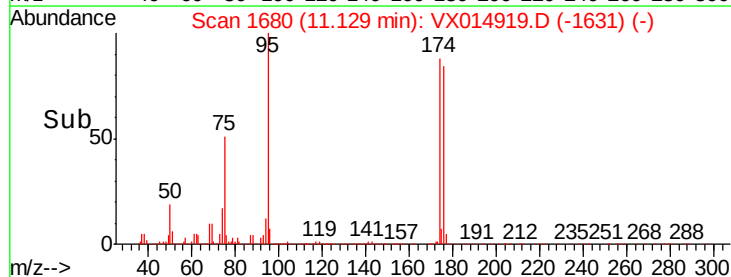
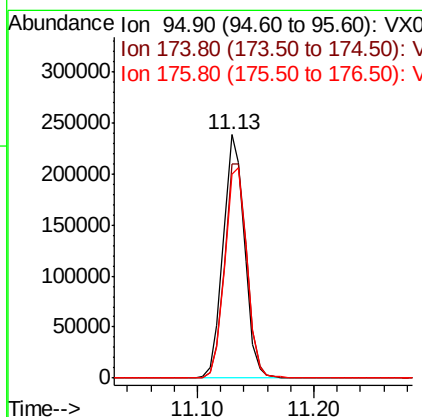
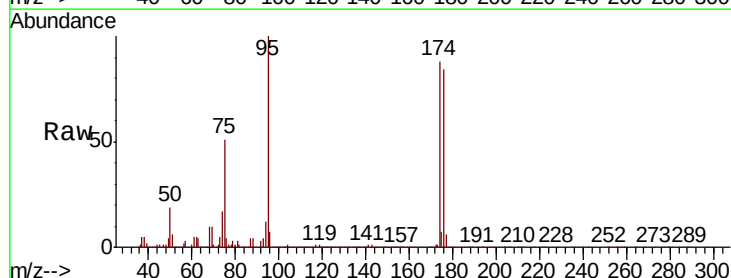
Instrument :
MSVOA_X
ClientSampleId :

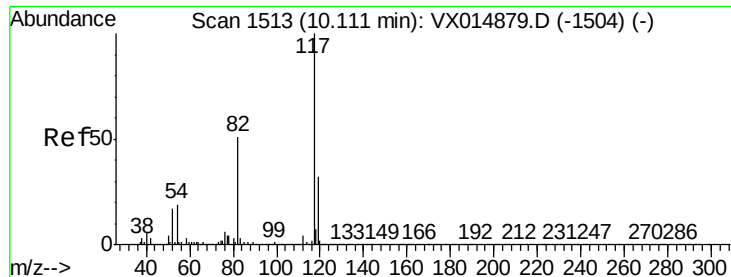
Tot Ion: 43 Resp: 1315
Ion Ratio Lower Upper
43 100
58 55.6 27.5 82.5



#62
4-Bromofluorobenzene
Concen: 50.817 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

Tgt Ion: 95 Resp: 301819
Ion Ratio Lower Upper
95 100
174 92.6 0.0 183.0
176 89.9 0.0 178.0

