

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010920\
 Data File : VX014509.D
 Acq On : 09 Jan 2020 20:06
 Operator : JC/SP
 Sample : K6456-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-04

Quant Time: Jan 10 06:51:23 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	508657	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	782504	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	722026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	328399	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	278267	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	5.49	113	234878	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
50) Toluene-d8	8.71	98	942124	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.13	95	323071	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	

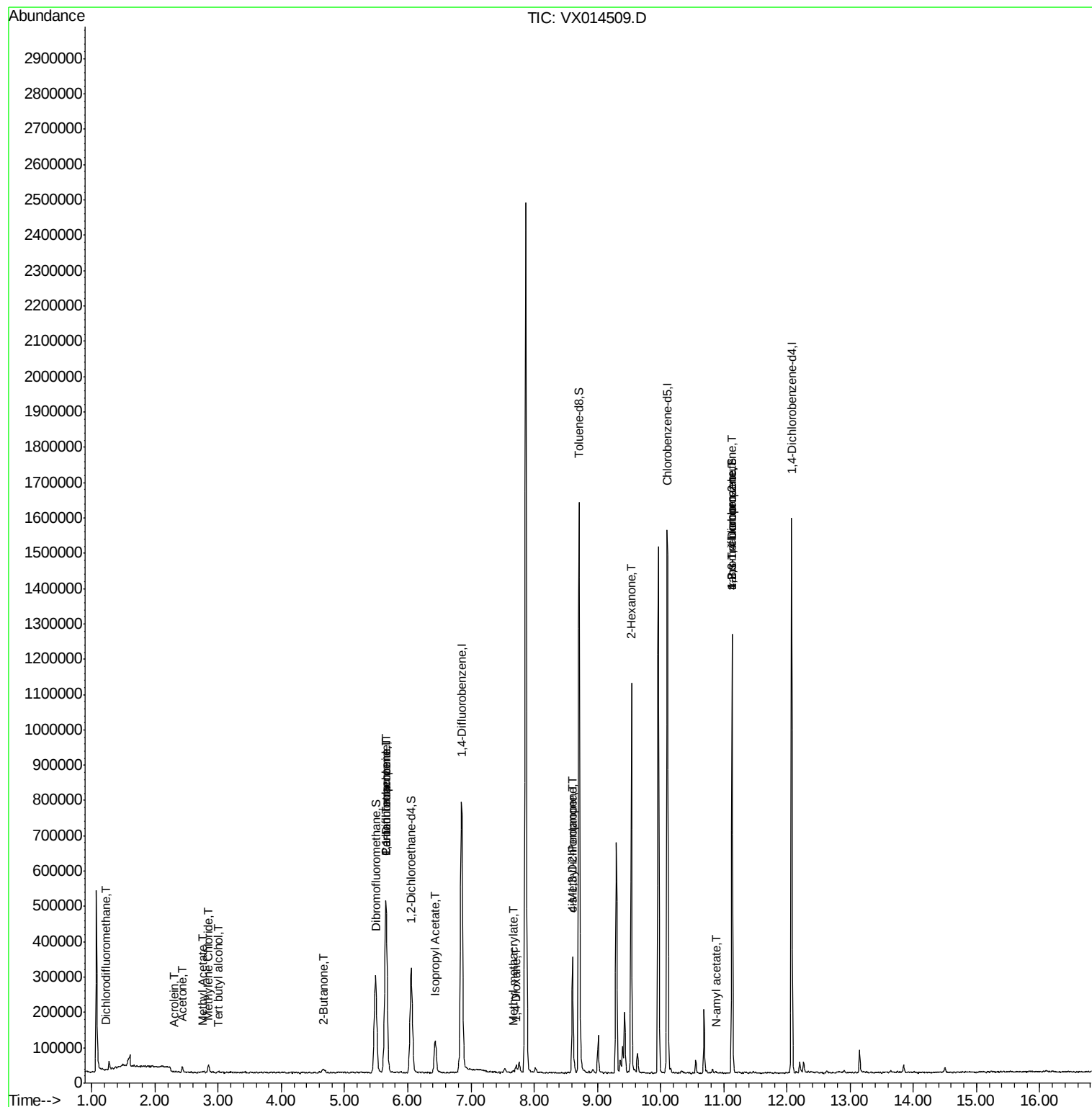
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	475	0.327	ug/l	92
6) Chloroethane	1.71	64	879	Below Cal	#	43
11) Tert butyl alcohol	3.01	59	2564	2.163	ug/l #	72
13) Acrolein	2.29	56	585	0.616	ug/l	93
16) Acetone	2.43	43	18692	2.427	ug/l	98
18) Methyl Acetate	2.77	43	7602	0.931	ug/l #	89
20) Methylene Chloride	2.85	84	11698	2.048	ug/l	97
25) 2-Butanone	4.67	43	6139	1.447	ug/l	91
36) 1,1-Dichloropropene	5.65	75	33547	4.559	ug/l #	51
38) Carbon Tetrachloride	5.65	117	45667	6.744	ug/l #	18
43) Isopropyl Acetate	6.44	43	124778	9.664	ug/l	99
48) Methyl methacrylate	7.67	41	6808	1.101	ug/l #	16
49) 1,4-Dioxane	7.73	88	266	2.030	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	118702	15.086	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	55748	6.268	ug/l #	58
59) 2-Hexanone	9.54	43	129009	20.722	ug/l #	50
74) N-amyl acetate	10.87	43	2673	0.263	ug/l #	46
76) 1,2,3-Trichloropropane	11.13	75	158935	23.391	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	158935	61.842	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	945	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.64	180	338	Below Cal	#	89
96) 1,2,3-Trichlorobenzene	14.02	180	509	Below Cal	#	45

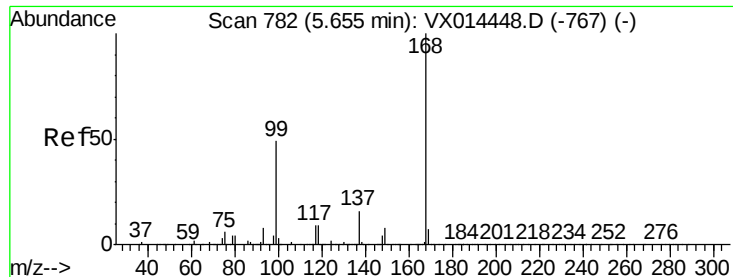
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010920\
Data File : VX014509.D
Acq On : 09 Jan 2020 20:06
Operator : JC/SP
Sample : K6456-04
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SB-04

Quant Time: Jan 10 06:51:23 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

Instrument :

MSVOA_X

ClientSampled :

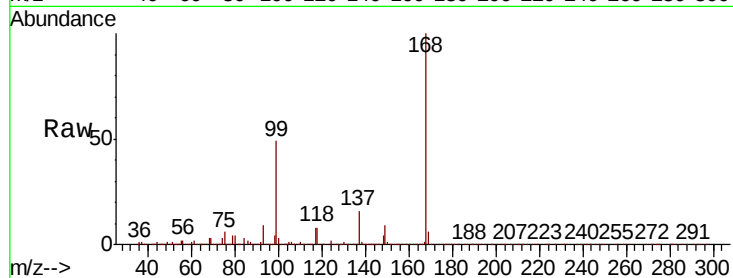
SB-04

Tot Ion:168 Resp: 508657

Ion Ratio Lower Upper

168 100

99 48.8 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

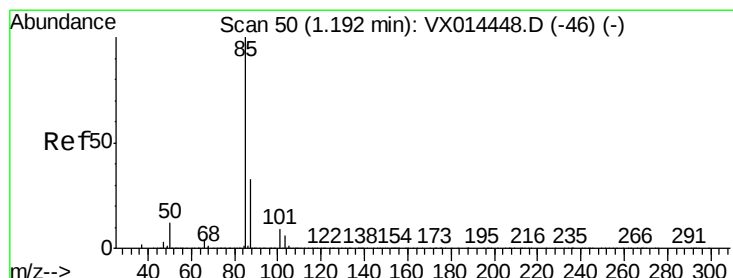
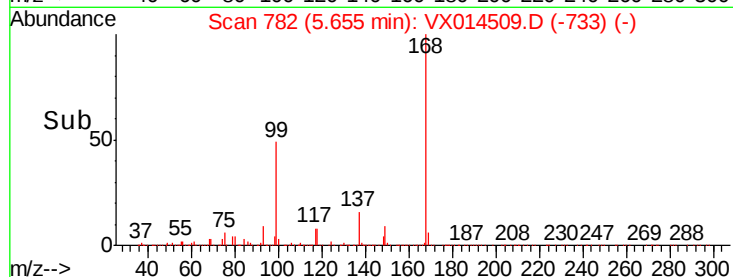
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.327 ug/l

RT: 1.21 min Scan# 53

Delta R.T. 0.02 min

Lab File: VX014509.D

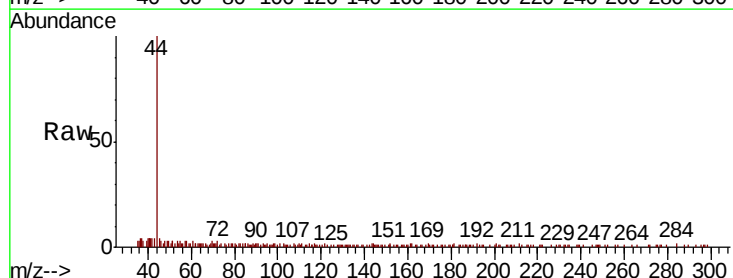
Acq: 09 Jan 2020 20:06

Tgt Ion: 85 Resp: 475

Ion Ratio Lower Upper

85 100

87 28.6 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

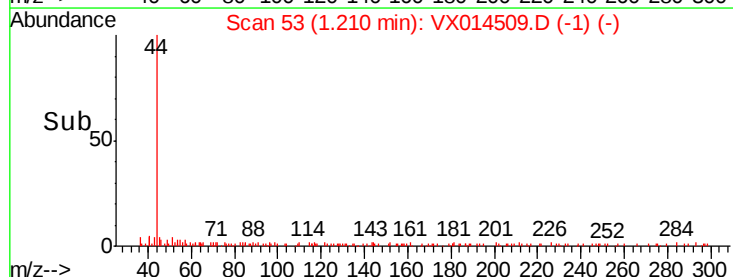
200

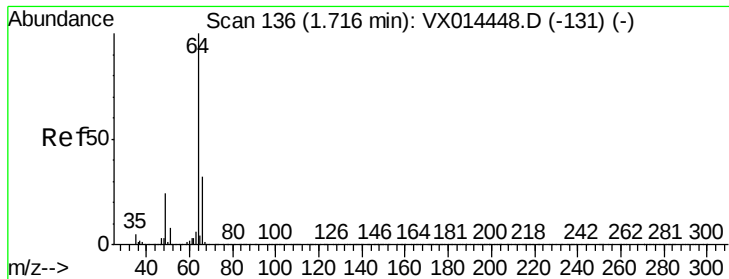
100

0

Time-->

1.16 1.18 1.20 1.22 1.24





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 135

Delta R.T. -0.01 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

Instrument :

