

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090519\
 Data File : VX012122.D
 Acq On : 06 Sep 2019 02:24
 Operator : SY/SP
 Sample : K4618-02
 Misc : 6.63g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-12-14

Quant Time: Sep 06 05:48:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	150819	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	259873	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	225227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	91151	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	101700	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
35) Dibromofluoromethane	5.48	113	78330	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
50) Toluene-d8	8.71	98	310141	52.88	ug/l	0.00
Spiked Amount			Recovery	=	105.76%	
62) 4-Bromofluorobenzene	11.13	95	118805	43.56	ug/l	0.00
Spiked Amount			Recovery	=	87.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1904	2.647	ug/l	93
10) Methyl Iodide	2.51	142	313	7.161	ug/l #	84
11) Tert butyl alcohol	3.03	59	2008	10.046	ug/l #	67
13) Acrolein	2.28	56	251	Below Cal	#	12
15) Acrylonitrile	3.14	53	491	1.086	ug/l #	46
16) Acetone	2.43	43	46666	93.819	ug/l	100
17) Carbon Disulfide	2.56	76	12011	2.767	ug/l	96
18) Methyl Acetate	2.76	43	2491	2.126	ug/l	95
20) Methylene Chloride	2.84	84	5855	2.931	ug/l	96
25) 2-Butanone	4.67	43	7814	12.341	ug/l	96
29) Tetrahydrofuran	5.12	42	3262	8.551	ug/l #	85
30) Chloroform	5.20	83	4701	1.379	ug/l	91
36) 1,1-Dichloropropene	5.65	75	14003	6.118	ug/l #	49
37) Ethyl Acetate	4.67	43	7814	6.278	ug/l #	73
38) Carbon Tetrachloride	5.65	117	17595	7.295	ug/l #	15
76) 1,2,3-Trichloropropane	11.13	75	62257	55.900	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.13	75	62257	132.156	ug/l #	10
89) n-Butylbenzene	12.37	91	6346	1.035	ug/l #	24
90) Hexachloroethane	12.58	117	3021	2.398	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.01	75	1982	6.793	ug/l #	1
95) Naphthalene	13.83	128	41494	9.979	ug/l	98

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

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ALS Vial : 35 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012122.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_X

ClientSampleId :

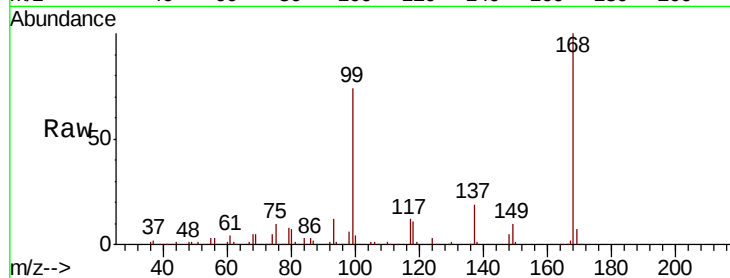
SB-4-12-14

Tgt Ion:168 Resp: 150819

Ion Ratio Lower Upper

168 100

99 73.6 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

30000

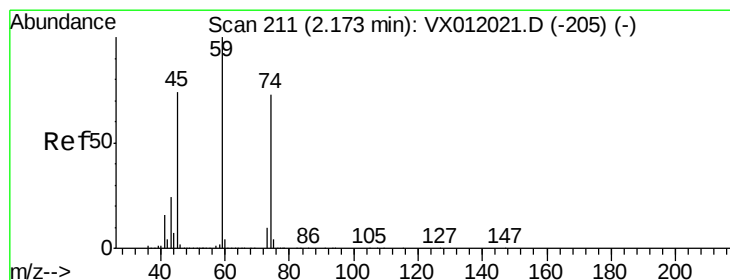
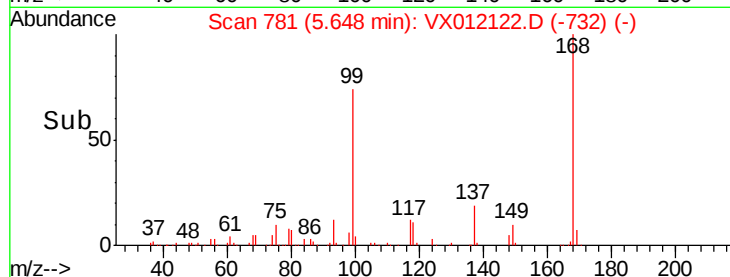
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 2.647 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012122.D

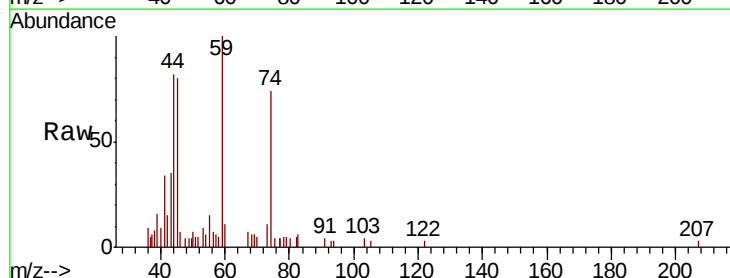
Acq: 06 Sep 2019 02:24

Tgt Ion: 74 Resp: 1904

Ion Ratio Lower Upper

74 100

45 98.8 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1500

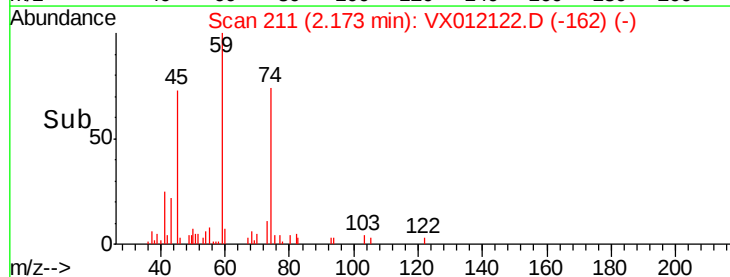
1000

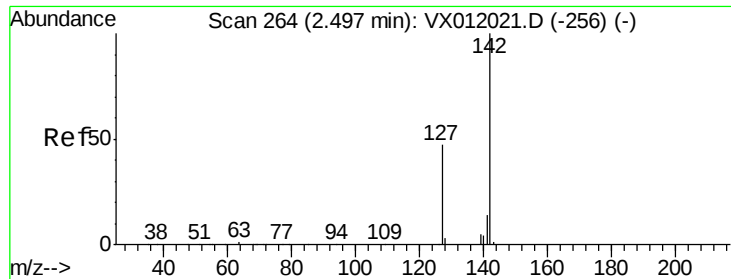
500

0

Time-->

2.10 2.15 2.20

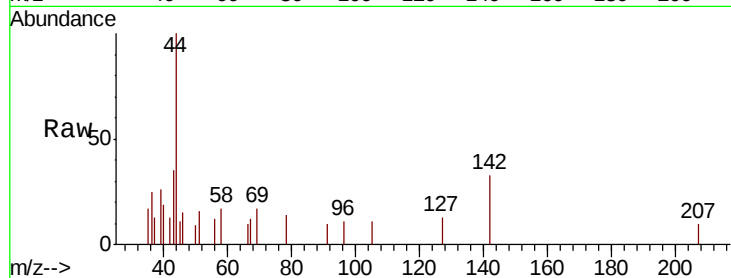




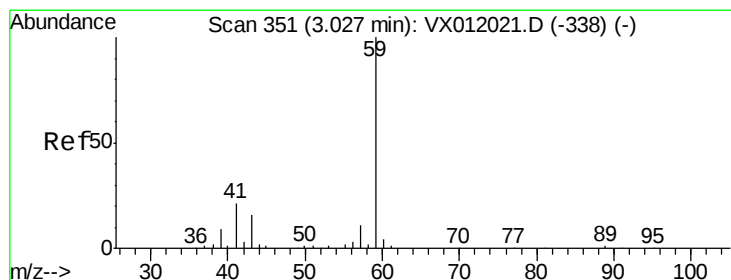
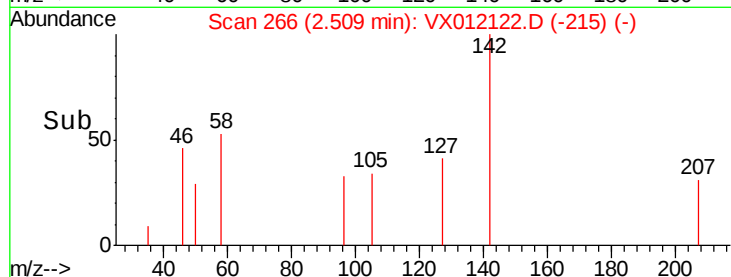
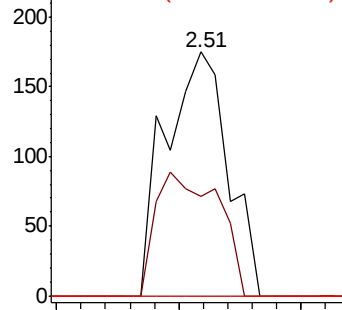
#10
Methyl Iodide
Concen: 7.161 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Instrument :
MSVOA_X
ClientSampleId :
SB-4-12-14

Tgt Ion: 142 Resp: 313
Ion Ratio Lower Upper
142 100
127 50.8 35.4 53.2
141 0.0 11.4 17.2#

