

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010620\
 Data File : VX014431.D
 Acq On : 06 Jan 2020 16:42
 Operator : JC/SP
 Sample : L1020-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

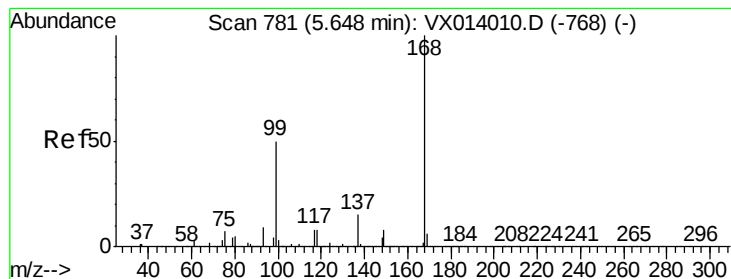
Quant Time: Jan 07 04:41:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	581490	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	875290	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	787825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	361206	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	307623	46.68	ug/l	0.00
Spiked Amount			Recovery	=	93.36%	
35) Dibromofluoromethane	5.48	113	259012	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	8.71	98	1029492	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	11.13	95	358139	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2055	0.294	ug/l	93
5) Bromomethane	1.64	94	1746	0.334	ug/l	92
6) Chloroethane	1.60	64	16439	3.616	ug/l #	61
10) Methyl Iodide	2.51	142	2116	2.897	ug/l #	49
11) Tert butyl alcohol	3.08	59	423	0.297	ug/l #	1
13) Acrolein	2.28	56	229	0.281	ug/l #	35
16) Acetone	2.43	43	16785	3.923	ug/l	89
17) Carbon Disulfide	2.56	76	2948	0.937	ug/l	95
18) Methyl Acetate	2.76	43	2458	0.290	ug/l #	62
20) Methylene Chloride	2.85	84	2299	0.341	ug/l	88
21) trans-1,2-Dichloroethene	3.16	96	1254	0.203	ug/l #	35
25) 2-Butanone	4.67	43	2974	0.564	ug/l	93
28) Bromochloromethane	5.00	49	360	0.538	ug/l #	11
36) 1,1-Dichloropropene	5.65	75	38055	4.738	ug/l #	52
38) Carbon Tetrachloride	5.65	117	52138	7.126	ug/l #	17
49) 1,4-Dioxane	7.74	88	396	2.708	ug/l #	70
52) Toluene	8.78	92	3606	0.231	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	173050	22.068	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	173050	62.287	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.64	180	1887	0.235	ug/l	95
94) Hexachlorobutadiene	13.78	225	1012	0.262	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :

MSVOA_X

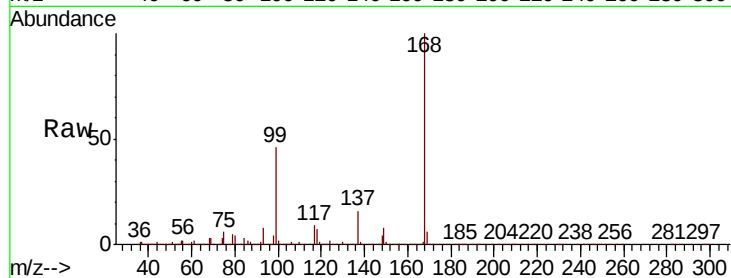
ClientSampleId :

Tot Ion:168 Resp: 581490

Ion Ratio Lower Upper

168 100

99 46.0 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

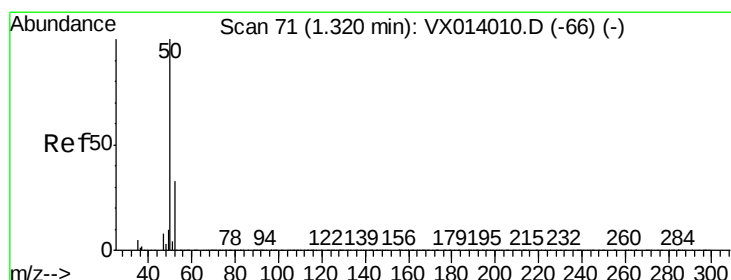
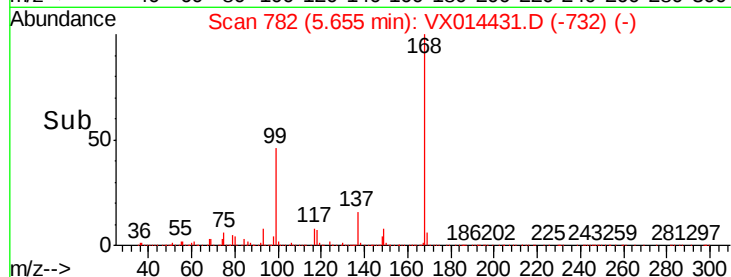
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.294 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014431.D

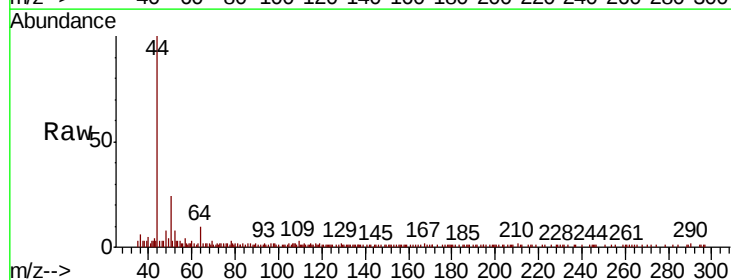
Acq: 06 Jan 2020 16:42

Tgt Ion: 50 Resp: 2055

Ion Ratio Lower Upper

50 100

52 29.0 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

2500

2000

1500

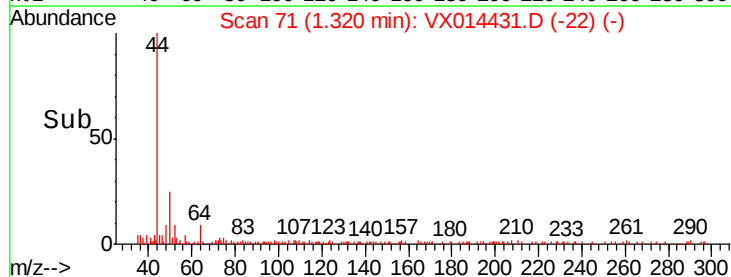
1000

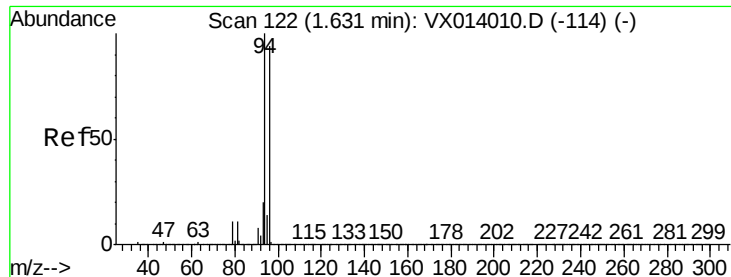
500

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.334 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :

MSVOA_X

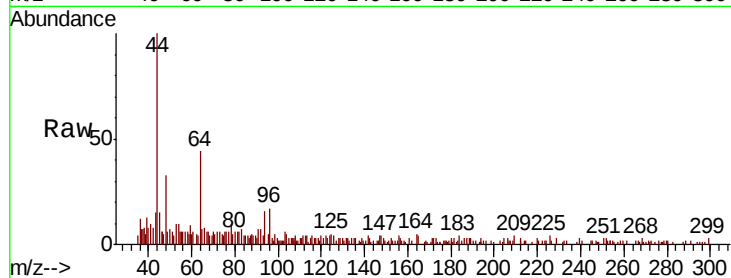
ClientSampleId :

Tot Ion: 94 Resp: 1746

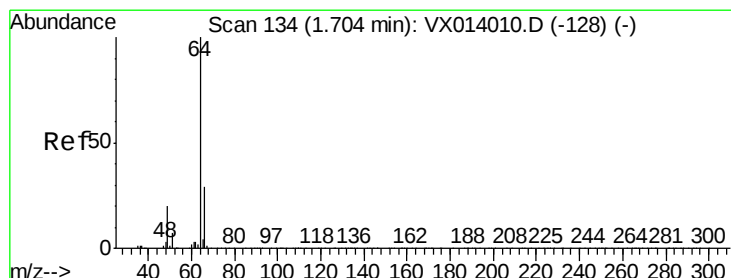
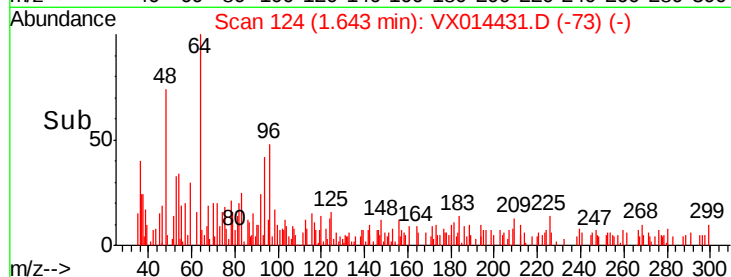
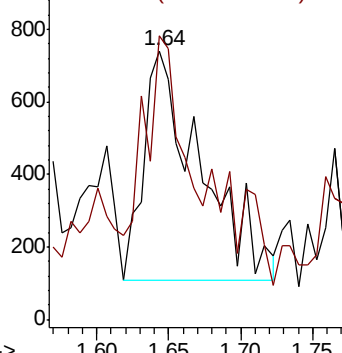
Ion Ratio Lower Upper