MSVOA_X

ClientSampleId :

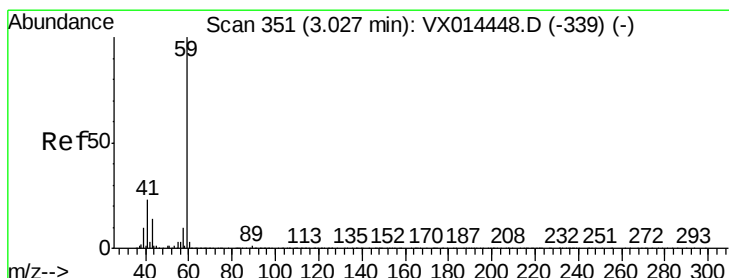
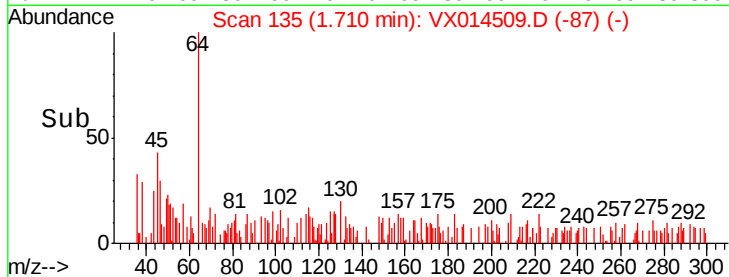
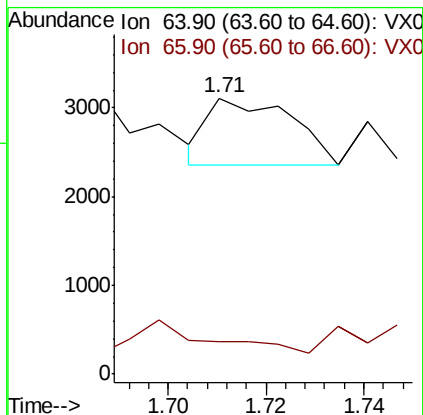
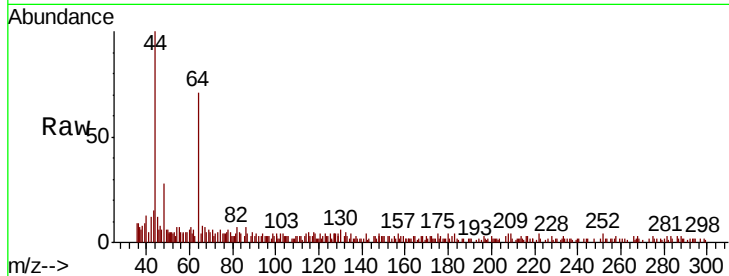
SB-04

Tot Ion: 64 Resp: 879

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#11

Tert butyl alcohol

Concen: 2.163 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX014509.D

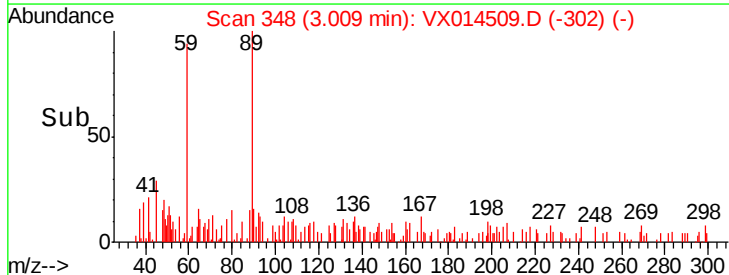
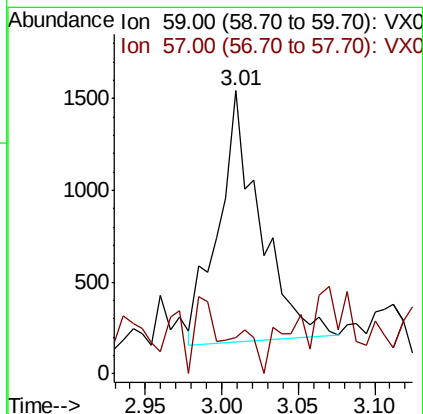
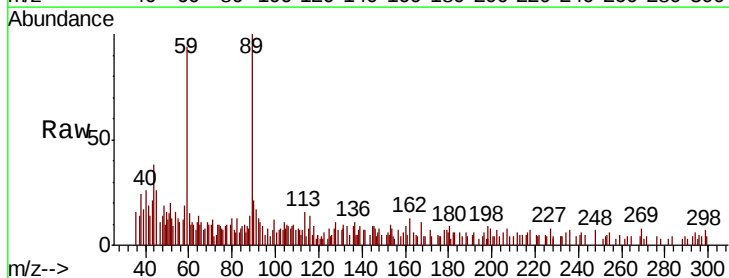
Acq: 09 Jan 2020 20:06

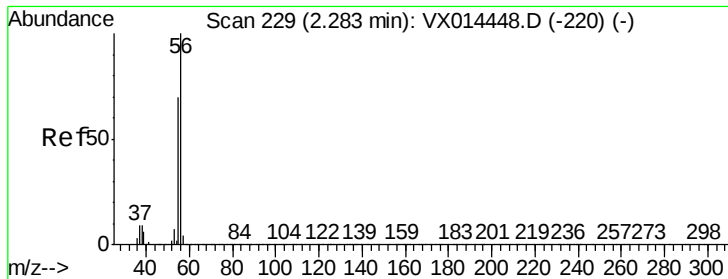
Tgt Ion: 59 Resp: 2564

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

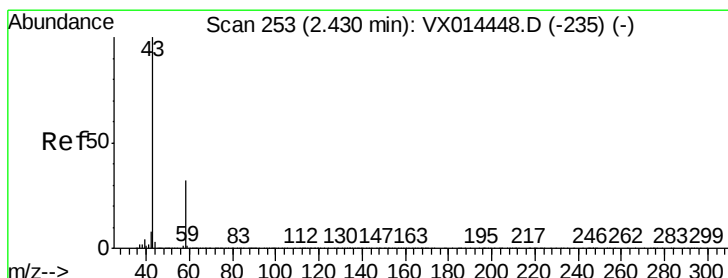
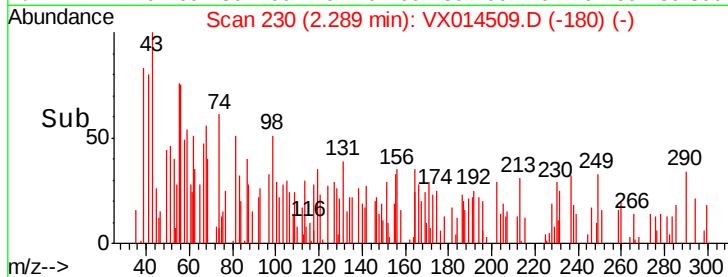
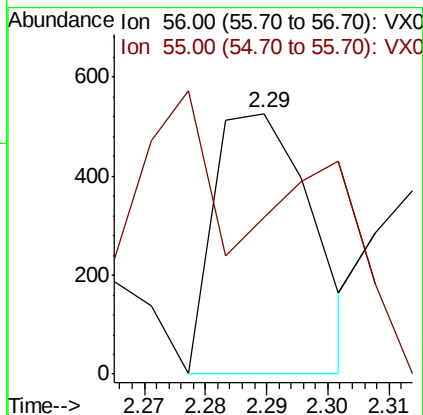
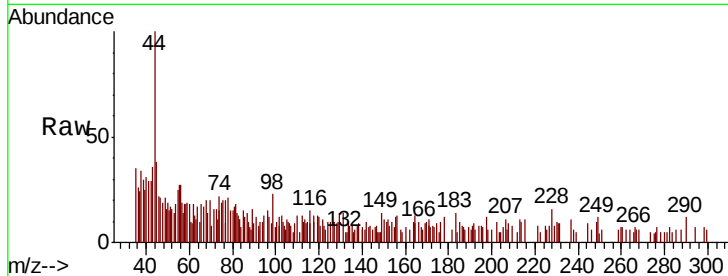




#13
Acrolein
Concen: 0.616 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

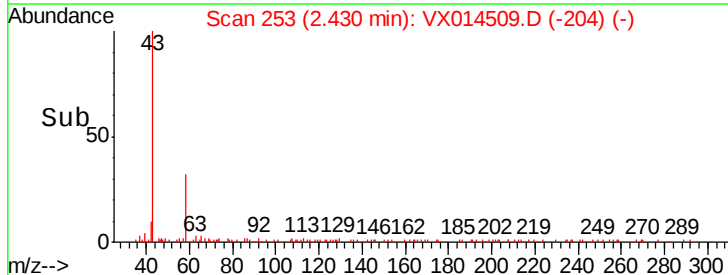
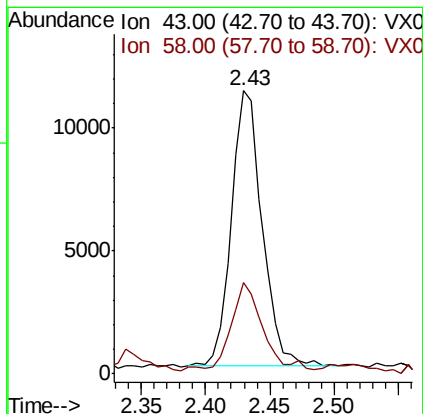
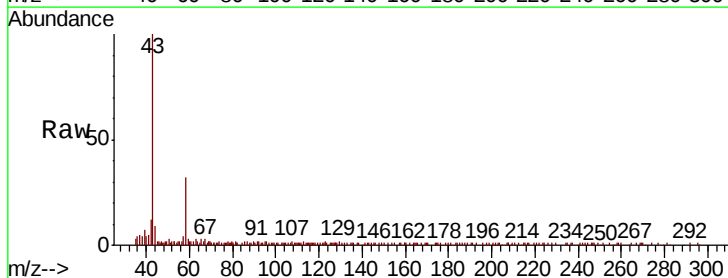
Instrument :
MSVOA_X
ClientSampled :
SB-04