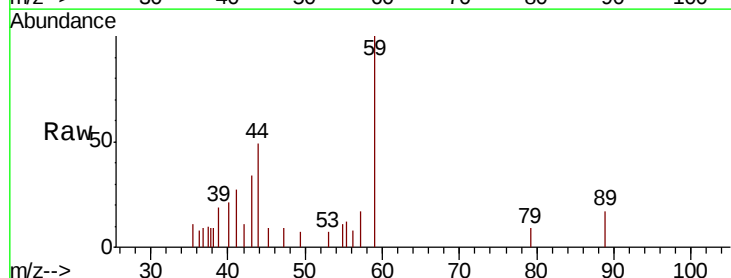


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

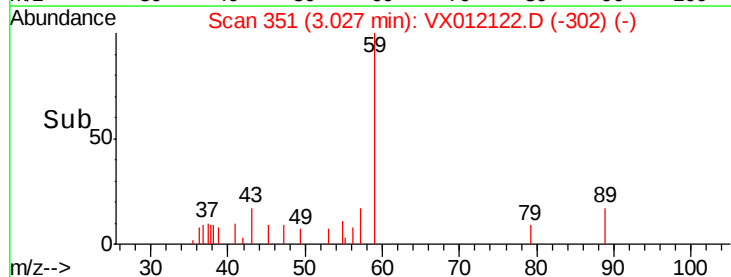
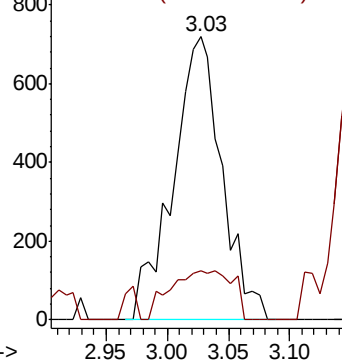


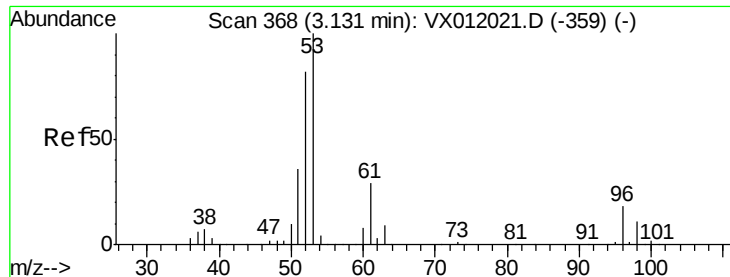
#11
Tert butyl alcohol
Concen: 10.046 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.00 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 59 Resp: 2008
Ion Ratio Lower Upper
59 100
57 22.1 7.9 11.9#



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





#15

Acrylonitrile

Concen: 1.086 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.02 min

Lab File: VX012122.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_X

ClientSampled :

SB-4-12-14

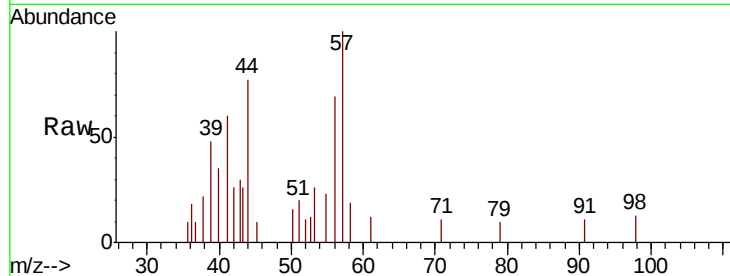
Tgt Ion: 53 Resp: 491

Ion Ratio Lower Upper

53 100

52 21.6 65.6 98.4#

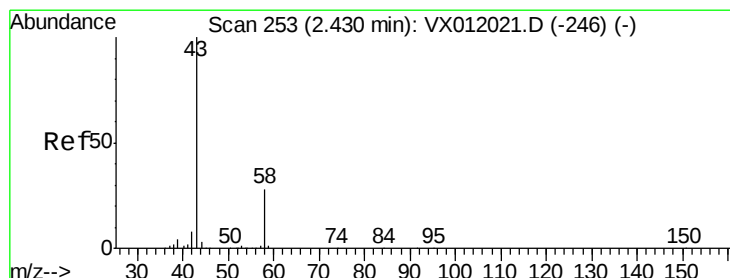
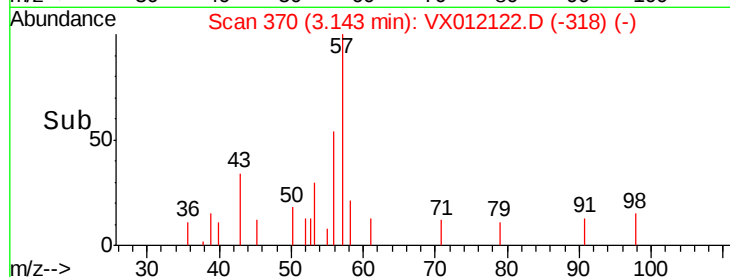
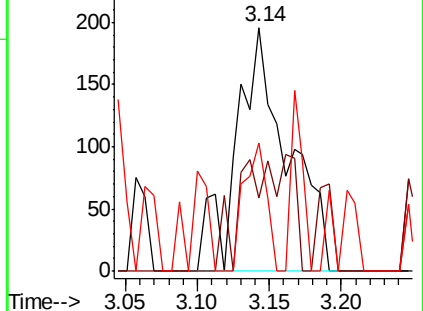
51 23.0 29.8 44.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 93.819 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012122.D

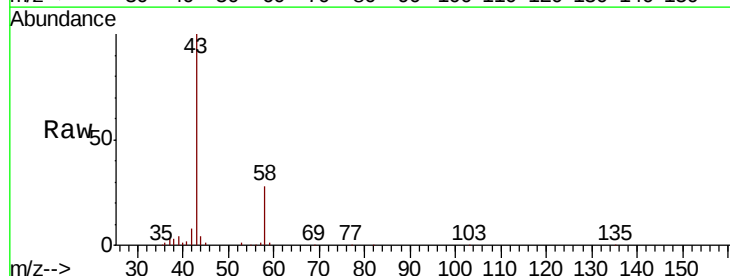
Acq: 06 Sep 2019 02:24

Tgt Ion: 43 Resp: 46666

Ion Ratio Lower Upper

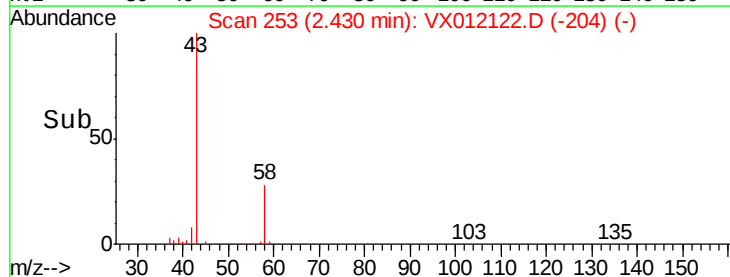
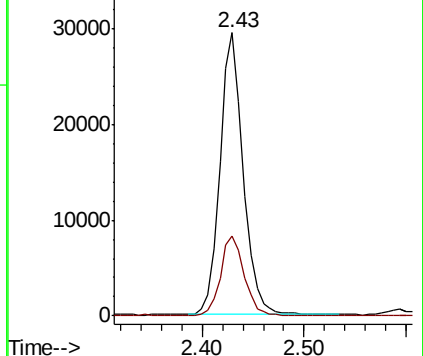
43 100

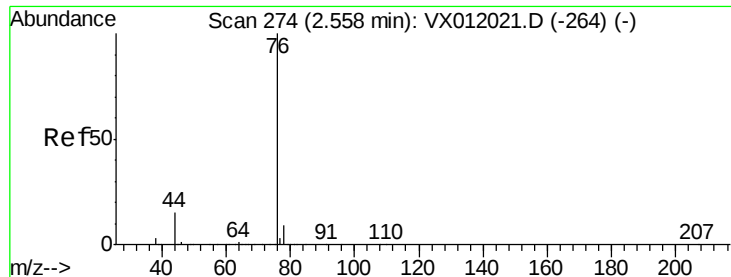
58 28.3 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

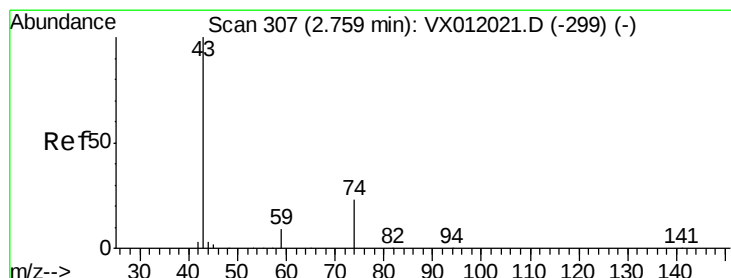
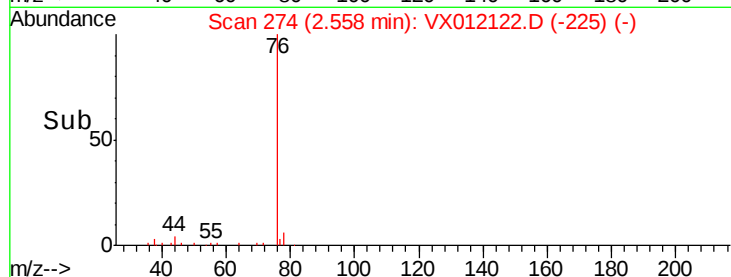
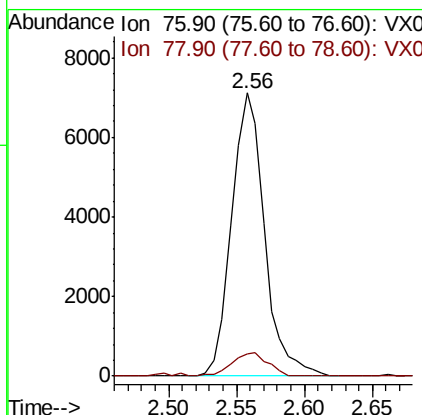
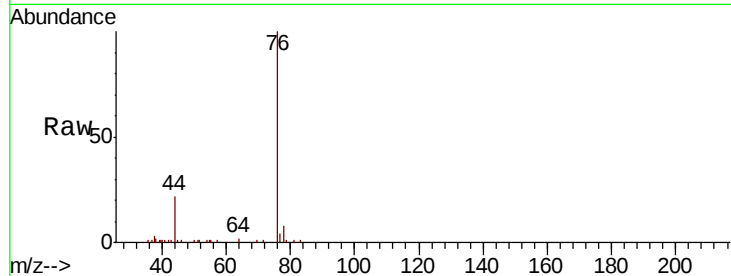




