

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX011420\
 Data File : VX014600.D
 Acq On : 14 Jan 2020 12:09
 Operator : JC/SP
 Sample : L1116-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-200113

Quant Time: Jan 14 23:32:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	484587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	753462	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	692625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	316768	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	277915	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
35) Dibromofluoromethane	5.49	113	227271	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	
50) Toluene-d8	8.71	98	901381	50.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.13	95	306761	47.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.42%	

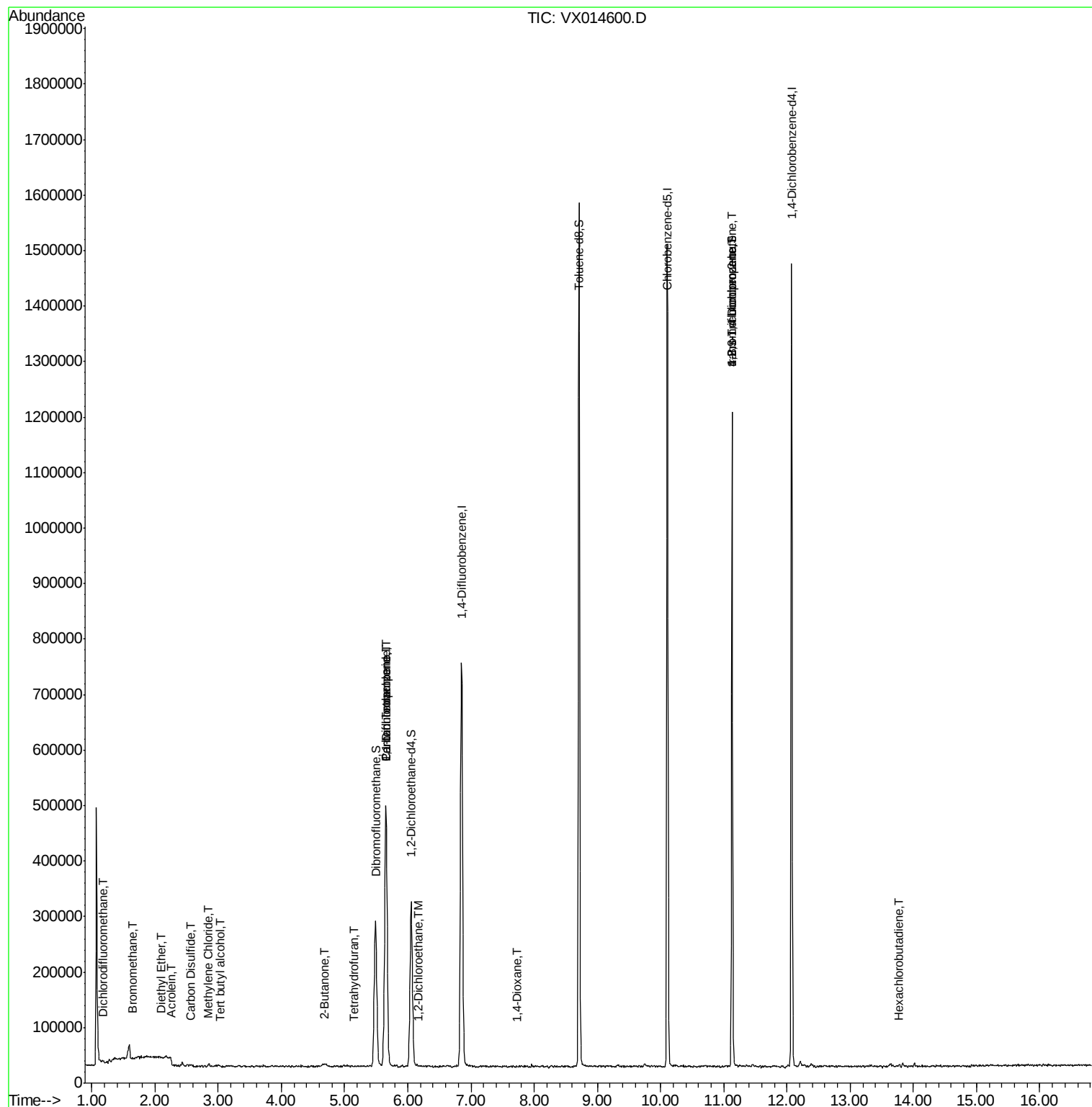
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.19	85	234	0.291 ug/l #	67
5) Bromomethane	1.65	94	1935	0.424 ug/l #	72
6) Chloroethane	1.72	64	1062	Below Cal #	43
8) Diethyl Ether	2.09	74	740	0.208 ug/l	63
11) Tert butyl alcohol	3.03	59	1258	1.114 ug/l #	31
13) Acrolein	2.27	56	428	0.473 ug/l #	54
16) Acetone	2.43	43	7958	Below Cal	96
17) Carbon Disulfide	2.56	76	2829	0.212 ug/l #	89
20) Methylene Chloride	2.84	84	2817	0.518 ug/l #	64
25) 2-Butanone	4.67	43	1545	0.382 ug/l #	55
29) Tetrahydrofuran	5.14	42	1252	0.524 ug/l #	56
36) 1,1-Dichloropropene	5.65	75	33918	4.787 ug/l #	51
38) Carbon Tetrachloride	5.65	117	42071	6.452 ug/l #	18
42) 1,2-Dichloroethane	6.17	62	1475	0.201 ug/l #	73
49) 1,4-Dioxane	7.73	88	467	3.701 ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	151050	23.047 ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	151050	60.932 ug/l #	12
88) 1,4-Dichlorobenzene	12.02	146	1348	Below Cal	94
94) Hexachlorobutadiene	13.78	225	837	0.296 ug/l	90
96) 1,2,3-Trichlorobenzene	14.02	180	1828	Below Cal #	85

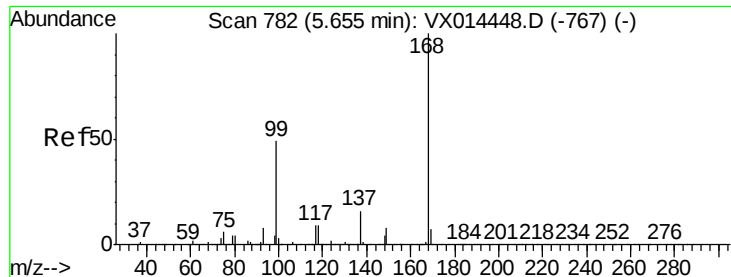
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

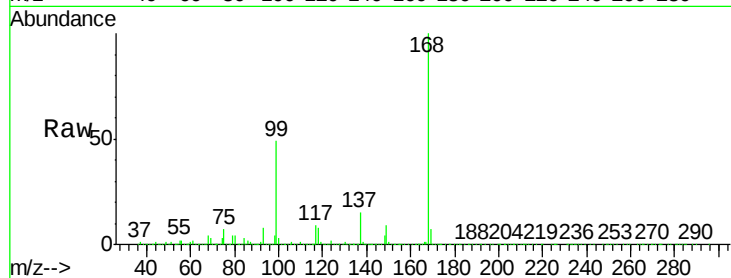
TB-01-200113

Tgt Ion:168 Resp: 484587

Ion Ratio Lower Upper

168 100

99 49.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

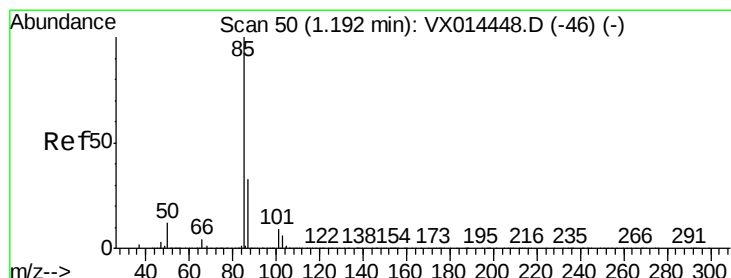
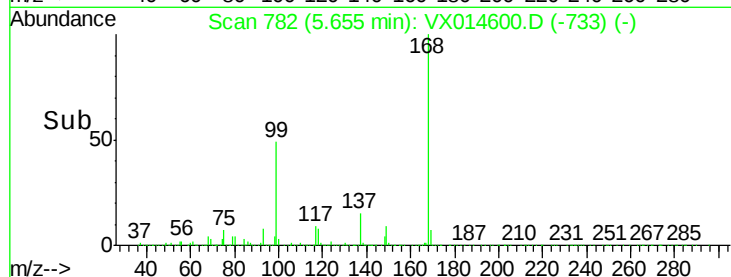
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.291 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014600.D