94 100

96 86.8 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 3.616 ug/l

RT: 1.60 min Scan# 117

Delta R.T. -0.10 min

Lab File: VX014431.D

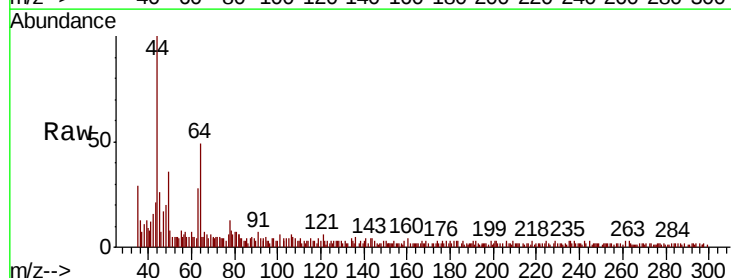
Acq: 06 Jan 2020 16:42

Tgt Ion: 64 Resp: 16439

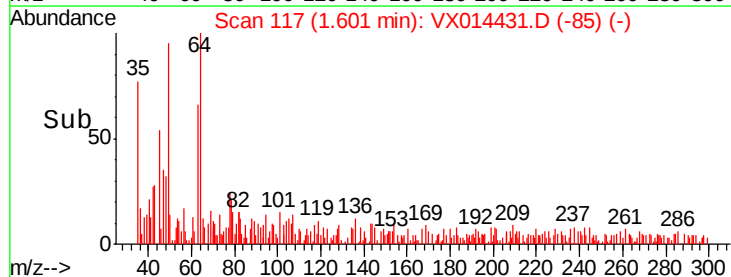
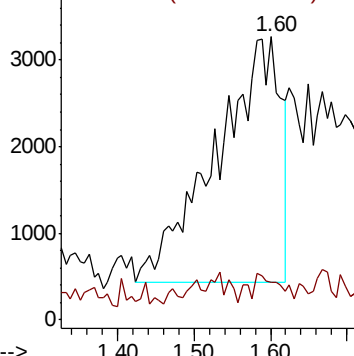
Ion Ratio Lower Upper

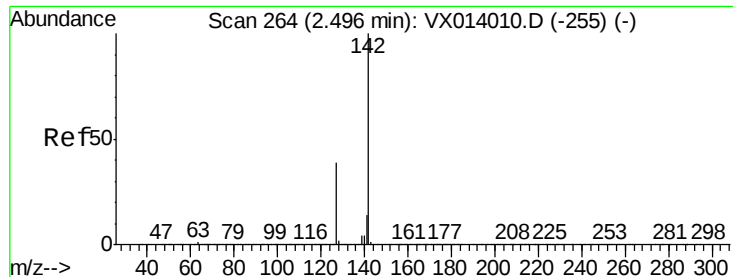
64 100

66 8.2 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

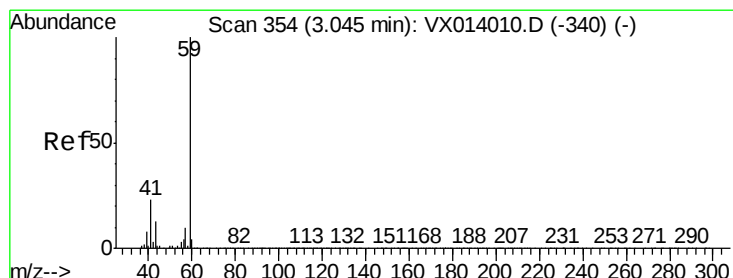
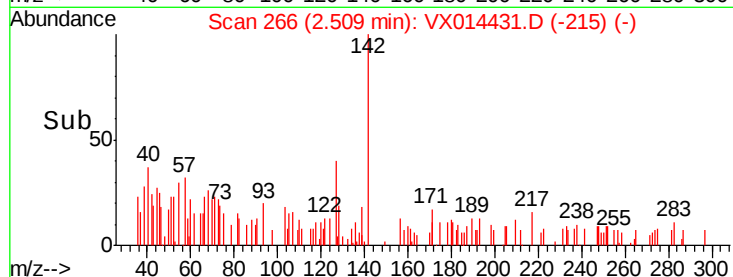
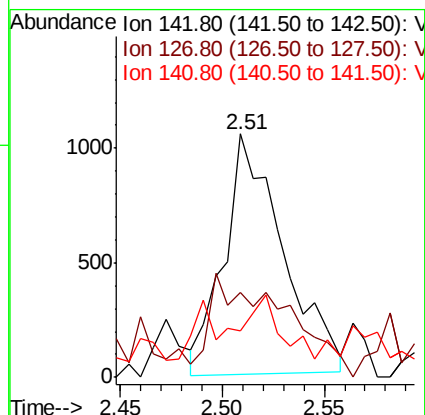
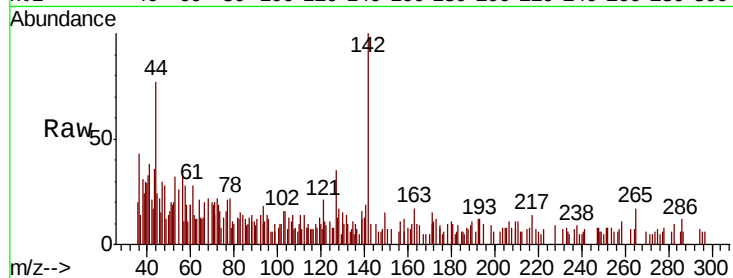




#10
Methyl Iodide
Concen: 2.897 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

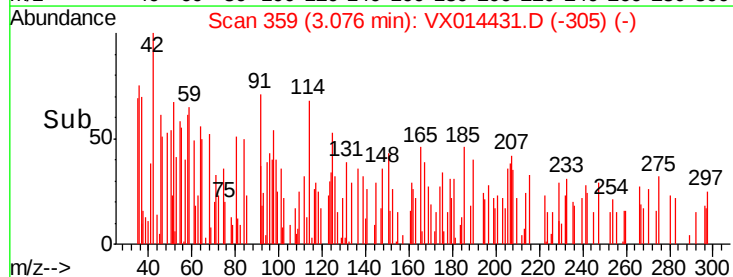
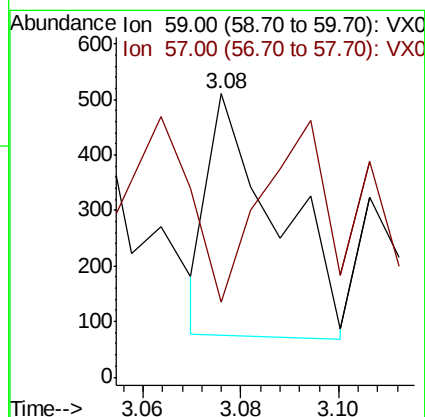
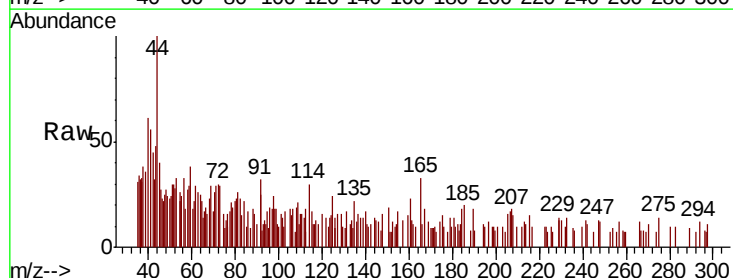
Instrument :
MSVOA_X
ClientSampled :

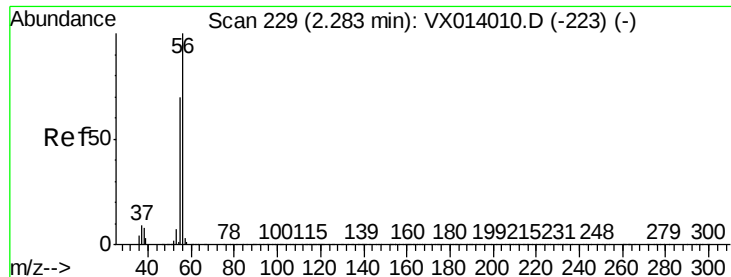
Tot Ion:142 Resp: 2116
Ion Ratio Lower Upper
142 100
127 0.0 31.6 47.4#
141 21.1 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.297 ug/l
RT: 3.08 min Scan# 359
Delta R.T. 0.03 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

Tgt Ion: 59 Resp: 423
Ion Ratio Lower Upper
59 100
57 68.6 8.4 12.6#





#13

Acrolein

Concen: 0.281 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :

MSVOA_X

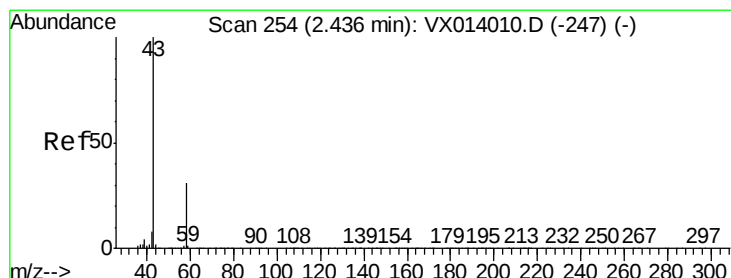
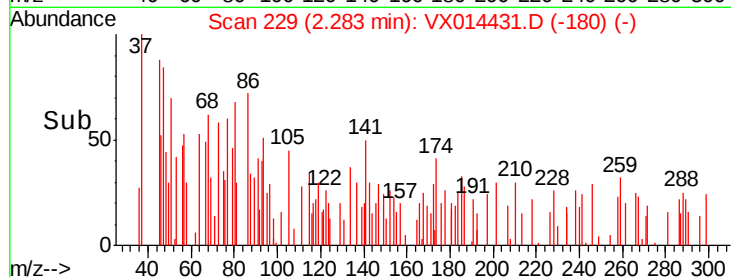
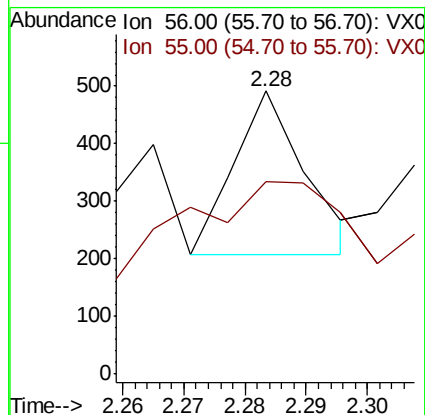
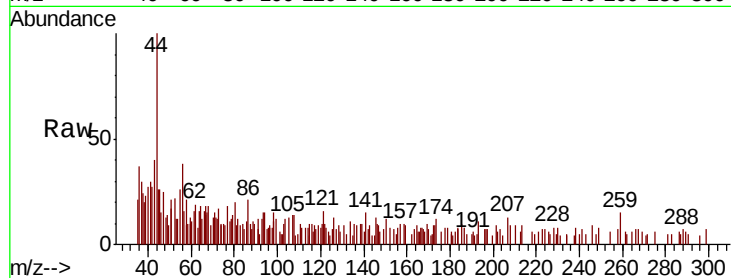
ClientSampleId :