#17
Carbon Disulfide
Concen: 2.767 ug/l
RT: 2.56 min Scan# 274
Delta R.T. -0.00 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

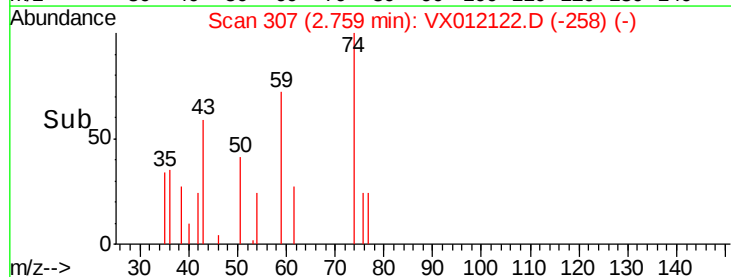
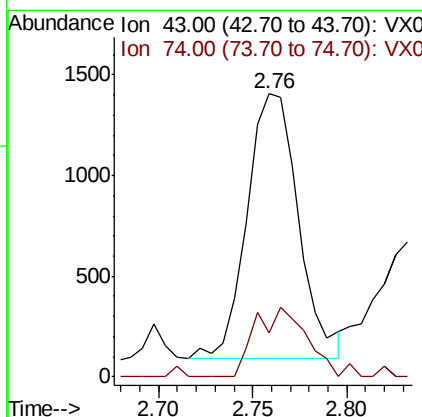
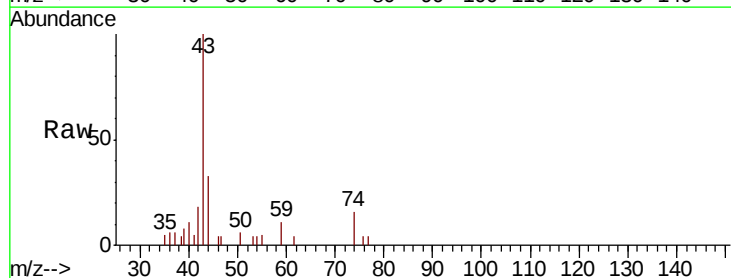
Instrument :
MSVOA_X
ClientSampleId :
SB-4-12-14

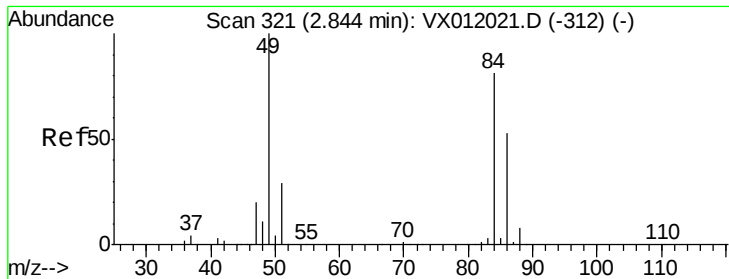
Tgt Ion: 76 Resp: 12011
Ion Ratio Lower Upper
76 100
78 7.9 7.4 11.2



#18
Methyl Acetate
Concen: 2.126 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.00 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 43 Resp: 2491
Ion Ratio Lower Upper
43 100
74 27.1 19.5 29.3

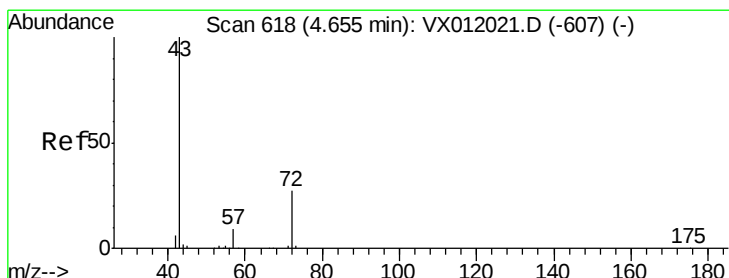
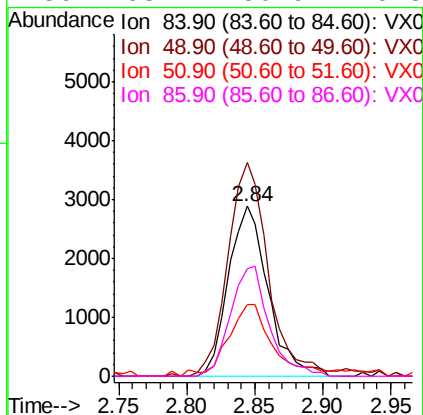
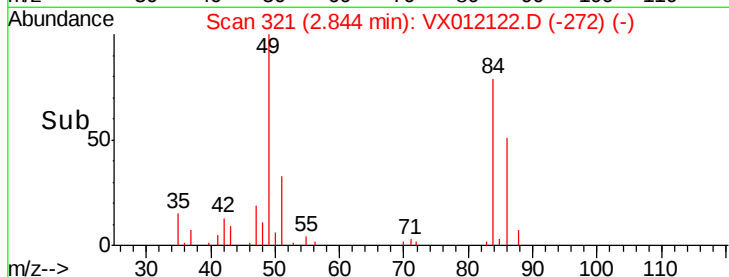
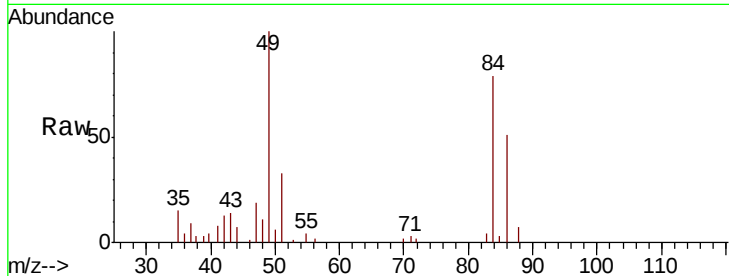




#20
Methylene Chloride
Concen: 2.931 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

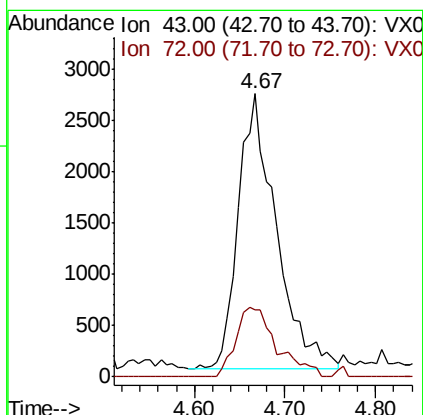
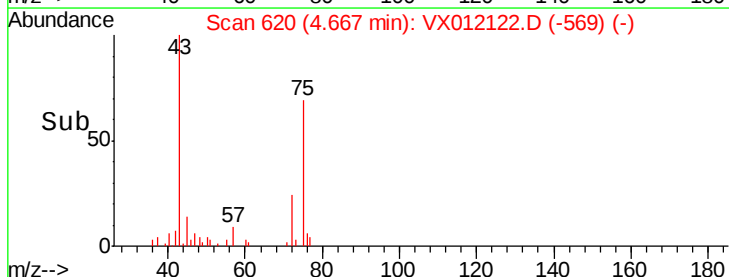
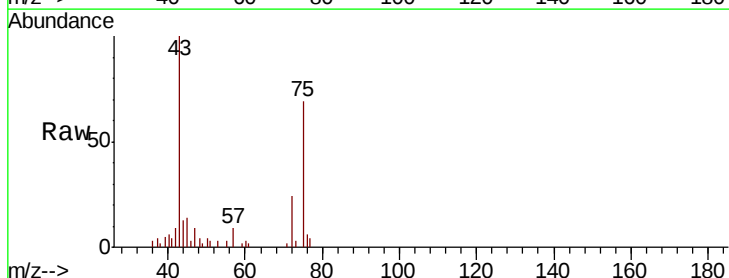
Instrument :
MSVOA_X
ClientSampled :
SB-4-12-14

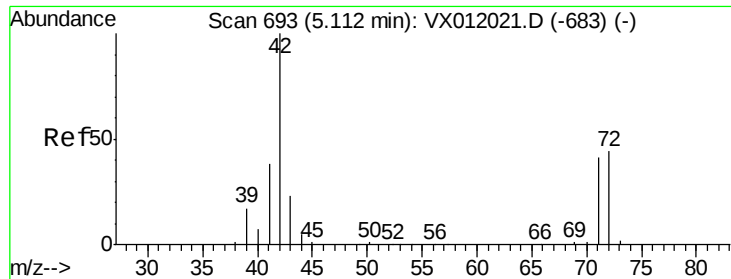
Tgt Ion:	84	Resp:	5855
Ion	Ratio	Lower	Upper
84	100		
49	125.9	95.8	143.8
51	38.6	28.6	43.0
86	63.7	50.9	76.3



#25
2-Butanone
Concen: 12.341 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Tgt Ion:	43	Resp:	7814
Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.3	31.9