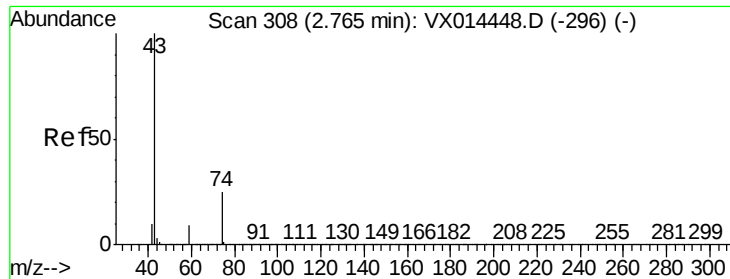
Tot Ion: 56 Resp: 585
Ion Ratio Lower Upper
56 100
55 62.7 55.0 82.6



#16
Acetone
Concen: 2.427 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

Tgt Ion: 43 Resp: 18692
Ion Ratio Lower Upper
43 100
58 30.5 25.4 38.0

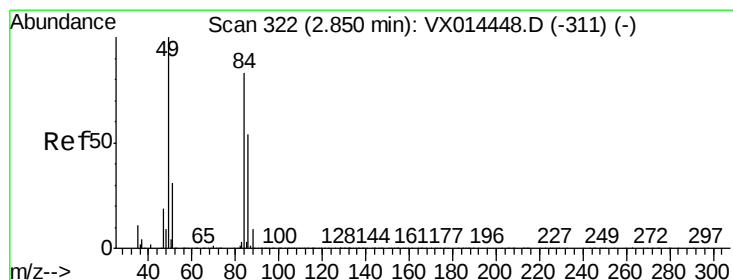
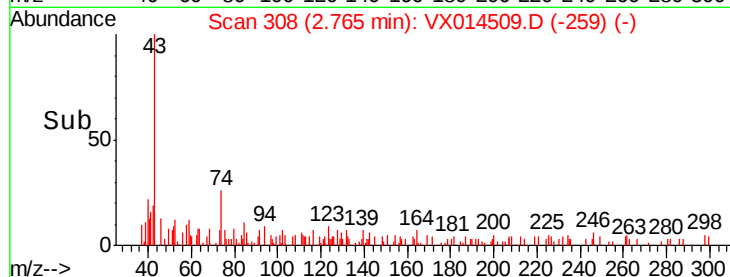
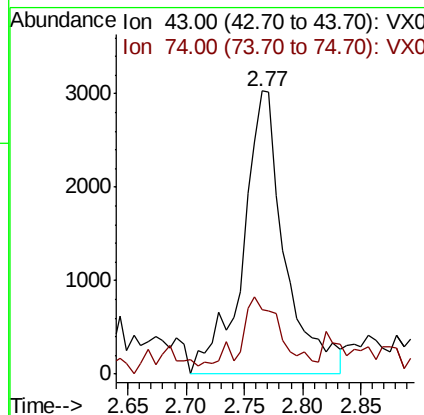
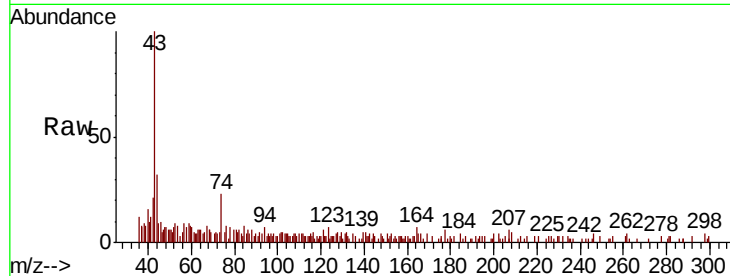




#18
Methyl Acetate
Concen: 0.931 ug/l
RT: 2.77 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

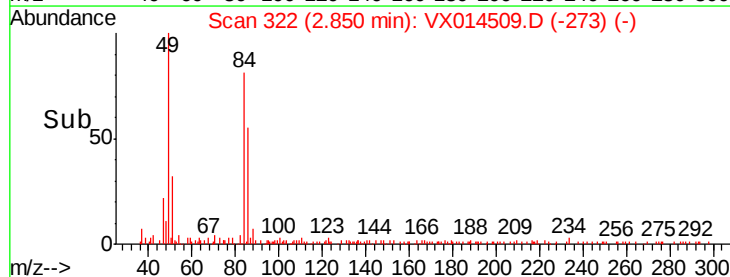
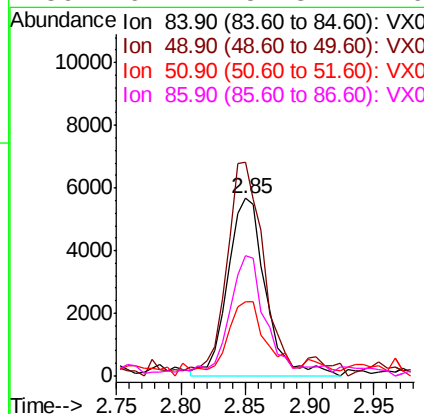
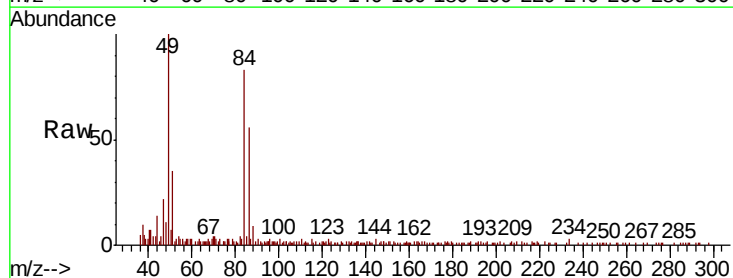
Instrument :
MSVOA_X
ClientSampleId :
SB-04

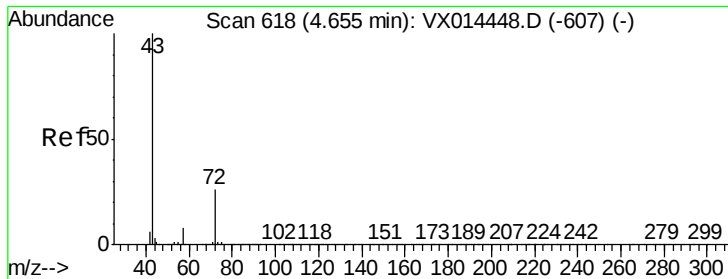
Tot Ion: 43 Resp: 7602
Ion Ratio Lower Upper
43 100
74 18.9 19.4 29.2#



#20
Methylene Chloride
Concen: 2.048 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

Tgt Ion: 84 Resp: 11698
Ion Ratio Lower Upper
84 100
49 113.0 95.8 143.8
51 37.9 30.2 45.4
86 64.7 51.8 77.6

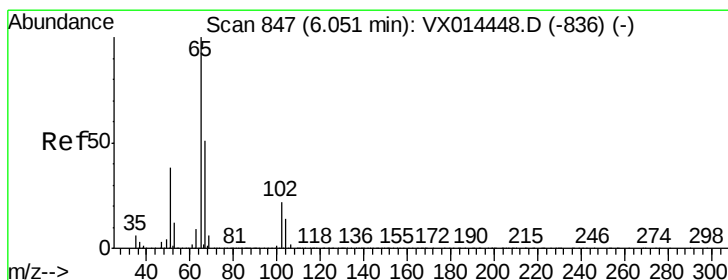
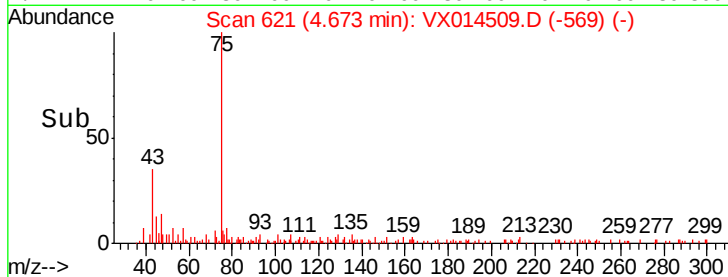
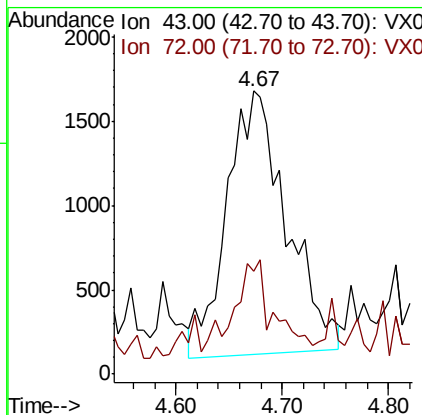
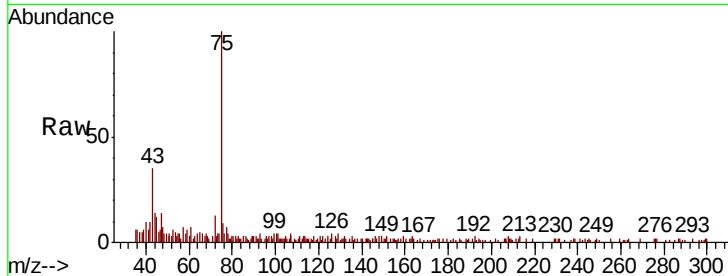




#25
2-Butanone
Concen: 1.447 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

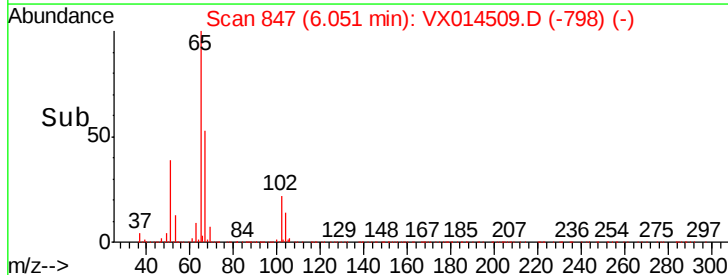
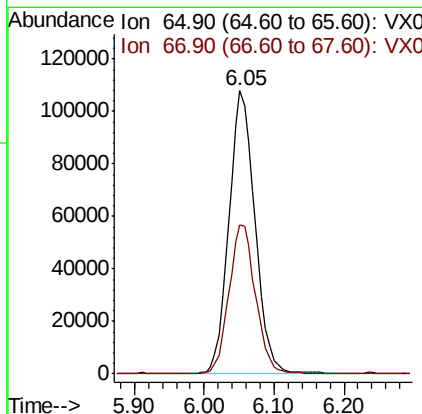
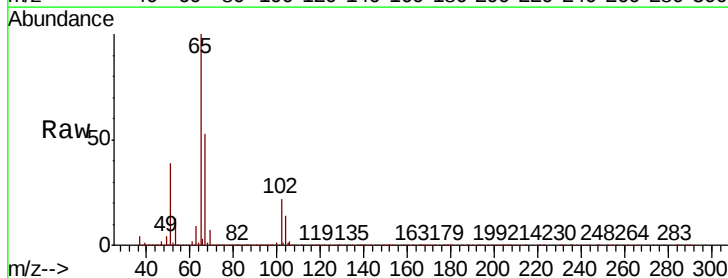
Instrument :
MSVOA_X
ClientSampleId :
SB-04