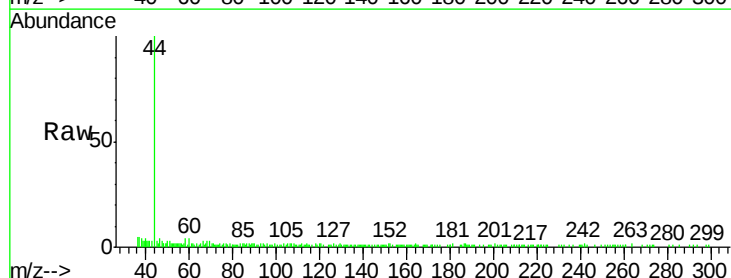
Acq: 14 Jan 2020 12:09

Tgt Ion: 85 Resp: 234

Ion Ratio Lower Upper

85 100

87 14.4 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

400

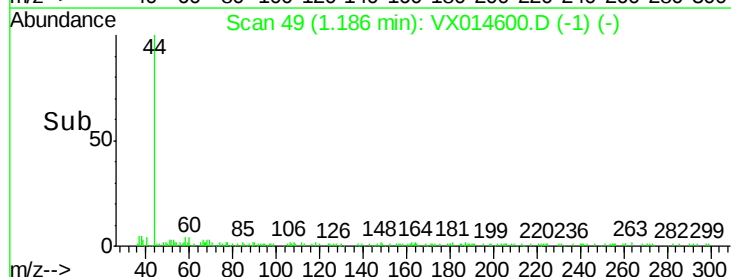
300

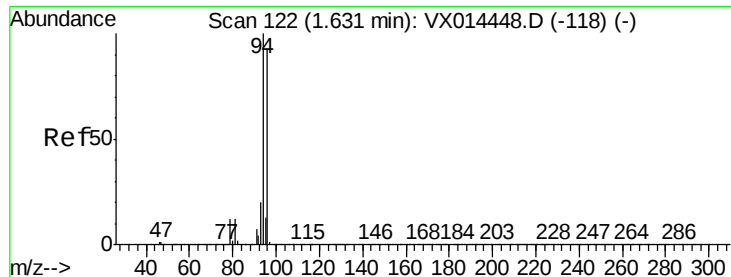
200

100

0

Time--> 1.17 1.18 1.19 1.20 1.21





#5

Bromomethane

Concen: 0.424 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

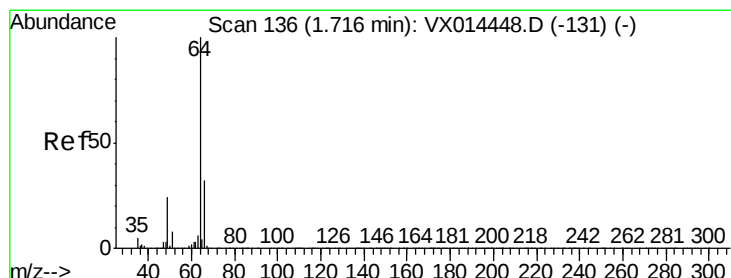
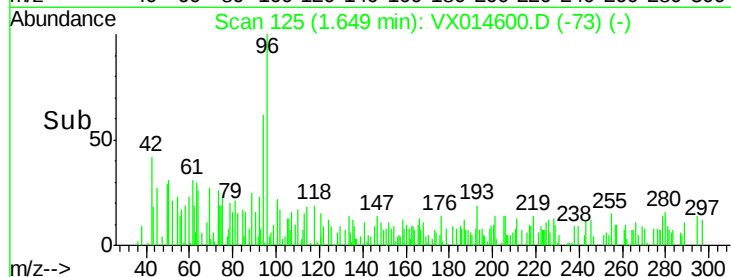
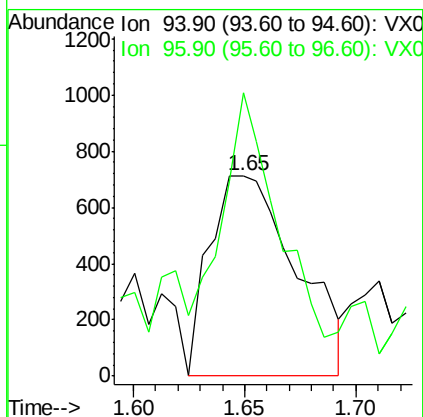
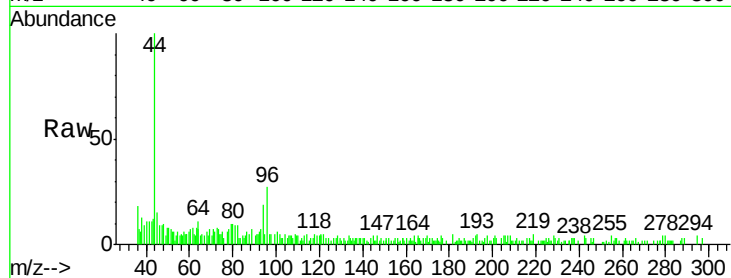
TB-01-200113

Tgt Ion: 94 Resp: 1935

Ion Ratio Lower Upper

94 100

96 119.0 74.2 111.2#



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.00 min

Lab File: VX014600.D

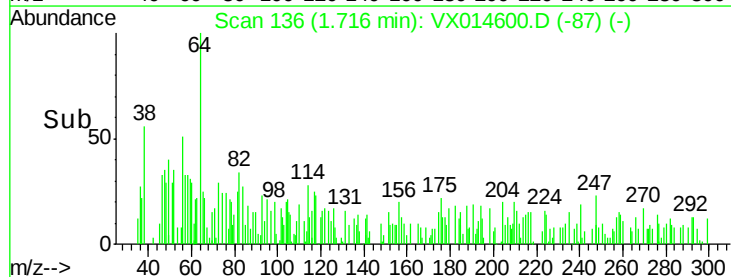
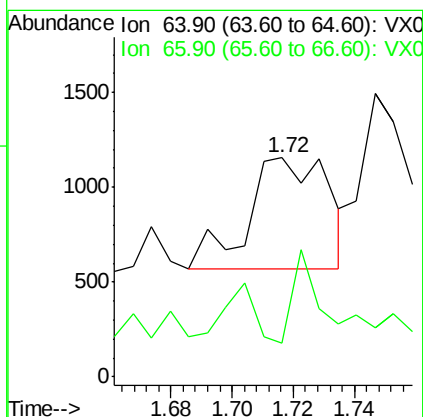
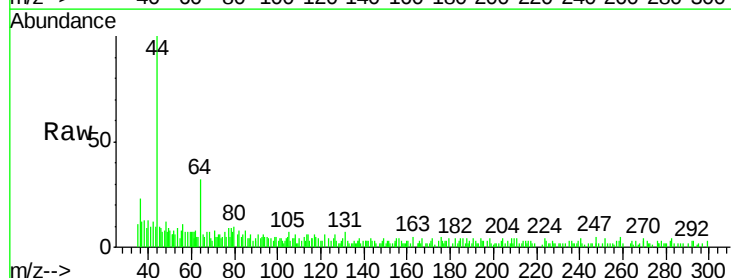
Acq: 14 Jan 2020 12:09

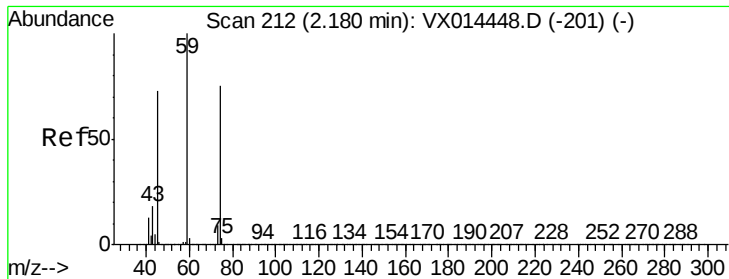
Tgt Ion: 64 Resp: 1062

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#





#8

Diethyl Ether

Concen: 0.208 ug/l

RT: 2.09 min Scan# 198

Delta R.T. -0.09 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

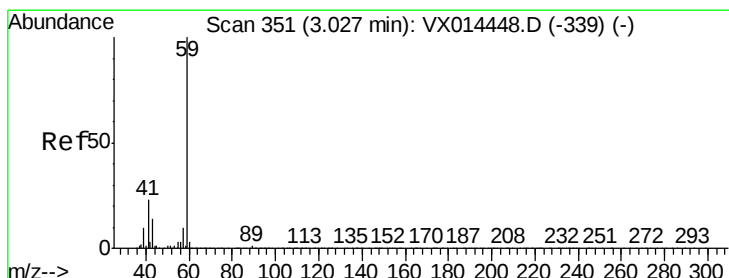
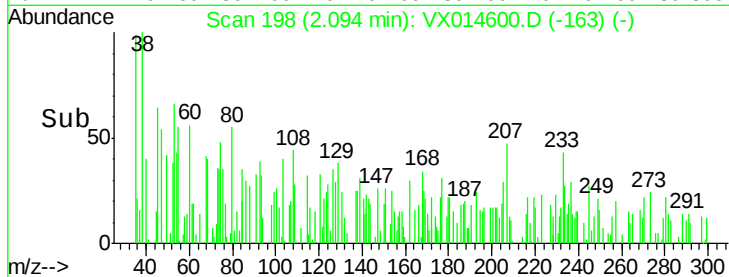
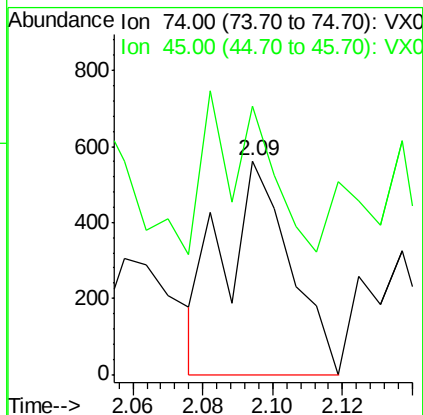
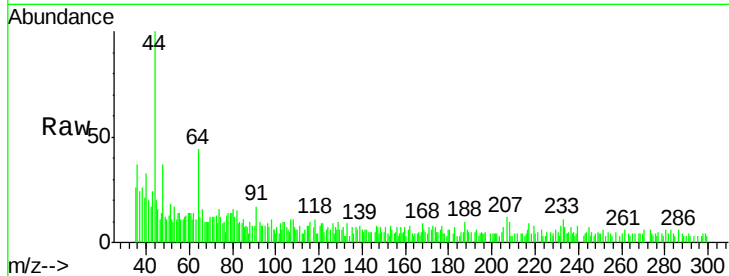
TB-01-200113