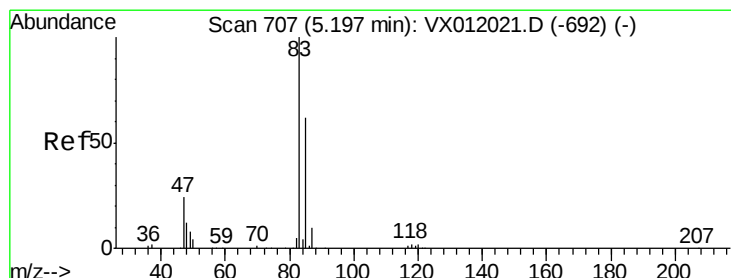
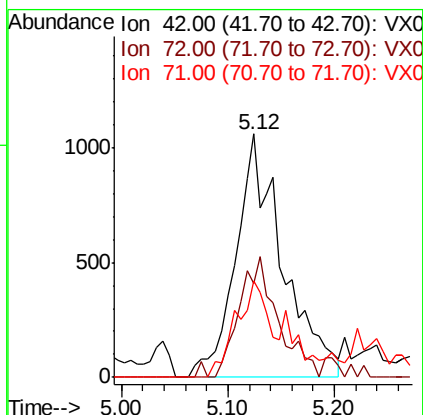
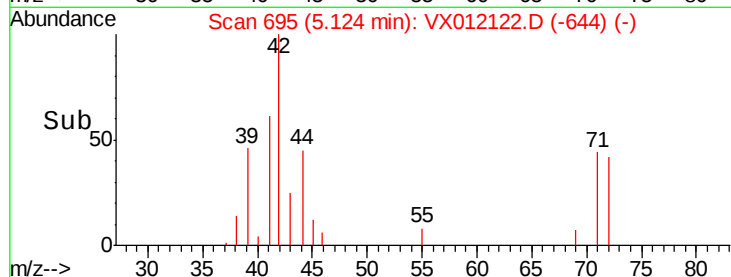
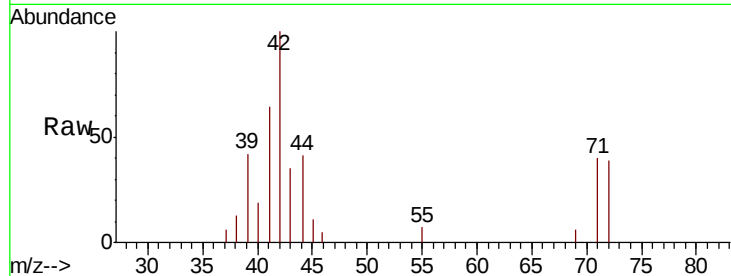




#29
Tetrahydrofuran
Concen: 8.551 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

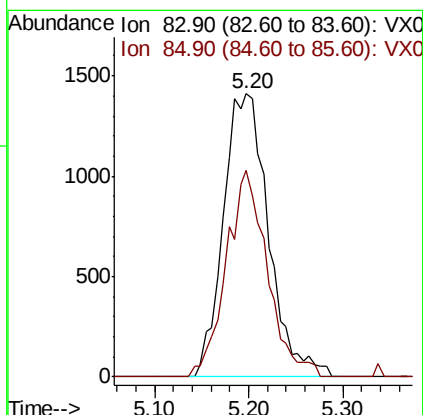
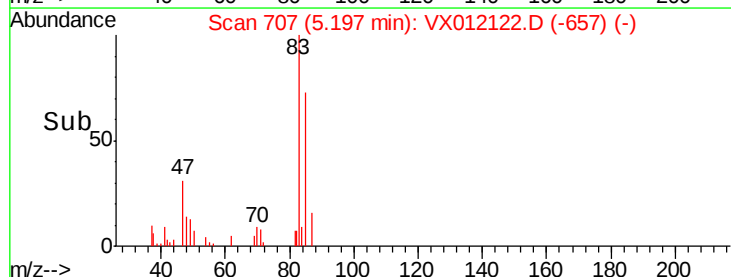
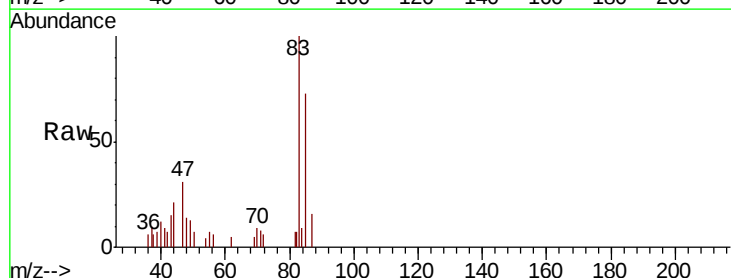
Instrument :
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ClientSampled :
SB-4-12-14

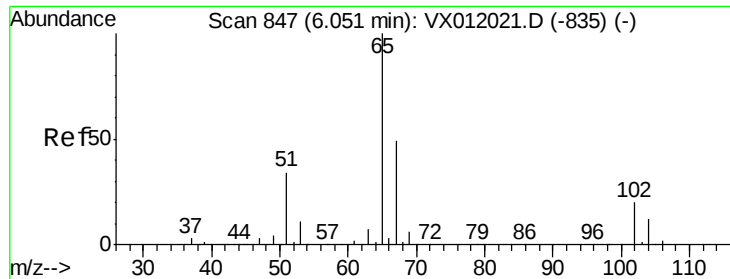
Tgt Ion: 42 Resp: 3262
Ion Ratio Lower Upper
42 100
72 40.9 37.0 55.4
71 28.4 33.8 50.8#



#30
Chloroform
Concen: 1.379 ug/l
RT: 5.20 min Scan# 707
Delta R.T. 0.01 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 83 Resp: 4701
Ion Ratio Lower Upper
83 100
85 73.0 52.6 78.8

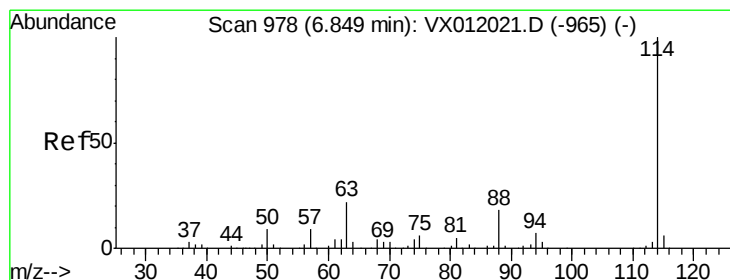
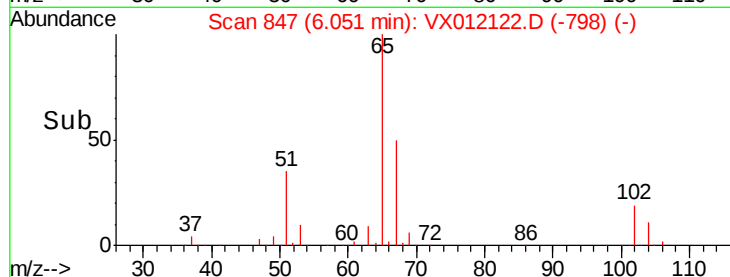
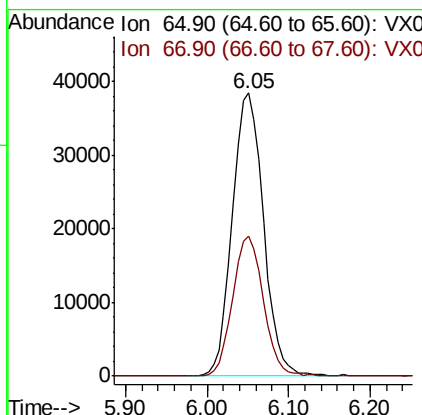
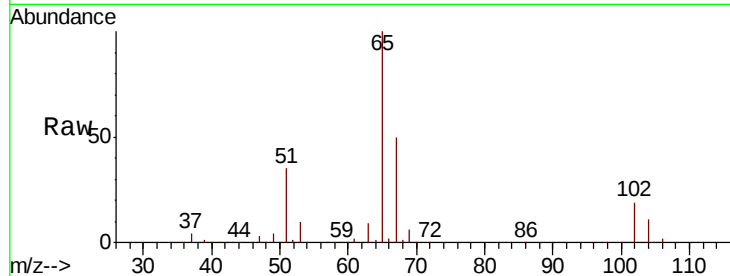




#33
 1,2-Dichloroethane-d4
 Concen: 48.871 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX012122.D
 Acq: 06 Sep 2019 02:24

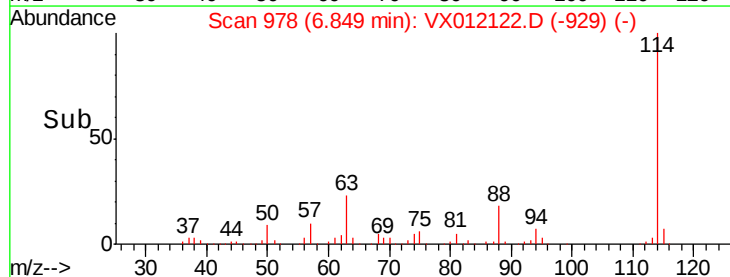
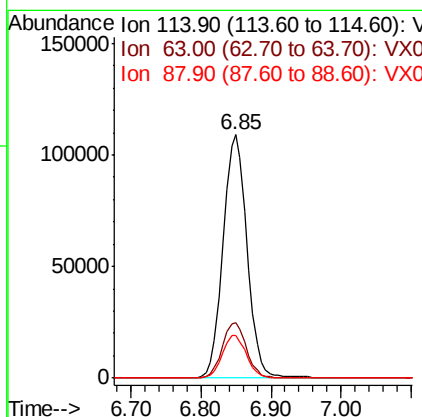
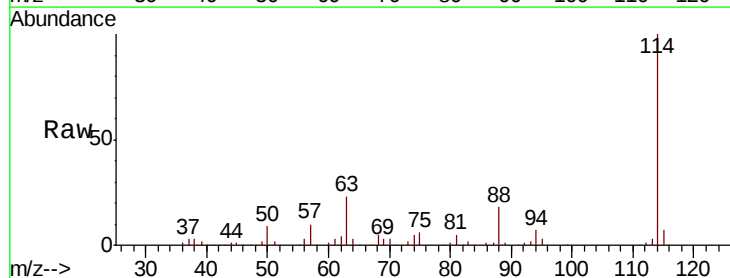
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-12-14