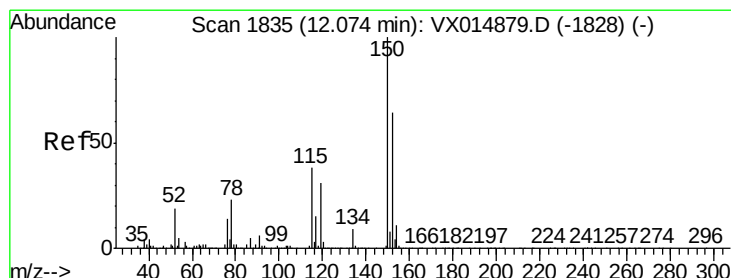
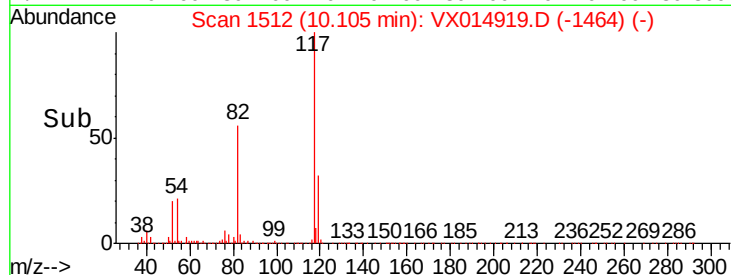
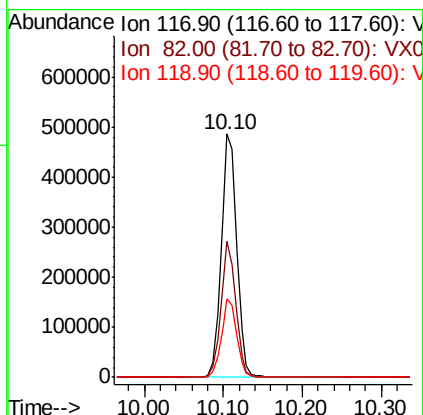
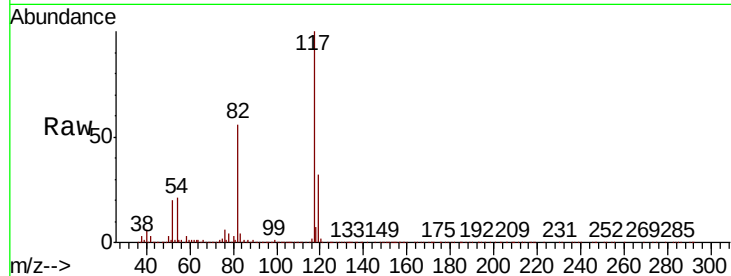




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

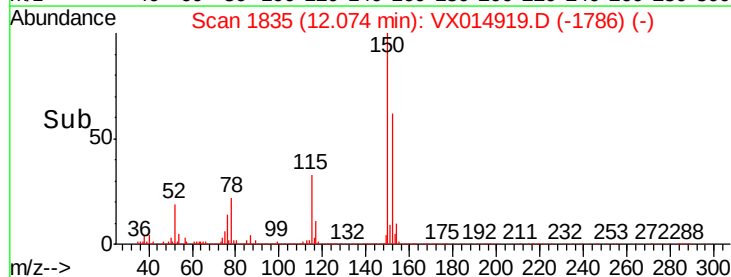
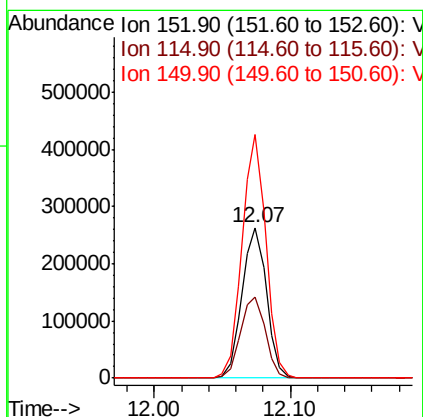
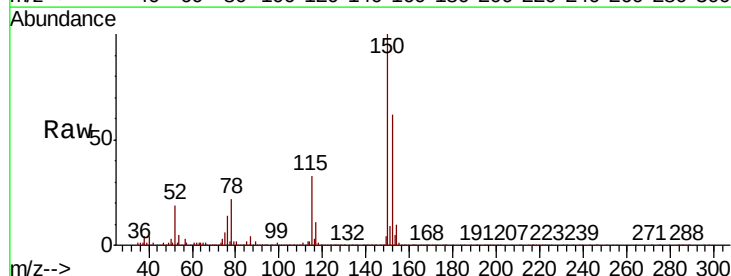
Instrument :
MSVOA_X
ClientSampleId :