Tot Ion: 56 Resp: 229

Ion Ratio Lower Upper

56 100

55 124.9 56.9 85.3#



#16

Acetone

Concen: 3.923 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014431.D

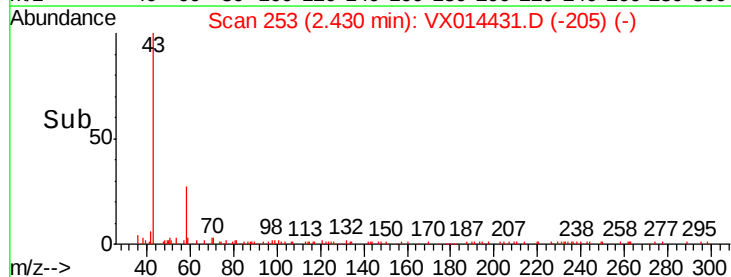
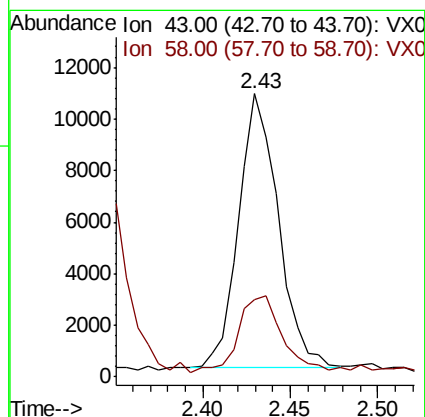
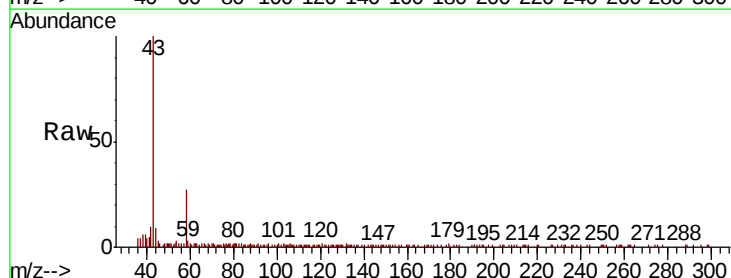
Acq: 06 Jan 2020 16:42

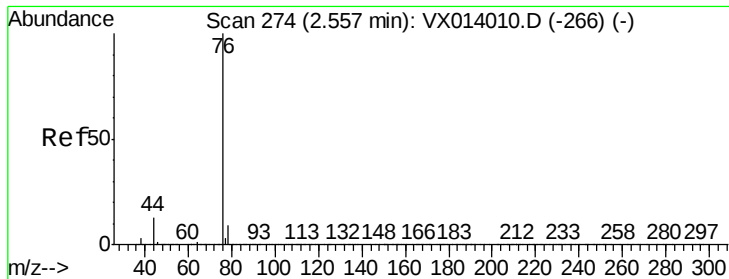
Tgt Ion: 43 Resp: 16785

Ion Ratio Lower Upper

43 100

58 25.3 24.9 37.3





#17

Carbon Disulfide

Concen: 0.937 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :

MSVOA_X

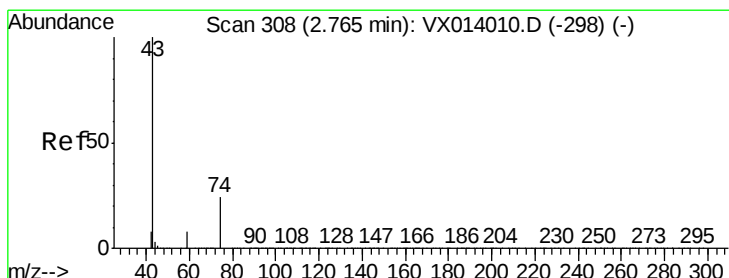
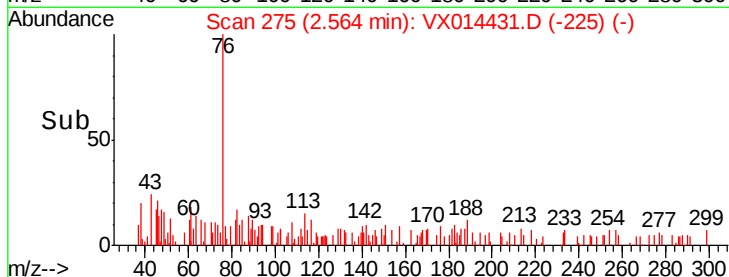
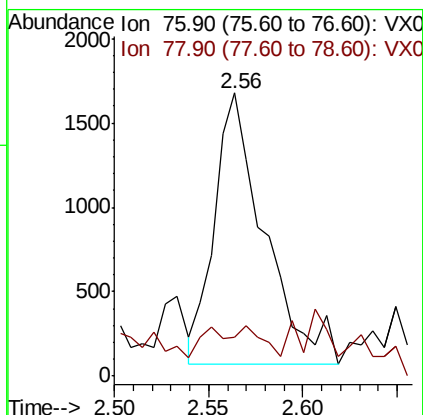
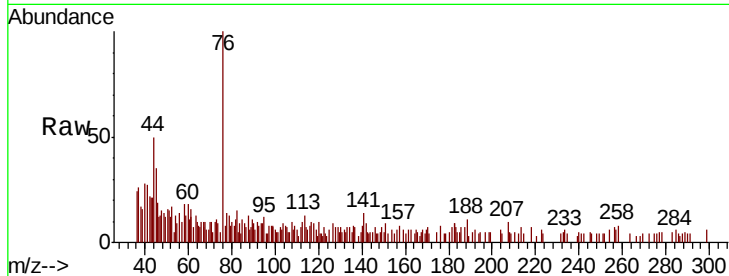
ClientSampleId :

Tot Ion: 76 Resp: 2948

Ion Ratio Lower Upper

76 100

78 7.4 7.2 10.8



#18

Methyl Acetate

Concen: 0.290 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014431.D

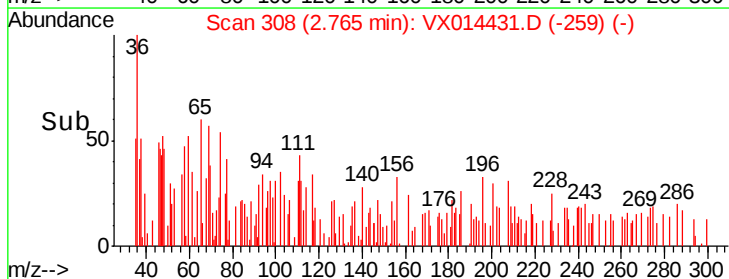
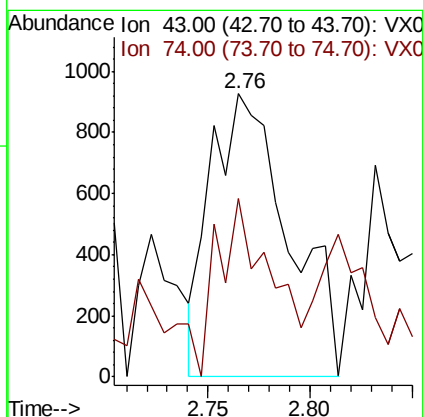
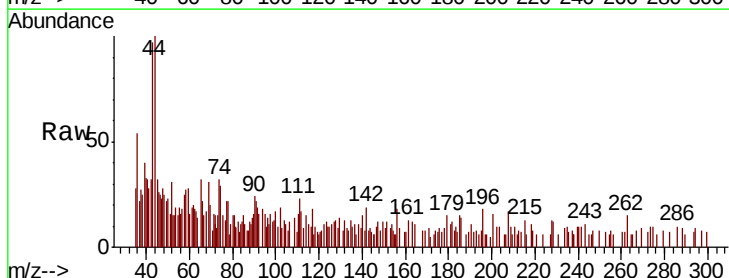
Acq: 06 Jan 2020 16:42

