

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011520\
 Data File : VX014621.D
 Acq On : 15 Jan 2020 16:14
 Operator : JC/SP
 Sample : L1135-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-011420

Quant Time: Jan 16 01:12:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	74193	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	415578	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	360542	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	161770	31.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.40%
60) 4-Bromofluorobenzene	11.13	95	159586	27.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.20%
63) Toluene-d8	8.71	98	487819	29.95	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.83%

Target Compounds

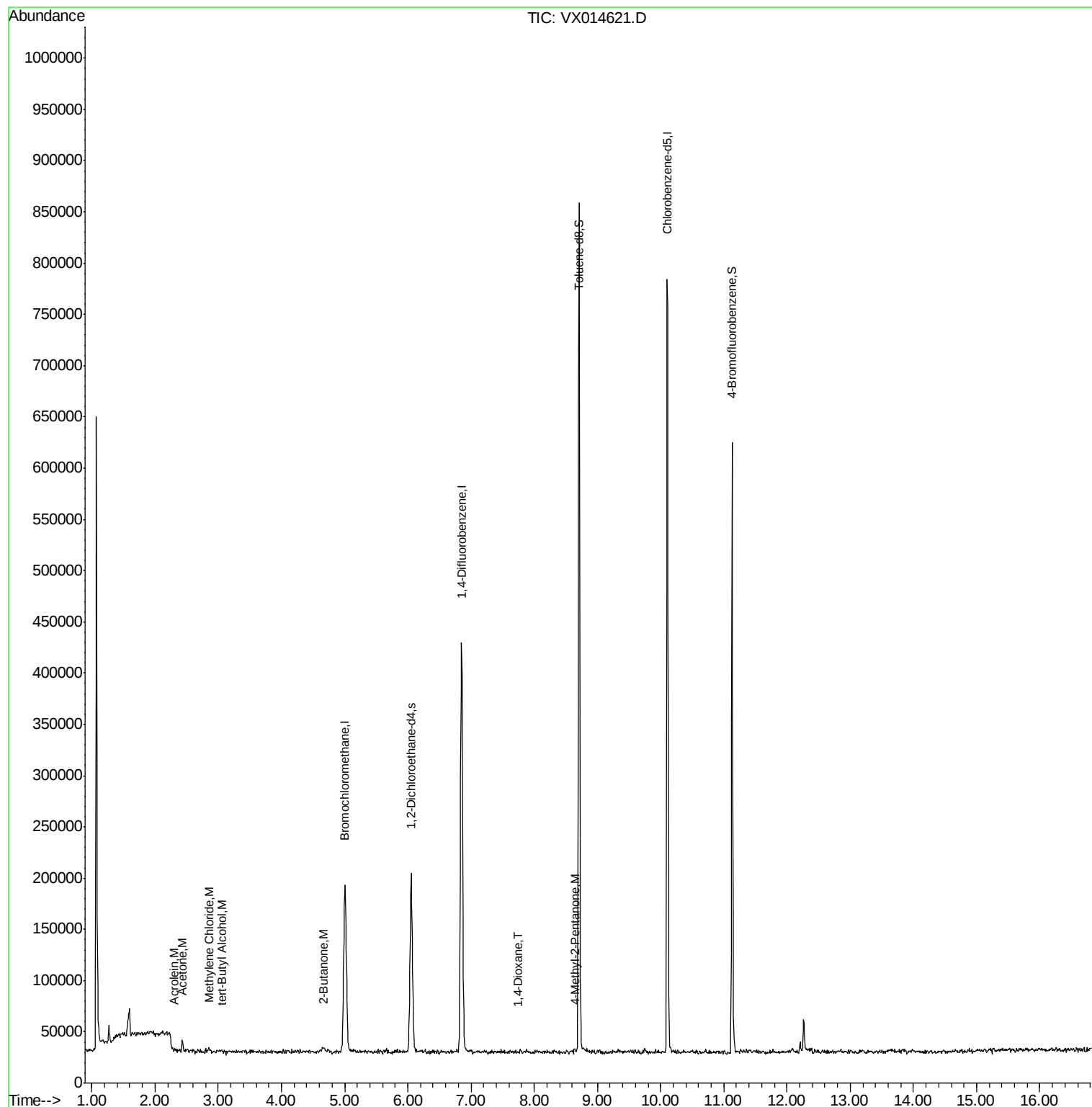
					Qvalue	
13) Acrolein	2.30	56	344	0.441	ug/l	86
15) Acetone	2.43	58	3586	4.213	ug/l	99
18) Methylene Chloride	2.86	84	2433	0.506	ug/l #	69
23) tert-Butyl Alcohol	3.06	59	295	0.281	ug/l #	37
30) 2-Butanone	4.67	43	2893	0.749	ug/l #	76
45) 1,4-Dioxane	7.73	88	77	0.683	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	2307	0.340	ug/l #	78