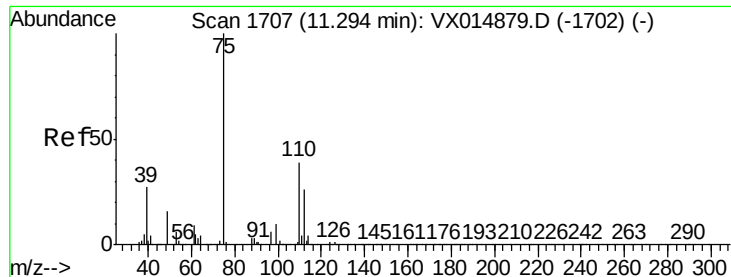
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.8	40.5	60.7
119	32.1	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	38.6	116.0
150	157.6	0.0	349.0





#76

1,2,3-Trichloropropane

Concen: 25.167 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Instrument :

MSVOA_X

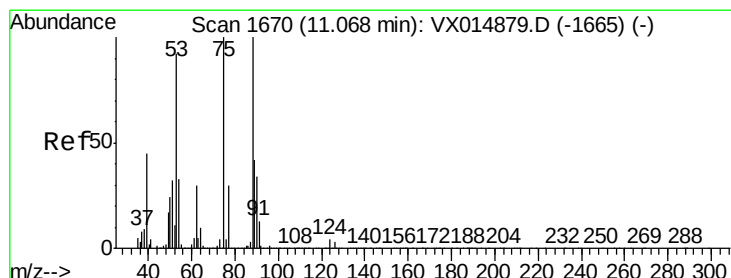
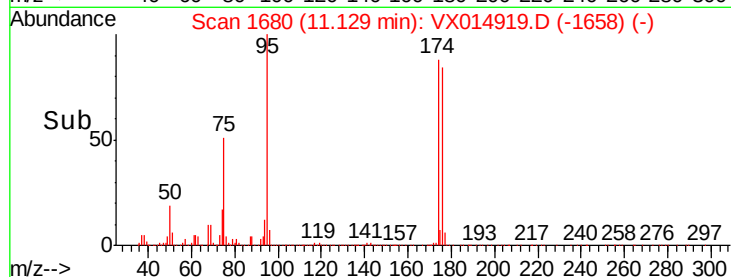
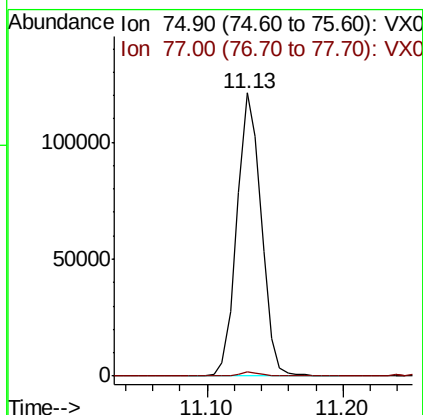
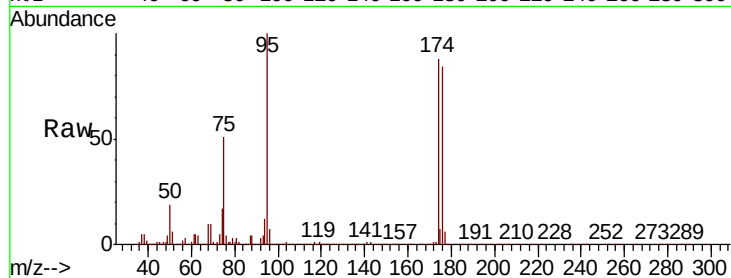
ClientSampled :

Tot Ion: 75 Resp: 150112

Ion Ratio Lower Upper

75 100

77 1.2 18.4 55.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.421 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