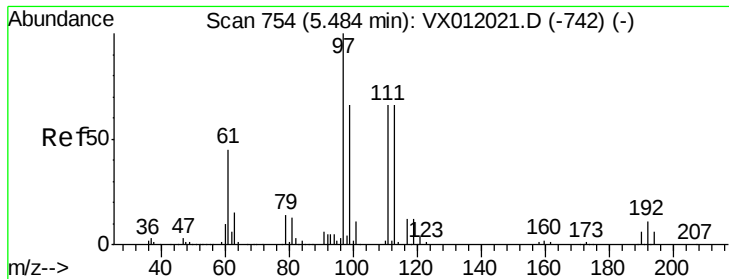
Tgt Ion: 65 Resp: 101700
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012122.D
 Acq: 06 Sep 2019 02:24

Tgt Ion: 114 Resp: 259873
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 37.4
 88 17.7 0.0 29.6

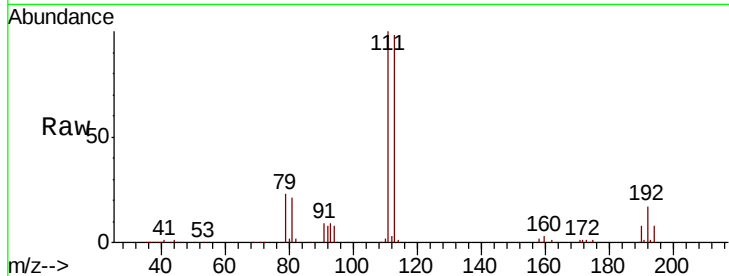




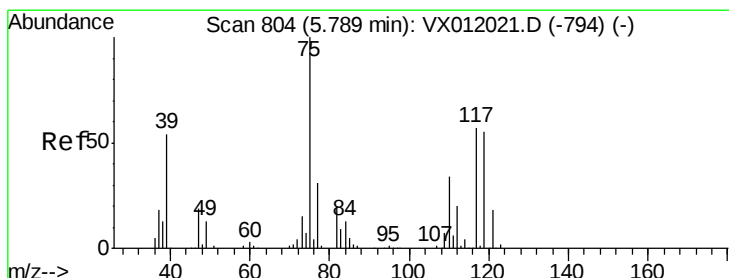
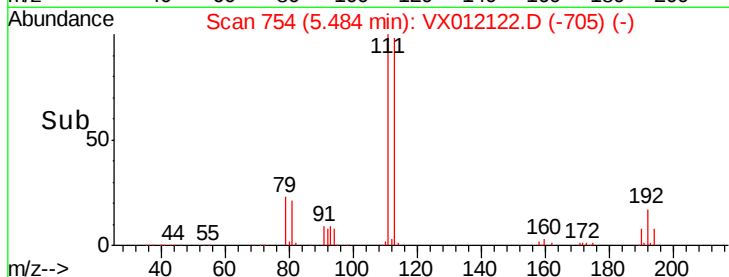
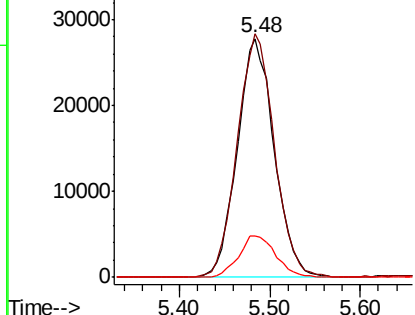
#35
 Dibromofluoromethane
 Concen: 49.013 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.00 min
 Lab File: VX012122.D
 Acq: 06 Sep 2019 02:24

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-12-14

Tgt Ion:113 Resp: 78330
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.7 122.5
 192 17.4 22.5 33.7#

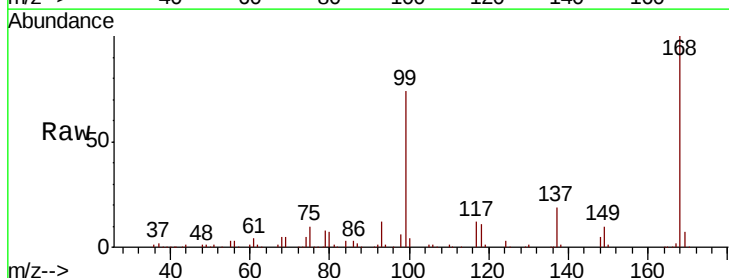


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

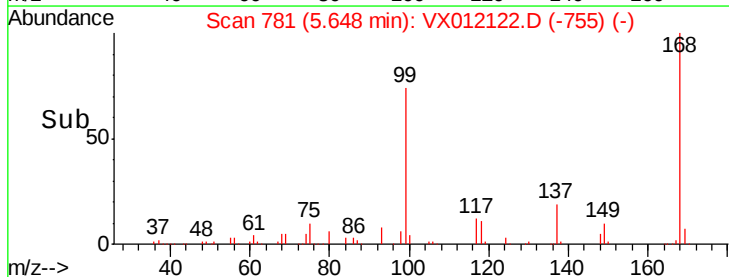
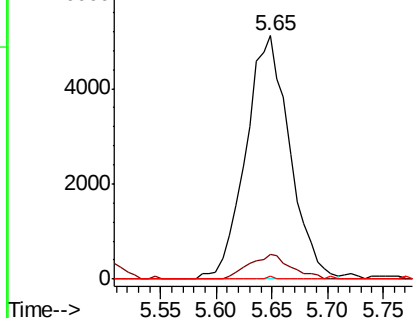


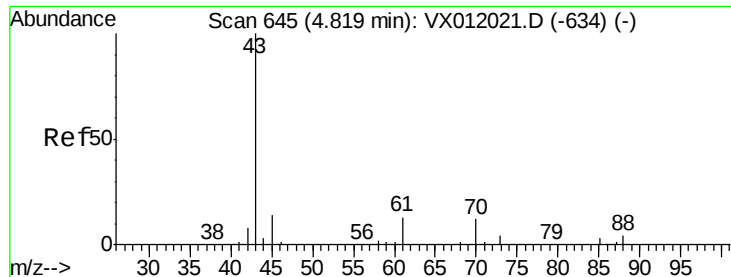
#36
 1,1-Dichloropropene
 Concen: 6.118 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012122.D
 Acq: 06 Sep 2019 02:24

Tgt Ion: 75 Resp: 14003
 Ion Ratio Lower Upper
 75 100
 110 9.7 19.5 58.5#
 77 0.2 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

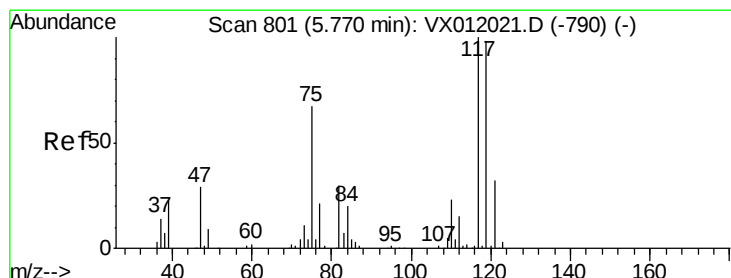
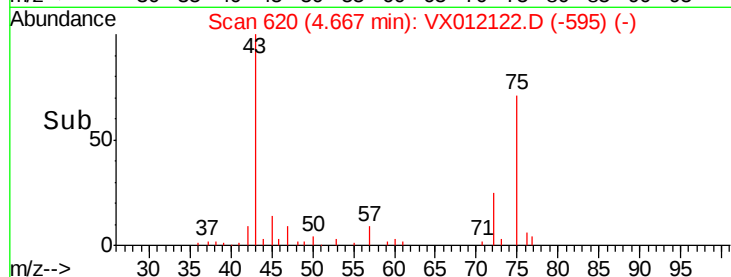
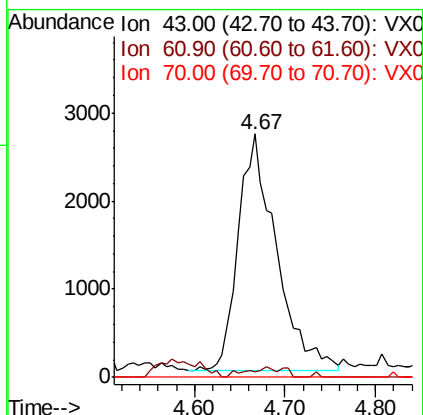
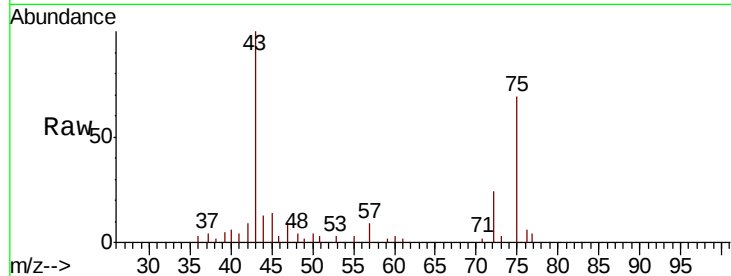




