

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014360.D
 Acq On : 30 Dec 2019 17:43
 Operator : JC/SP
 Sample : K6460-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

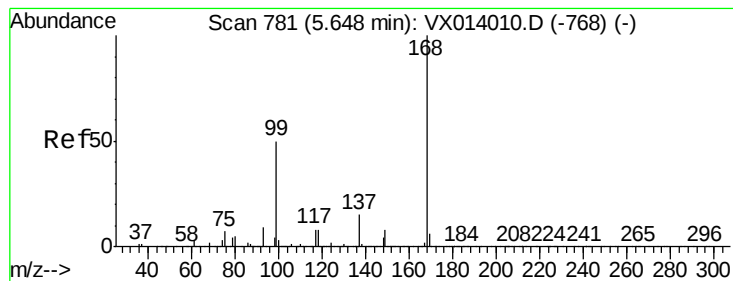
Quant Time: Dec 31 01:20:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	511477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	788420	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	703294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	319181	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	286540	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
35) Dibromofluoromethane	5.49	113	237190	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	
50) Toluene-d8	8.71	98	938483	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
62) 4-Bromofluorobenzene	11.13	95	315275	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2604	0.424	ug/l #	84
10) Methyl Iodide	2.51	142	379	2.677	ug/l #	8
11) Tert butyl alcohol	3.03	59	457	0.365	ug/l #	1
13) Acrolein	2.28	56	260	0.363	ug/l #	1
15) Acrylonitrile	3.12	53	812	0.278	ug/l #	65
16) Acetone	2.43	43	9115	2.422	ug/l	96
17) Carbon Disulfide	2.57	76	4454	1.071	ug/l #	84
20) Methylene Chloride	2.85	84	1193	0.201	ug/l #	63
25) 2-Butanone	4.69	43	2201	0.474	ug/l #	90
28) Bromochloromethane	4.99	49	449	0.573	ug/l #	53
29) Tetrahydrofuran	5.15	42	1049	0.404	ug/l #	60
31) Cyclohexane	5.65	56	9263	1.069	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	35269	4.875	ug/l #	50
38) Carbon Tetrachloride	5.65	117	44518	6.755	ug/l #	17
49) 1,4-Dioxane	7.70	88	299	2.270	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.42	63	704	0.210	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	151408	21.850	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	151408	61.673	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.07	75	427	0.248	ug/l	63

(#) = 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: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :

MSVOA_X

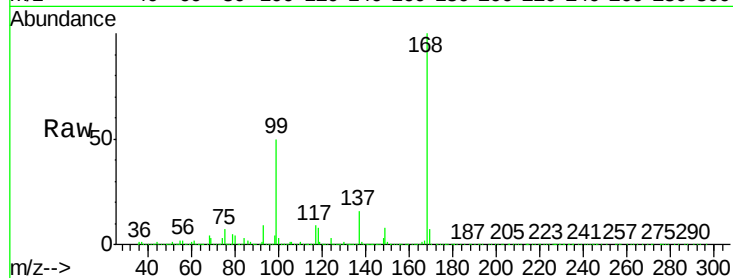
ClientSampled :

Tot Ion:168 Resp: 511477

Ion Ratio Lower Upper

168 100

99 49.9 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

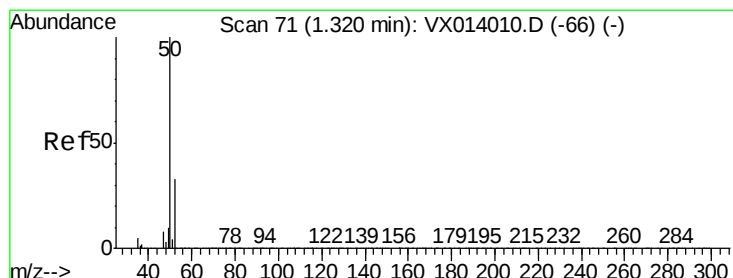
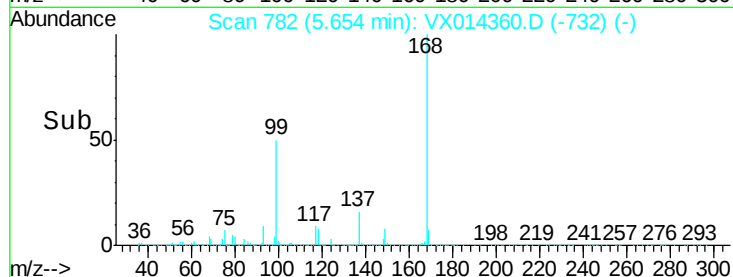
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.424 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014360.D

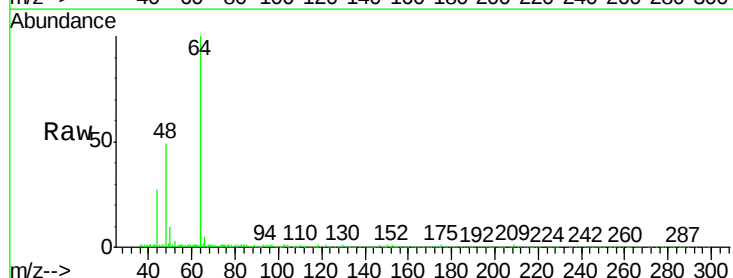
Acq: 30 Dec 2019 17:43

Tgt Ion: 50 Resp: 2604

Ion Ratio Lower Upper

50 100

52 23.7 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

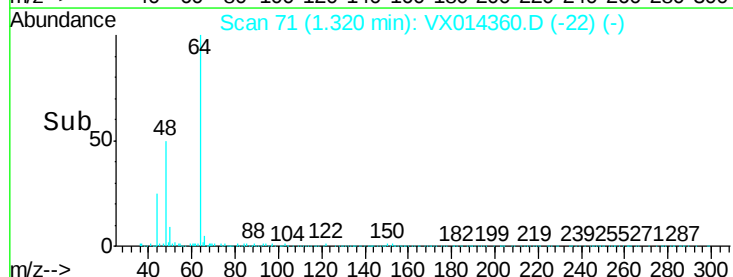
3000

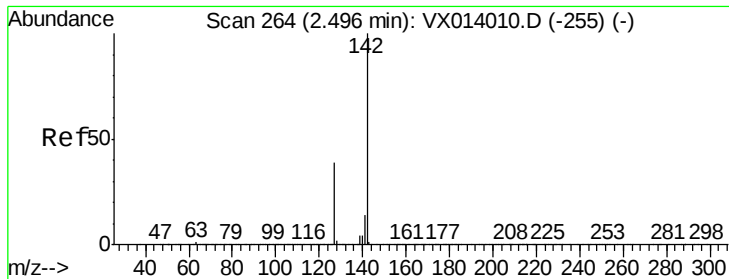
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1000

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Time-->

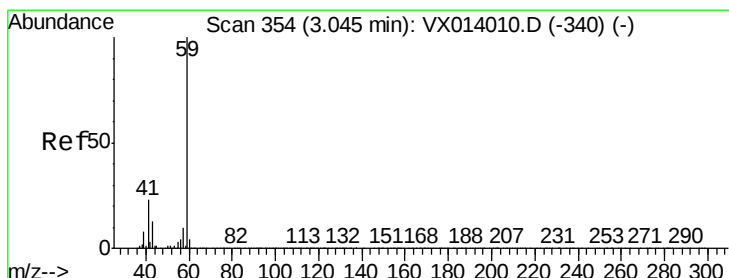
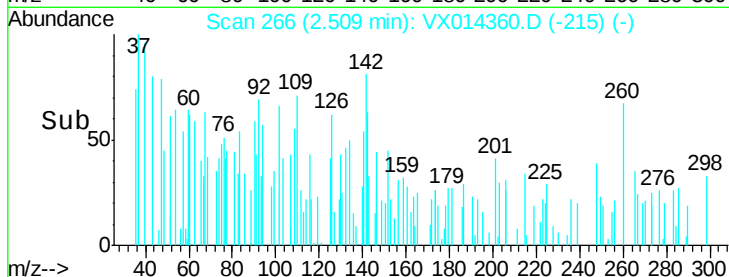
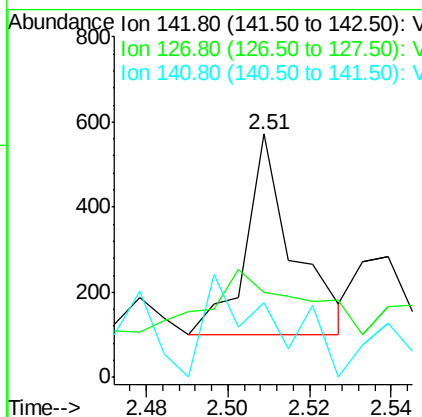
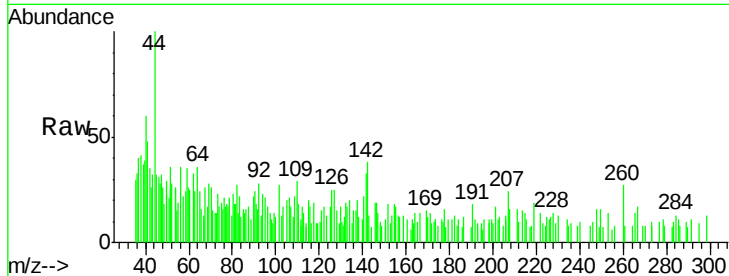