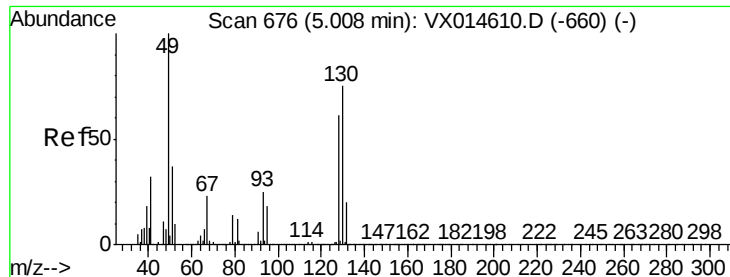
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X011520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jan 15 12:41:12 2020
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014621.D

Acq: 15 Jan 2020 16:14

Instrument :

MSVOA_X

ClientSampleId :

TB-011420

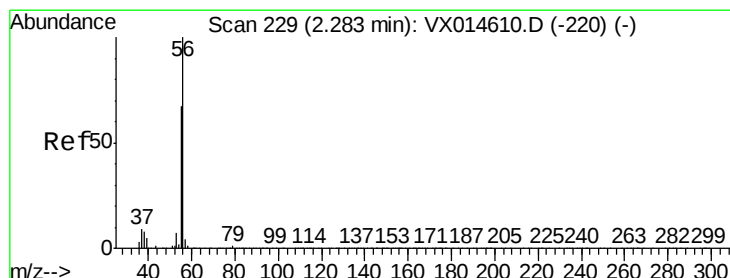
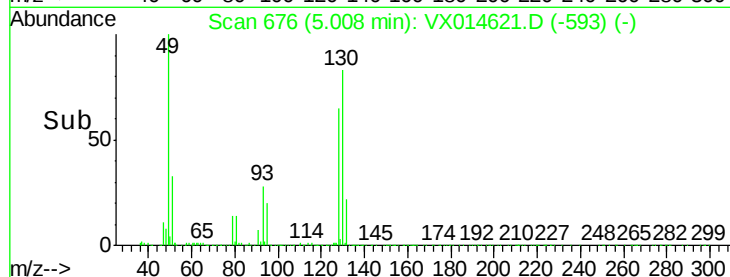
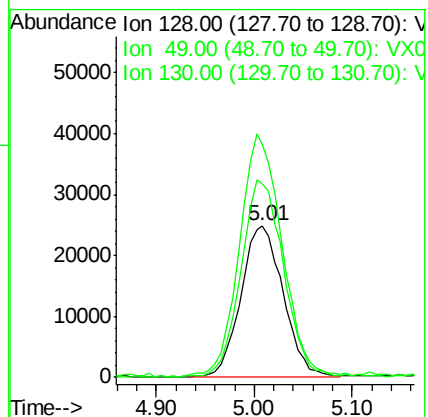
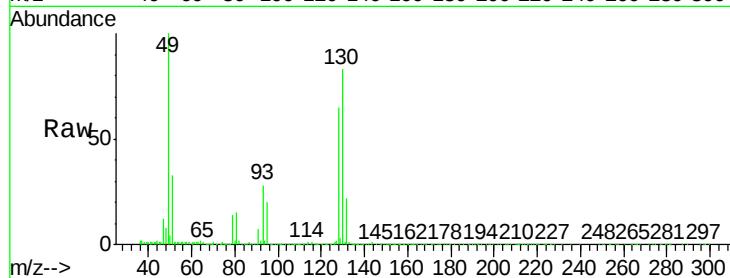
Tgt Ion:128 Resp: 74193