Tgt Ion: 74 Resp: 740

Ion Ratio Lower Upper

74 100

45 61.4 48.7 146.1



#11

Tert butyl alcohol

Concen: 1.114 ug/l

RT: 3.03 min Scan# 352

Delta R.T. 0.01 min

Lab File: VX014600.D

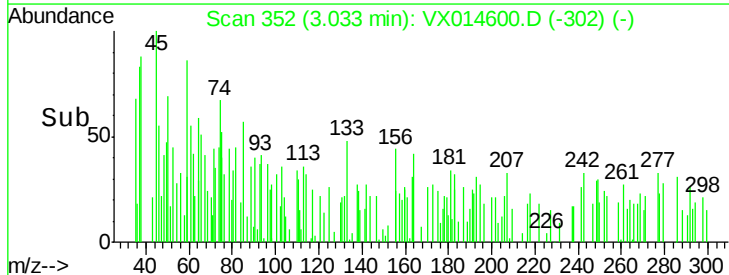
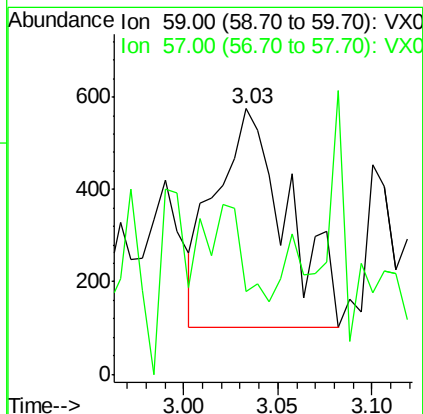
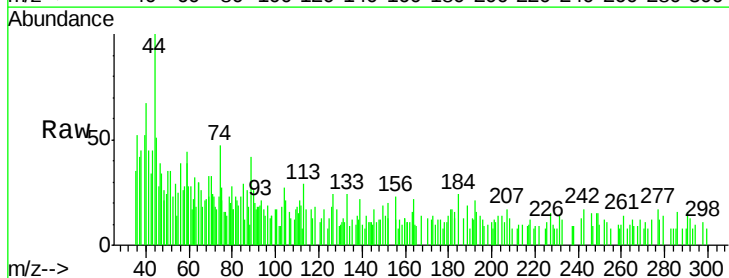
Acq: 14 Jan 2020 12:09

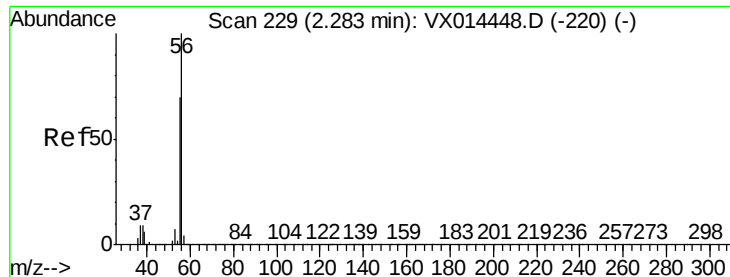
Tgt Ion: 59 Resp: 1258

Ion Ratio Lower Upper

59 100

57 36.6 8.5 12.7#

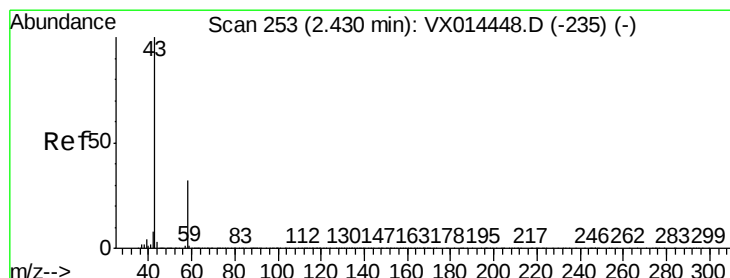
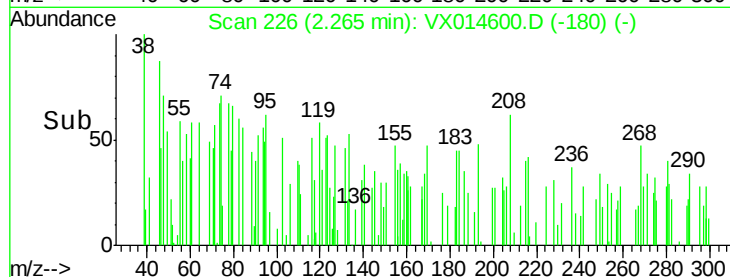
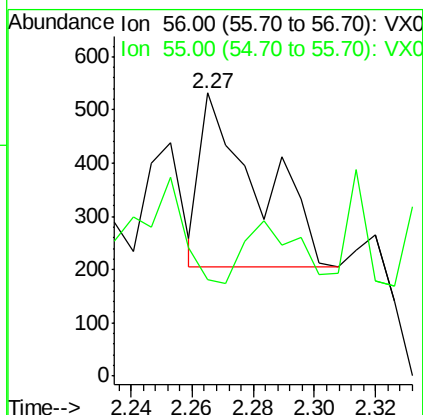
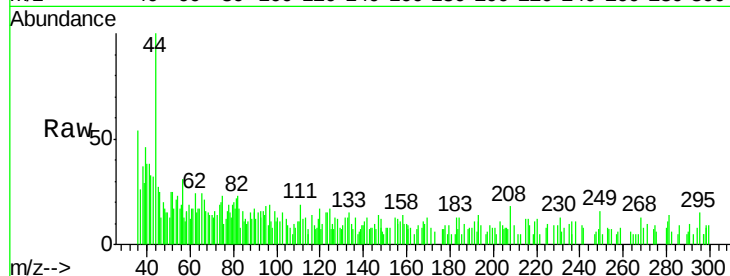




#13
Acrolein
Concen: 0.473 ug/l
RT: 2.27 min Scan# 226
Delta R.T. -0.02 min
Lab File: VX014600.D
Acq: 14 Jan 2020 12:09

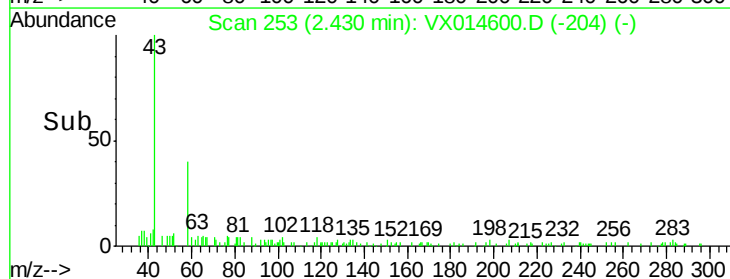
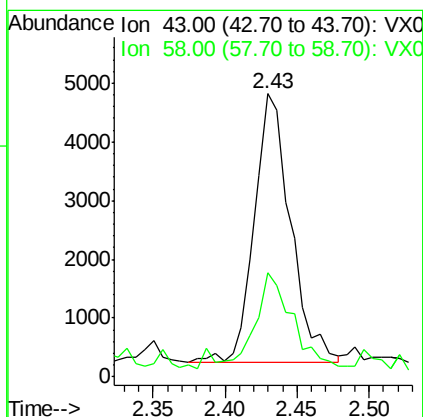
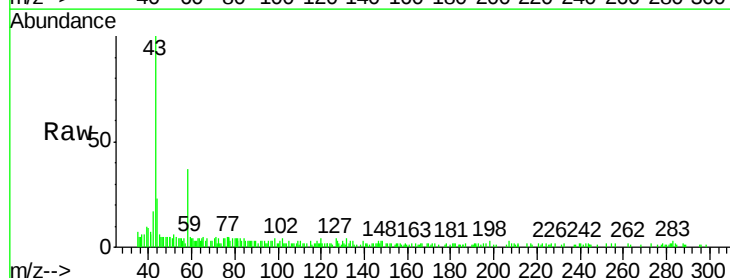
Instrument :
MSVOA_X
ClientSampled :
TB-01-200113

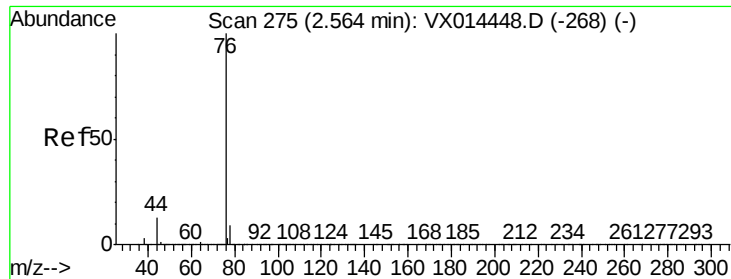
Tgt Ion: 56 Resp: 428
Ion Ratio Lower Upper
56 100
55 31.5 55.0 82.6#



#16
Acetone
Concen: Below Cal
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014600.D
Acq: 14 Jan 2020 12:09

Tgt Ion: 43 Resp: 7958
Ion Ratio Lower Upper
43 100
58 34.1 25.4 38.0





#17

Carbon Disulfide

Concen: 0.212 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

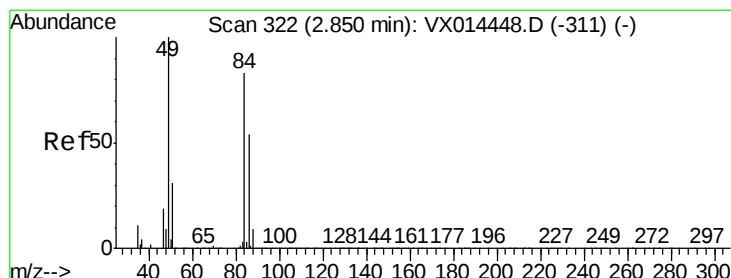
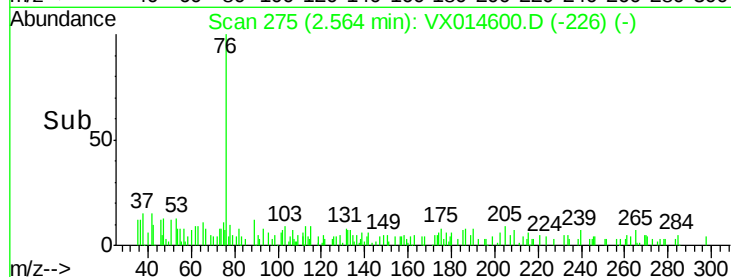
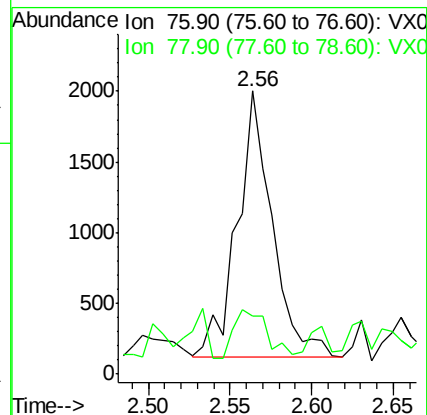
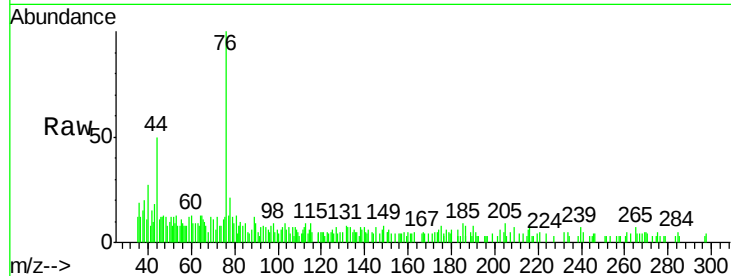
TB-01-200113