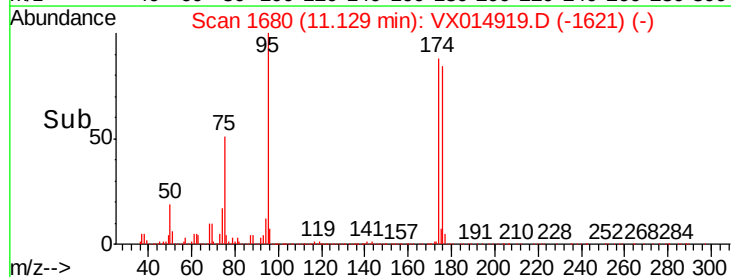
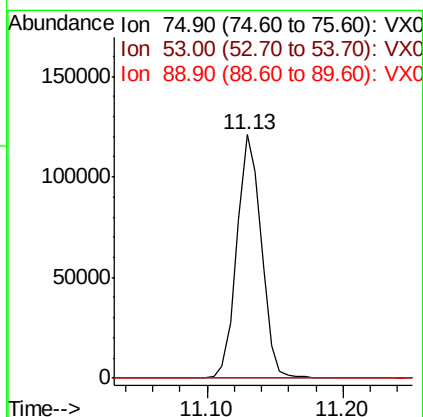
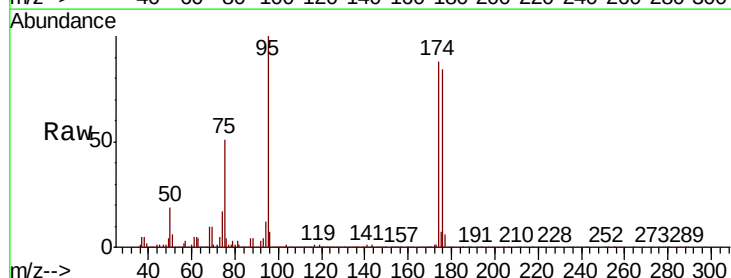
Tgt Ion: 75 Resp: 150112

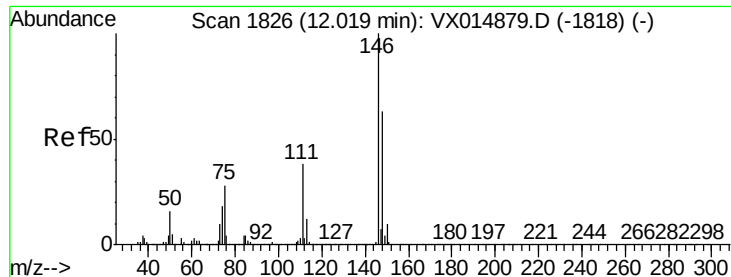
Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.1 35.8 53.6#





#87

1,3-Dichlorobenzene

Concen: 0.208 ug/l

RT: 12.03 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Instrument :

MSVOA_X

ClientSampleId :

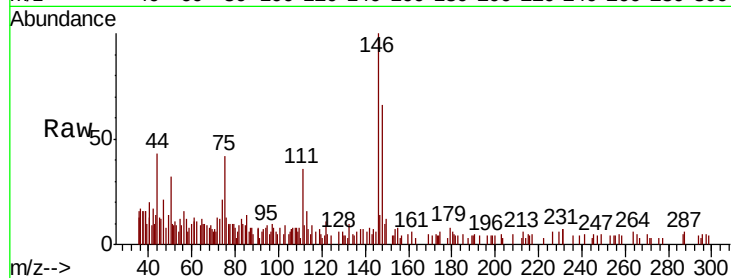
Tot Ion:146 Resp: 2153

Ion Ratio Lower Upper

146 100

111 50.1 18.6 56.0

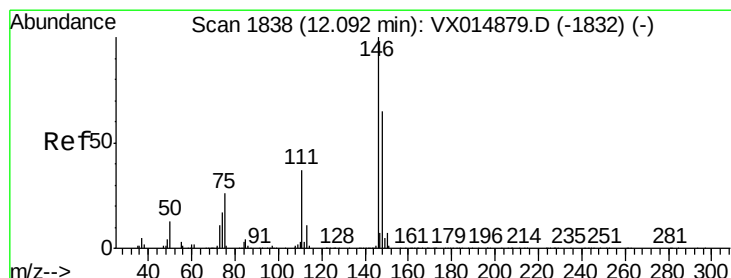
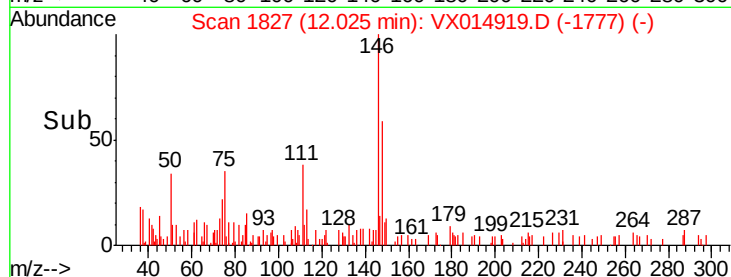
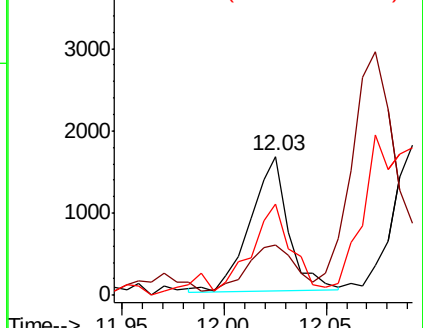
148 73.2 31.8 95.4