#10
Methvl Iodide
Concen: 2.677 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014360.D
Acq: 30 Dec 2019 17:43

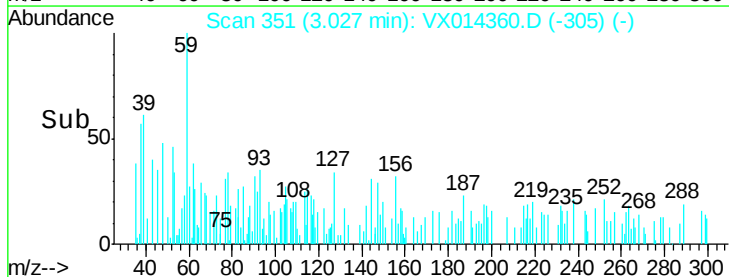
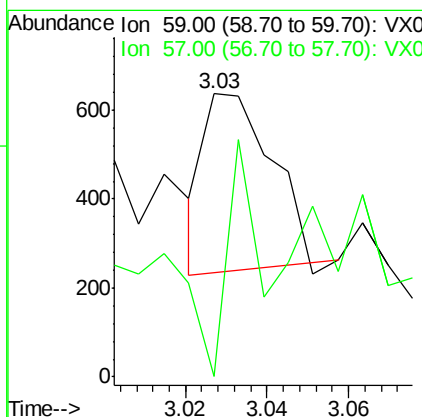
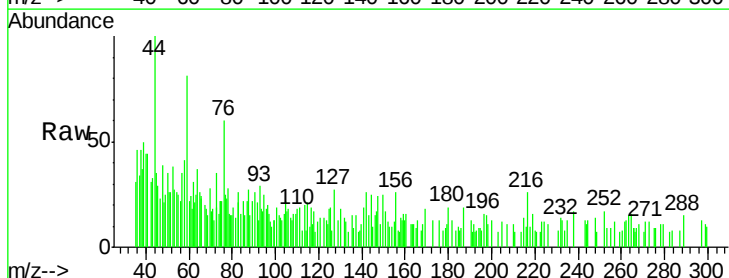
Instrument :
MSVOA_X
ClientSampled :

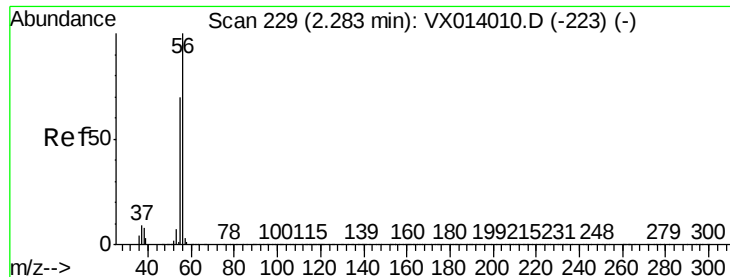
Tot Ion:142 Resp: 379
Ion Ratio Lower Upper
142 100
127 83.6 31.6 47.4#
141 74.7 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.365 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.02 min
Lab File: VX014360.D
Acq: 30 Dec 2019 17:43

Tgt Ion: 59 Resp: 457
Ion Ratio Lower Upper
59 100
57 77.7 8.4 12.6#





#13

Acrolein

Concen: 0.363 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :

MSVOA_X

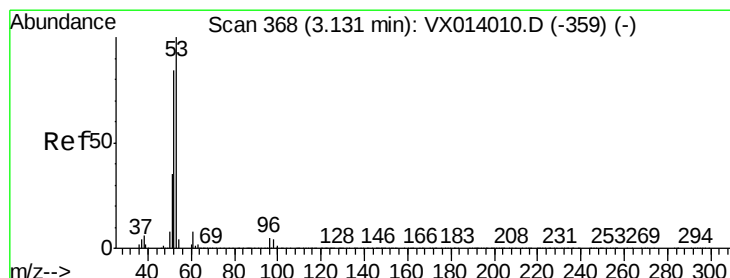
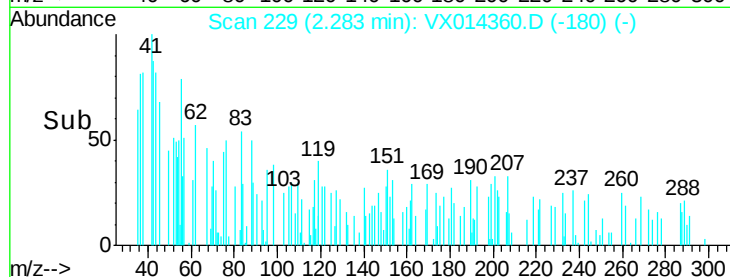
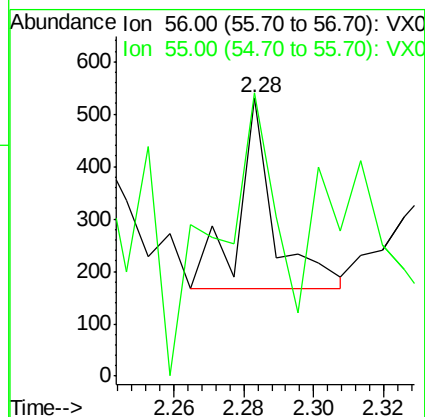
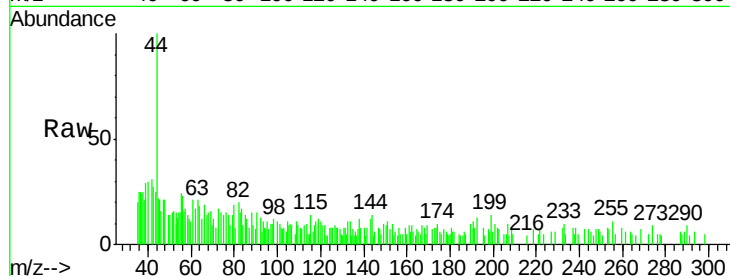
ClientSampled :

Tot Ion: 56 Resp: 260

Ion Ratio Lower Upper

56 100

55 249.6 56.9 85.3#



#15

Acrylonitrile

Concen: 0.278 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

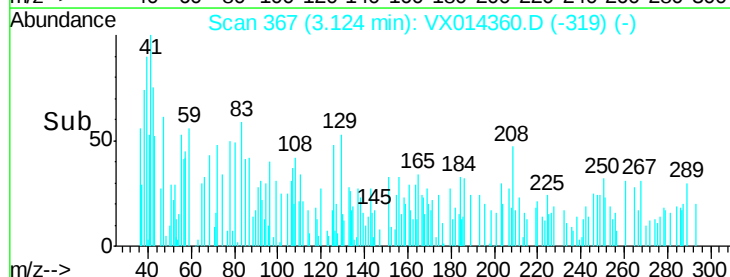
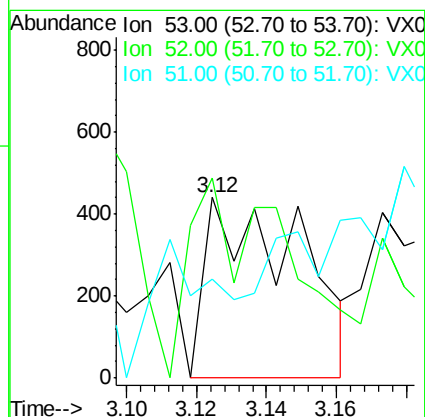
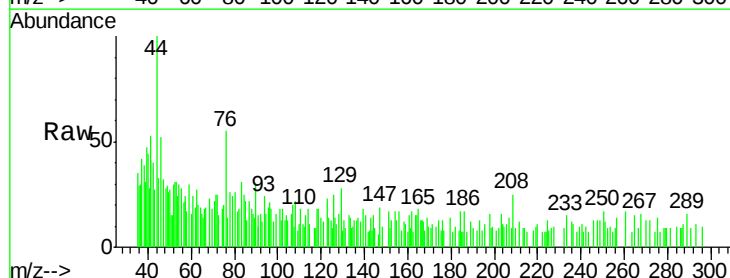
Tgt Ion: 53 Resp: 812

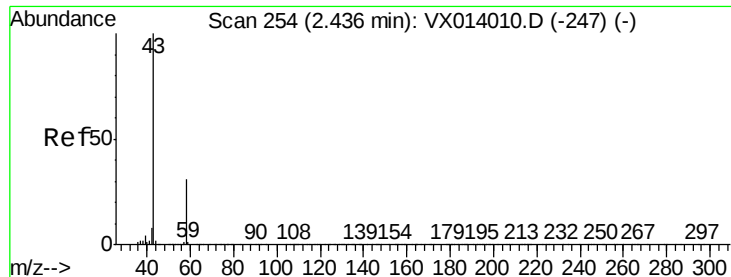
Ion Ratio Lower Upper

53 100

52 49.1 66.5 99.7#

51 51.8 28.1 42.1#





#16

Acetone

Concen: 2.422 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :