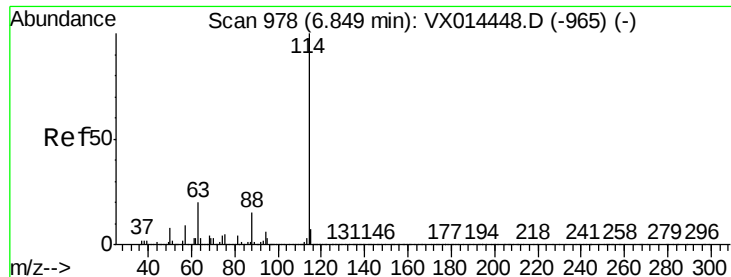
Tot Ion: 43 Resp: 6139
Ion Ratio Lower Upper
43 100
72 30.6 20.6 31.0



#33
1,2-Dichloroethane-d4
Concen: 49.005 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

Tgt Ion: 65 Resp: 278267
Ion Ratio Lower Upper
65 100
67 53.6 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: VX014509.D

Acq: 09 Jan 2020 20:06

Instrument :

MSVOA_X

ClientSampleId :

SB-04

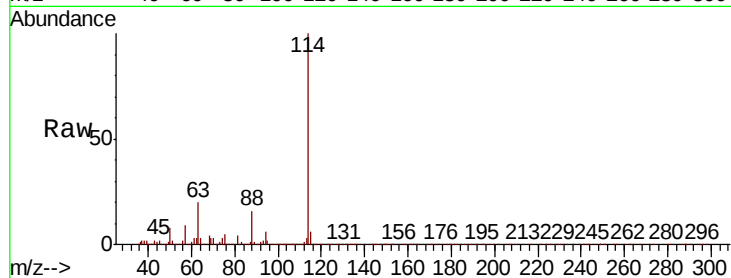
Tot Ion:114 Resp: 782504

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

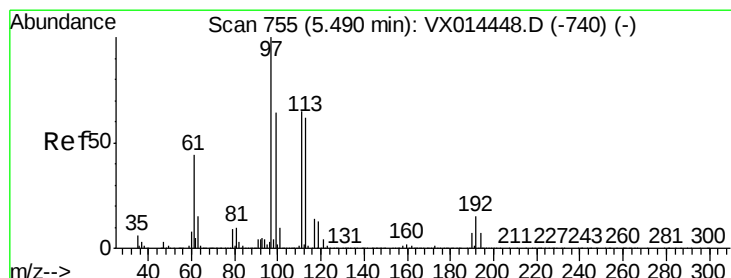
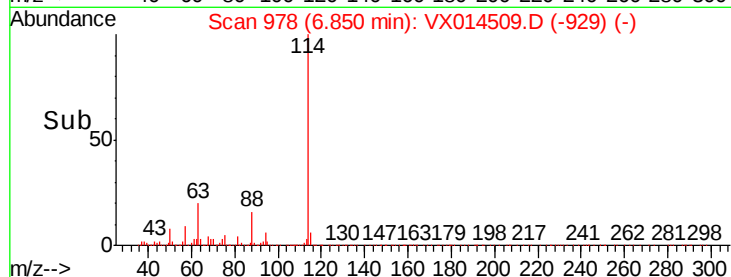
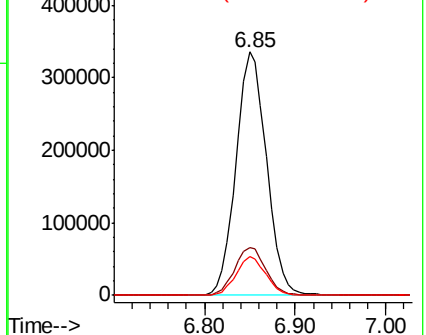
88 16.0 0.0 30.8



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: 49.585 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

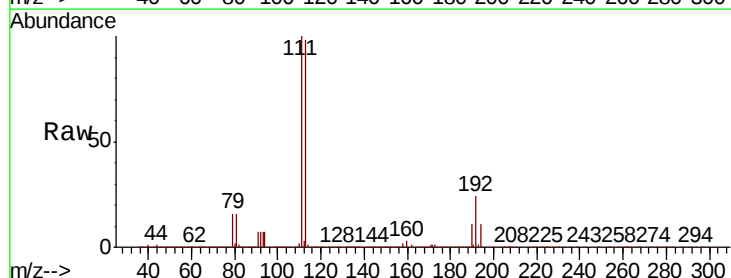
Tgt Ion:113 Resp: 234878

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

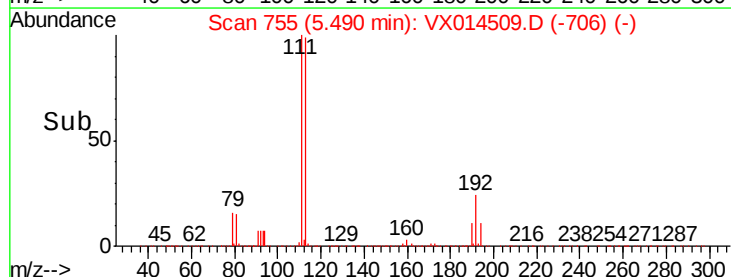
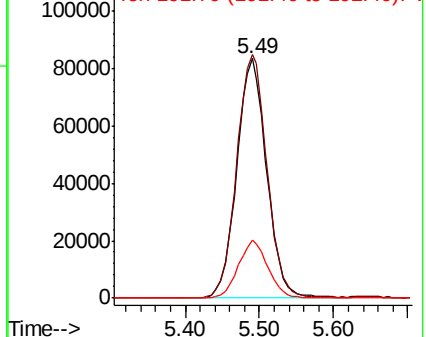
192 24.3 19.2 28.8

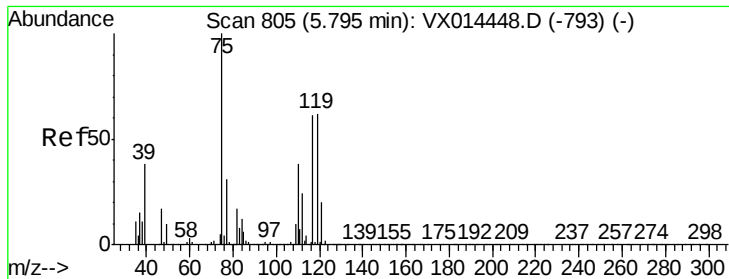


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

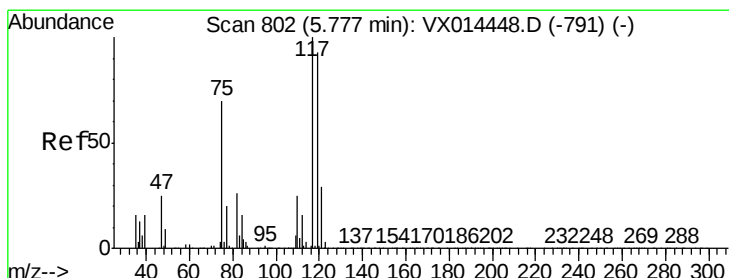
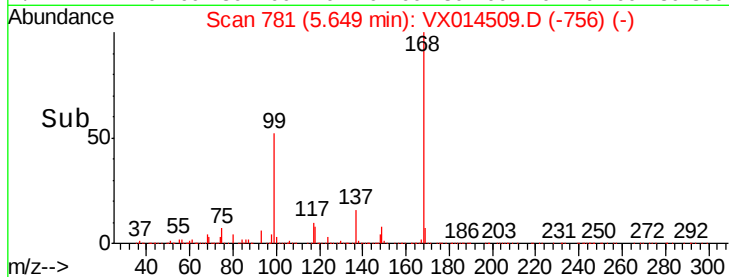
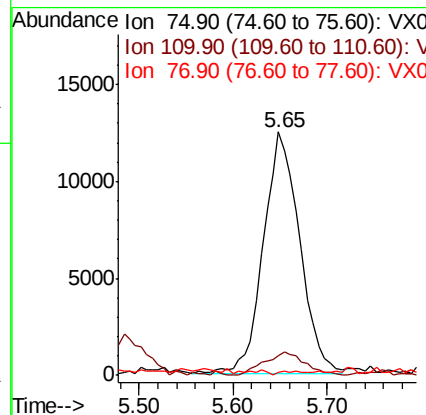
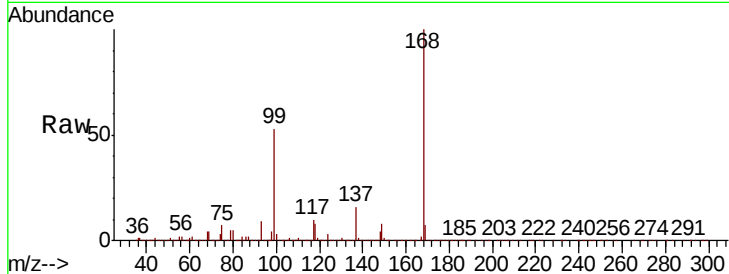




#36
 1,1-Dichloropropene
 Concen: 4.559 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014509.D
 Acq: 09 Jan 2020 20:06