Tgt Ion: 76 Resp: 2829

Ion Ratio Lower Upper

76 100

78 13.2 7.4 11.2#



#20

Methylene Chloride

Concen: 0.518 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Tgt Ion: 84 Resp: 2817

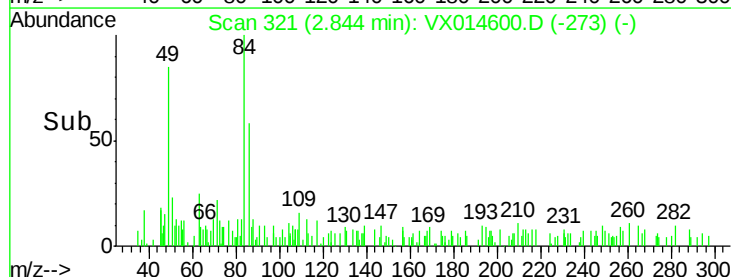
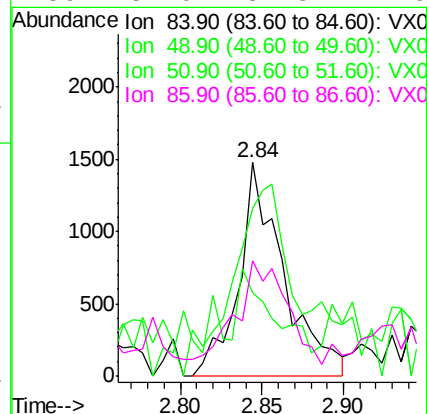
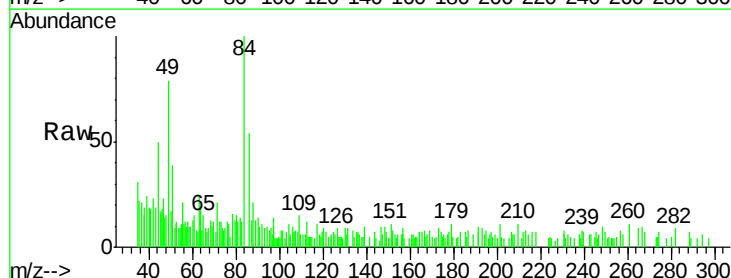
Ion Ratio Lower Upper

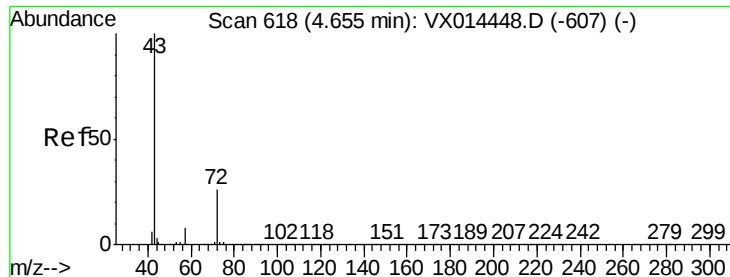
84 100

49 63.2 95.8 143.8#

51 24.1 30.2 45.4#

86 51.0 51.8 77.6#





#25

2-Butanone

Concen: 0.382 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

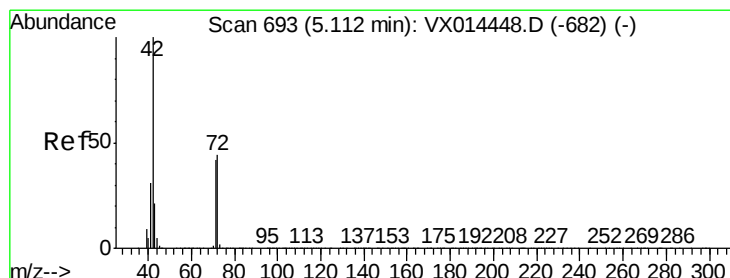
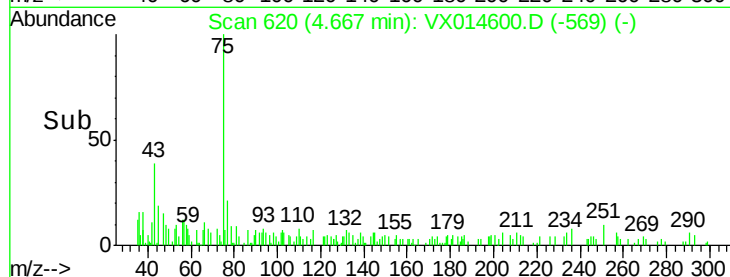
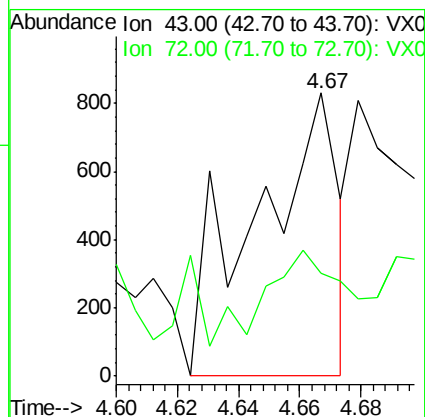
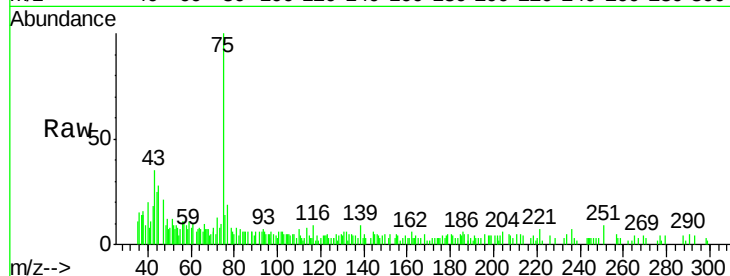
TB-01-200113

Tgt Ion: 43 Resp: 1545

Ion Ratio Lower Upper

43 100

72 2.9 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.524 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

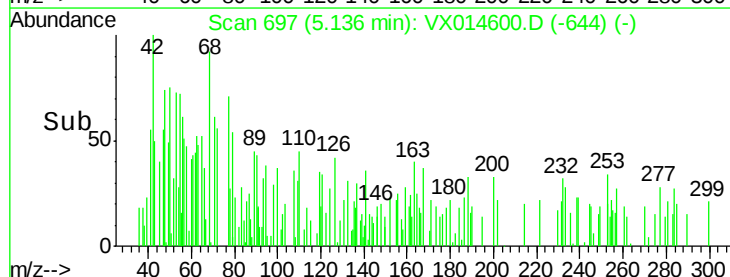
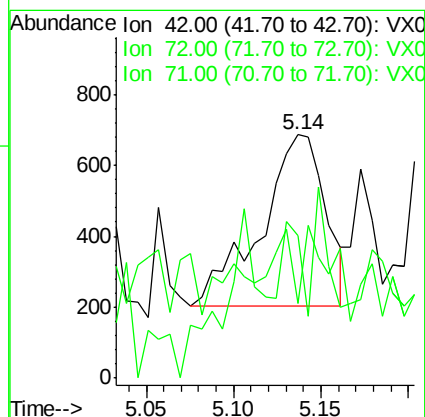
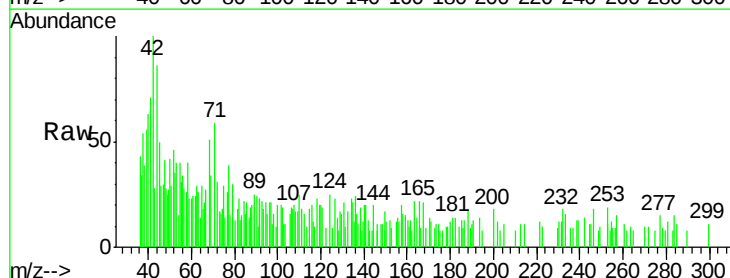
Tgt Ion: 42 Resp: 1252