Ion Ratio Lower Upper

128 100

49 160.8 0.0 405.0

130 132.7 0.0 321.5



#13

Acrolein

Concen: 0.441 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX014621.D

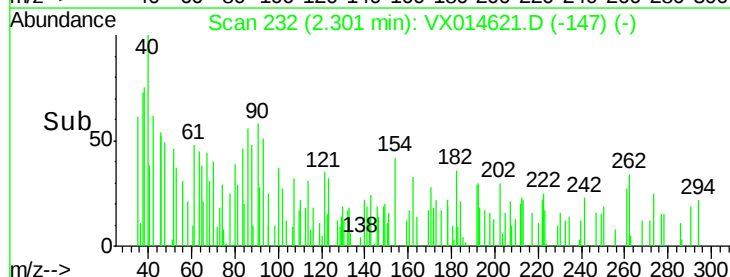
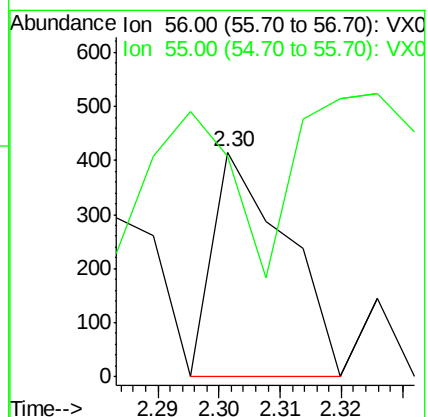
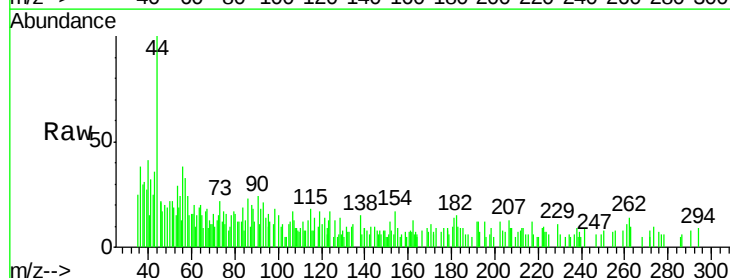
Acq: 15 Jan 2020 16:14

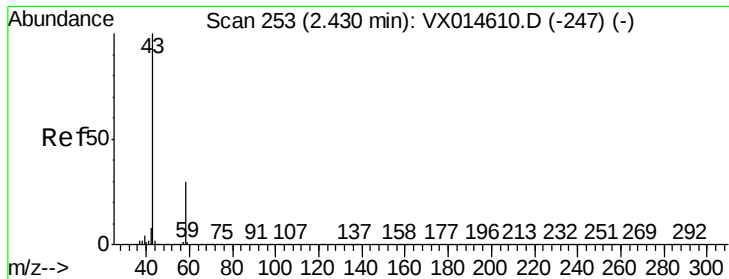
Tgt Ion: 56 Resp: 344

Ion Ratio Lower Upper

56 100

55 80.2 54.9 82.3





#15

Acetone

Concen: 4.213 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014621.D

Acq: 15 Jan 2020 16:14

Instrument :

MSVOA_X

ClientSampleId :