MSVOA_X

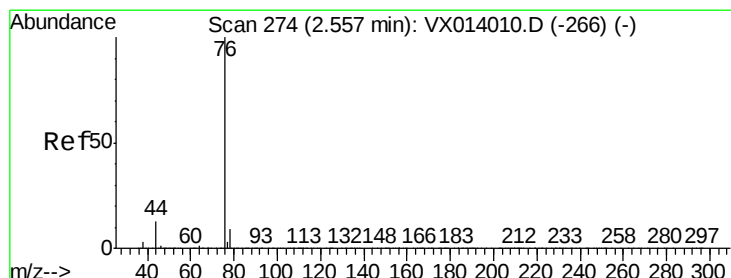
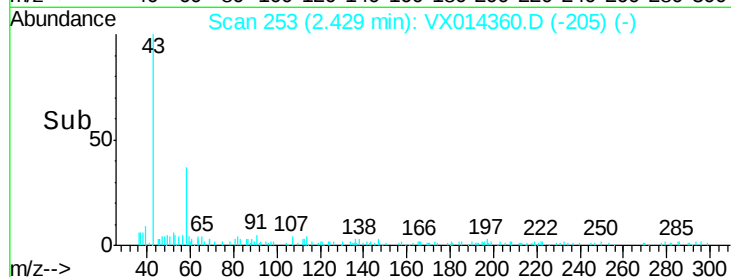
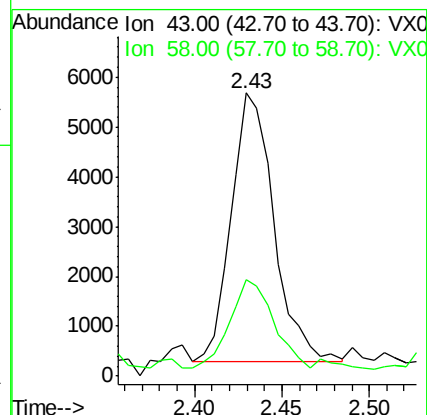
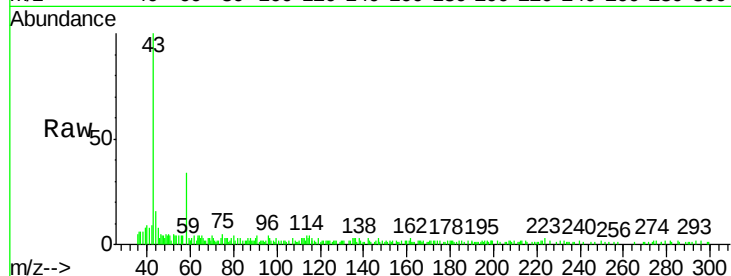
ClientSampleId :

Tot Ion: 43 Resp: 9115

Ion Ratio Lower Upper

43 100

58 33.1 24.9 37.3



#17

Carbon Disulfide

Concen: 1.071 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014360.D

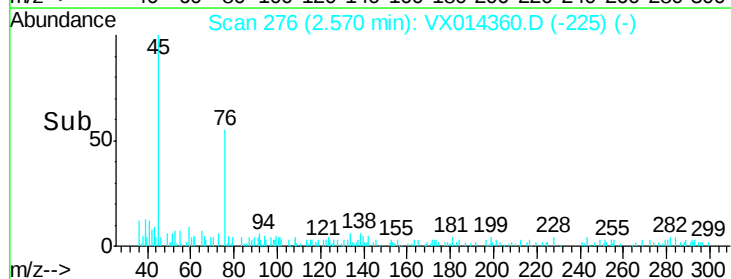
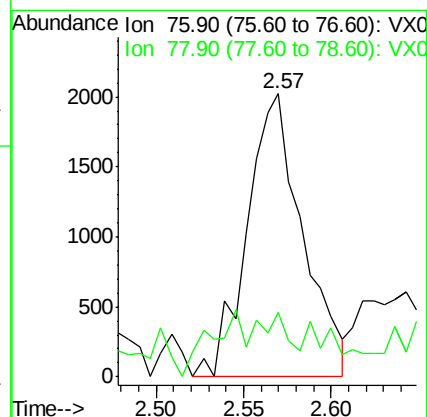
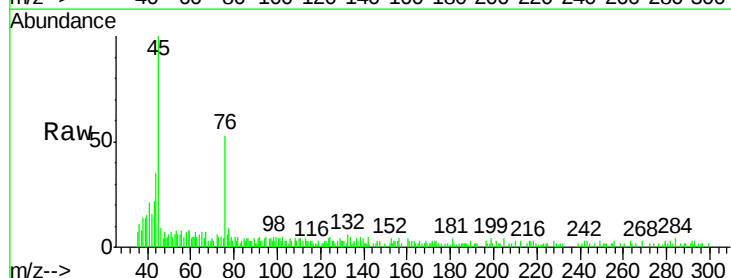
Acq: 30 Dec 2019 17:43

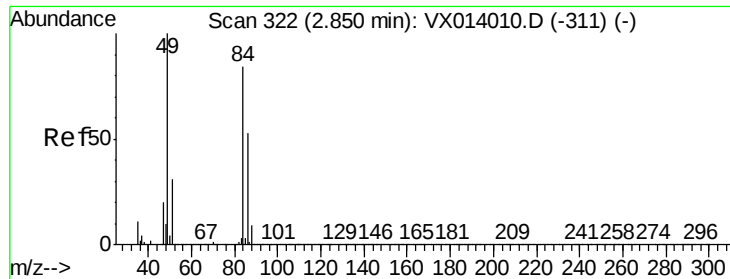
Tgt Ion: 76 Resp: 4454

Ion Ratio Lower Upper

76 100

78 14.9 7.2 10.8#

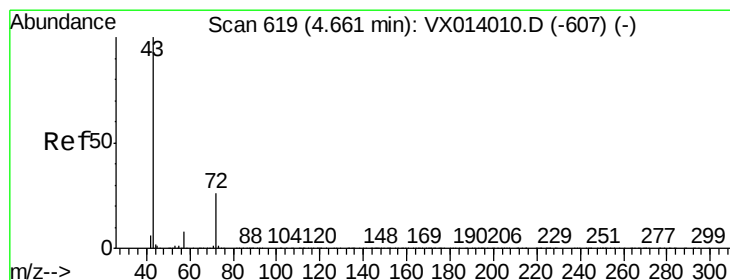
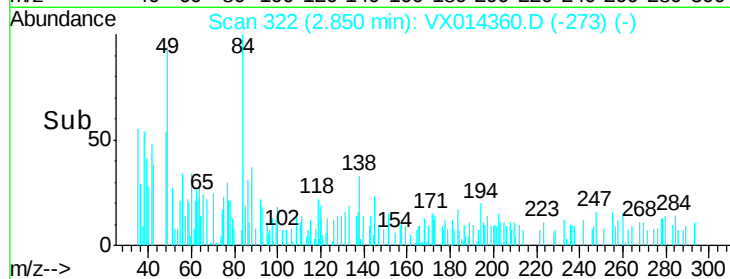
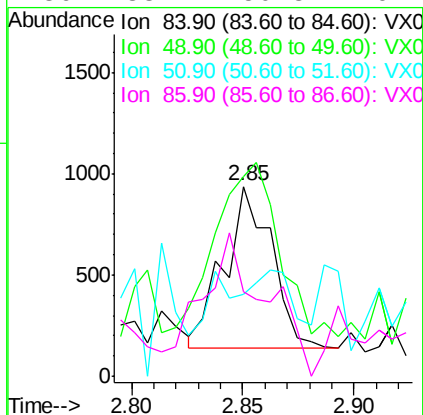
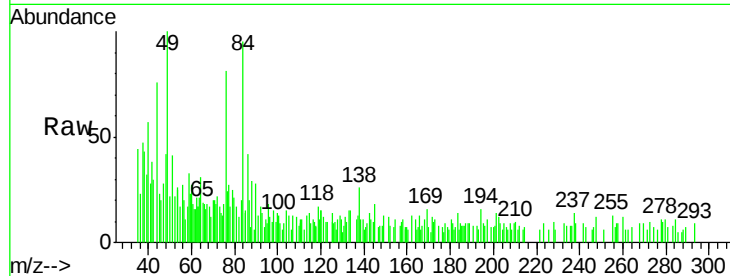




#20
Methvlene Chloride
Concen: 0.201 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014360.D
Acq: 30 Dec 2019 17:43

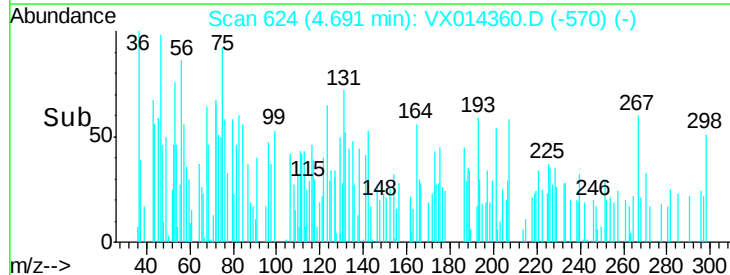
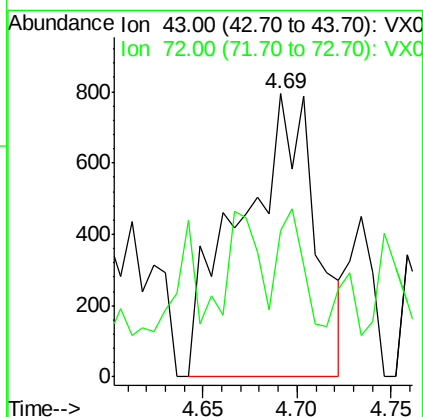
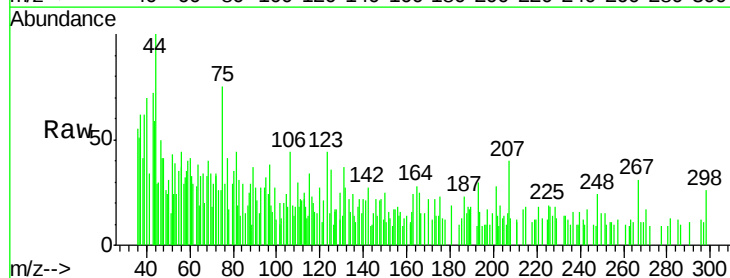
Instrument :
MSVOA_X
ClientSampled :