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



#88

1,4-Dichlorobenzene

Concen: 0.204 ug/l

RT: 12.03 min Scan# 1827

Delta R.T. -0.07 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

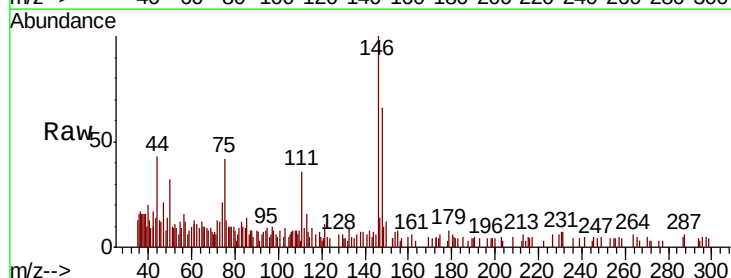
Tgt Ion:146 Resp: 2153

Ion Ratio Lower Upper

146 100

111 44.7 18.6 55.6

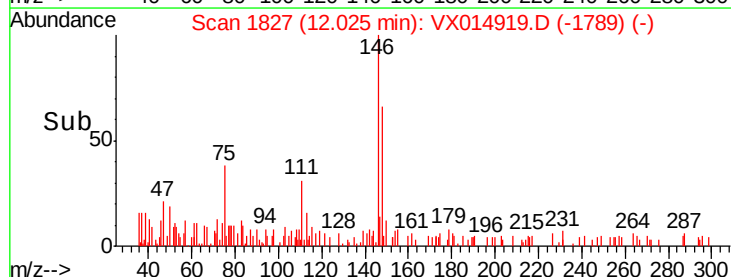
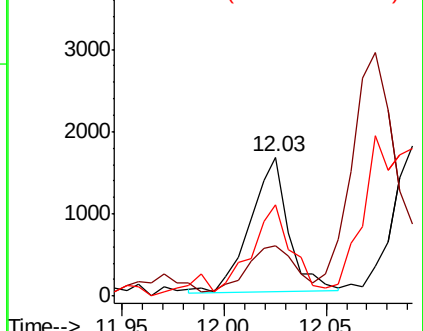
148 73.2 32.4 97.0