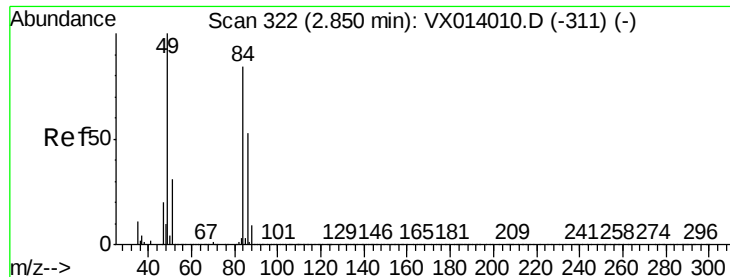
Tgt Ion: 43 Resp: 2458

Ion Ratio Lower Upper

43 100

74 43.3 19.5 29.3#

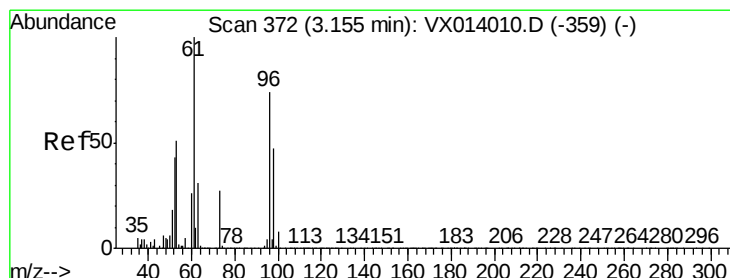
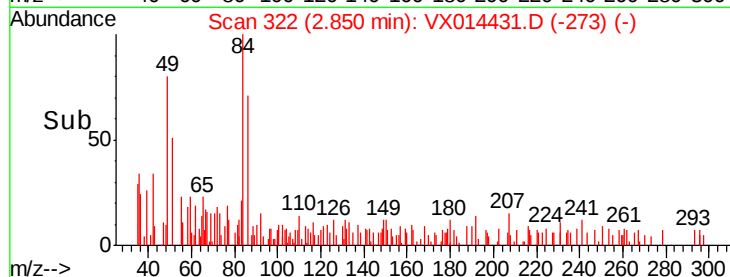
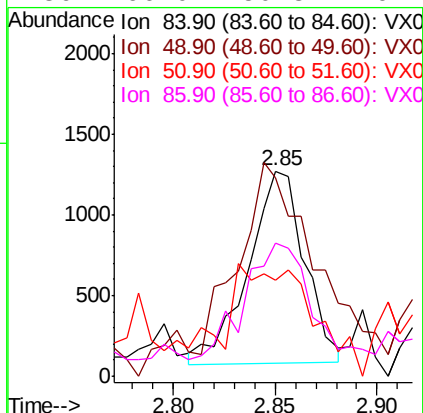
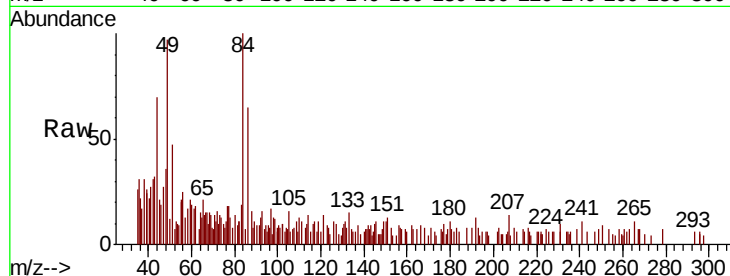




#20
Methvlene Chloride
Concen: 0.341 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

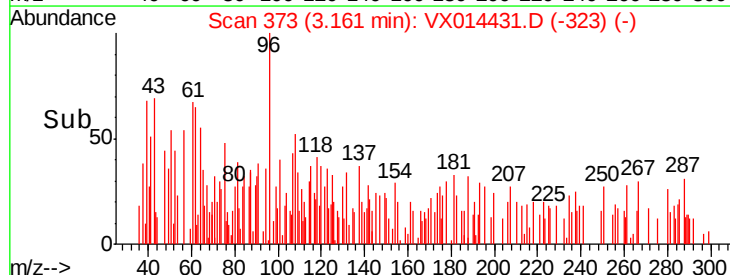
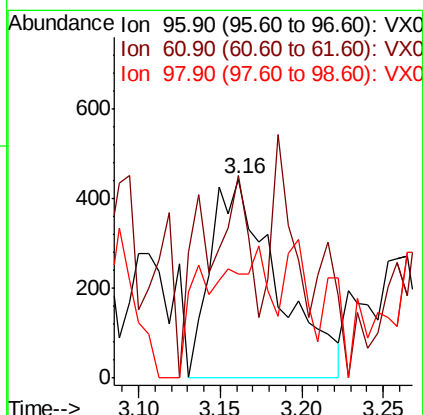
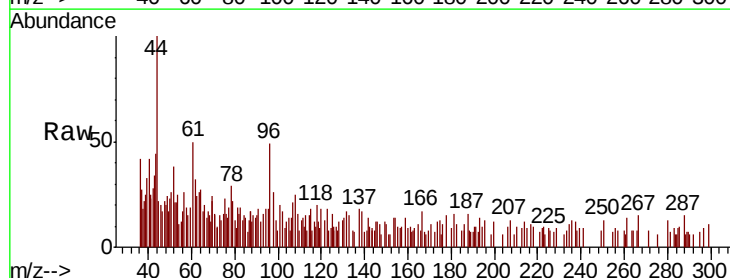
Instrument :
MSVOA_X
ClientSampleId :

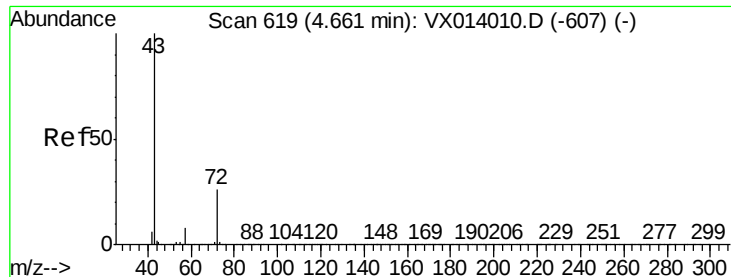
Tot Ion:	84	Resp:	2299
Ion	Ratio	Lower	Upper
84	100		
49	98.8	95.8	143.6
51	41.0	29.8	44.8
86	66.0	50.8	76.2



#21
trans-1,2-Dichloroethene
Concen: 0.203 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

Tgt Ion:	96	Resp:	1254
Ion	Ratio	Lower	Upper
96	100		
61	60.6	108.3	162.5#
98	9.2	50.8	76.2#

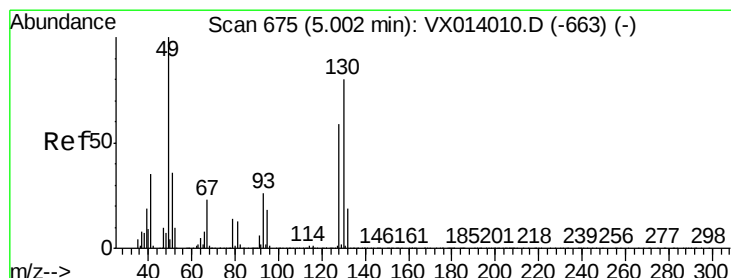
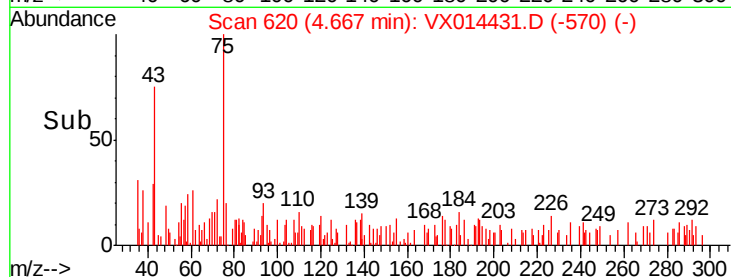
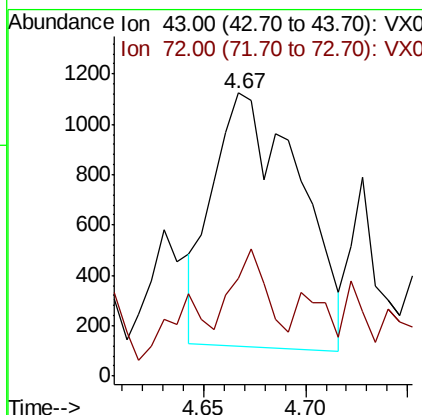
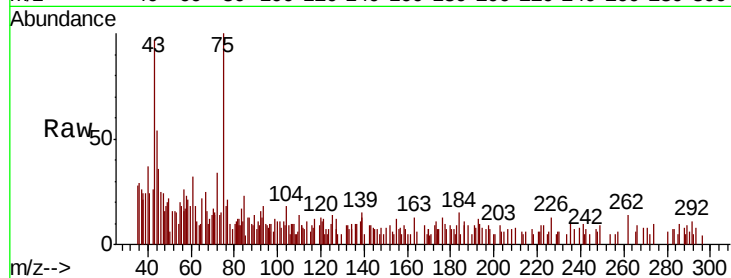




#25
2-Butanone
Concen: 0.564 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

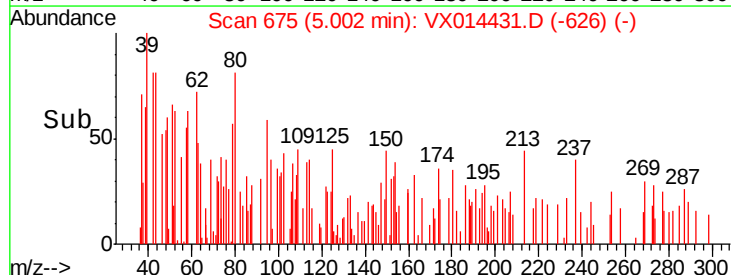
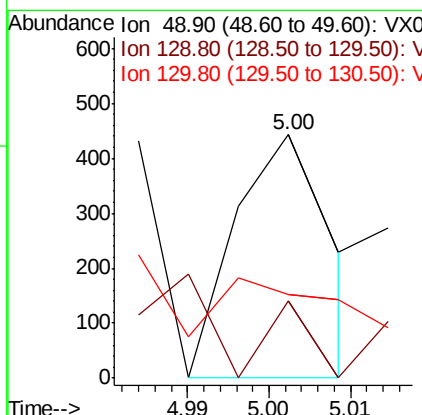
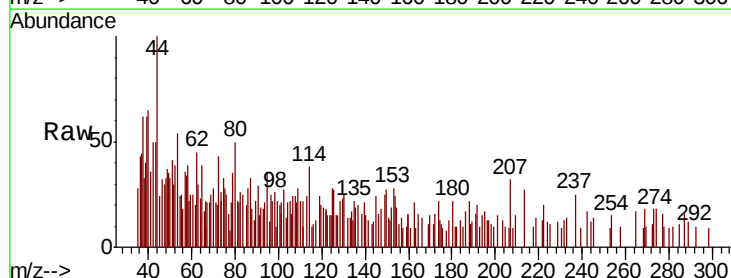
Instrument :
MSVOA_X
ClientSampleId :

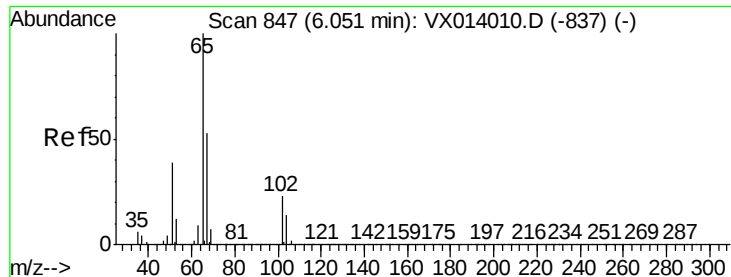
Tot Ion: 43 Resp: 2974
Ion Ratio Lower Upper
43 100
72 29.6 21.0 31.4