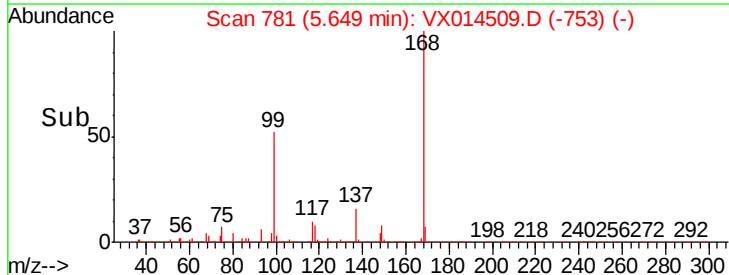
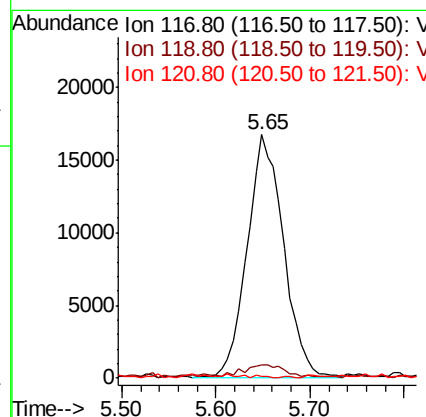
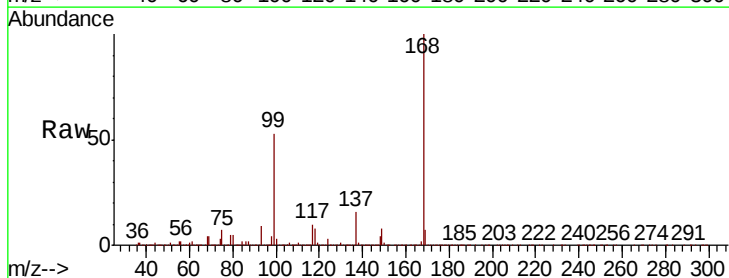
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-04

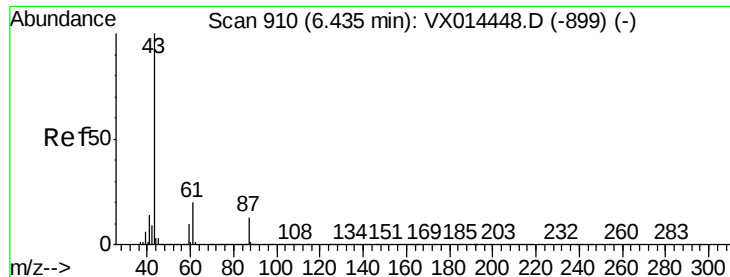
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.6	55.8#
77	1.3	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.744 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014509.D
 Acq: 09 Jan 2020 20:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	73.8	110.8#
121	0.3	23.4	35.0#





#43

Isopropyl Acetate

Concen: 9.664 ug/l

RT: 6.44 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

Instrument :

MSVOA_X

ClientSampleId :

SB-04

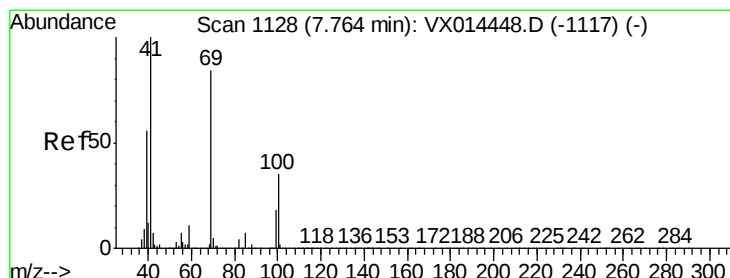
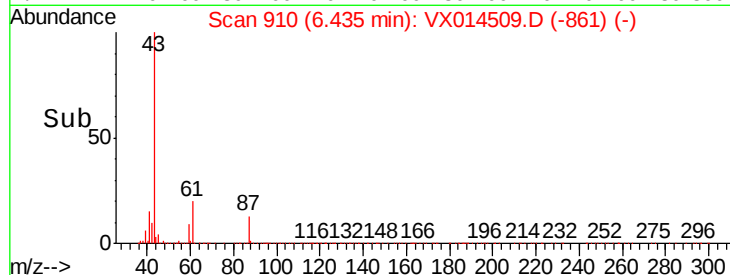
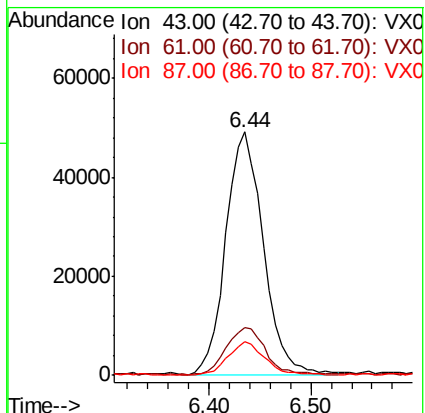
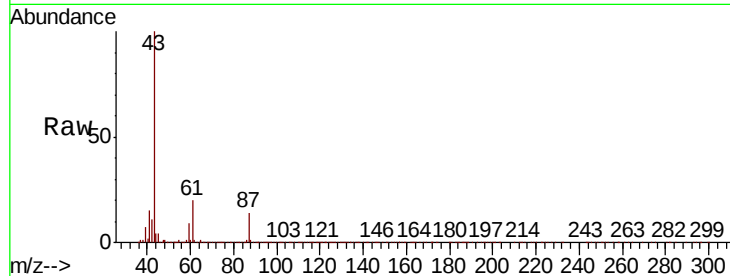
Tot Ion: 43 Resp: 124778

Ion Ratio Lower Upper

43 100

61 20.3 16.6 24.8

87 13.2 10.8 16.2



#48

Methyl methacrylate

Concen: 1.101 ug/l

RT: 7.67 min Scan# 1113

Delta R.T. -0.09 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

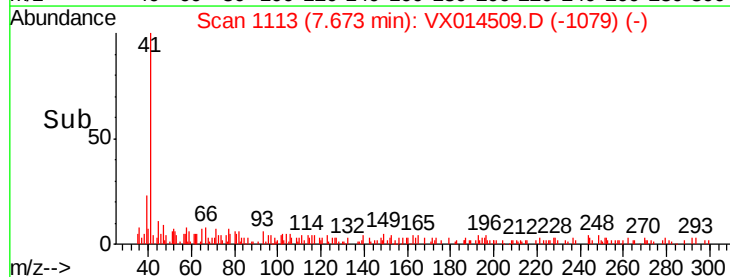
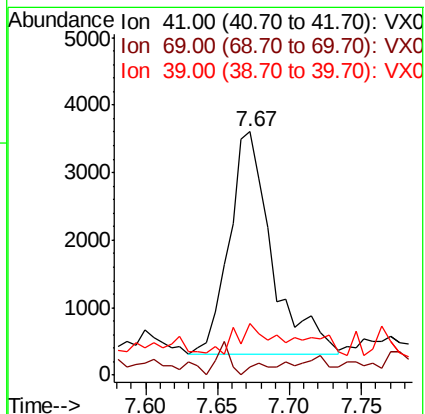
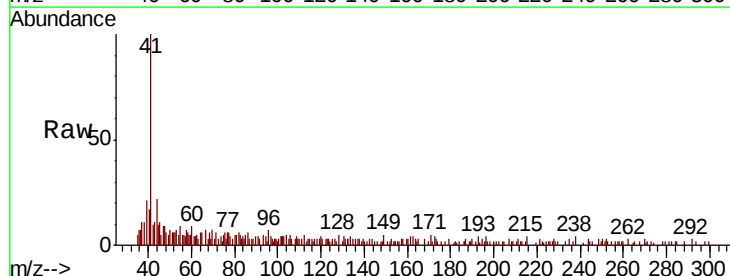
Tgt Ion: 41 Resp: 6808

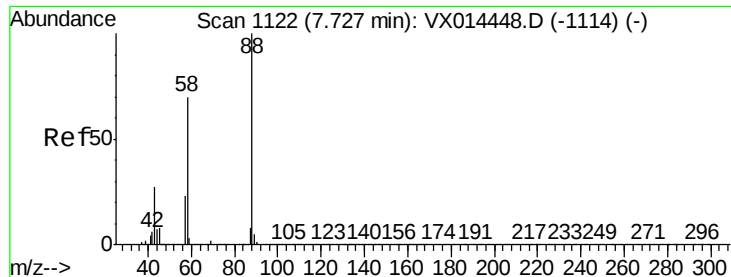
Ion Ratio Lower Upper

41 100

69 2.3 65.5 98.3#

39 0.0 43.9 65.9#

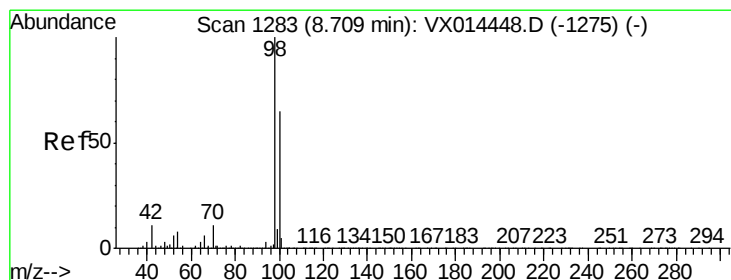
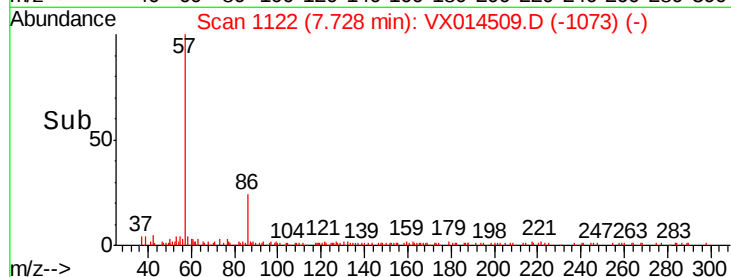
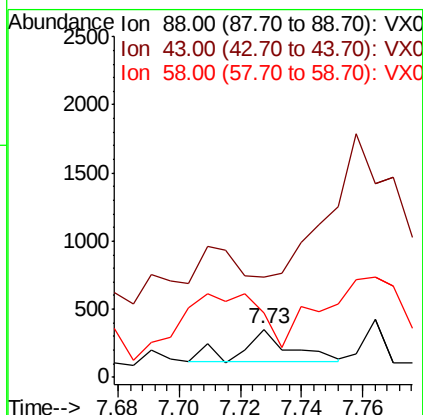
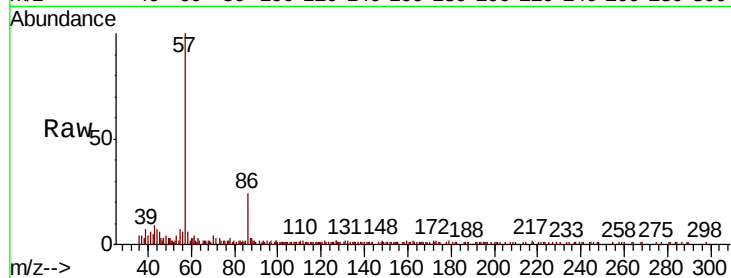




#49
1,4-Dioxane
Concen: 2.030 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. 0.00 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