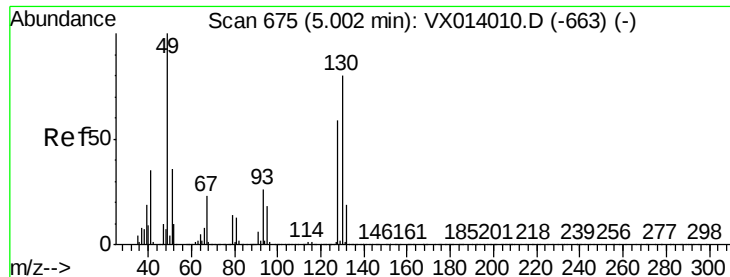
Tot Ion: 84 Resp: 1193
Ion Ratio Lower Upper
84 100
49 74.7 95.8 143.6#
51 25.3 29.8 44.8#
86 33.4 50.8 76.2#



#25
2-Butanone
Concen: 0.474 ug/l
RT: 4.69 min Scan# 624
Delta R.T. 0.03 min
Lab File: VX014360.D
Acq: 30 Dec 2019 17:43

Tgt Ion: 43 Resp: 2201
Ion Ratio Lower Upper
43 100
72 20.9 21.0 31.4#





#28

Bromochloromethane

Concen: 0.573 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :
MSVOA_X
ClientSampled :

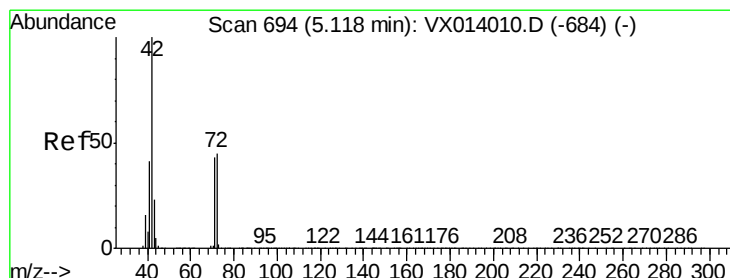
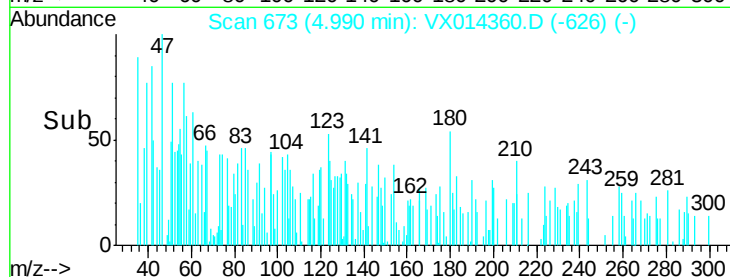
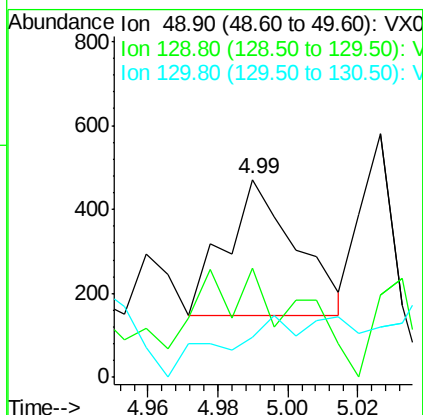
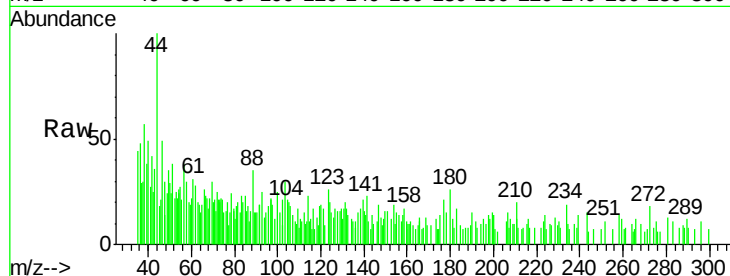
Tot Ion: 49 Resp: 449

Ion Ratio Lower Upper

49 100

129 111.6 0.0 5.0#

130 46.3 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.404 ug/l

RT: 5.15 min Scan# 700

Delta R.T. 0.04 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

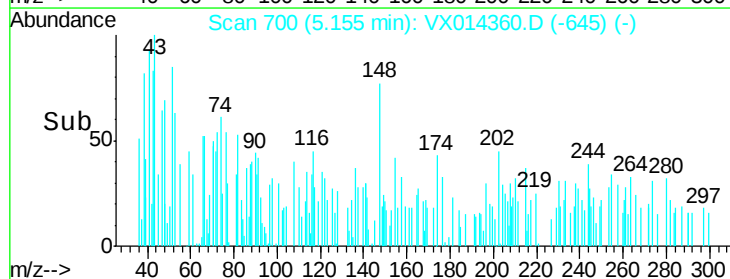
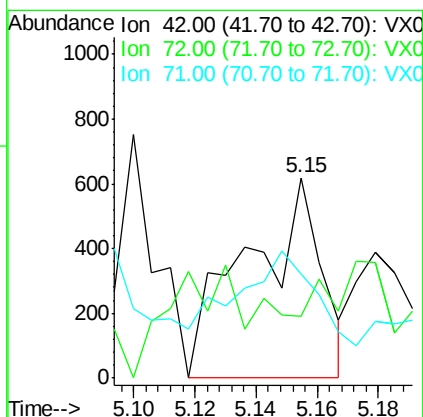
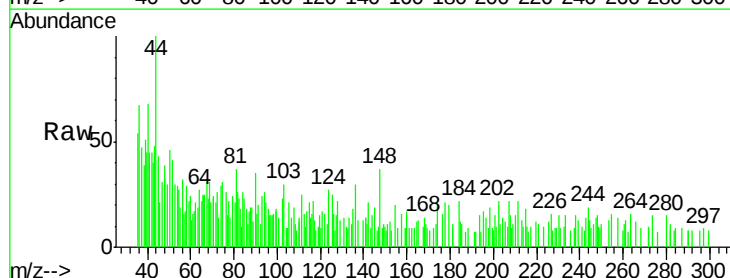
Tgt Ion: 42 Resp: 1049

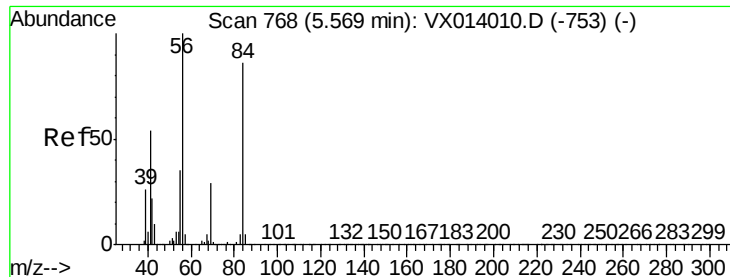
Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.8#

71 48.0 33.6 50.4

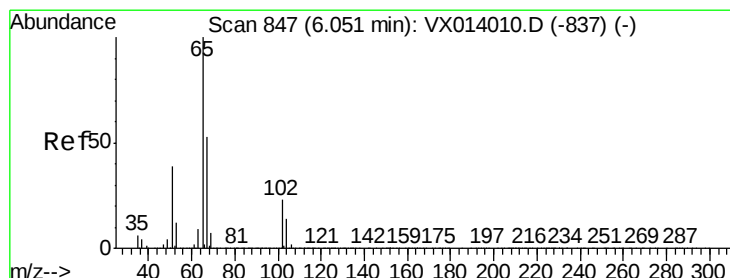
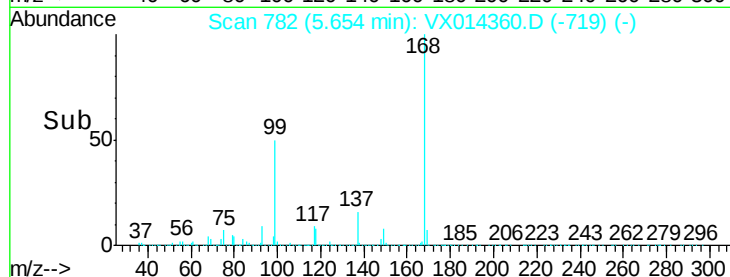
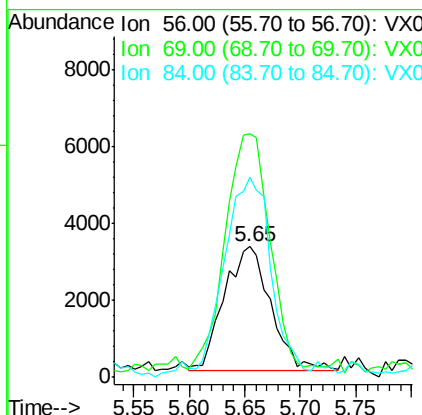
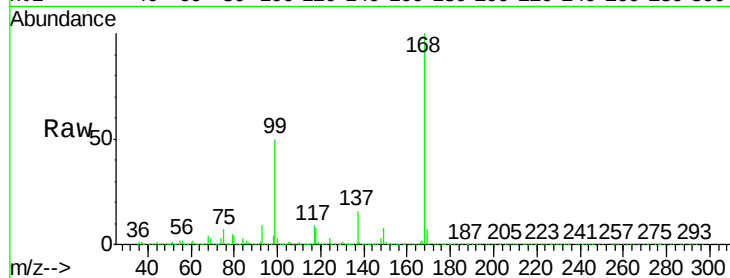