#28
Bromochloromethane
Concen: 0.538 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

Tgt Ion: 49 Resp: 360
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 0.0 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 46.678 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :

MSVOA_X

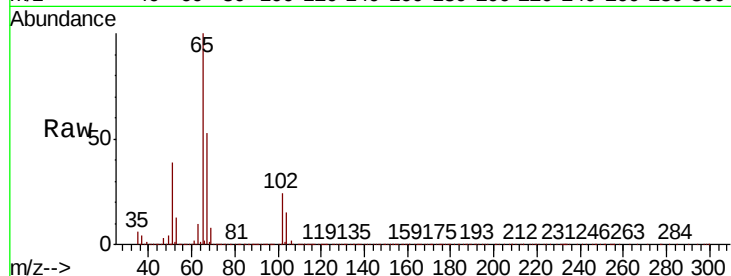
ClientSampleId :

Tot Ion: 65 Resp: 307623

Ion Ratio Lower Upper

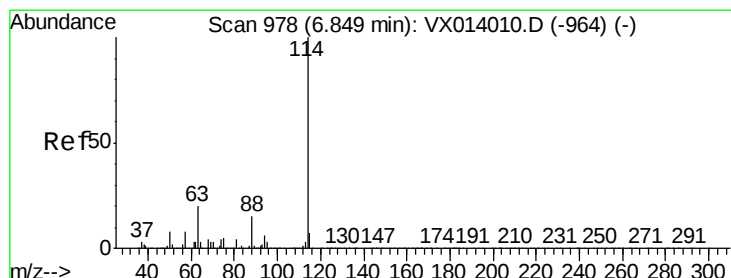
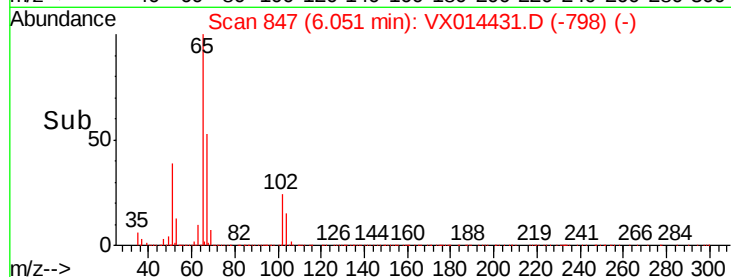
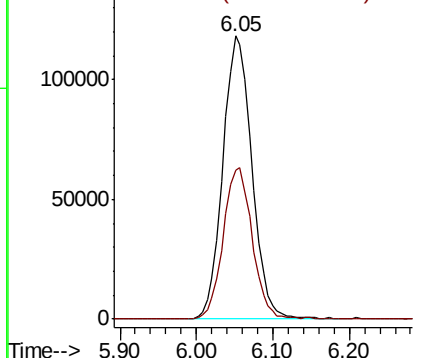
65 100

67 54.0 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

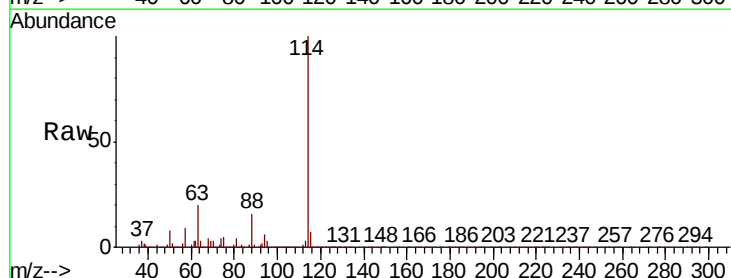
Tgt Ion: 114 Resp: 875290

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

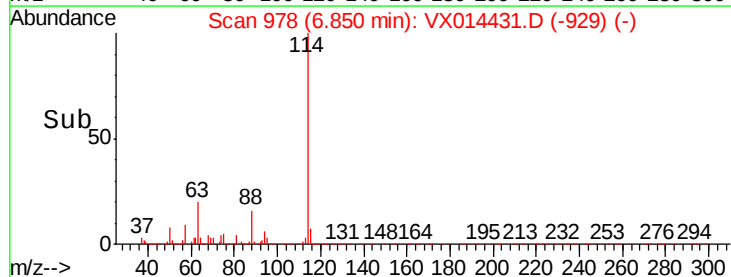
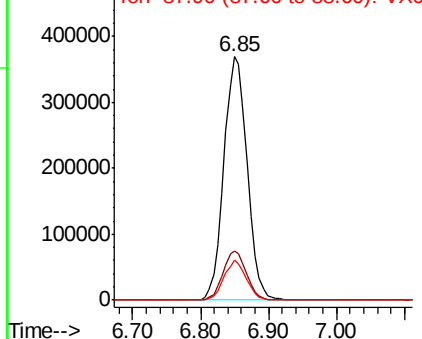
88 16.3 0.0 30.4

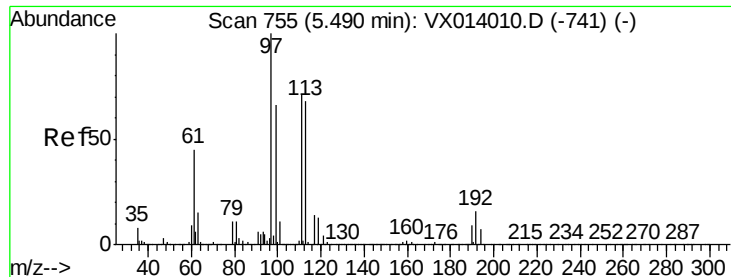


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.679 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :
MSVOA_X
ClientSampleId :

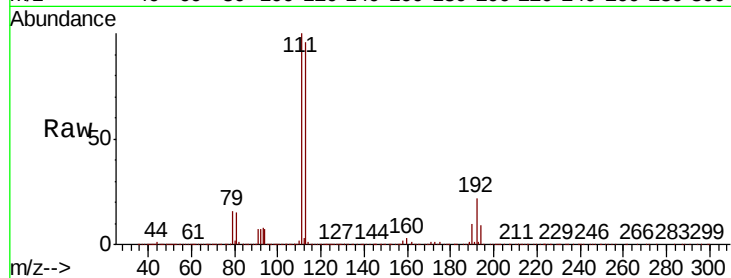
Tot Ion:113 Resp: 259012

Ion Ratio Lower Upper

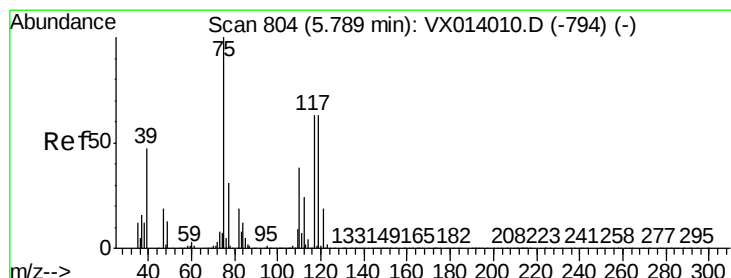
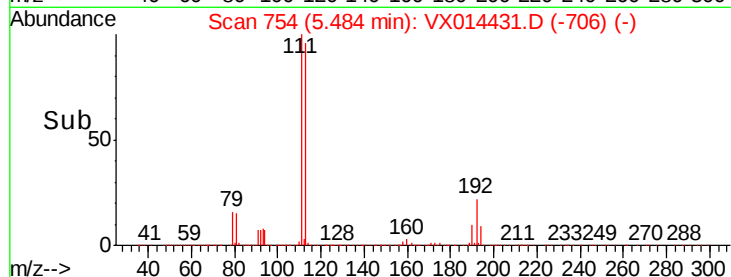
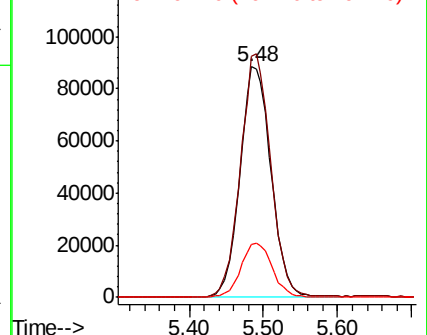
113 100

111 102.7 82.0 123.0

192 23.7 19.3 28.9



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: 4.738 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

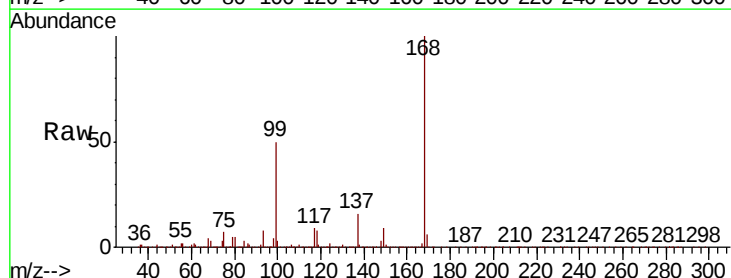
Tgt Ion: 75 Resp: 38055

Ion Ratio Lower Upper

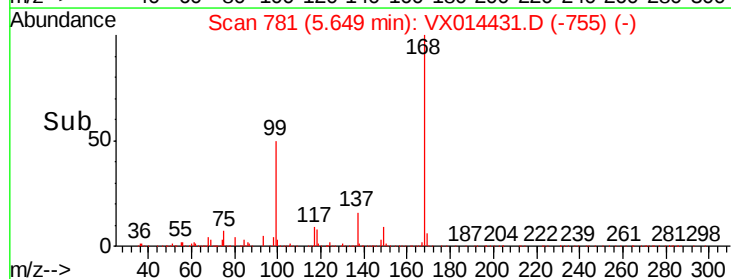
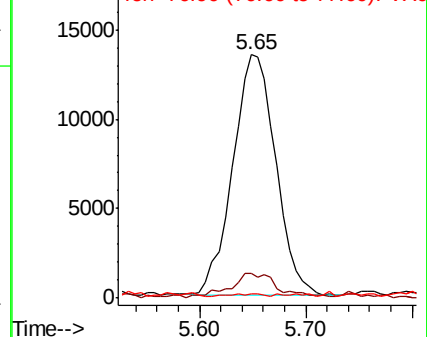
75 100