#37
Ethyl Acetate
Concen: 6.278 ug/l
RT: 4.67 min Scan# 620
Delta R.T. -0.15 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

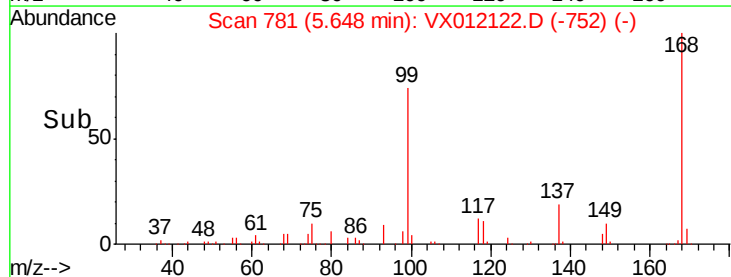
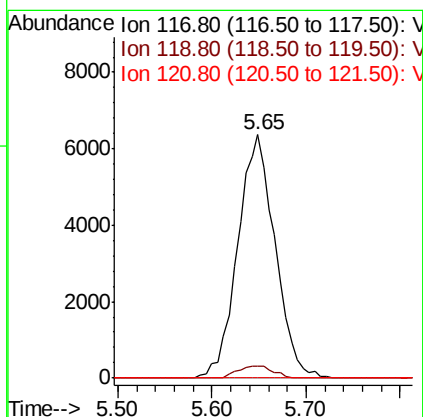
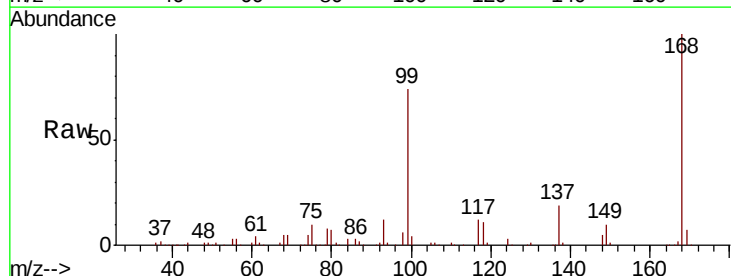
Instrument :
MSVOA_X
ClientSampleId :
SB-4-12-14

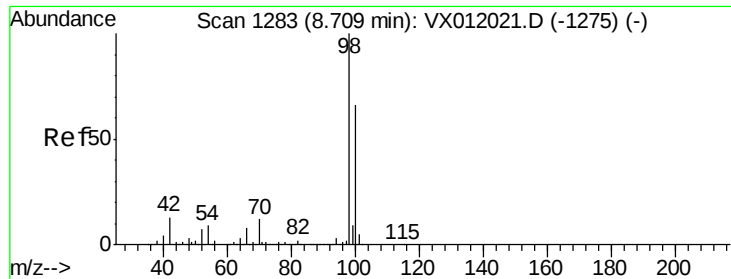
Tgt Ion: 43 Resp: 7814
Ion Ratio Lower Upper
43 100
61 4.2 10.9 16.3#
70 0.0 9.4 14.0#



#38
Carbon Tetrachloride
Concen: 7.295 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.12 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 117 Resp: 17595
Ion Ratio Lower Upper
117 100
119 4.8 78.3 117.5#
121 0.0 24.2 36.2#

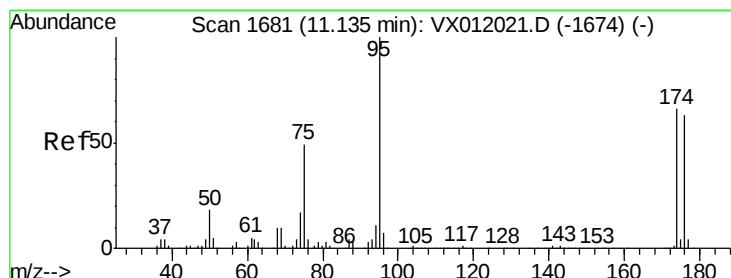
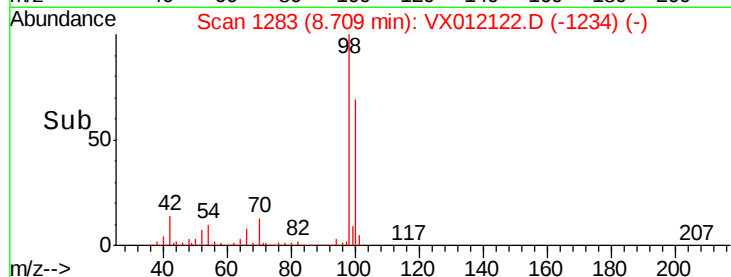
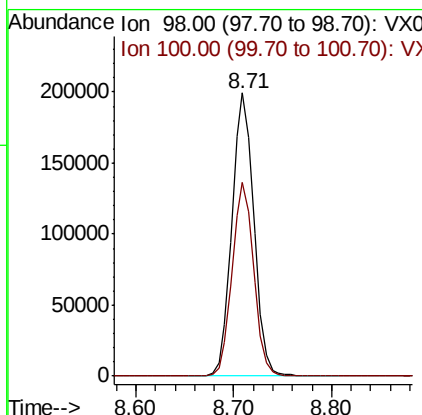
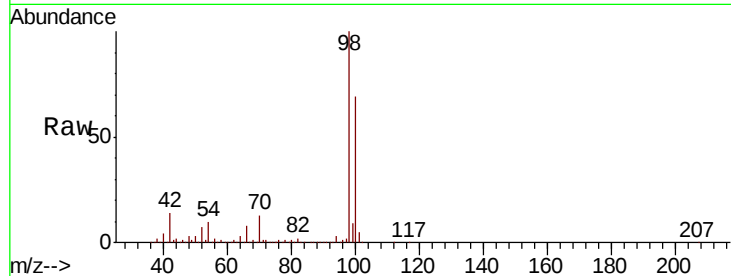




#50
Toluene-d8
Concen: 52.885 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

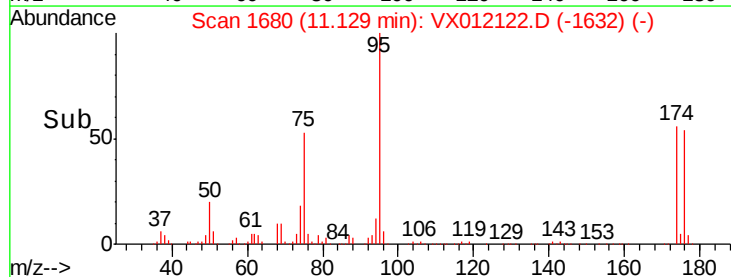
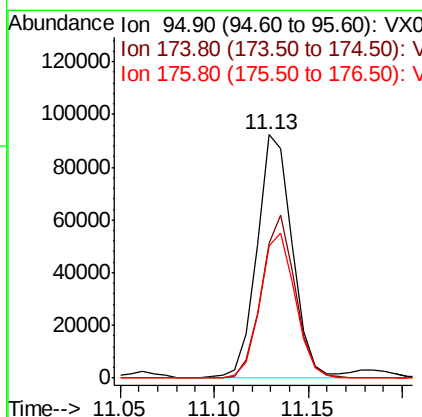
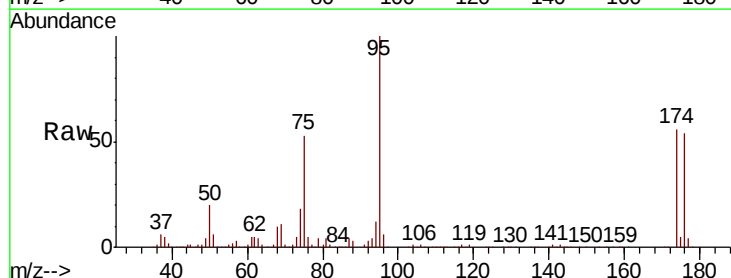
Instrument :
MSVOA_X
ClientSampleId :
SB-4-12-14

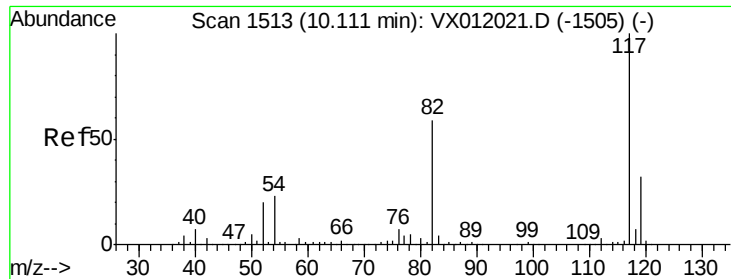
Tgt Ion: 98 Resp: 310141
Ion Ratio Lower Upper
98 100
100 67.5 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 43.561 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 95 Resp: 118805
Ion Ratio Lower Upper
95 100
174 64.4 0.0 205.4
176 59.8 0.0 201.8