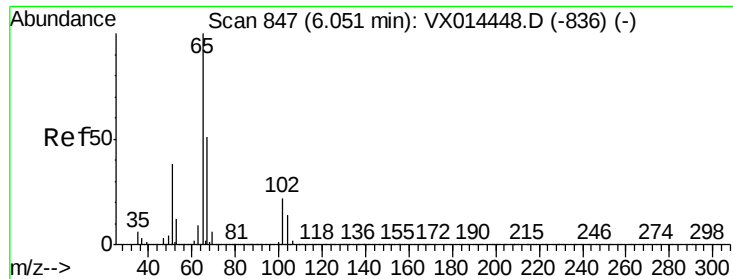
Ion Ratio Lower Upper

42 100

72 13.4 36.2 54.4#

71 17.1 34.1 51.1#

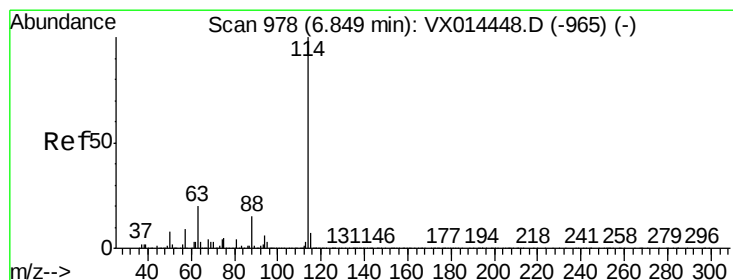
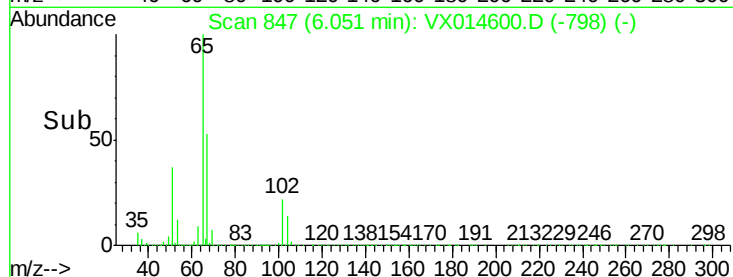
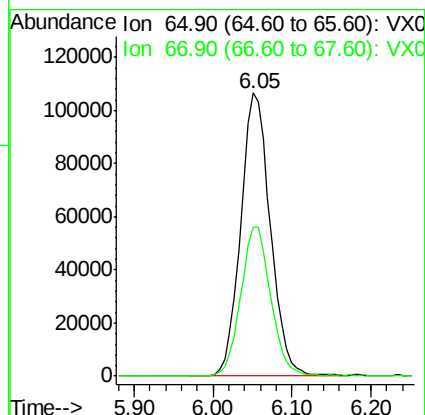
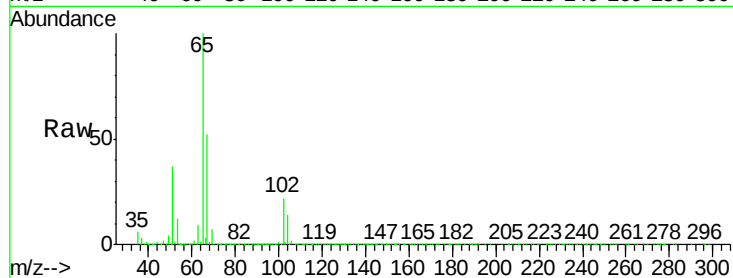




#33
 1,2-Dichloroethane-d4
 Concen: 51.374 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014600.D
 Acq: 14 Jan 2020 12:09

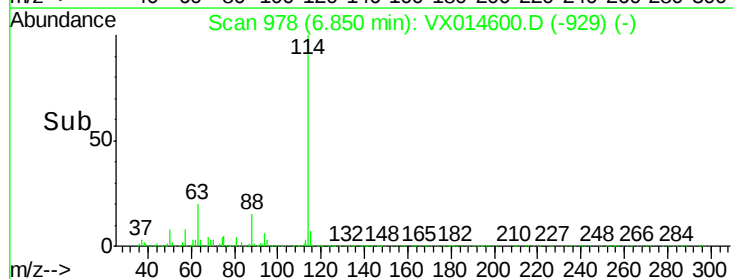
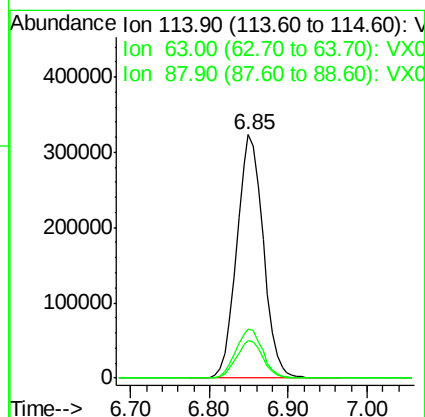
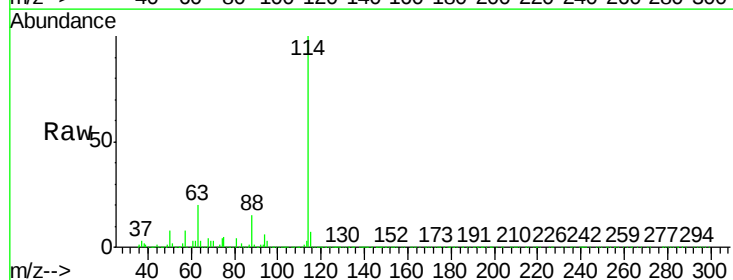
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-200113

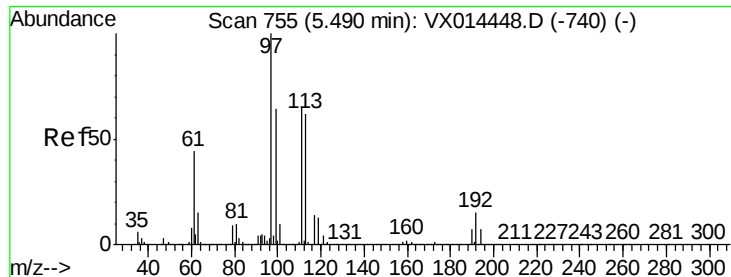
Tgt Ion: 65 Resp: 277915
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014600.D
 Acq: 14 Jan 2020 12:09

Tgt Ion: 114 Resp: 753462
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.6
 88 15.2 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.829 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampled :

TB-01-200113

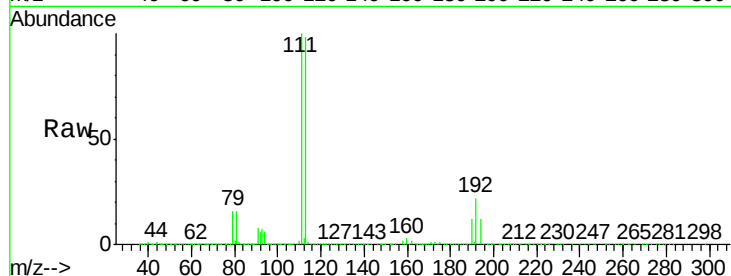
Tgt Ion:113 Resp: 227271

Ion Ratio Lower Upper

113 100

111 103.0 81.5 122.3

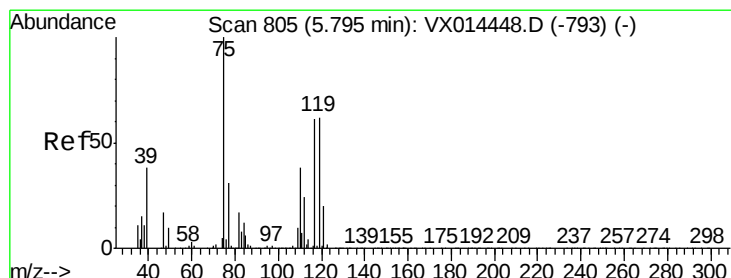
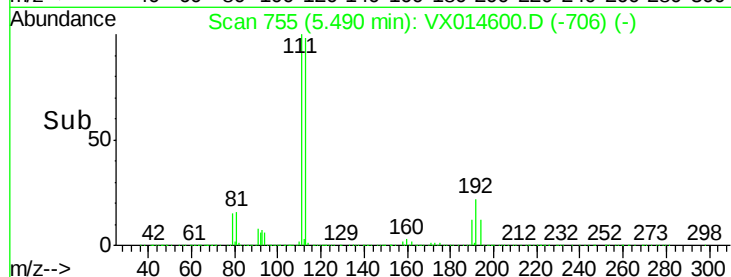
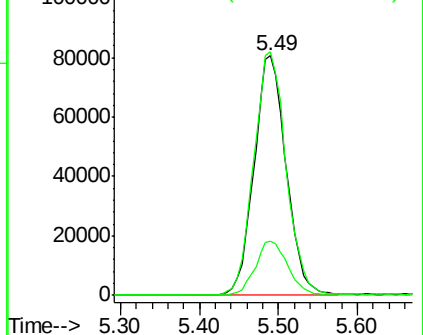
192 23.2 19.2 28.8



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: 4.787 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

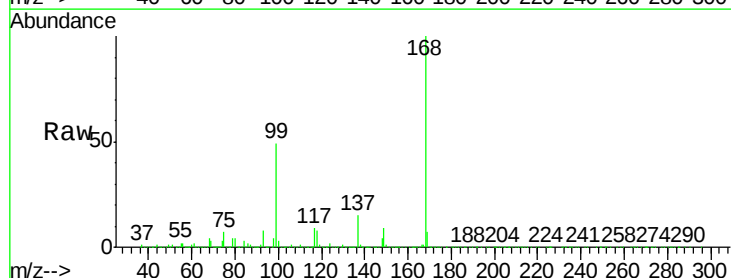
Tgt Ion: 75 Resp: 33918

Ion Ratio Lower Upper

75 100

110 10.1 18.6 55.8#

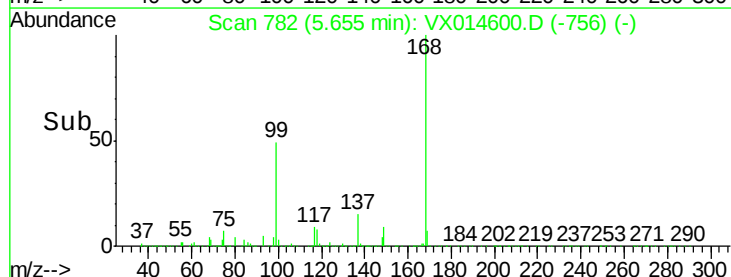
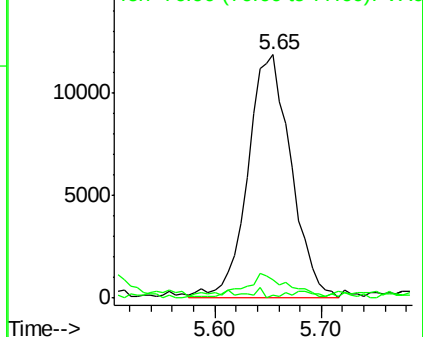
77 0.9 24.5 36.7#