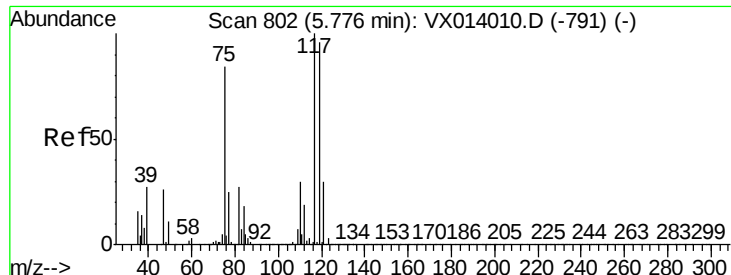
110 11.6 18.3 54.9#

77 1.0 24.8 37.2#



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

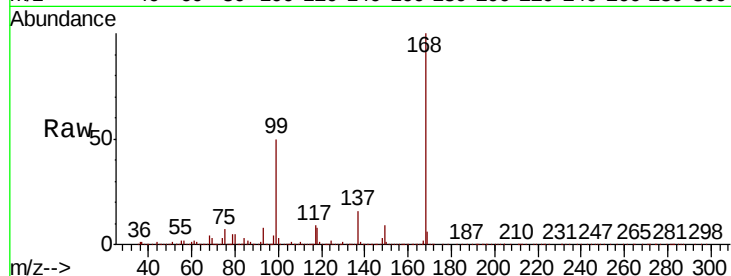




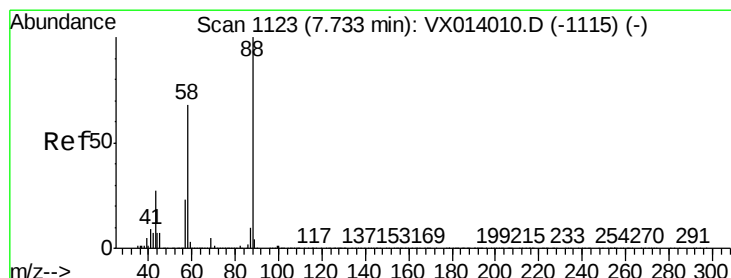
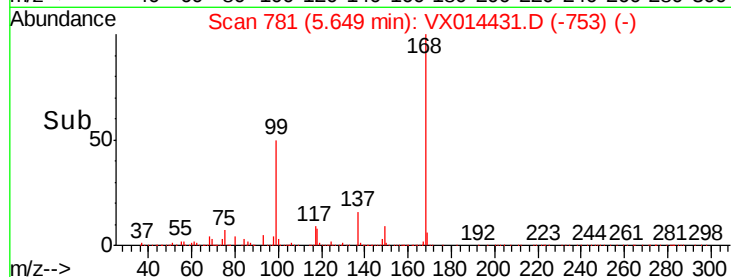
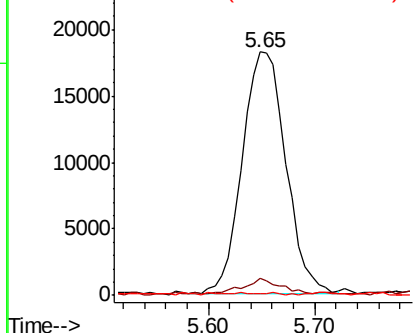
#38
Carbon Tetrachloride
Concen: 7.126 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 52138
Ion Ratio Lower Upper
117 100
119 6.5 76.2 114.4#
121 0.0 23.6 35.4#

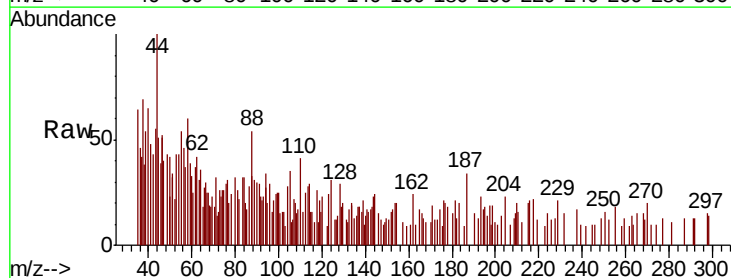


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

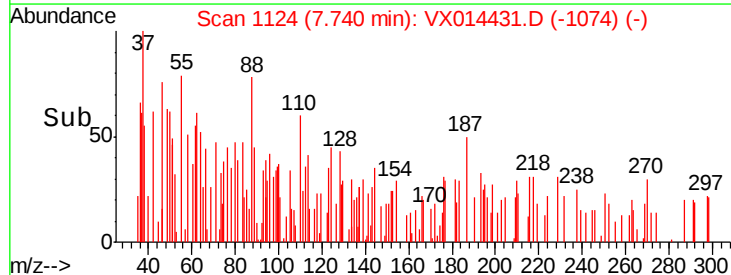
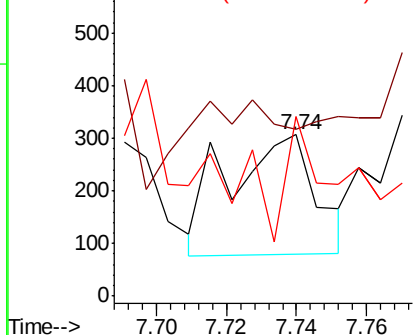


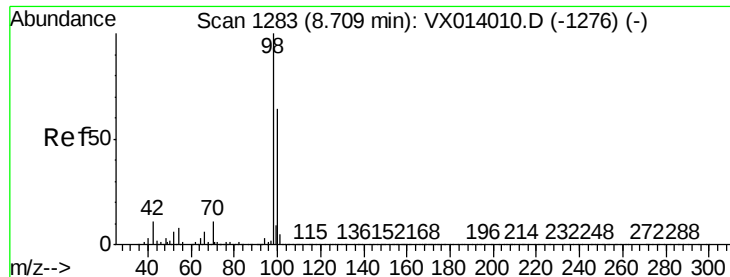
#49
1,4-Dioxane
Concen: 2.708 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

Tgt Ion: 88 Resp: 396
Ion Ratio Lower Upper
88 100
43 44.2 26.5 39.7#
58 42.4 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: 49.697 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :

MSVOA_X

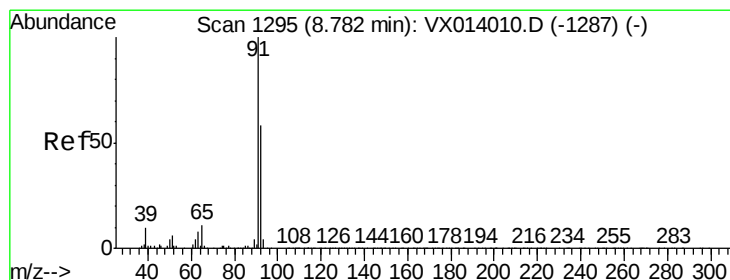
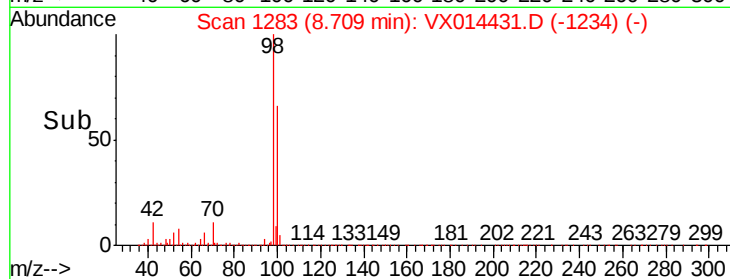
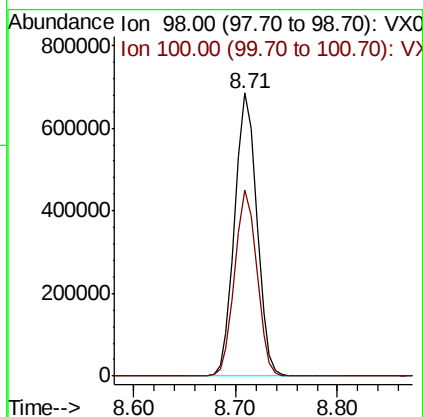
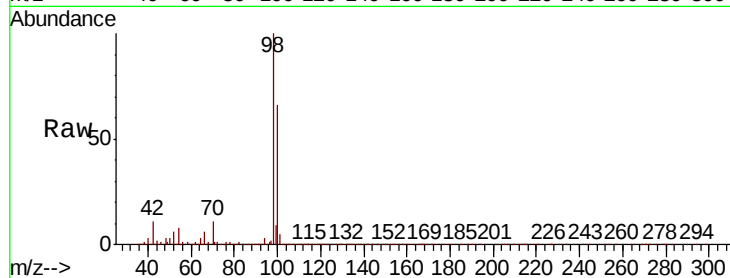
ClientSampleId :

Tot Ion: 98 Resp: 1029492

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#52

Toluene

Concen: 0.231 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX014431.D

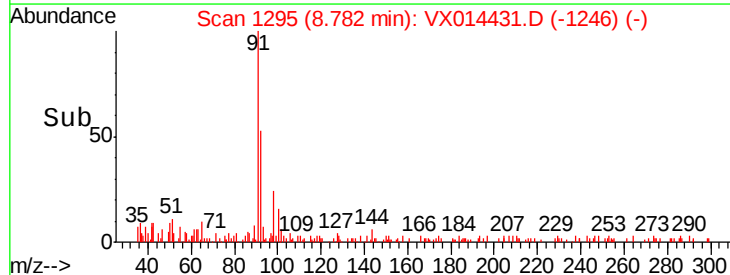
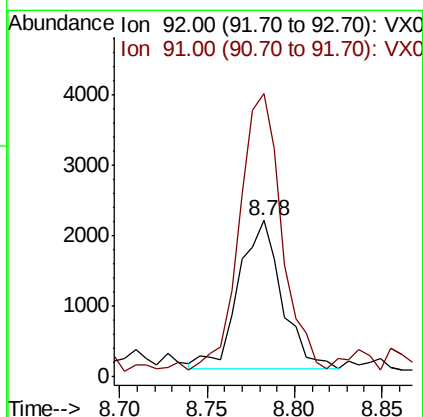
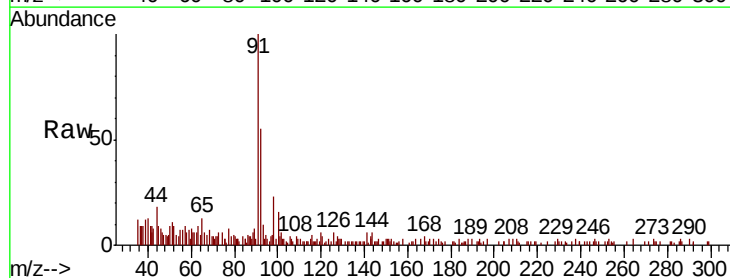
Acq: 06 Jan 2020 16:42