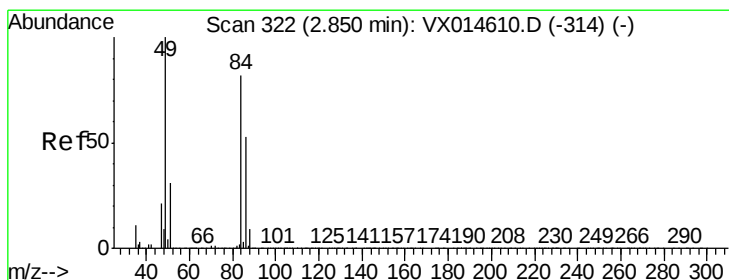
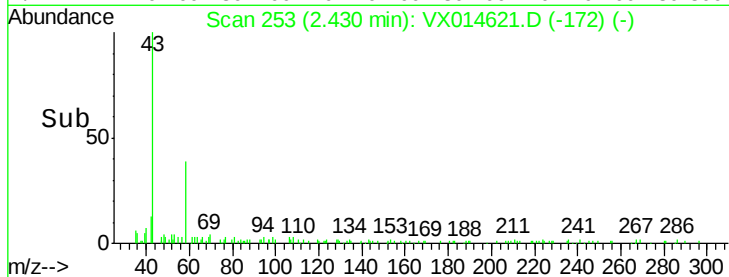
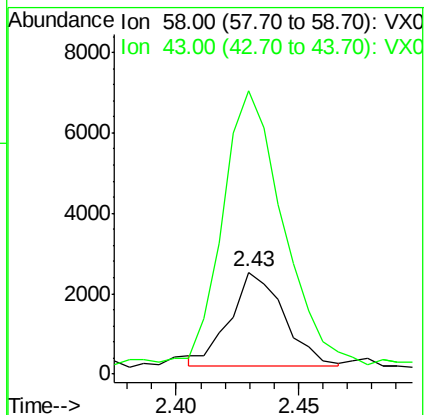
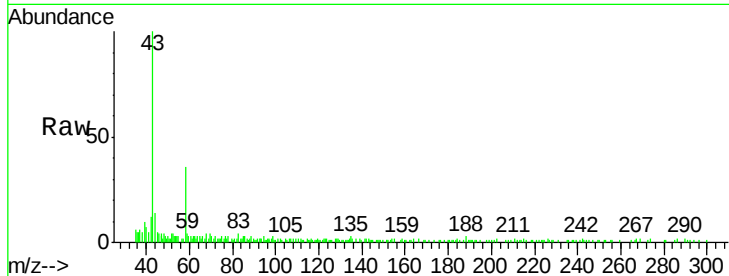
TB-011420

Tgt Ion: 58 Resp: 3586

Ion Ratio Lower Upper

58 100

43 293.0 236.3 354.5



#18

Methylene Chloride

Concen: 0.506 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX014621.D

Acq: 15 Jan 2020 16:14

Tgt Ion: 84 Resp: 2433

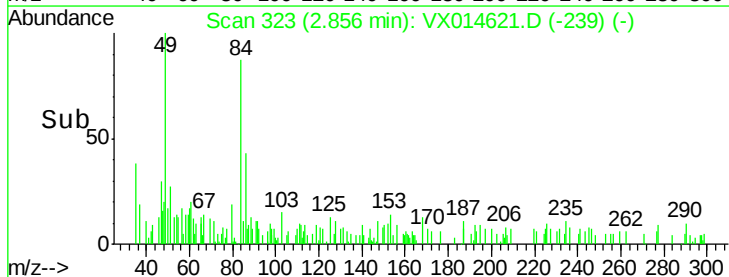
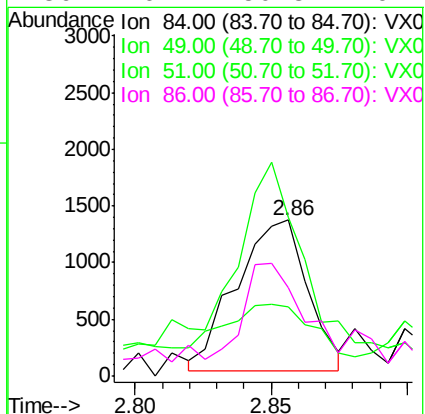
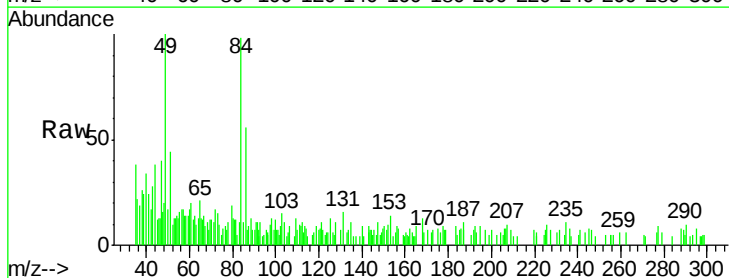
Ion Ratio Lower Upper