#31
Cyclohexane
Concen: 1.069 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX014360.D
Acq: 30 Dec 2019 17:43

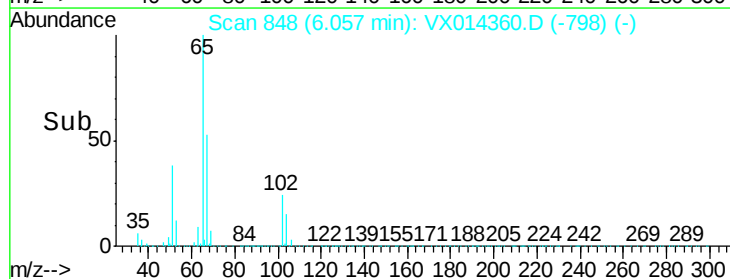
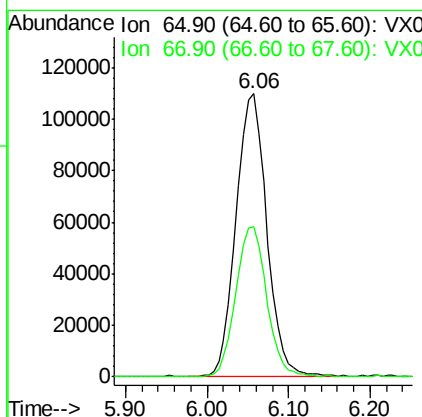
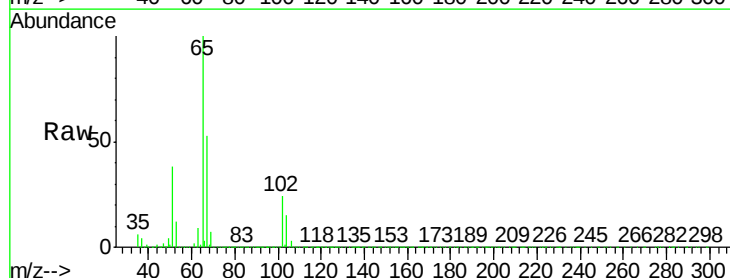
Instrument :
MSVOA_X
ClientSampleId :

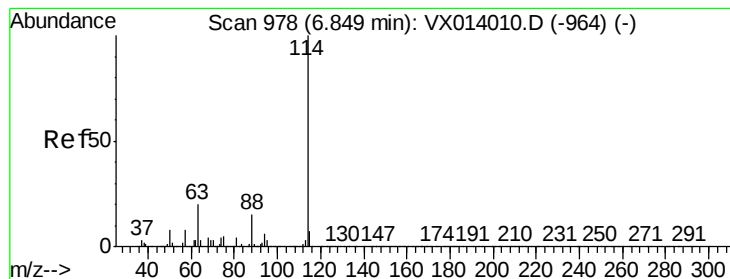
Tot Ion: 56 Resp: 9263
Ion Ratio Lower Upper
56 100
69 190.9 23.2 34.8#
84 158.8 69.2 103.8#



#33
1,2-Dichloroethane-d4
Concen: 49.430 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX014360.D
Acq: 30 Dec 2019 17:43

Tgt Ion: 65 Resp: 286540
Ion Ratio Lower Upper
65 100
67 53.2 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: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :

MSVOA_X

ClientSampleId :

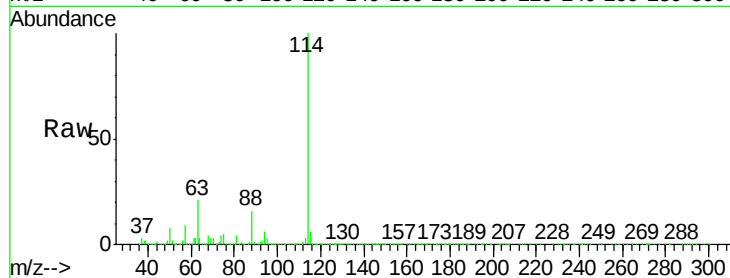
Tot Ion:114 Resp: 788420

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.8

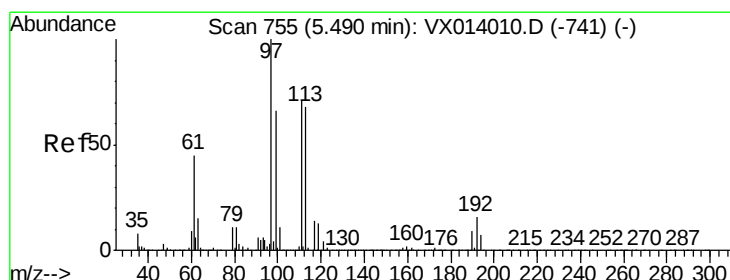
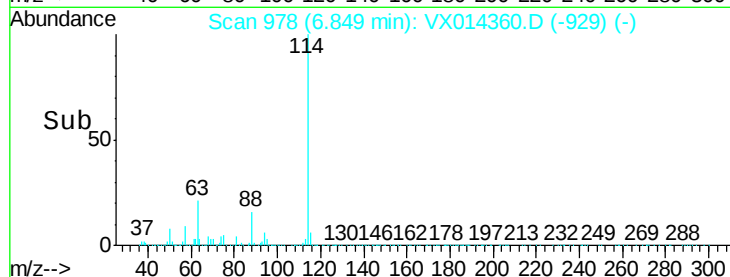
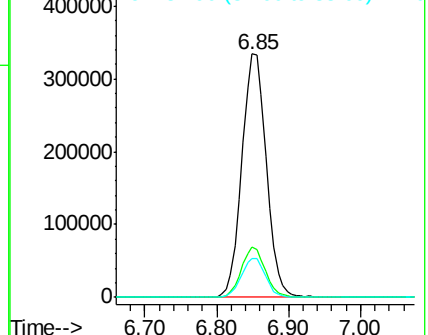
88 15.8 0.0 30.4



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: 49.490 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

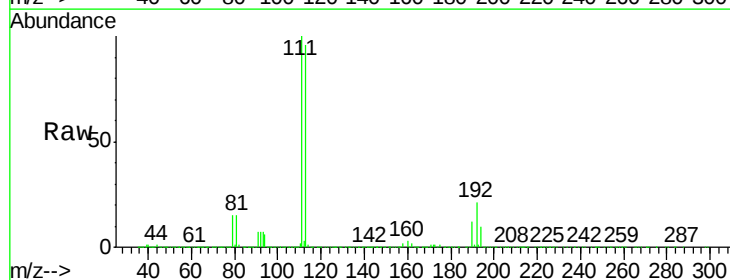
Tgt Ion:113 Resp: 237190

Ion Ratio Lower Upper

113 100

111 102.1 82.0 123.0

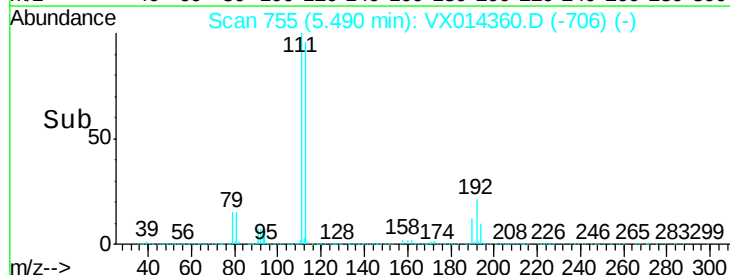
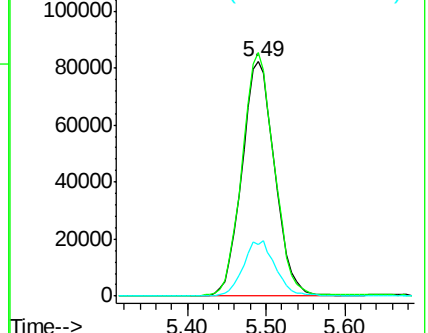
192 23.4 19.3 28.9

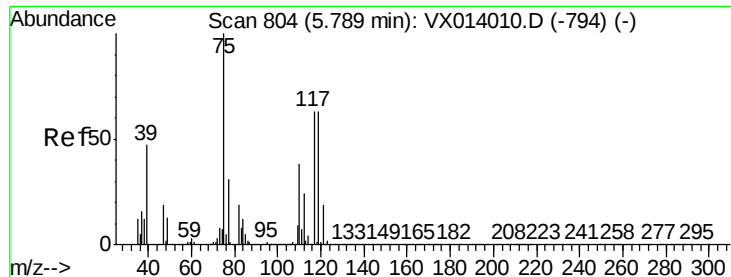


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.875 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :

MSVOA_X

ClientSampleId :