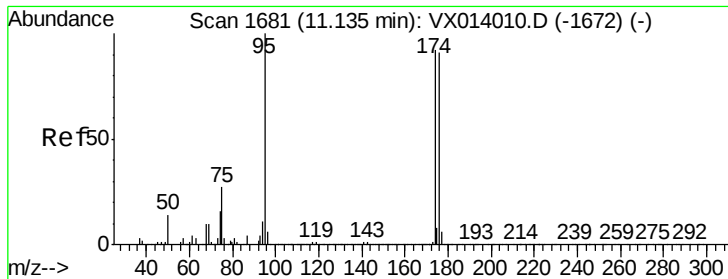
Tgt Ion: 92 Resp: 3606

Ion Ratio Lower Upper

92 100

91 182.2 136.2 204.4





#62

4-Bromofluorobenzene

Concen: 47.296 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :

MSVOA_X

ClientSampleId :

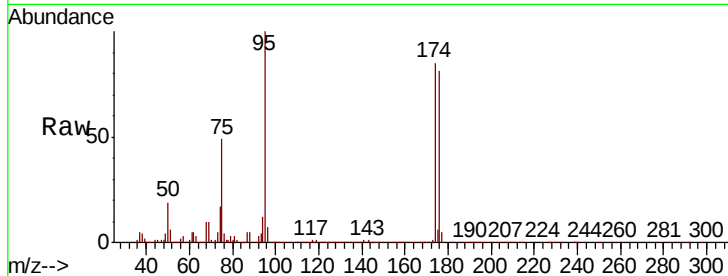
Tot Ion: 95 Resp: 358139

Ion Ratio Lower Upper

95 100

174 91.0 0.0 175.8

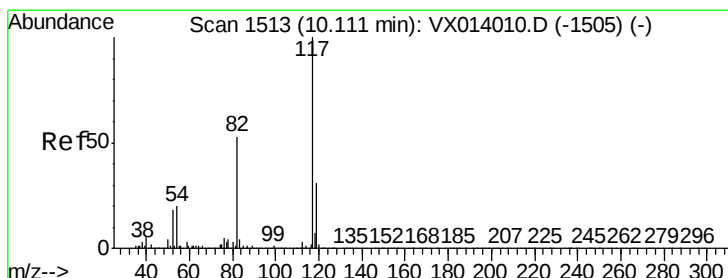
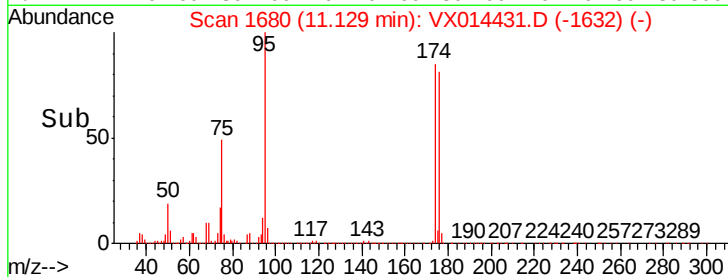
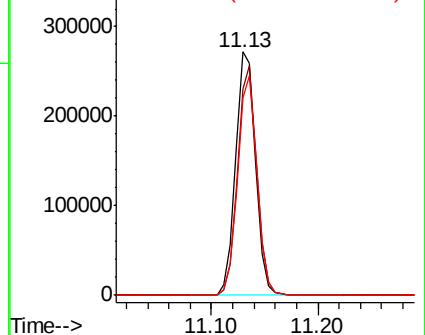
176 88.0 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX014010.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX014010.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX014010.D (-1672) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

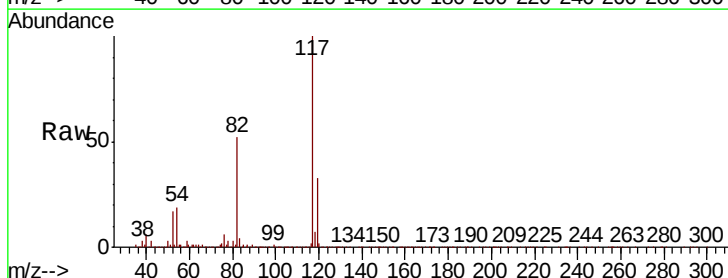
Tgt Ion: 117 Resp: 787825

Ion Ratio Lower Upper

117 100

82 51.7 42.2 63.4

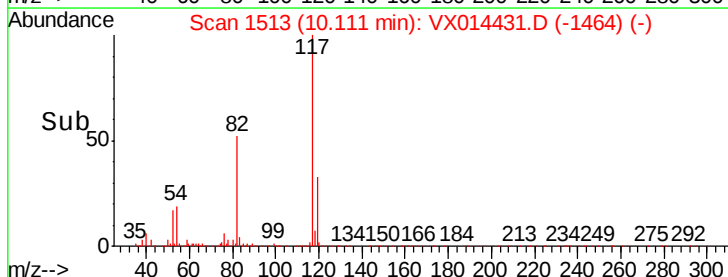
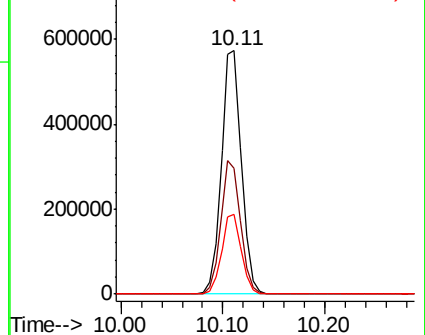
119 32.9 25.1 37.7

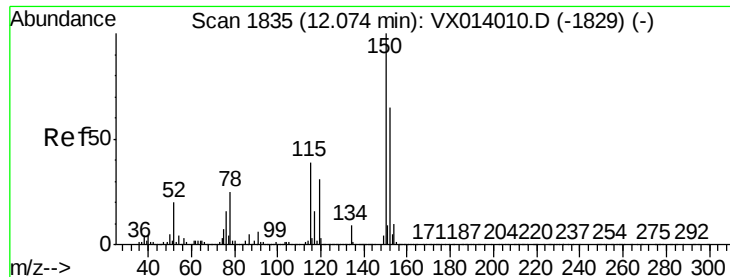


Abundance Ion 116.90 (116.60 to 117.60): VX014010.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX014010.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX014010.D (-1505) (-)



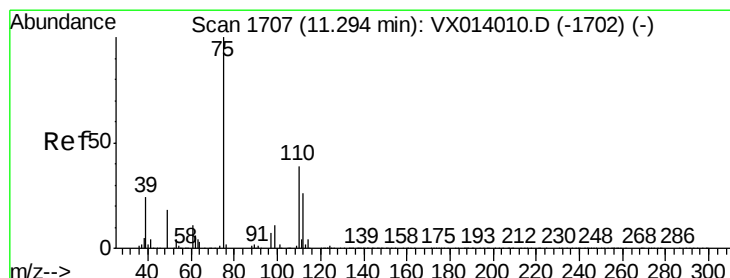
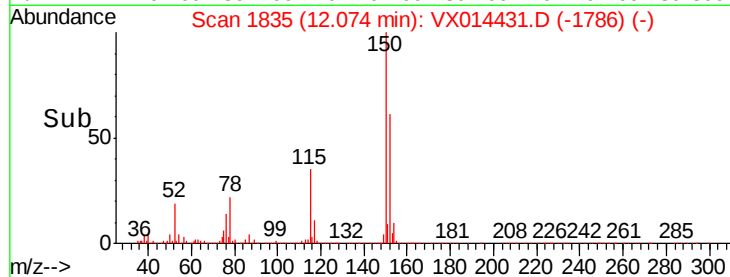
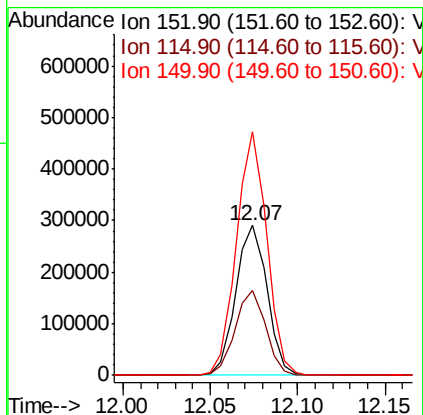
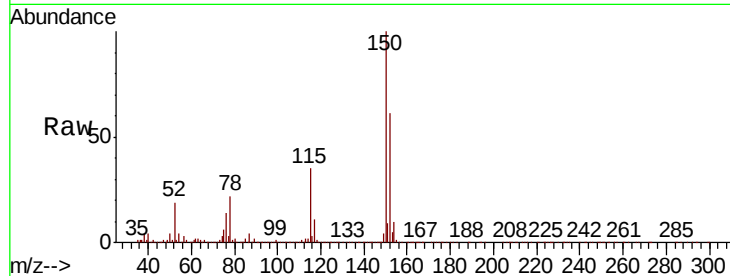


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

Instrument :
MSVOA_X
ClientSampleId :