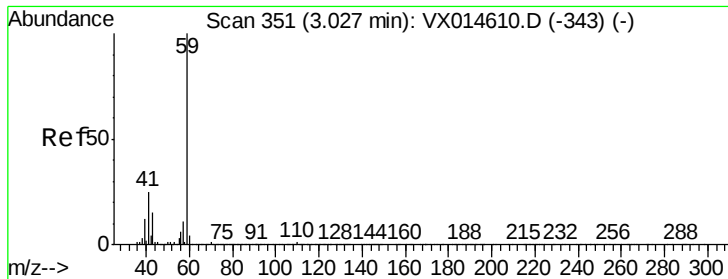
84 100

49 79.1 102.2 153.2#

51 32.6 31.4 47.0

86 46.1 50.8 76.2#



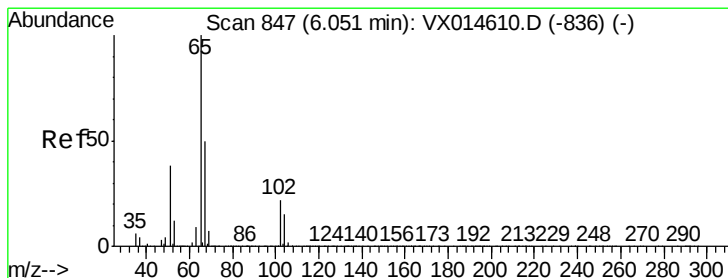
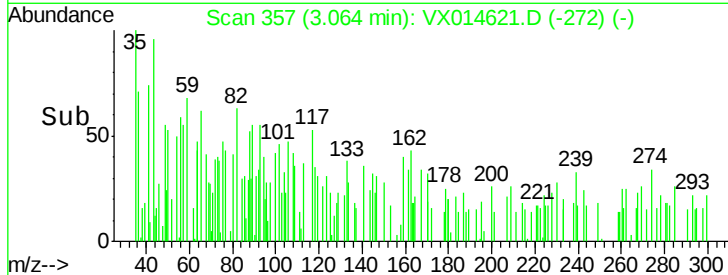
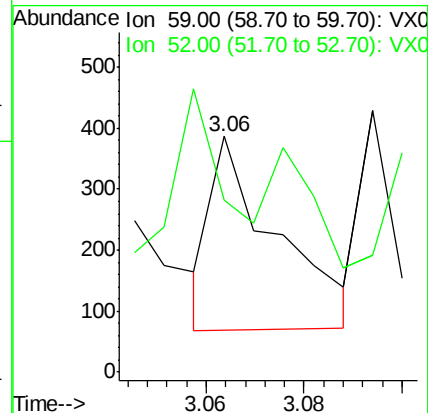
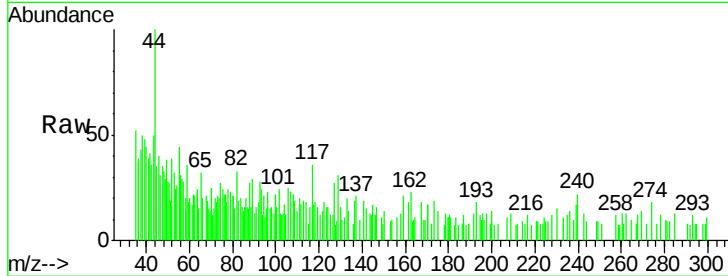


#23

tert-Butyl Alcohol
Concen: 0.281 ug/l
RT: 3.06 min Scan# 357
Delta R.T. 0.02 min
Lab File: VX014621.D
Acq: 15 Jan 2020 16:14