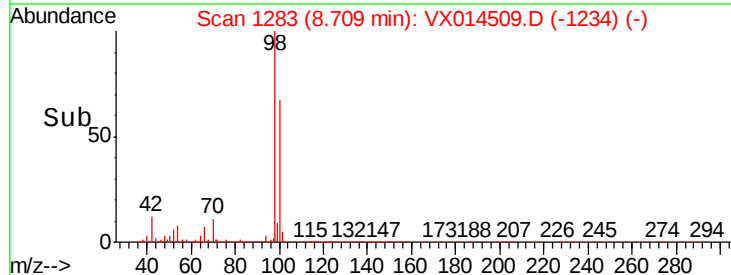
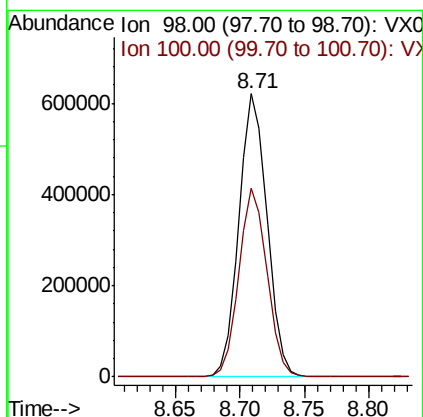
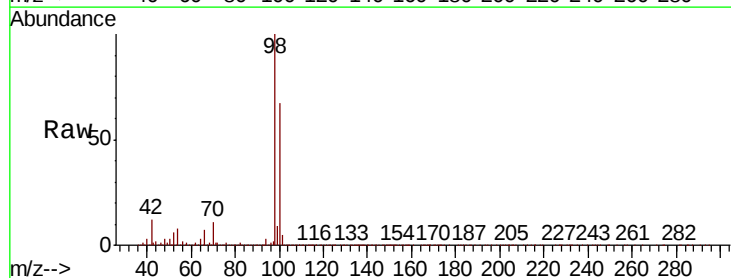
Instrument :
MSVOA_X
ClientSampleId :
SB-04

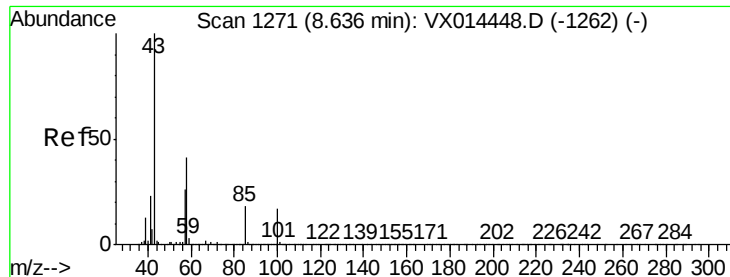
Tot Ion: 88 Resp: 266
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 398.5 57.1 85.7#



#50
Toluene-d8
Concen: 51.252 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

Tgt Ion: 98 Resp: 942124
Ion Ratio Lower Upper
98 100
100 66.4 53.2 79.8

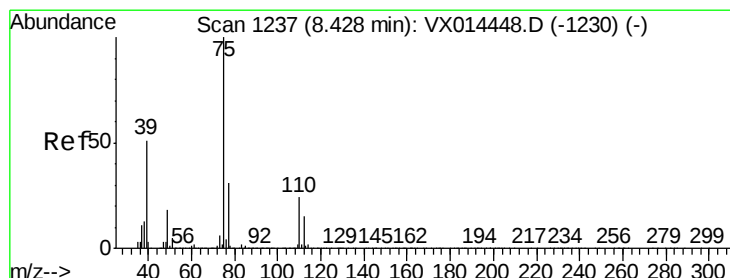
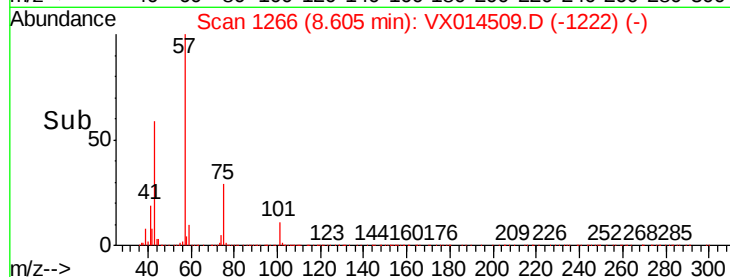
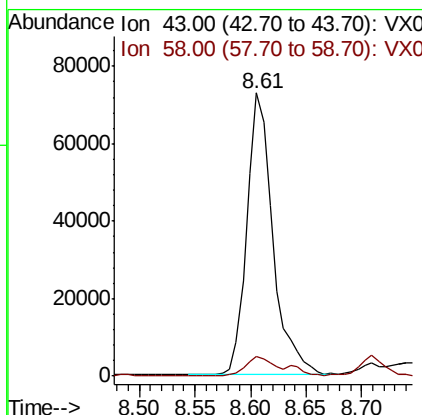
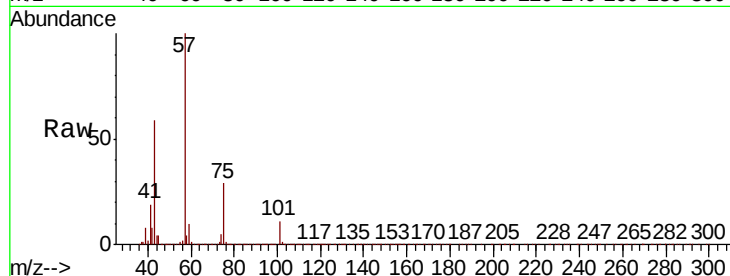




#51
4-Methyl-2-Pentanone
Concen: 15.086 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. -0.03 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

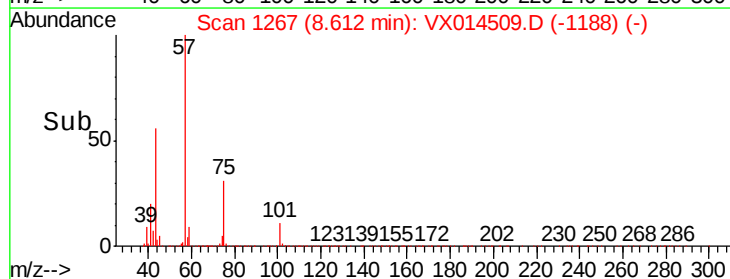
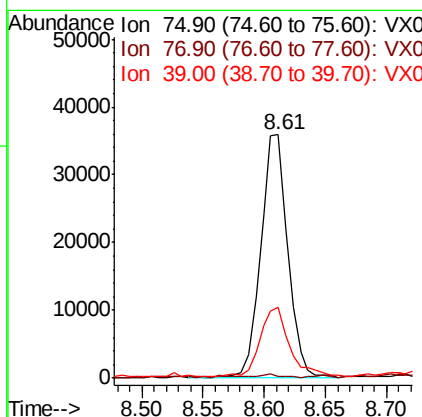
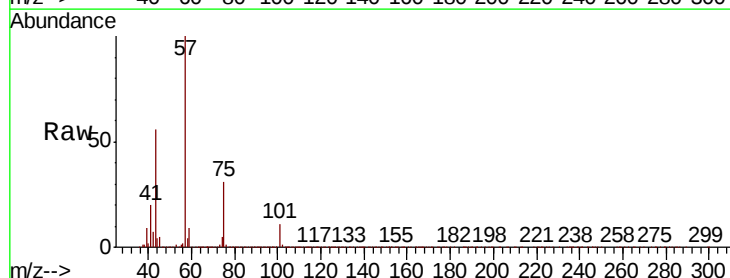
Instrument :
MSVOA_X
ClientSampleId :
SB-04

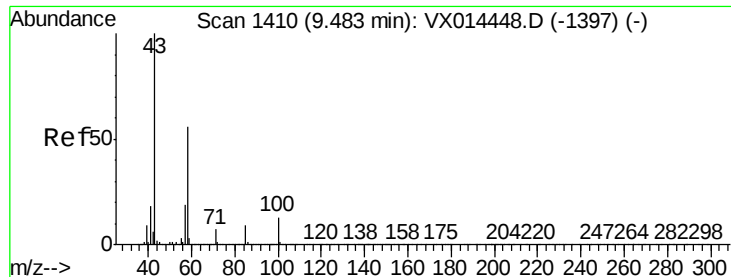
Tot Ion: 43 Resp: 118702
Ion Ratio Lower Upper
43 100
58 6.9 32.4 48.6#



#54
cis-1,3-Dichloropropene
Concen: 6.268 ug/l
RT: 8.61 min Scan# 1267
Delta R.T. 0.18 min
Lab File: VX014509.D
Acq: 09 Jan 2020 20:06

Tgt Ion: 75 Resp: 55748
Ion Ratio Lower Upper
75 100
77 0.6 25.0 37.4#
39 27.5 40.7 61.1#





#59

2-Hexanone

Concen: 20.722 ug/l

RT: 9.54 min Scan# 1419

Delta R.T. 0.06 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

Instrument :

MSVOA_X

ClientSampled :

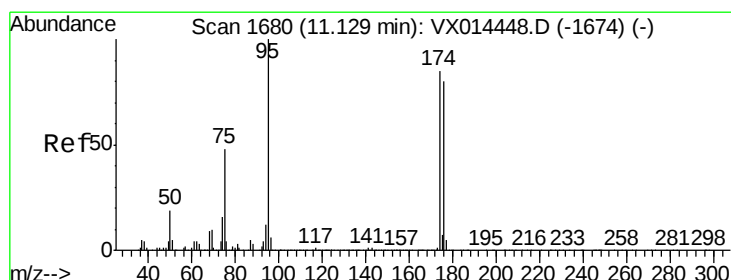
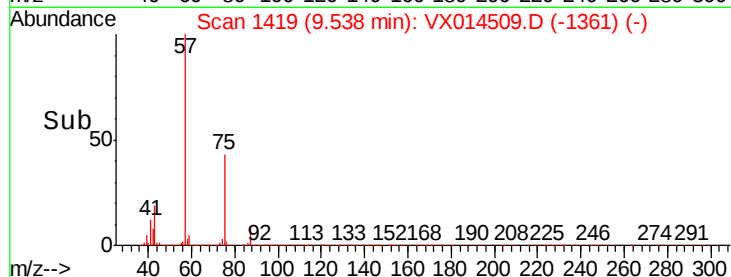
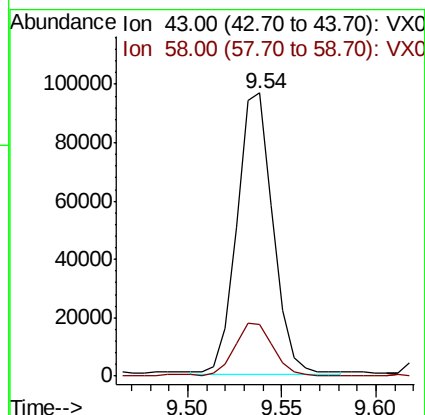
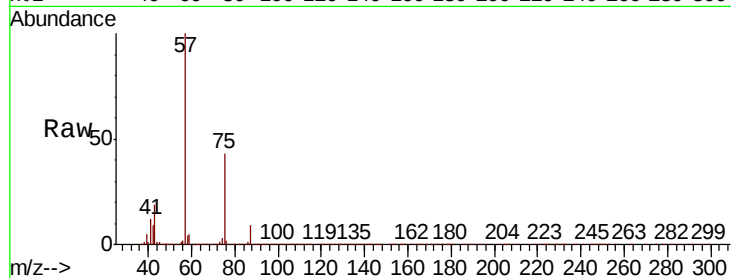
SB-04