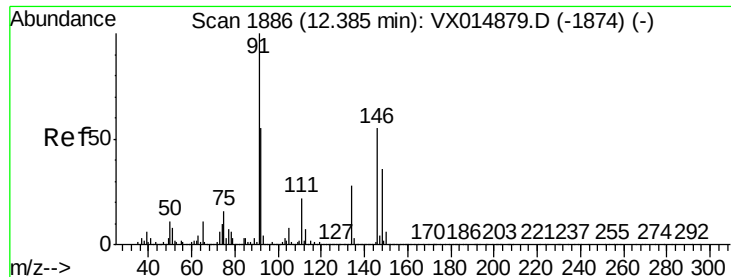


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

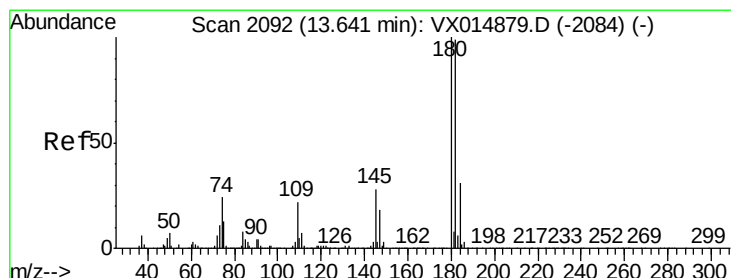
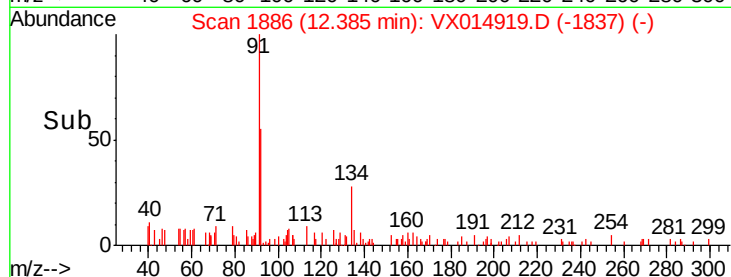
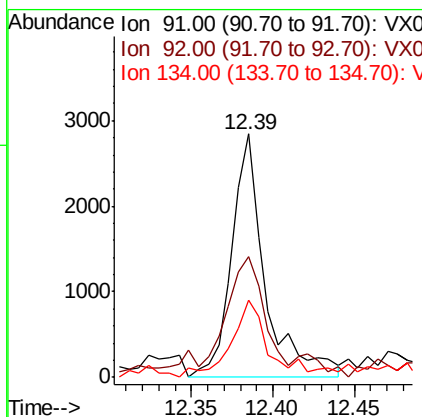
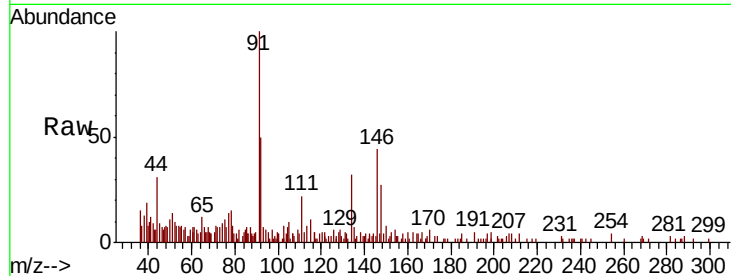




#89
n-Butylbenzene
Concen: 0.239 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

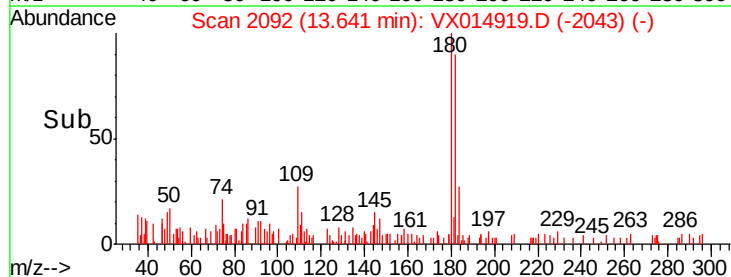
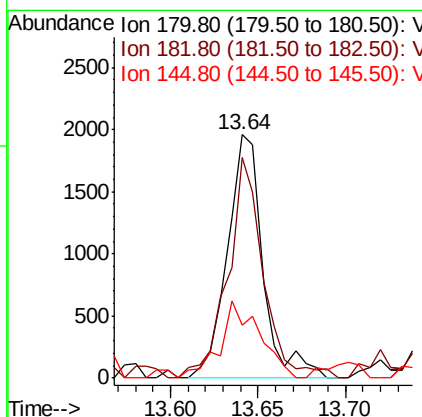
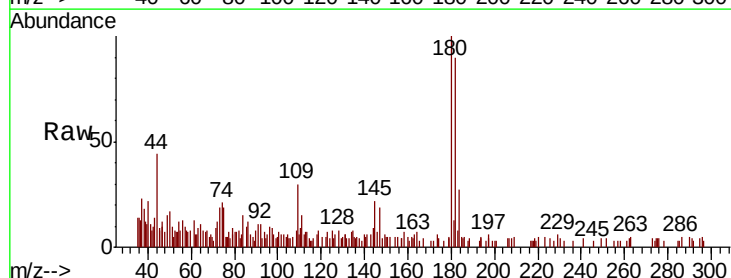
Instrument :
MSVOA_X
ClientSampleId :