Instrument :
MSVOA_X
ClientSampleId :
TB-011420

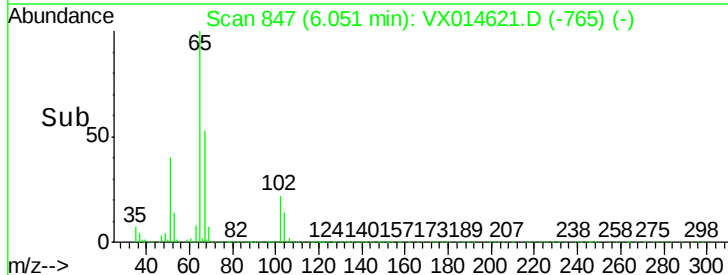
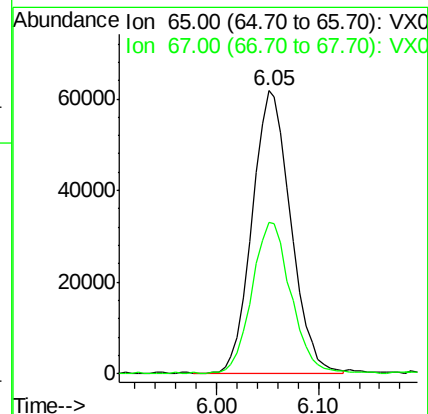
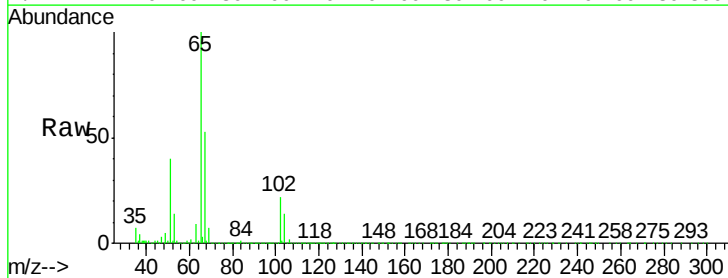
Tgt Ion: 59 Resp: 295
Ion Ratio Lower Upper
59 100
52 81.4 0.2 0.2#

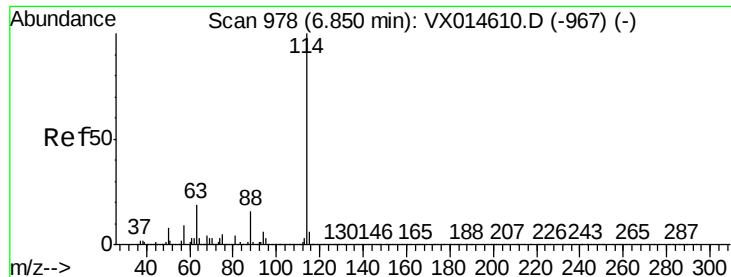


#27

1,2-Dichloroethane-d4
Concen: 31.021 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014621.D
Acq: 15 Jan 2020 16:14

Tgt Ion: 65 Resp: 161770
Ion Ratio Lower Upper
65 100
67 53.9 43.1 64.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014621.D

Acq: 15 Jan 2020 16:14

Instrument :

MSVOA_X

ClientSampleId :