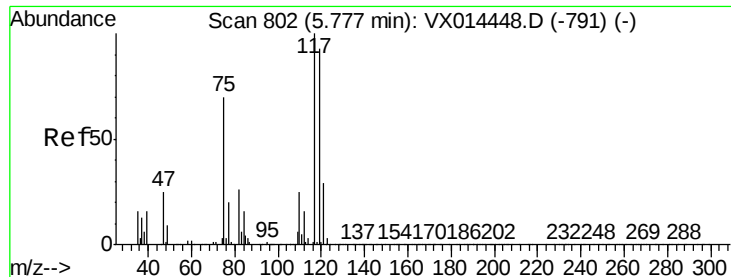


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.452 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

TB-01-200113

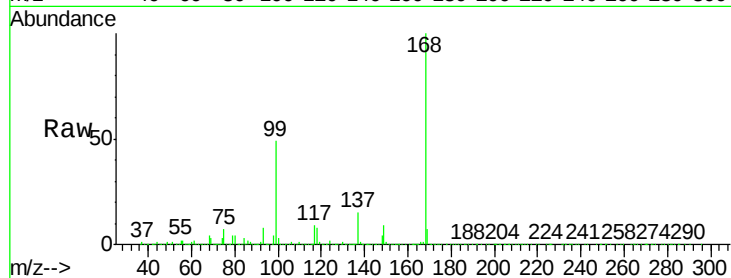
Tgt Ion:117 Resp: 42071

Ion Ratio Lower Upper

117 100

119 5.9 73.8 110.8#

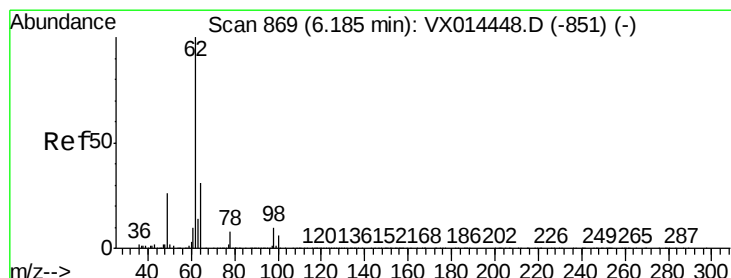
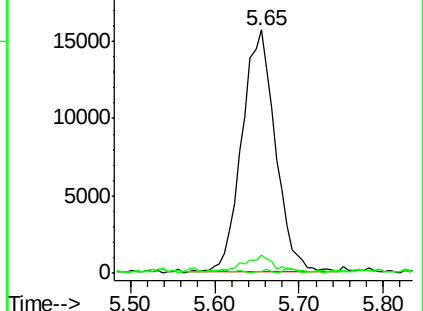
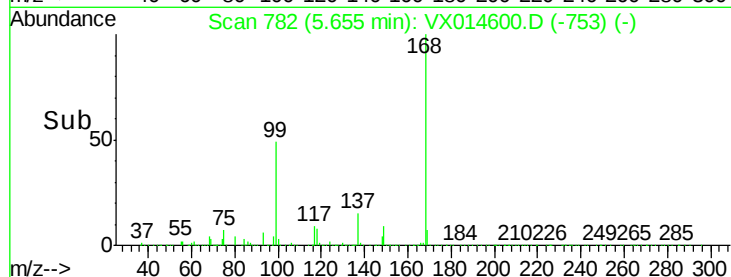
121 0.0 23.4 35.0#



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: 0.201 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX014600.D

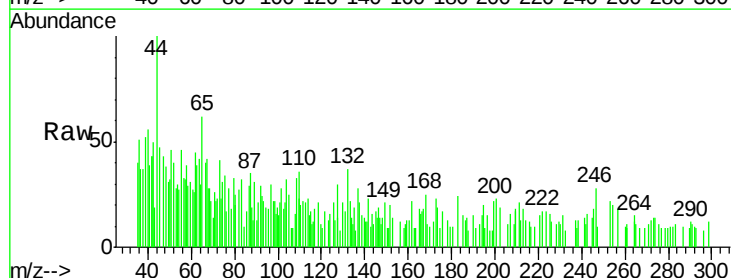
Acq: 14 Jan 2020 12:09

Tgt Ion: 62 Resp: 1475

Ion Ratio Lower Upper

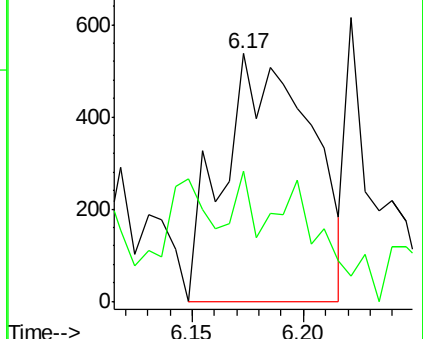
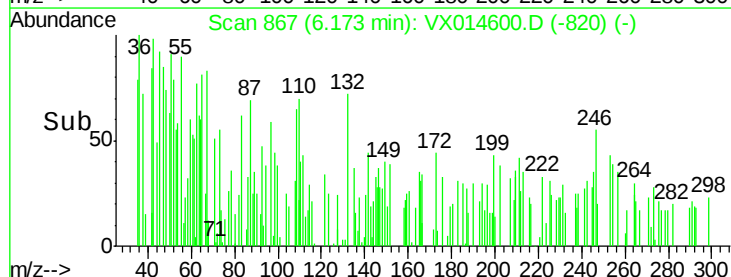
62 100

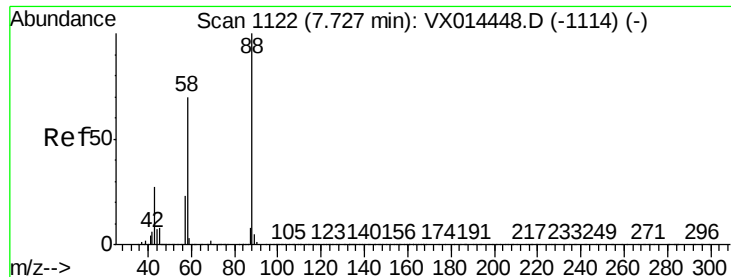
98 0.0 0.0 20.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

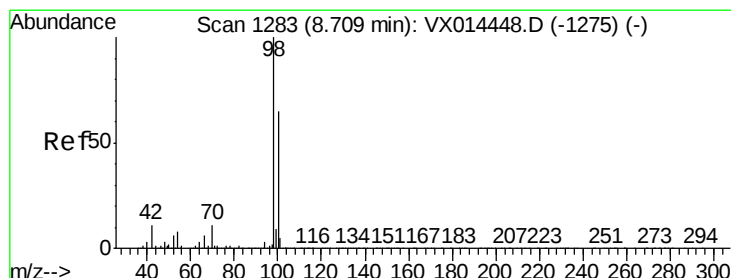
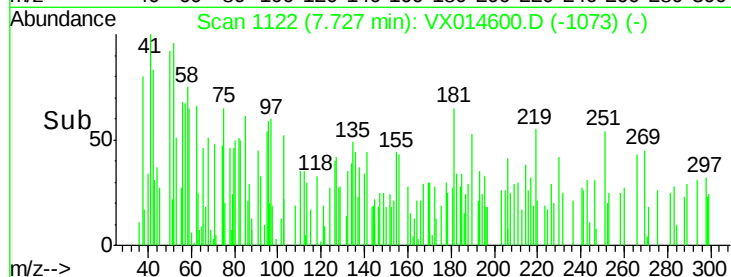
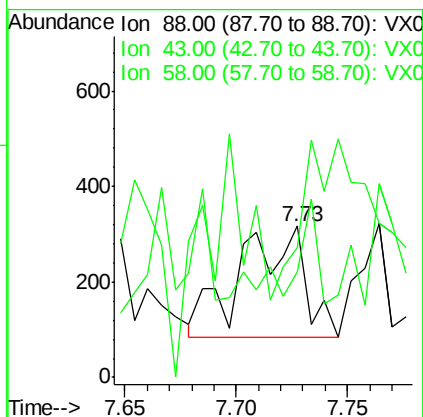
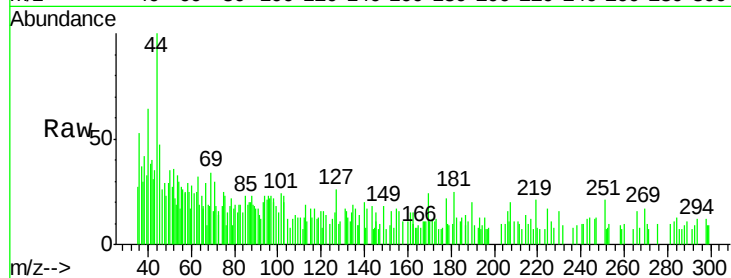




#49
1,4-Dioxane
Concen: 3.701 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. 0.00 min
Lab File: VX014600.D
Acq: 14 Jan 2020 12:09