Tot Ion: 43 Resp: 129009

Ion Ratio Lower Upper

43 100

58 19.7 27.9 83.7#



#62

4-Bromofluorobenzene

Concen: 47.875 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

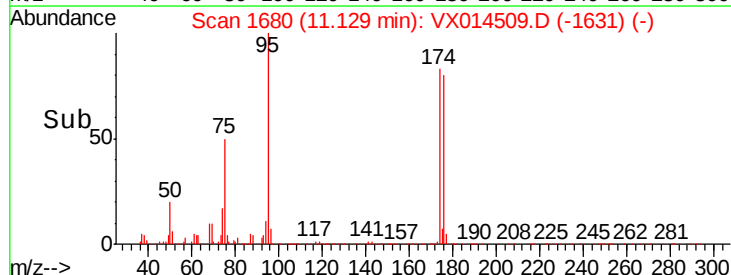
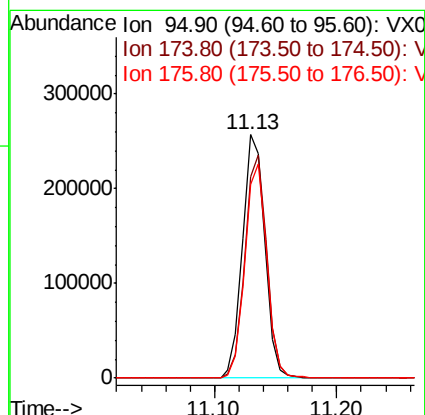
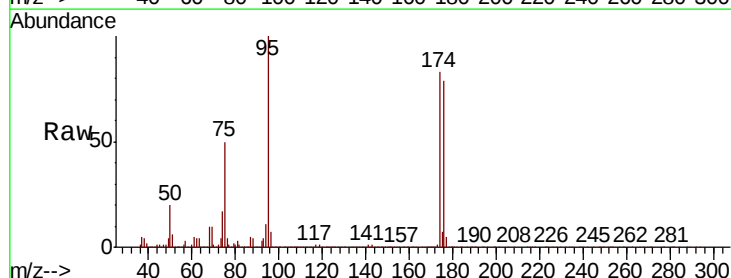
Tgt Ion: 95 Resp: 323071

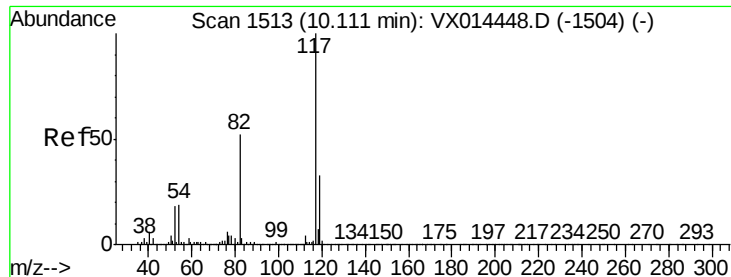
Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.8

176 86.9 0.0 172.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

Instrument :

MSVOA_X

ClientSampleId :

SB-04

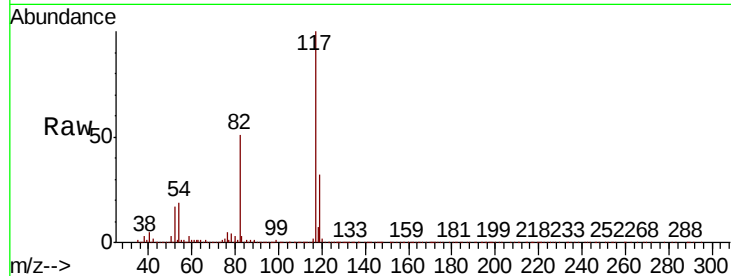
Tot Ion:117 Resp: 722026

Ion Ratio Lower Upper

117 100

82 51.2 41.8 62.6

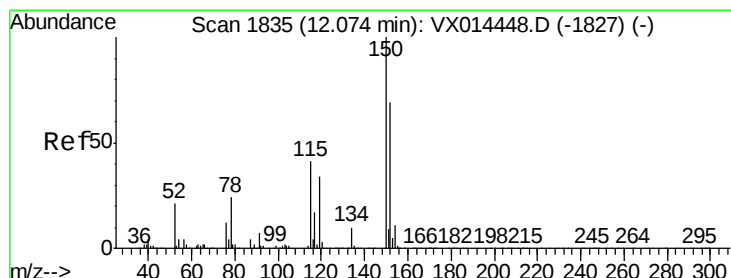
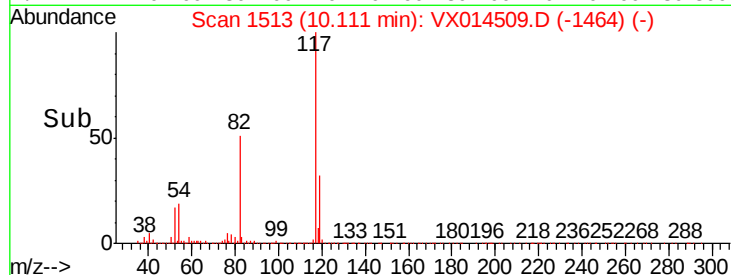
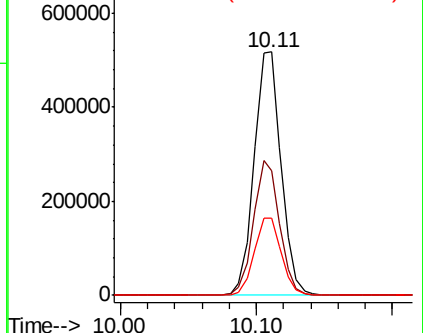
119 31.8 26.2 39.4



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: VX014509.D

Acq: 09 Jan 2020 20:06

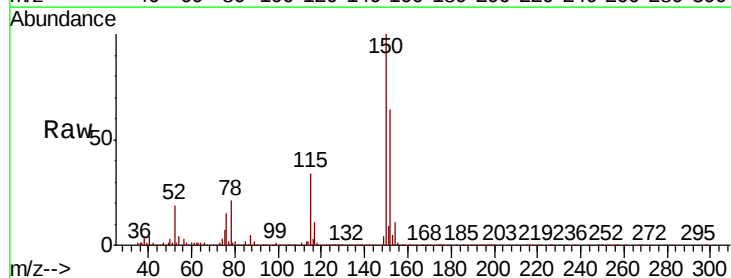
Tgt Ion:152 Resp: 328399

Ion Ratio Lower Upper

152 100

115 55.5 39.5 118.3

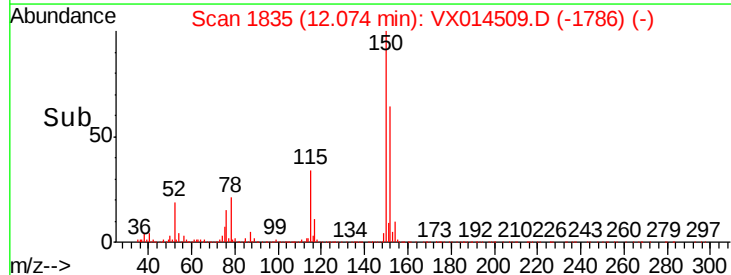
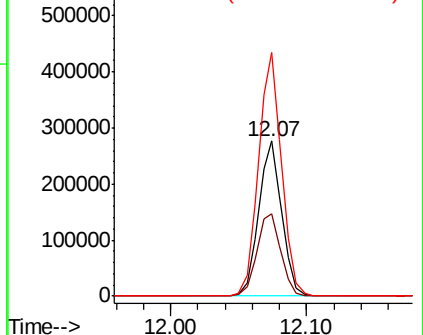
150 157.9 0.0 350.2

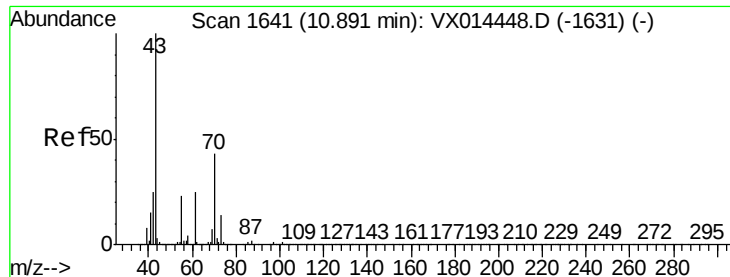


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.263 ug/l

RT: 10.87 min Scan# 1637

Delta R.T. -0.02 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

Instrument :

MSVOA_X

ClientSampled :