TB-011420

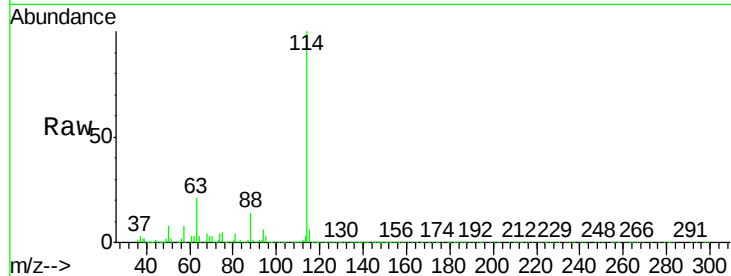
Tgt Ion:114 Resp: 415578

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

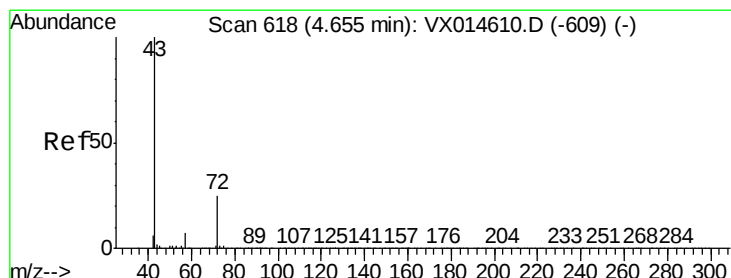
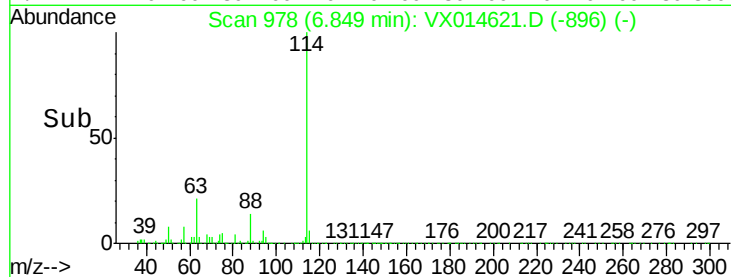
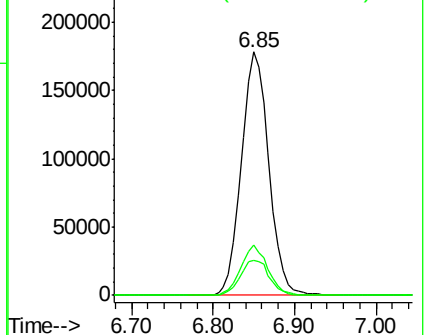
88 15.1 12.5 18.7



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#30

2-Butanone

Concen: 0.749 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX014621.D

Acq: 15 Jan 2020 16:14

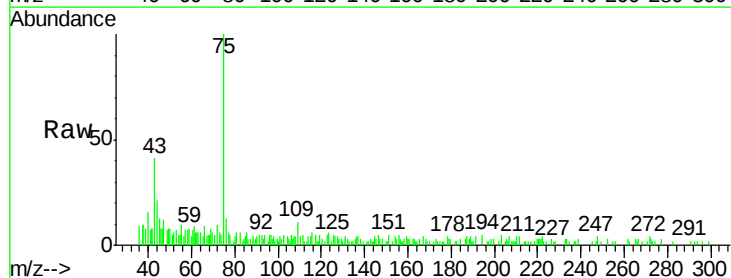
Tgt Ion: 43 Resp: 2893

Ion Ratio Lower Upper

43 100

57 8.1 6.2 9.2

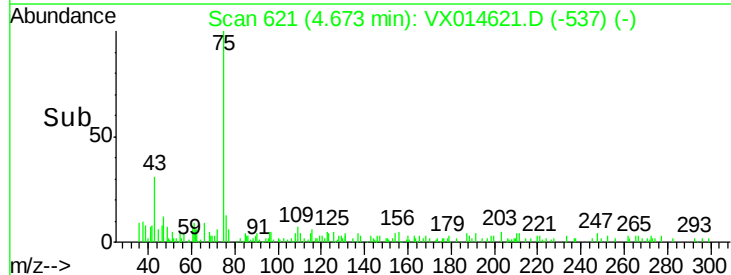
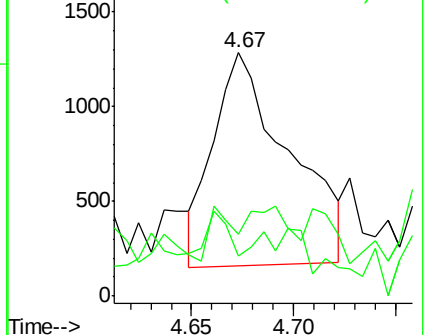
72 9.9 20.3 30.5#

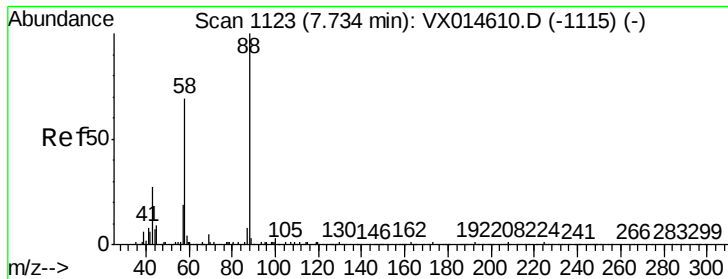


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#45

1,4-Dioxane

Concen: 0.683 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014621.D

Acq: 15 Jan 2020 16:14

Instrument :