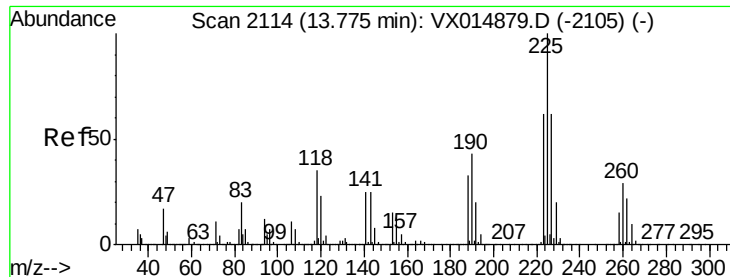
Tot Ion: 91 Resp: 4072
Ion Ratio Lower Upper
91 100
92 49.7 27.3 81.8
134 35.3 13.8 41.4



#93
1,2,4-Trichlorobenzene
Concen: 0.370 ug/l
RT: 13.64 min Scan# 2092
Delta R.T. -0.00 min
Lab File: VX014919.D
Acq: 12 Feb 2020 12:46

Tgt Ion: 180 Resp: 2774
Ion Ratio Lower Upper
180 100
182 90.5 48.4 145.3
145 35.0 14.1 42.4





#94

Hexachlorobutadiene

Concen: 0.438 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Instrument :

MSVOA_X

ClientSampled :

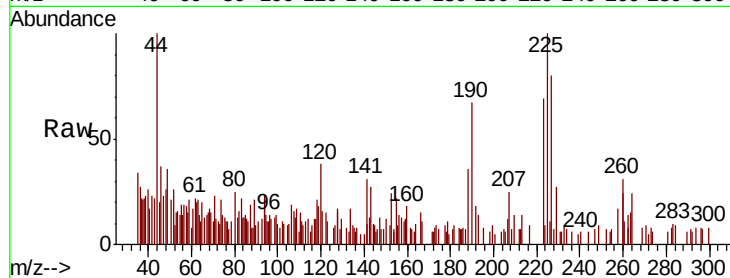
Tot Ion:225 Resp: 1590

Ion Ratio Lower Upper

225 100

223 65.3 31.1 93.2

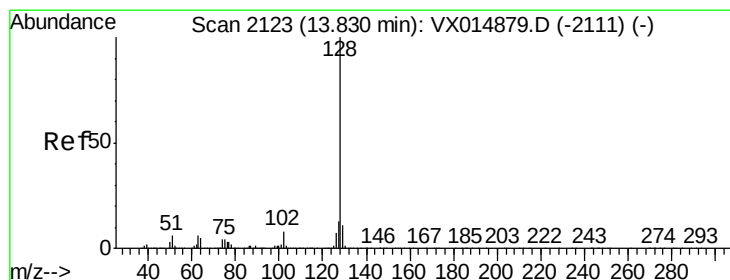
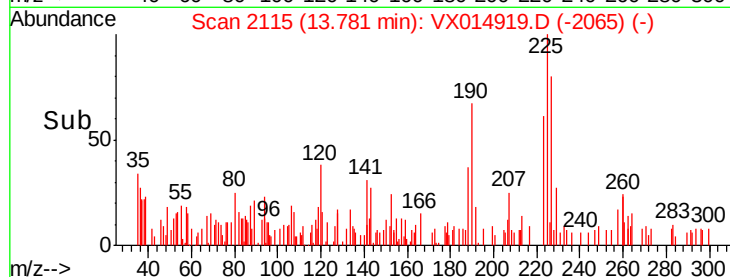
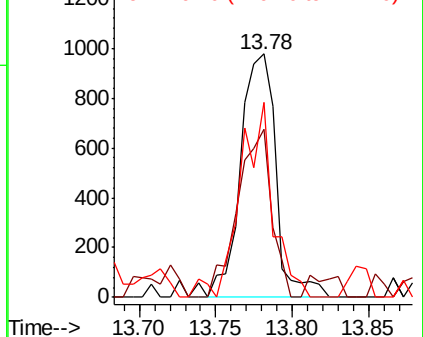
227 73.4 30.9 92.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.330 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