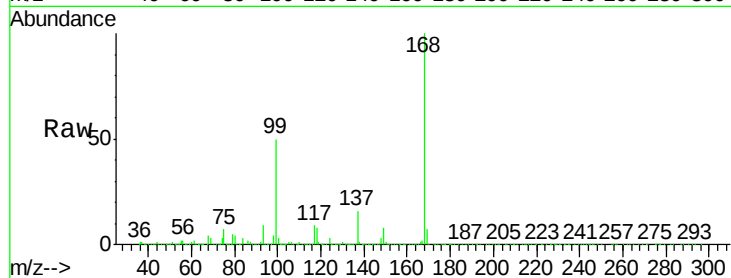
Tot Ion: 75 Resp: 35269

Ion Ratio Lower Upper

75 100

110 9.6 18.3 54.9#

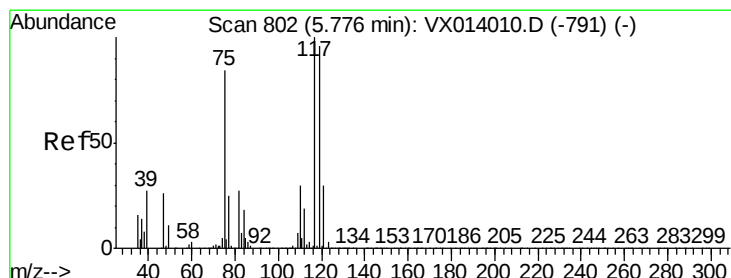
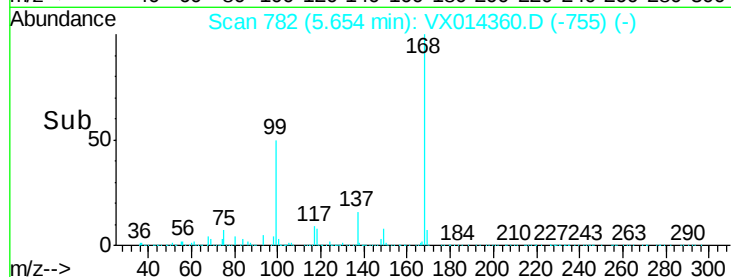
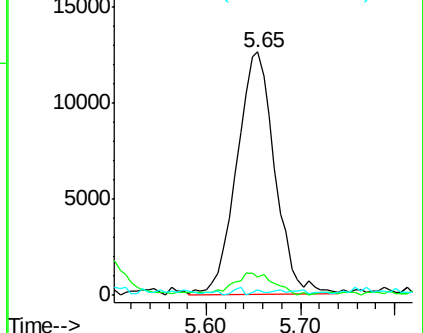
77 0.8 24.8 37.2#



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: 6.755 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

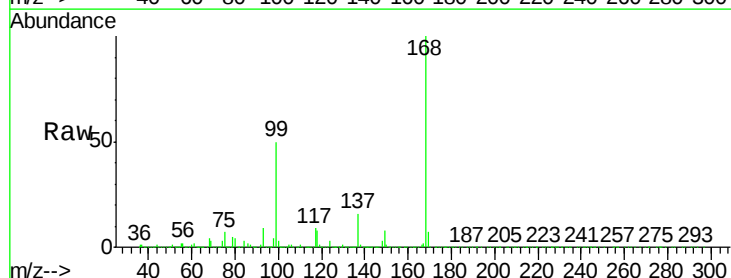
Tgt Ion: 117 Resp: 44518

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.4#

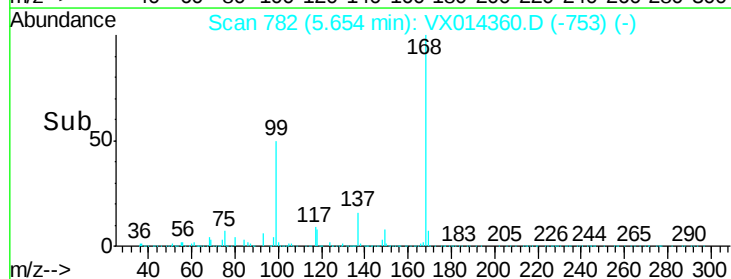
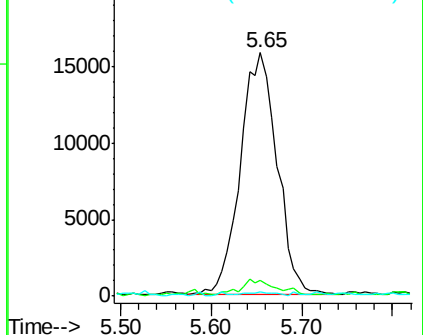
121 0.9 23.6 35.4#

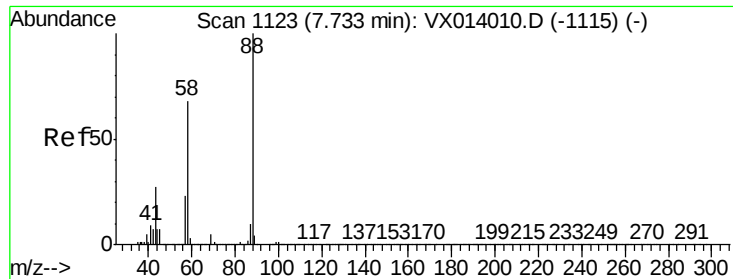


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 2.270 ug/l

RT: 7.70 min Scan# 1117

Delta R.T. -0.04 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :

MSVOA_X

ClientSampleId :

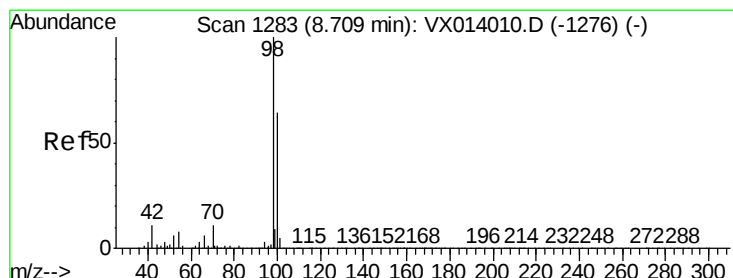
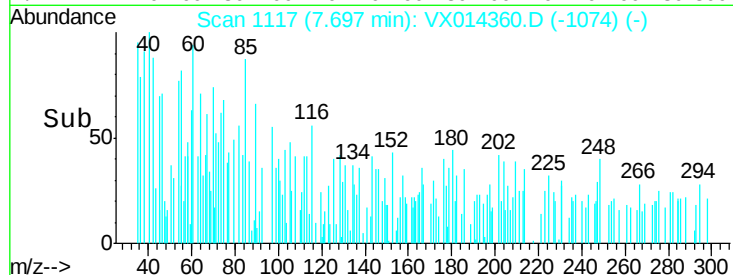
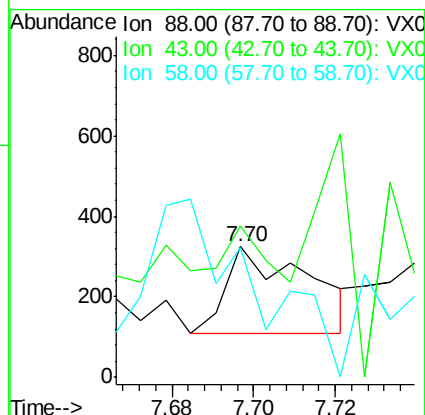
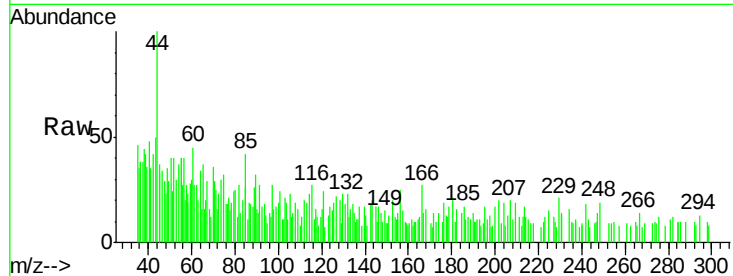
Tot Ion: 88 Resp: 299

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 265.2 56.8 85.2#



#50

Toluene-d8

Concen: 50.296 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014360.D

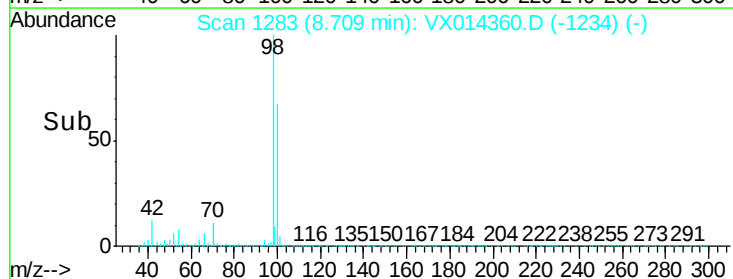
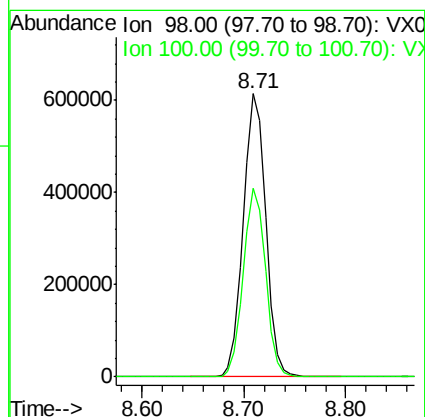
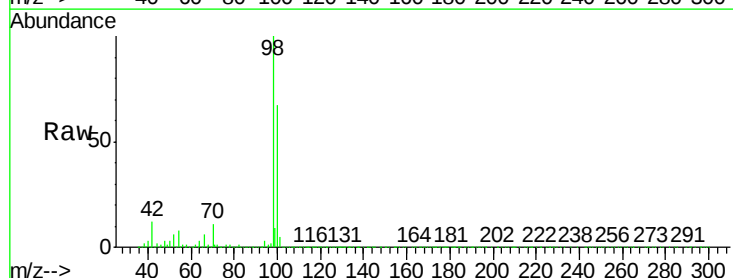
Acq: 30 Dec 2019 17:43