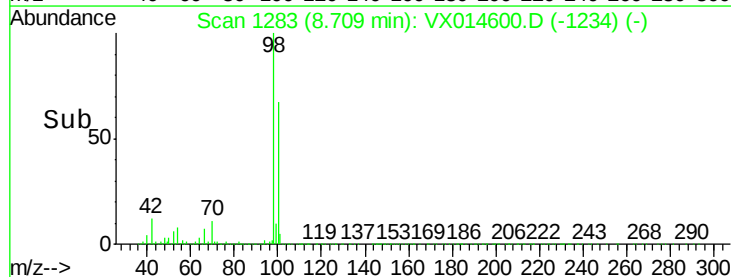
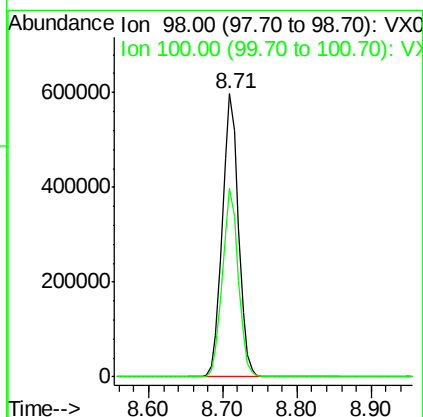
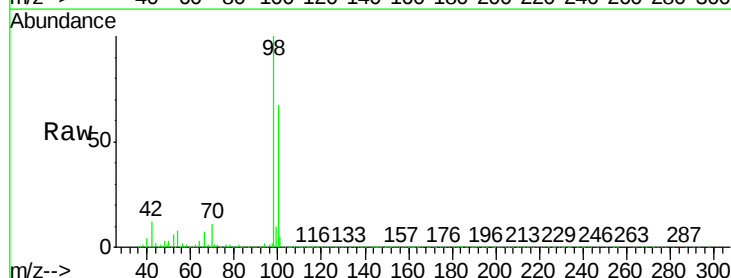
Instrument :
MSVOA_X
ClientSampled :
TB-01-200113

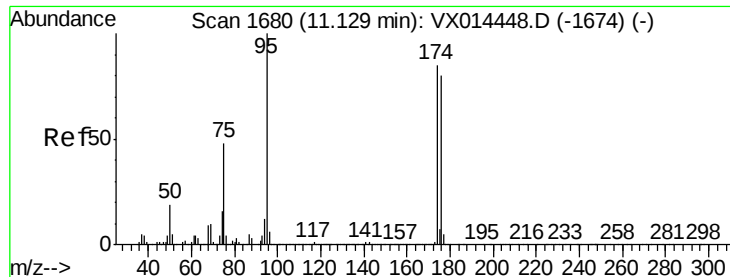
Tgt Ion: 88 Resp: 467
Ion Ratio Lower Upper
88 100
43 282.7 27.4 41.0#
58 19.3 57.1 85.7#



#50
Toluene-d8
Concen: 50.926 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014600.D
Acq: 14 Jan 2020 12:09

Tgt Ion: 98 Resp: 901381
Ion Ratio Lower Upper
98 100
100 65.7 53.2 79.8





#62

4-Bromofluorobenzene

Concen: 47.210 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

TB-01-200113

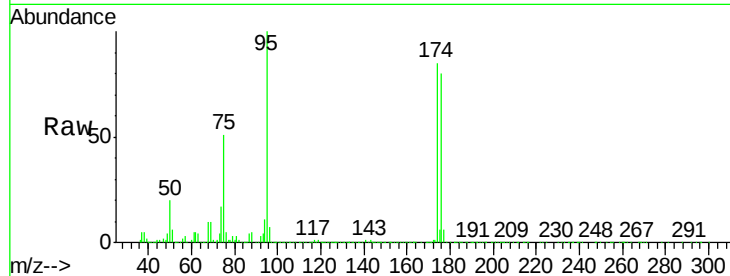
Tgt Ion: 95 Resp: 306761

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.8

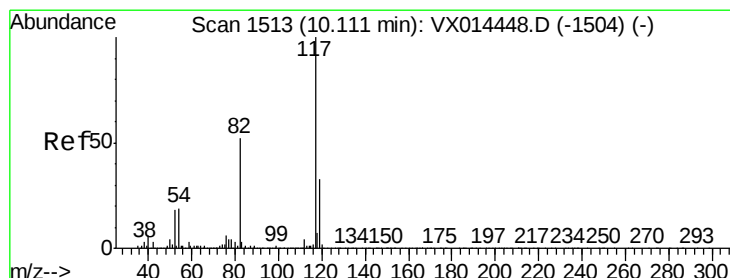
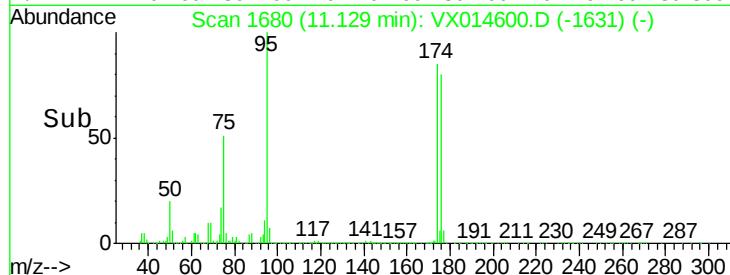
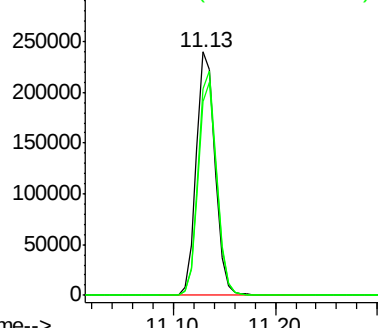
176 85.9 0.0 172.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

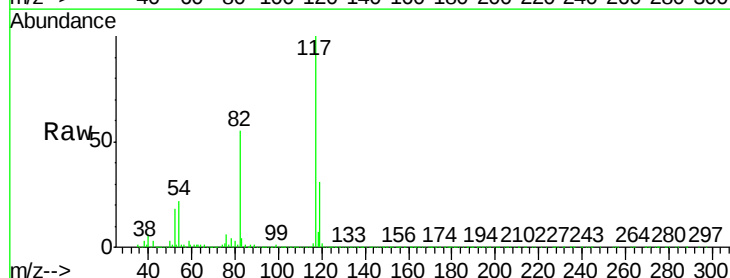
Tgt Ion: 117 Resp: 692625

Ion Ratio Lower Upper

117 100

82 54.9 41.8 62.6

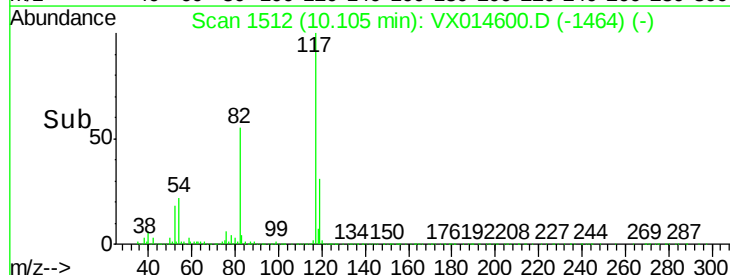
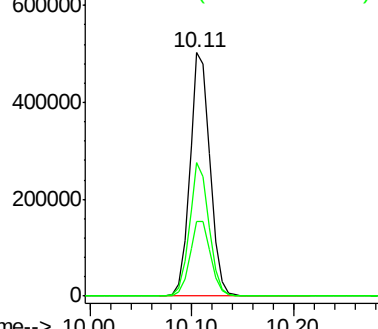
119 30.9 26.2 39.4

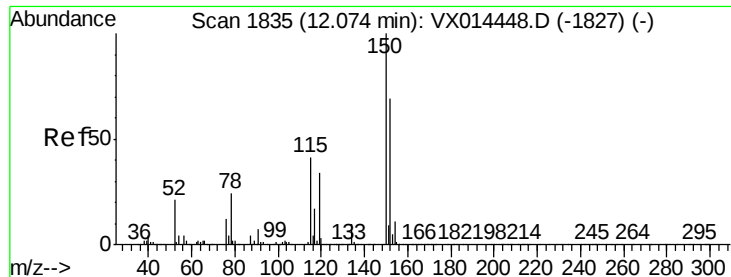


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

TB-01-200113

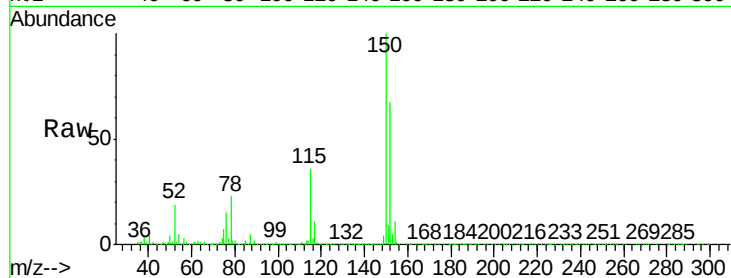
Tgt Ion: 152 Resp: 316768

Ion Ratio Lower Upper

152 100

115 54.7 39.5 118.3

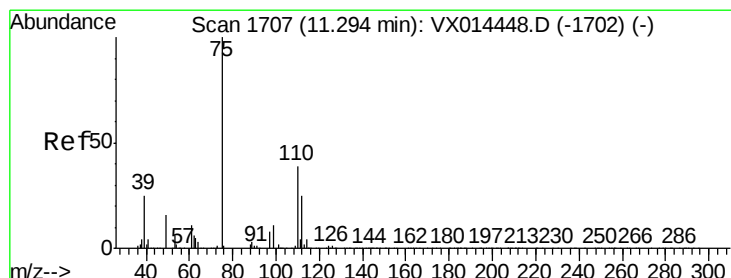
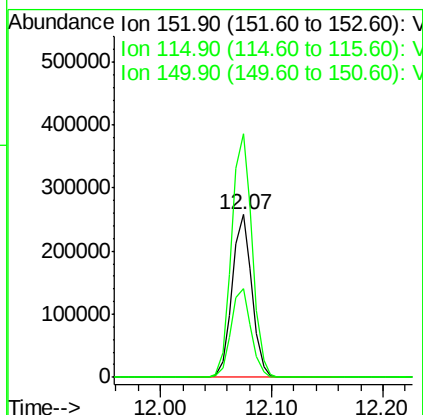
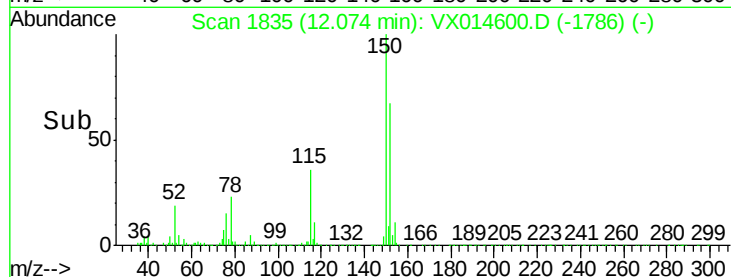
150 155.6 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.047 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014600.D