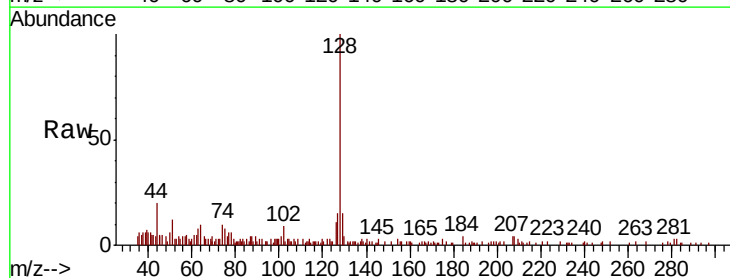
Tgt Ion:128 Resp: 6579

Ion Ratio Lower Upper

128 100

127 16.8 10.4 15.6#

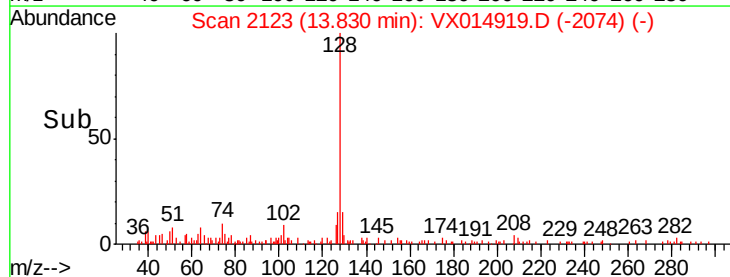
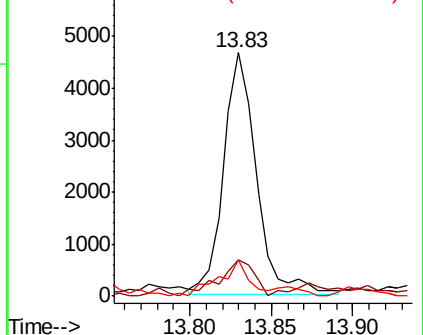
129 13.9 8.6 13.0#

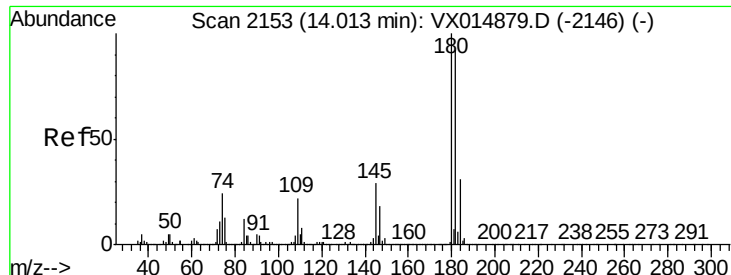


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.423 ug/l

RT: 14.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VX014919.D

Acq: 12 Feb 2020 12:46

Instrument :

MSVOA_X

ClientSampleId :

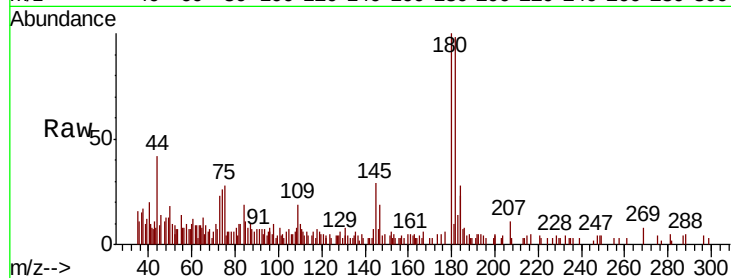
Tot Ion:180 Resp: 3061

Ion Ratio Lower Upper

180 100

182 88.3 47.5 142.6

145 33.1 14.5 43.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