SB-04

Tot Ion: 43 Resp: 2673

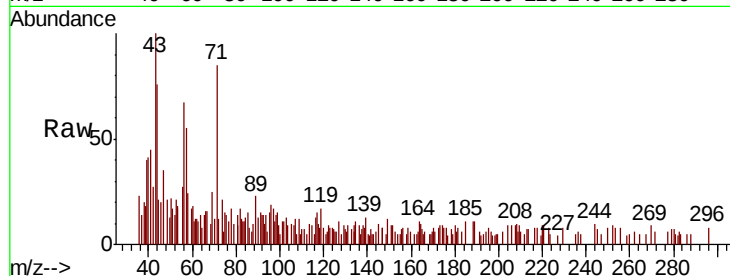
Ion Ratio Lower Upper

43 100

70 0.0 35.1 52.7#

55 7.8 19.3 28.9#

61 0.0 20.0 30.0#

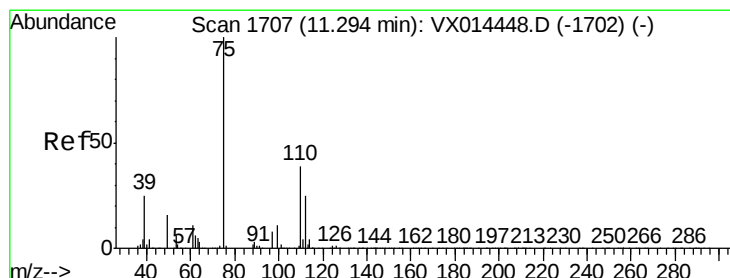
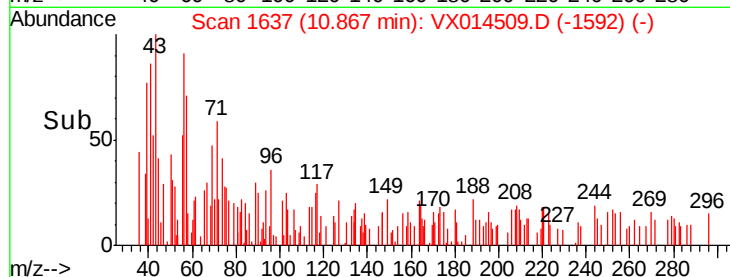
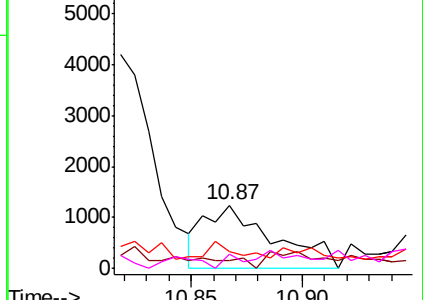


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.391 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014509.D

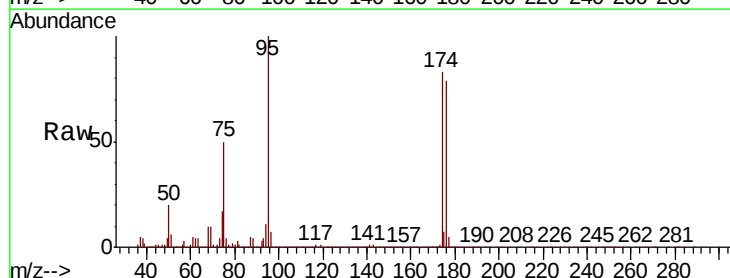
Acq: 09 Jan 2020 20:06

Tgt Ion: 75 Resp: 158935

Ion Ratio Lower Upper

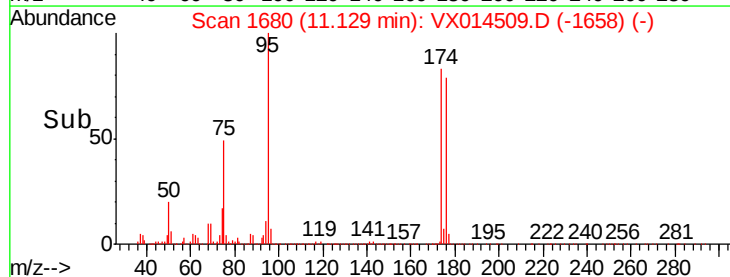
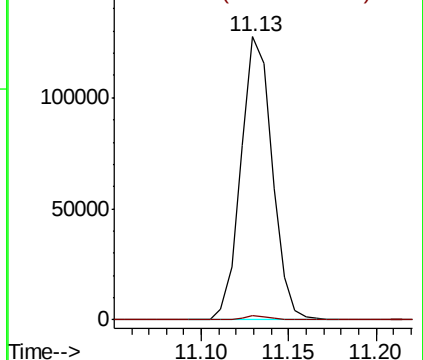
75 100

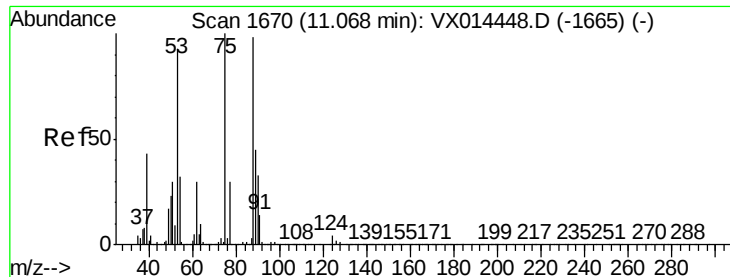
77 1.5 21.9 65.7#



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: 61.842 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

Instrument :

MSVOA_X

ClientSampleId :

SB-04

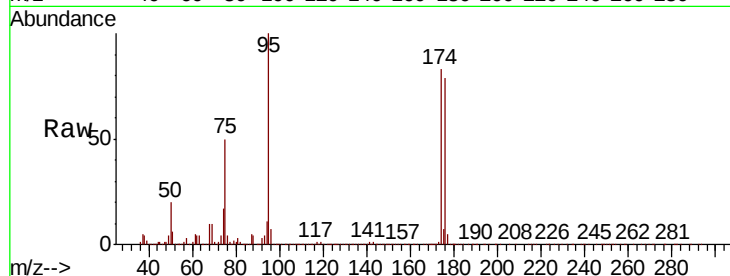
Tot Ion: 75 Resp: 158935

Ion Ratio Lower Upper

75 100

53 0.7 74.8 112.2#

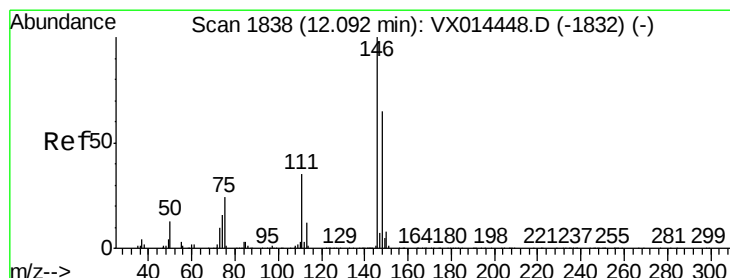
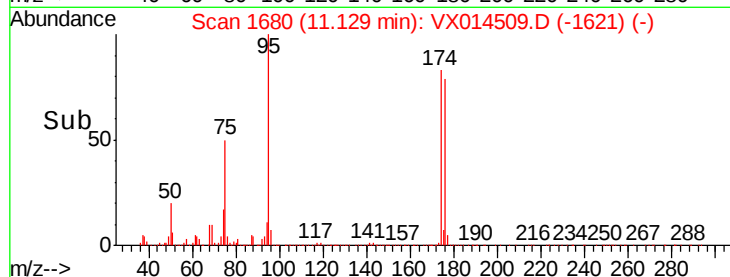
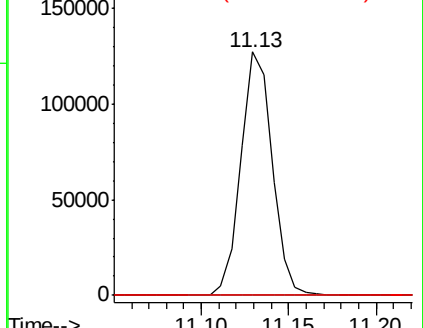
89 0.5 36.3 54.5#



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: 12.08 min Scan# 1836

Delta R.T. -0.01 min

Lab File: VX014509.D

Acq: 09 Jan 2020 20:06

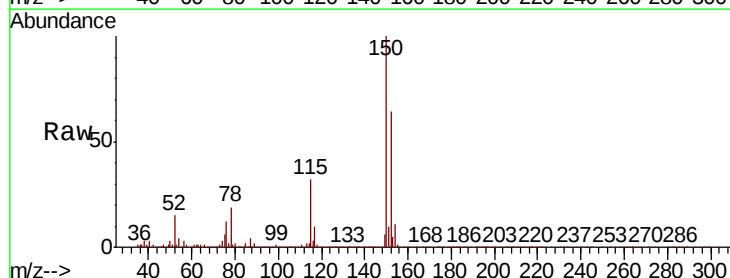
Tgt Ion: 146 Resp: 945

Ion Ratio Lower Upper

146 100

111 490.3 18.1 54.1#

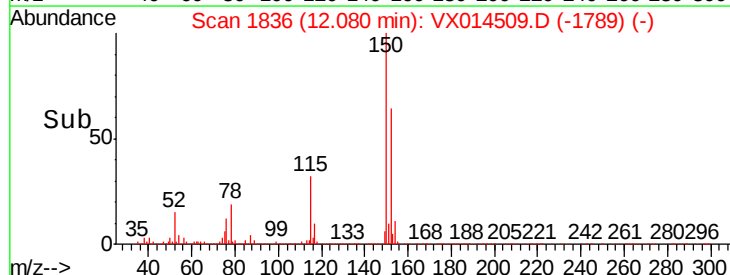
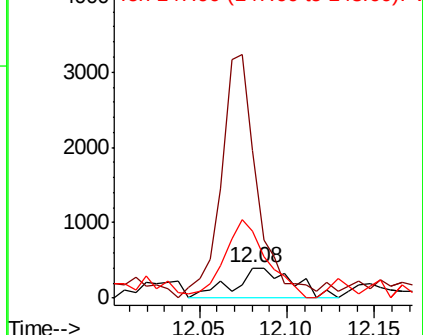
148 187.1 32.1 96.3#

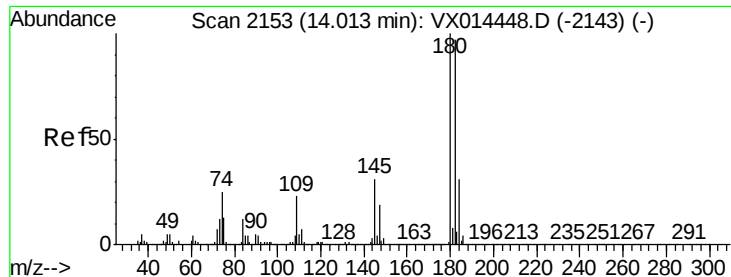


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

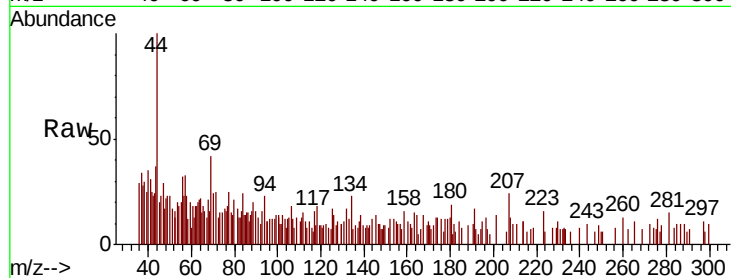




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX014509.D
 Acq: 09 Jan 2020 20:06

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-04

Tot Ion	Ratio	Lower	Upper
180	100		
182	47.9	47.9	143.6
145	70.1	14.8	44.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