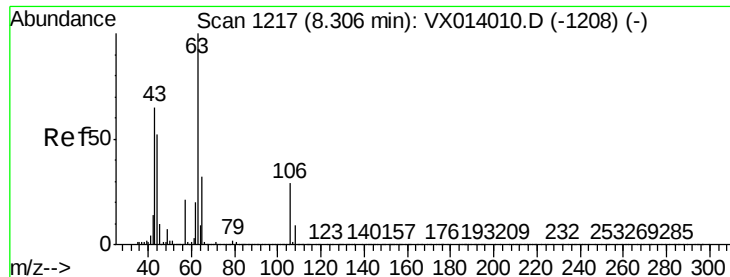
Tgt Ion: 98 Resp: 938483

Ion Ratio Lower Upper

98 100

100 66.2 52.9 79.3

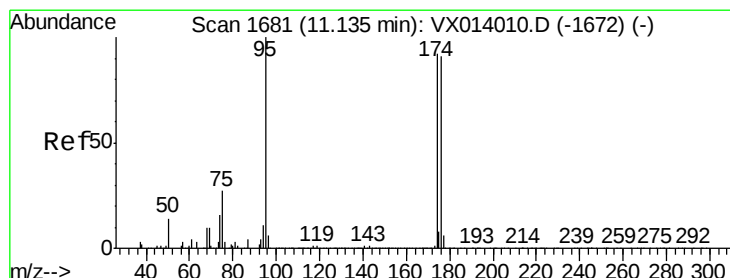
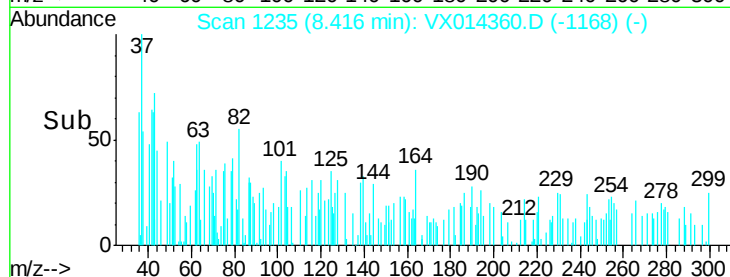
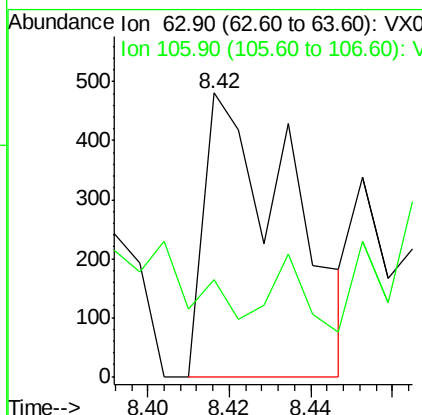
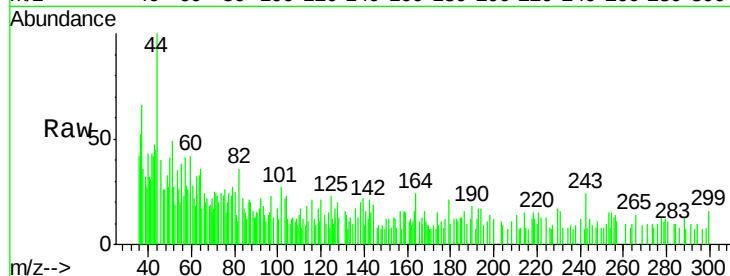




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.210 ug/l
 RT: 8.42 min Scan# 1235
 Delta R.T. 0.11 min
 Lab File: VX014360.D
 Acq: 30 Dec 2019 17:43

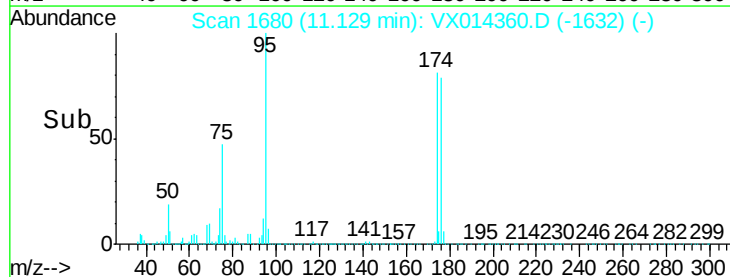
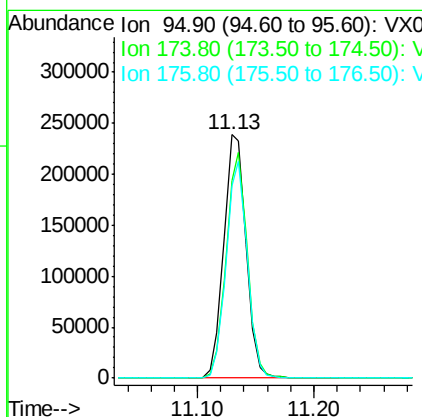
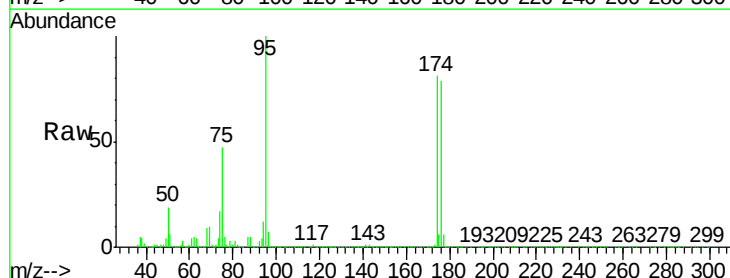
Instrument :
 MSVOA_X
 ClientSampleId :

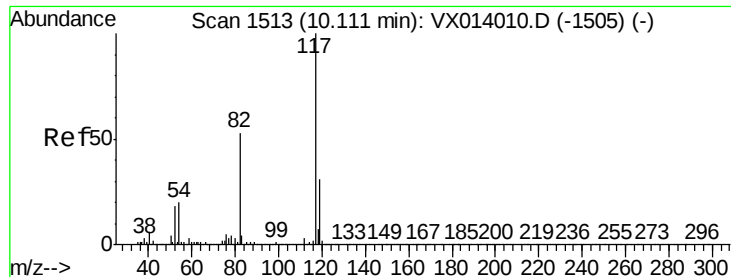
Tot Ion: 63 Resp: 704
 Ion Ratio Lower Upper
 63 100
 106 25.0 23.0 34.6



#62
 4-Bromofluorobenzene
 Concen: 46.223 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.01 min
 Lab File: VX014360.D
 Acq: 30 Dec 2019 17:43

Tgt Ion: 95 Resp: 315275
 Ion Ratio Lower Upper
 95 100
 174 88.3 0.0 175.8
 176 85.1 0.0 173.0

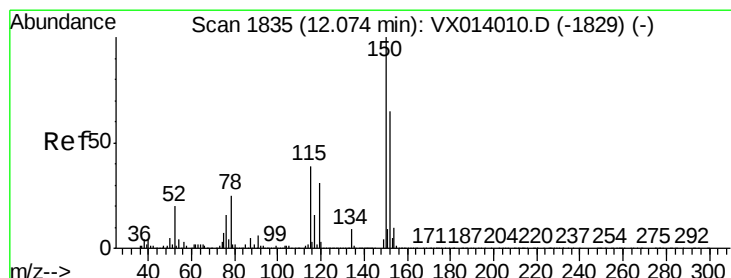
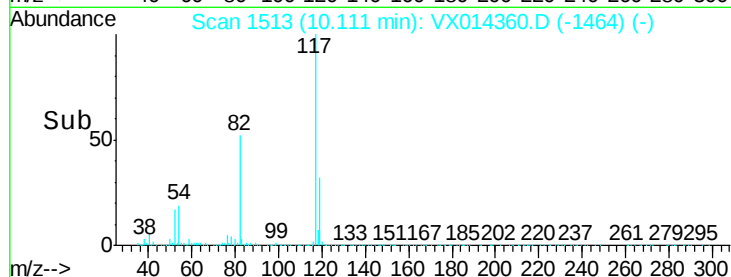
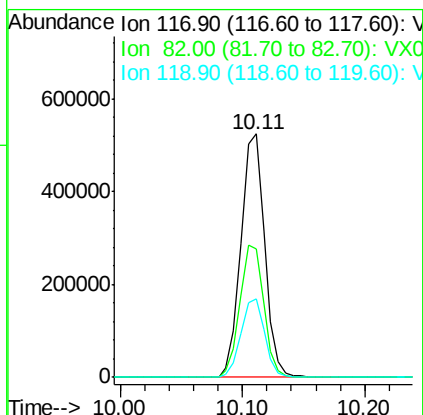
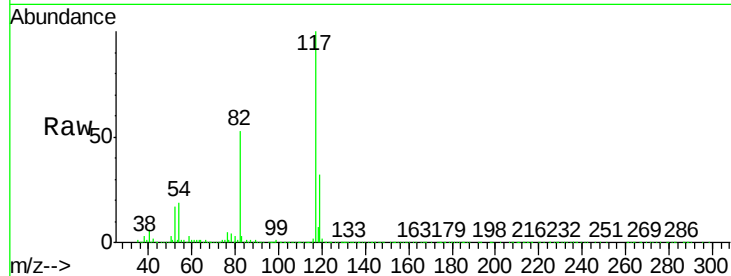