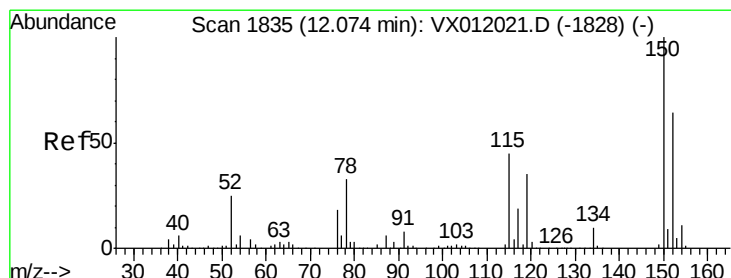
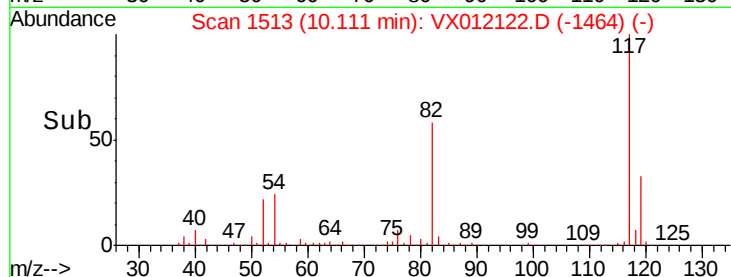
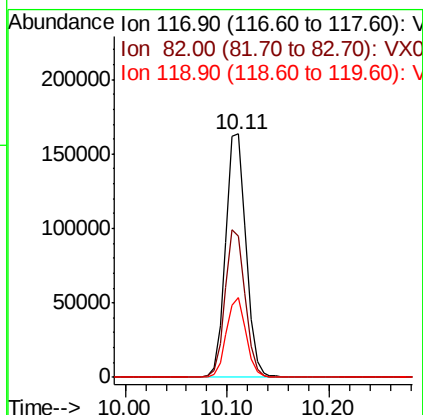
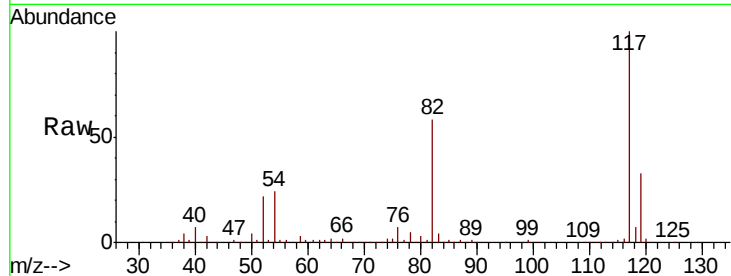




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

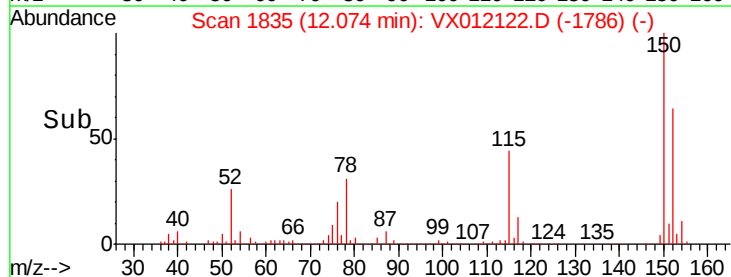
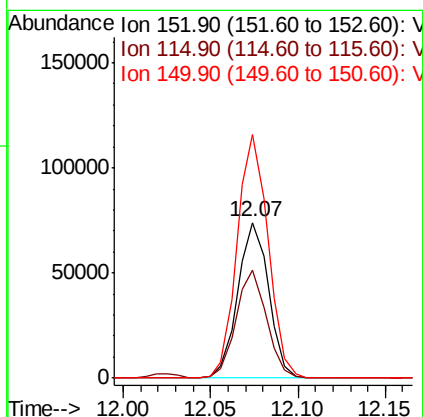
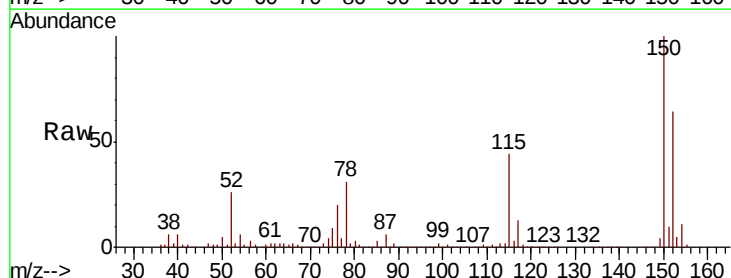
Instrument :
MSVOA_X
ClientSampleId :
SB-4-12-14

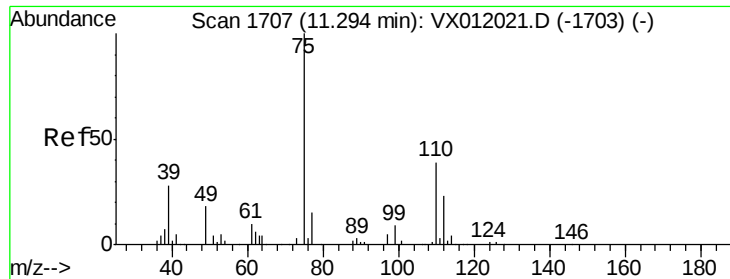
Tgt Ion:117 Resp: 225227
Ion Ratio Lower Upper
117 100
82 58.0 39.4 59.0
119 32.7 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Tgt Ion:152 Resp: 91151
Ion Ratio Lower Upper
152 100
115 68.0 36.4 109.3
150 156.7 0.0 341.2





#76

1,2,3-Trichloropropane

Concen: 55.900 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012122.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_X

ClientSampled :

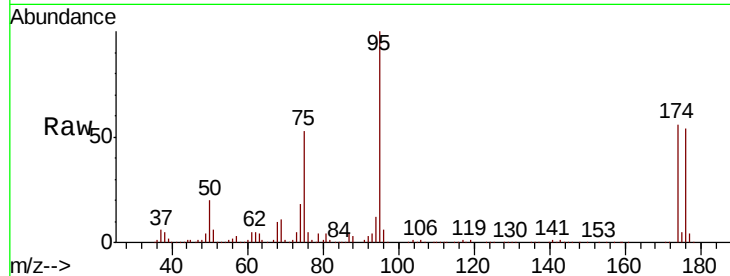
SB-4-12-14

Tgt Ion: 75 Resp: 62257

Ion Ratio Lower Upper

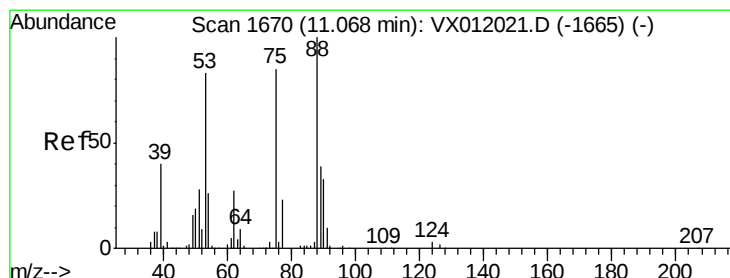
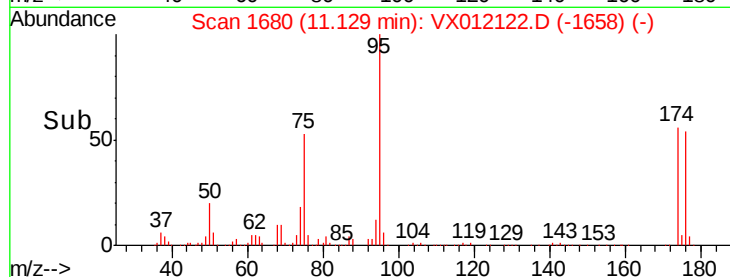
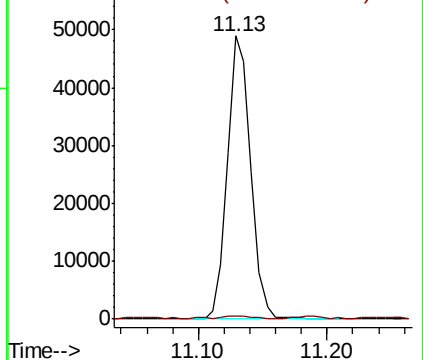
75 100

77 1.1 23.5 70.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 132.156 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012122.D

Acq: 06 Sep 2019 02:24

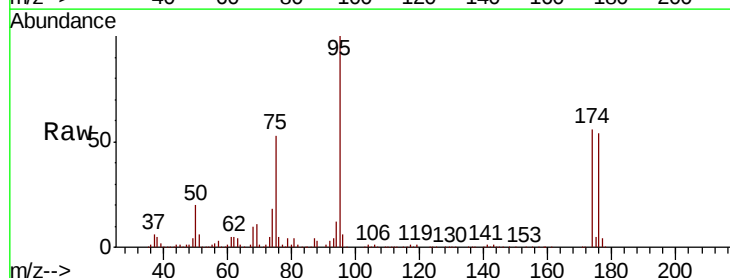
Tgt Ion: 75 Resp: 62257

Ion Ratio Lower Upper

75 100

53 0.0 78.6 117.8#

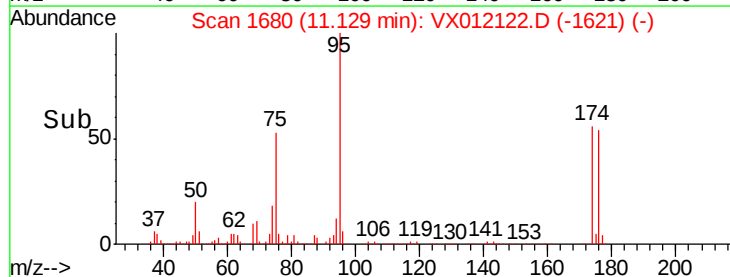
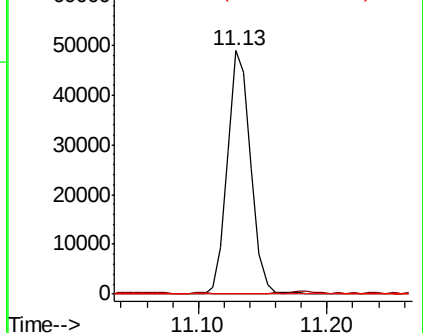
89 0.1 38.8 58.2#