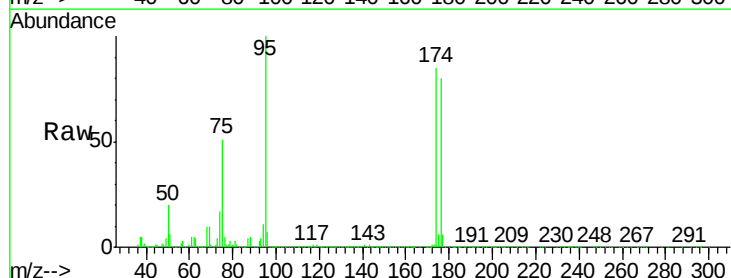
Acq: 14 Jan 2020 12:09

Tgt Ion: 75 Resp: 151050

Ion Ratio Lower Upper

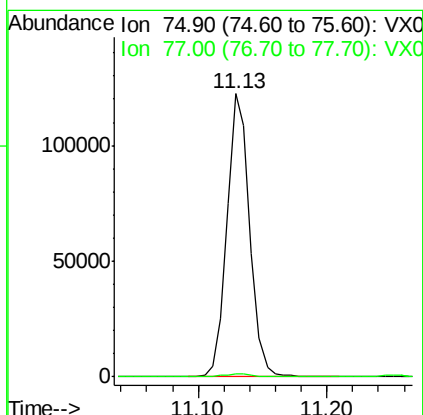
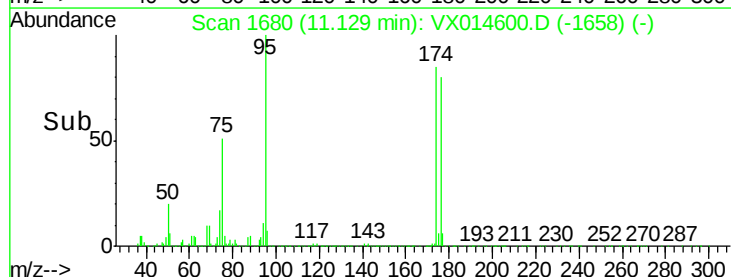
75 100

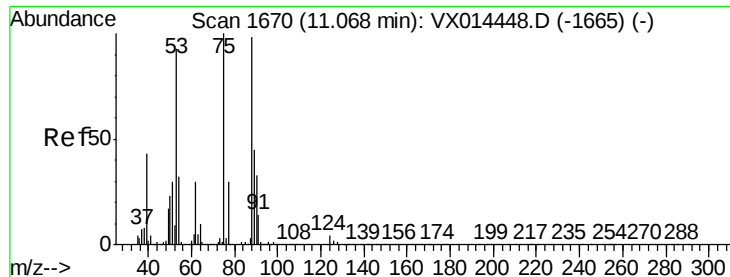
77 1.2 21.9 65.7#



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: 60.932 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

TB-01-200113

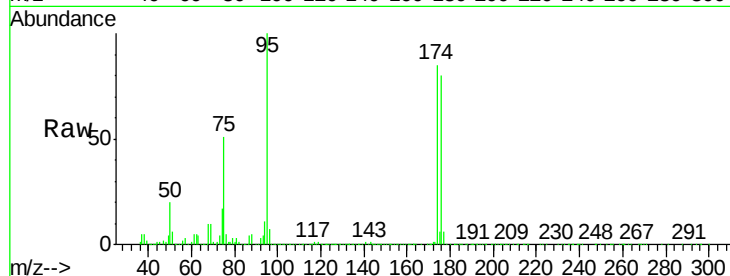
Tgt Ion: 75 Resp: 151050

Ion Ratio Lower Upper

75 100

53 0.6 74.8 112.2#

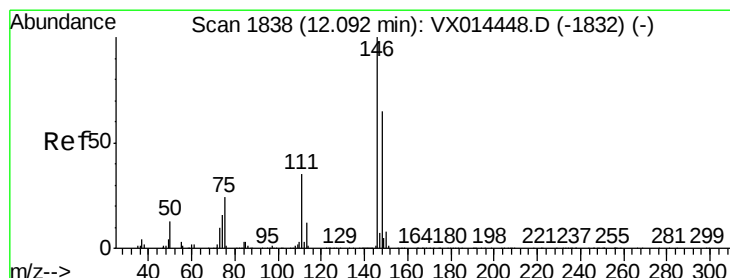
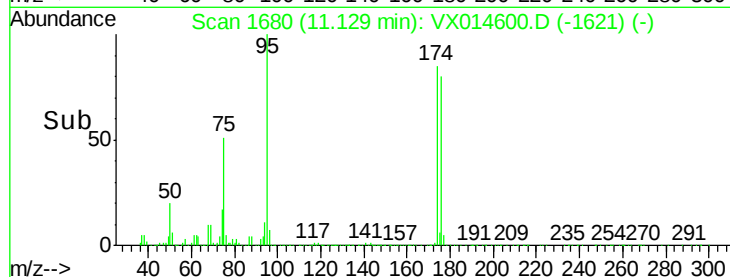
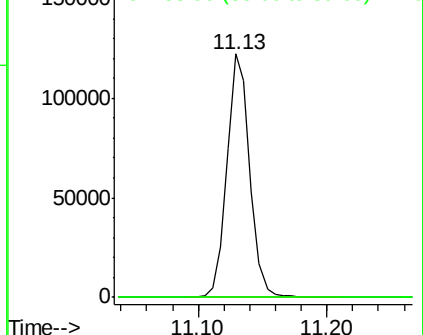
89 0.0 36.3 54.5#



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



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.02 min Scan# 1826

Delta R.T. -0.07 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

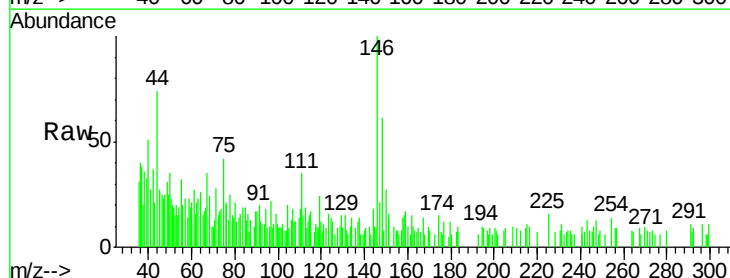
Tgt Ion: 146 Resp: 1348

Ion Ratio Lower Upper

146 100

111 44.6 18.1 54.1

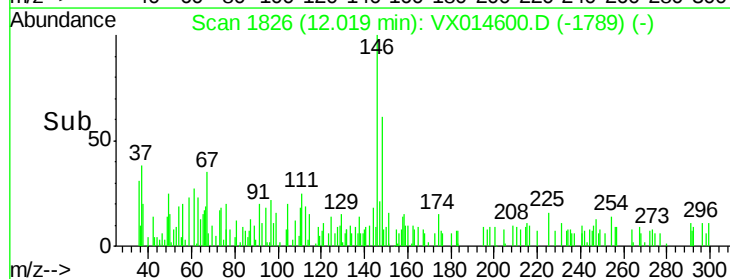
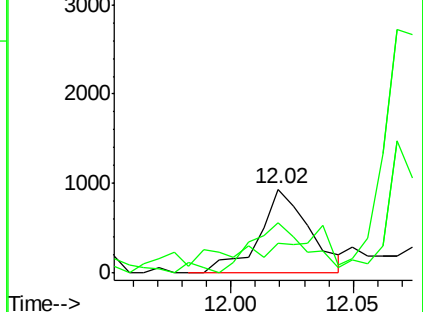
148 64.8 32.1 96.3

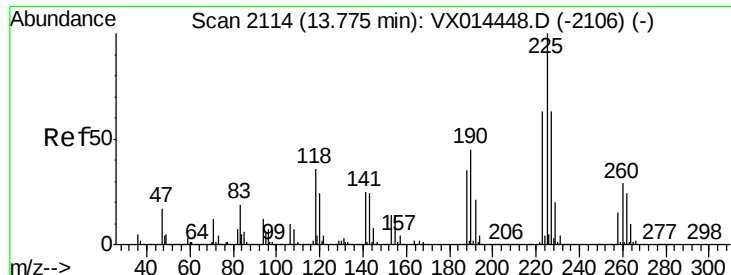


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#94

Hexachlorobutadiene

Concen: 0.296 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VX014600.D

Acq: 14 Jan 2020 12:09

Instrument :

MSVOA_X

ClientSampleId :

TB-01-200113

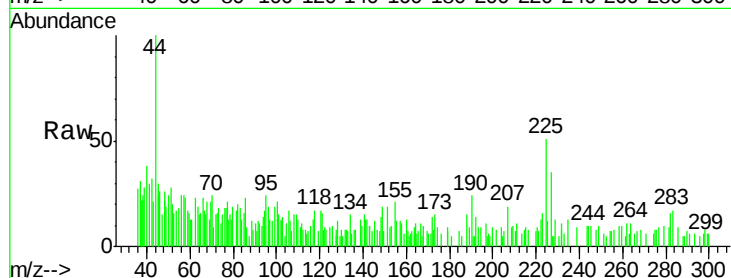
Tgt Ion:225 Resp: 837

Ion Ratio Lower Upper

225 100

223 52.8 31.1 93.2

227 57.1 31.4 94.2



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