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014360.D
Acq: 30 Dec 2019 17:43

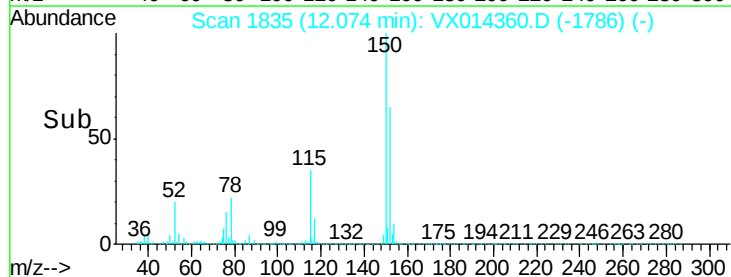
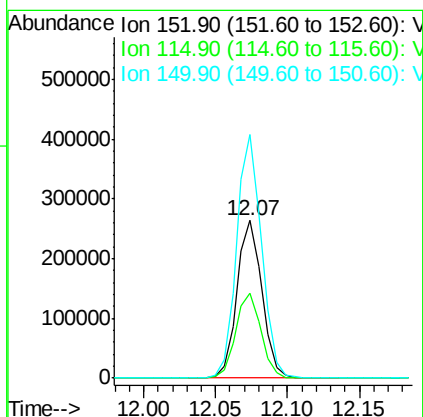
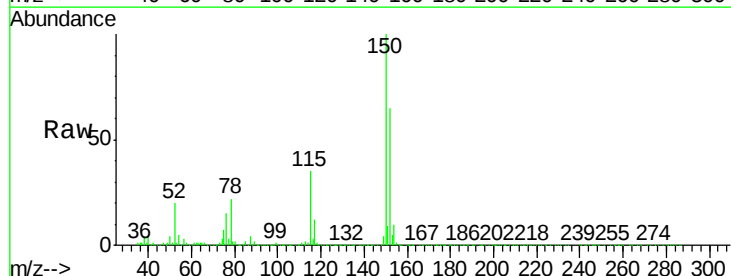
Instrument :
MSVOA_X
ClientSampleId :

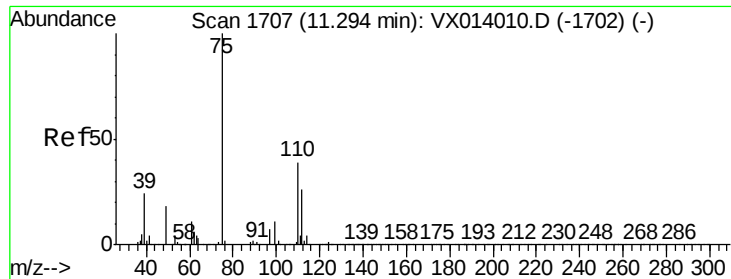
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.2	63.4
119	32.4	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014360.D
Acq: 30 Dec 2019 17:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	38.3	114.9
150	154.4	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 21.850 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :

MSVOA_X

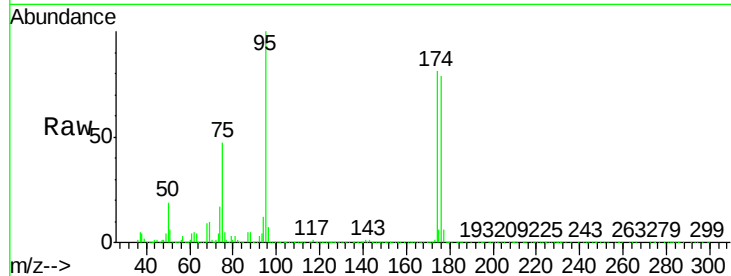
ClientSampleId :

Tot Ion: 75 Resp: 151408

Ion Ratio Lower Upper

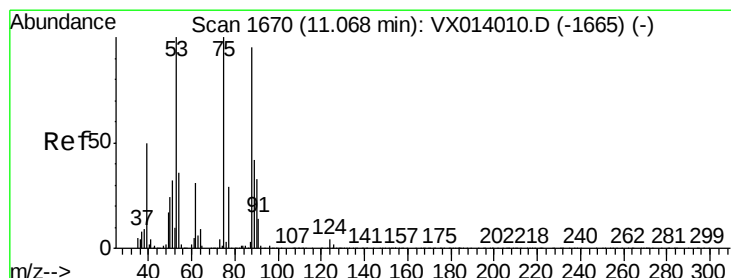
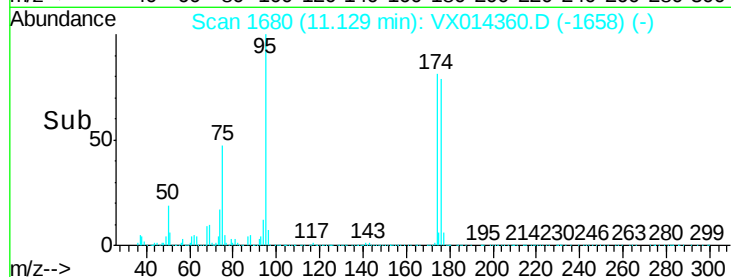
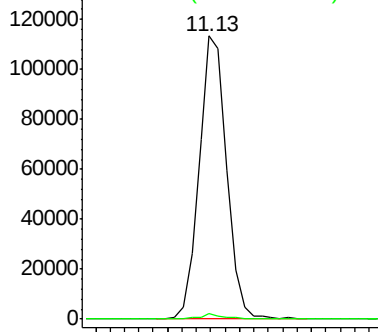
75 100

77 1.7 19.3 57.8#



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: 61.673 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

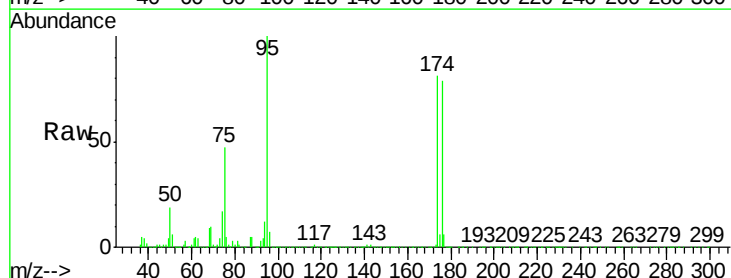
Tgt Ion: 75 Resp: 151408

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

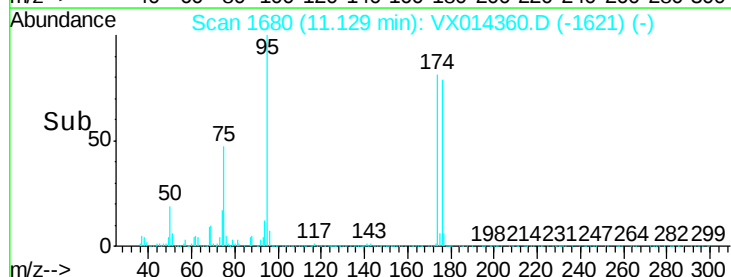
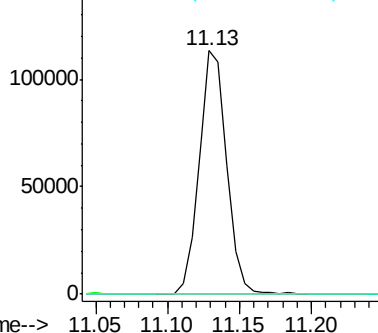
89 0.0 34.6 51.8#

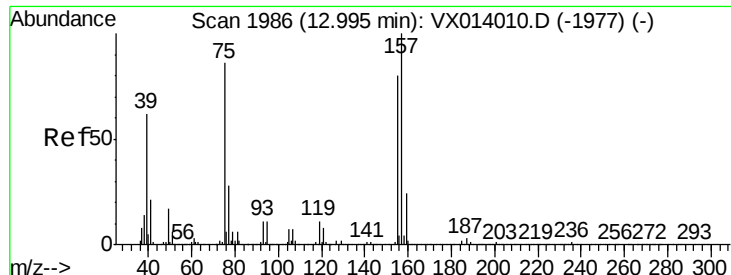


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.248 ug/l

RT: 13.07 min Scan# 1998

Delta R.T. 0.07 min

Lab File: VX014360.D

Acq: 30 Dec 2019 17:43

Instrument :

MSVOA_X

ClientSampleId :

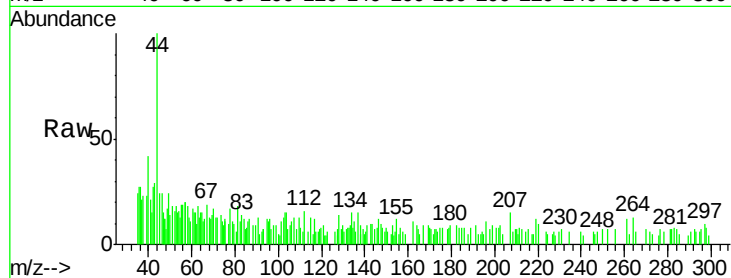
Tot Ion: 75 Resp: 427

Ion Ratio Lower Upper

75 100

155 71.0 46.9 140.6

157 68.1 60.8 182.4



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