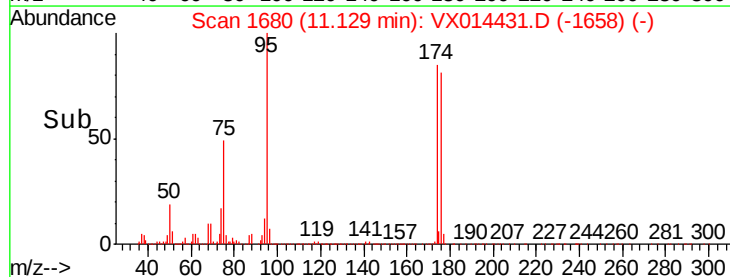
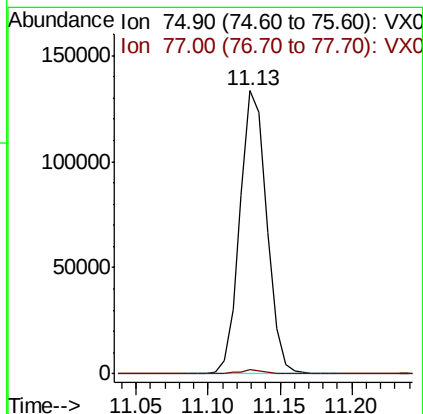
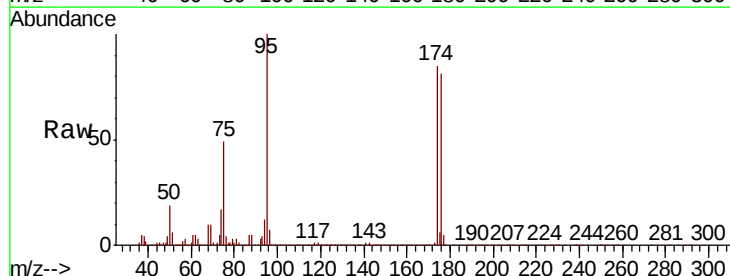
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.8	38.3	114.9
150	158.0	0.0	345.4

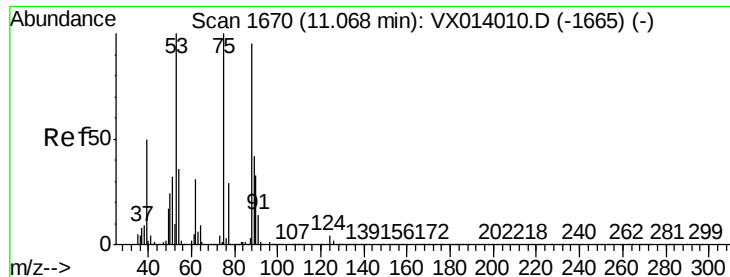


#76

1,2,3-Trichloropropane
Concen: 22.068 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.3	57.8#

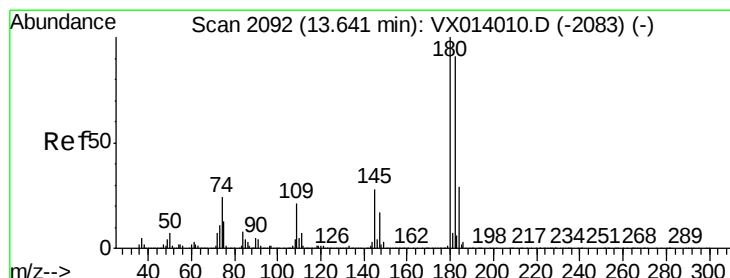
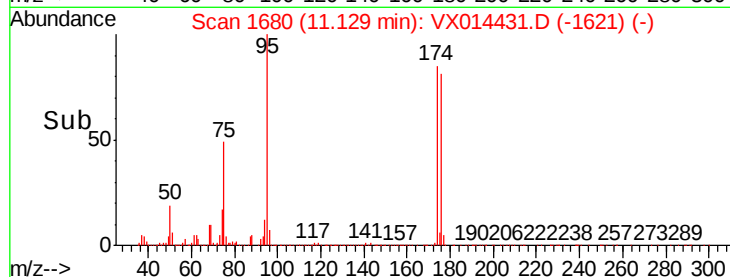
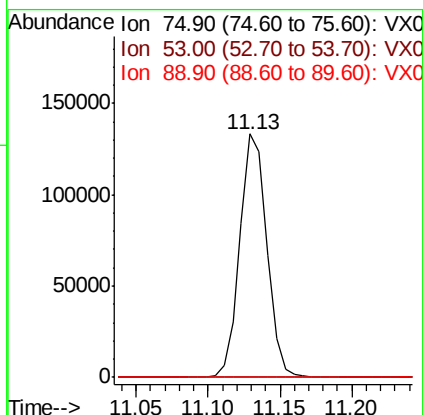
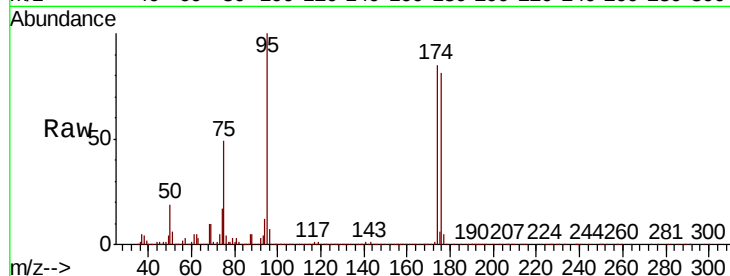




#81
trans-1,4-Dichloro-2-butene
Concen: 62.287 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

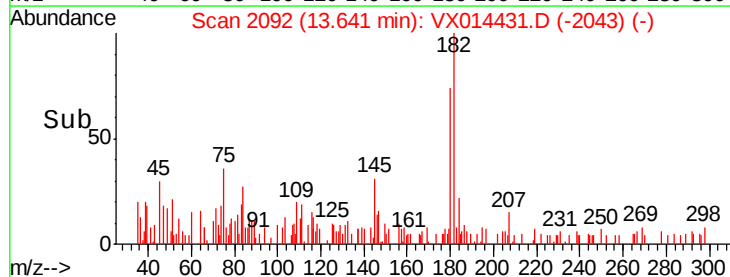
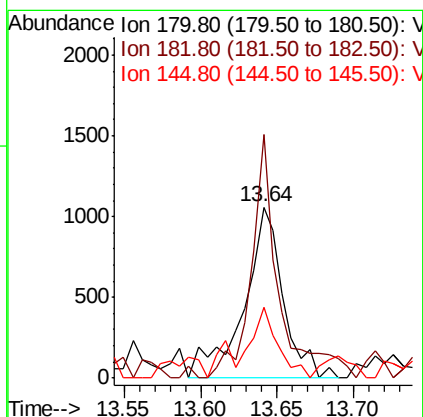
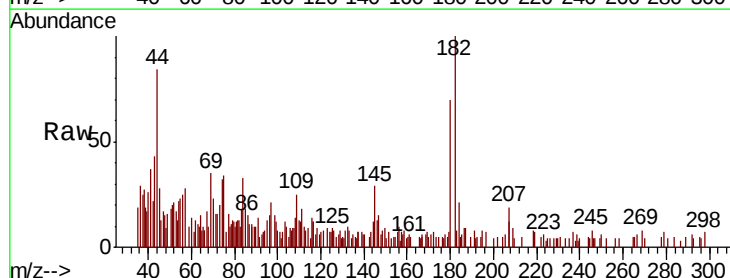
Instrument :
MSVOA_X
ClientSampleId :

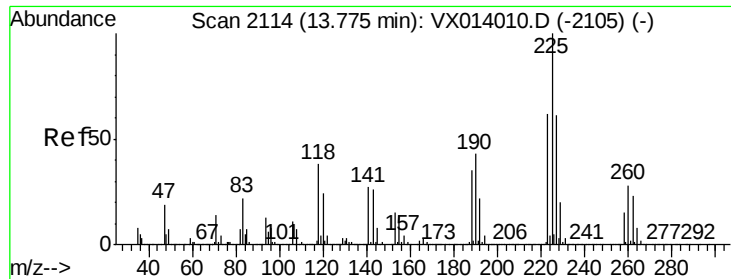
Tot Ion: 75 Resp: 173050
Ion Ratio Lower Upper
75 100
53 0.4 76.7 115.1#
89 0.0 34.6 51.8#



#93
1,2,4-Trichlorobenzene
Concen: 0.235 ug/l
RT: 13.64 min Scan# 2092
Delta R.T. 0.00 min
Lab File: VX014431.D
Acq: 06 Jan 2020 16:42

Tgt Ion:180 Resp: 1887
Ion Ratio Lower Upper
180 100
182 99.5 46.6 139.8
145 27.9 14.2 42.6





#94

Hexachlorobutadiene

Concen: 0.262 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014431.D

Acq: 06 Jan 2020 16:42

Instrument :

MSVOA_X

ClientSampleId :

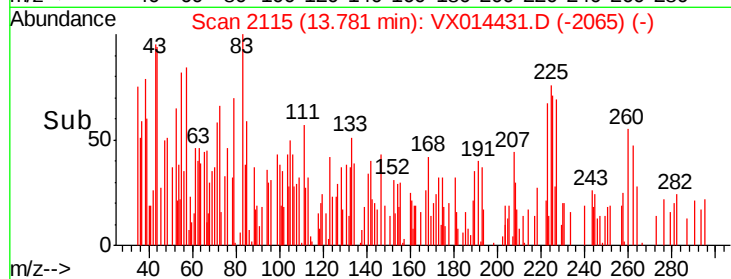
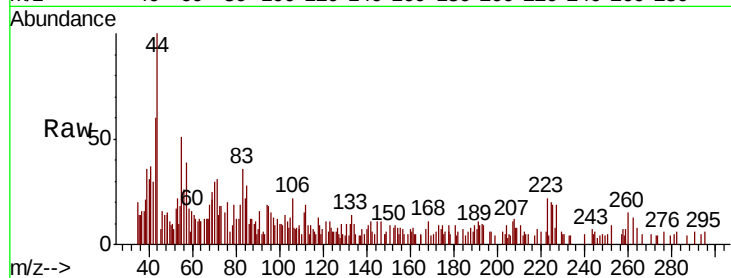
Tot Ion:225 Resp: 1012

Ion Ratio Lower Upper

225 100

223 47.5 30.9 92.5

227 62.7 30.9 92.7



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