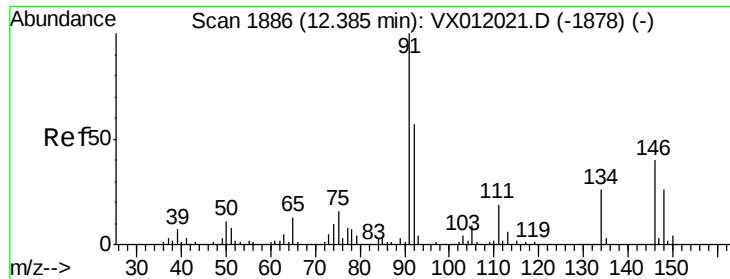


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

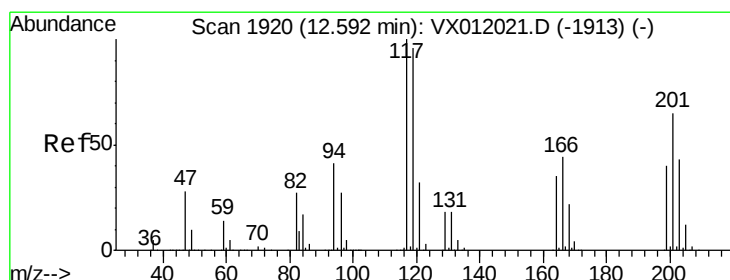
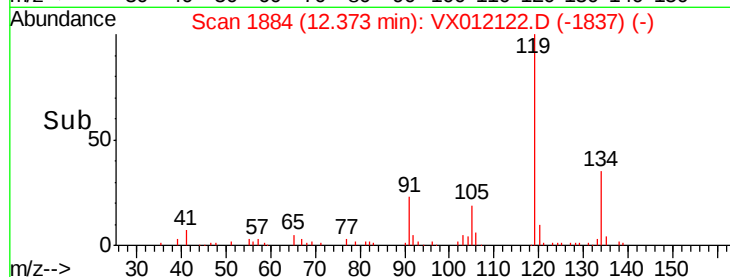
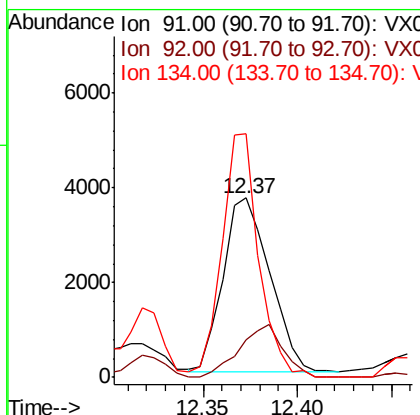
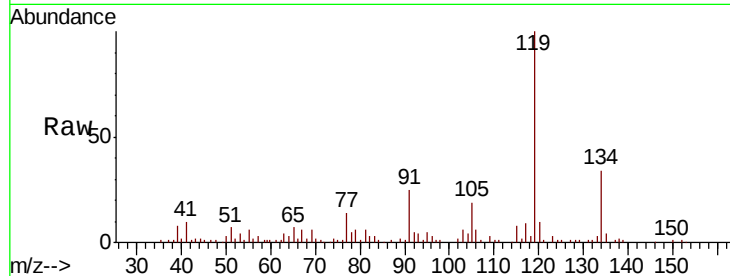




#89
n-Butylbenzene
Concen: 1.035 ug/l
RT: 12.37 min Scan# 1884
Delta R.T. -0.01 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

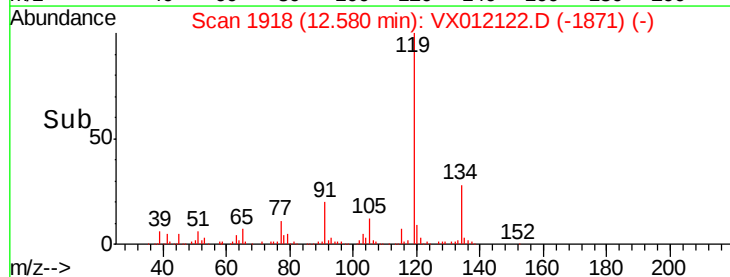
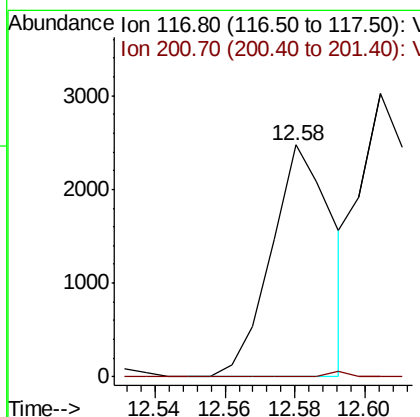
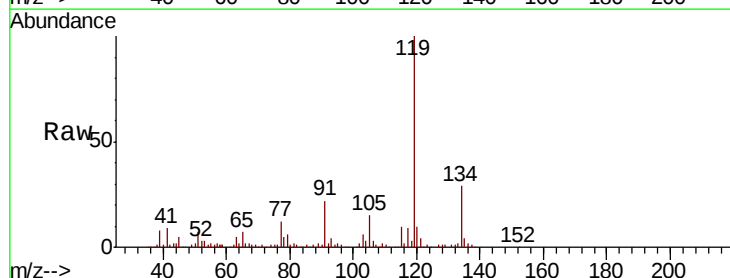
Instrument :
MSVOA_X
ClientSampleId :
SB-4-12-14

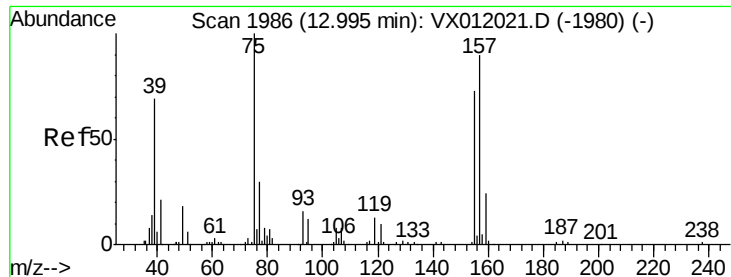
Tgt Ion: 91 Resp: 6346
Ion Ratio Lower Upper
91 100
92 28.1 27.6 82.8
134 109.7 15.4 46.1#



#90
Hexachloroethane
Concen: 2.398 ug/l
RT: 12.58 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VX012122.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 117 Resp: 3021
Ion Ratio Lower Upper
117 100
201 0.6 55.0 165.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 6.793 ug/l

RT: 13.01 min Scan# 1989

Delta R.T. 0.02 min

Lab File: VX012122.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_X

ClientSampled :

SB-4-12-14

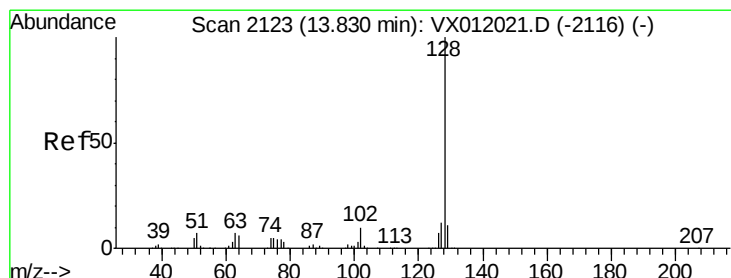
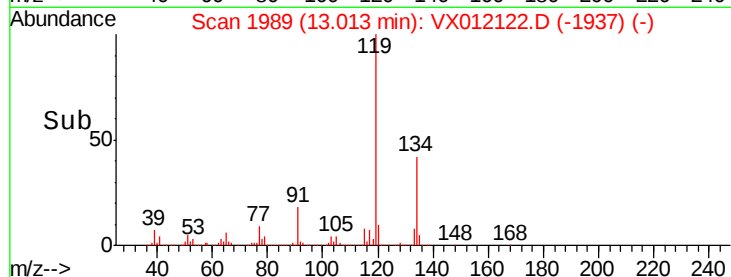
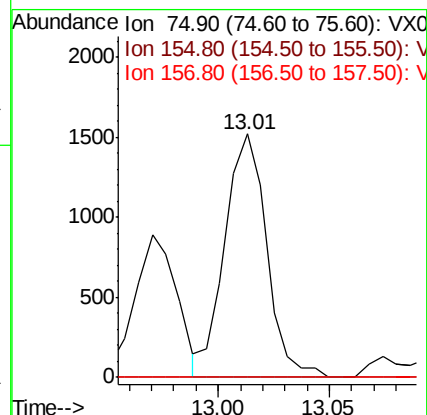
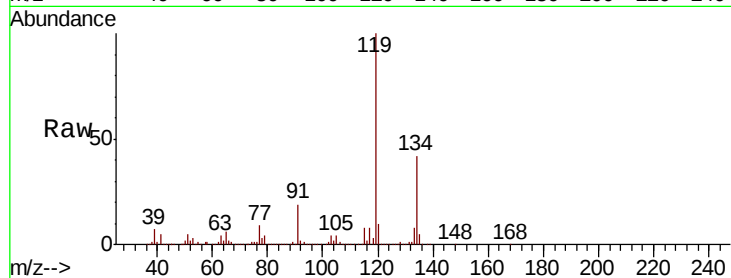
Tgt Ion: 75 Resp: 1982

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.2#

157 0.0 66.9 200.7#



#95

Naphthalene

Concen: 9.979 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX012122.D

Acq: 06 Sep 2019 02:24

Tgt Ion: 128 Resp: 41494

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

129 12.1 8.8 13.2