MSVOA_X

ClientSampleId :

TB-011420

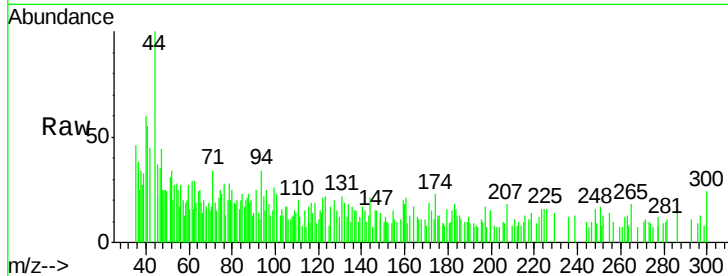
Tgt Ion: 88 Resp: 77

Ion Ratio Lower Upper

88 100

43 319.5 25.4 38.2#

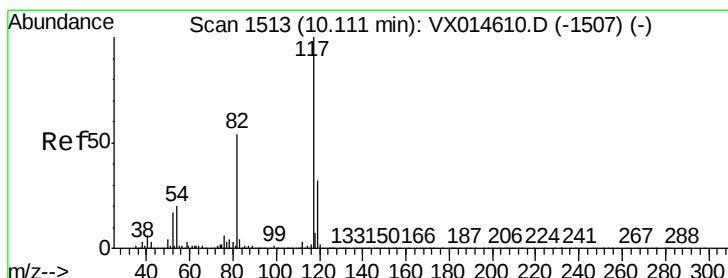
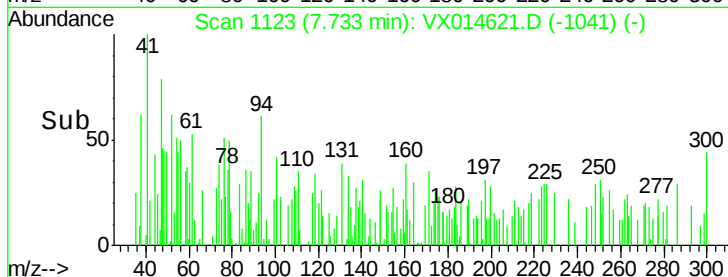
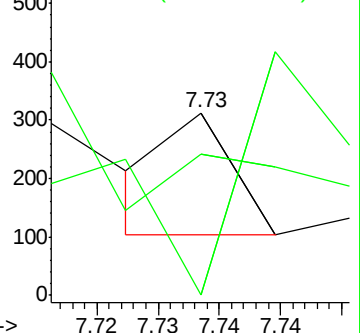
58 140.3 56.5 84.7#



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



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014621.D

Acq: 15 Jan 2020 16:14

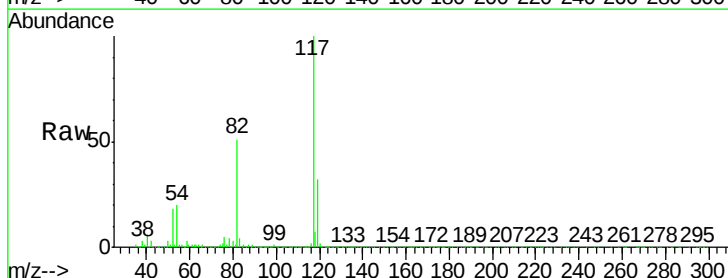
Tgt Ion: 117 Resp: 360542

Ion Ratio Lower Upper

117 100

82 54.0 43.8 65.6

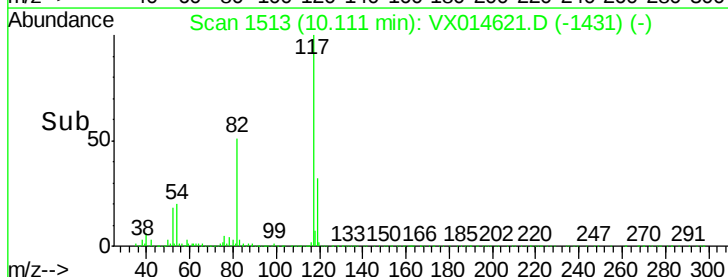
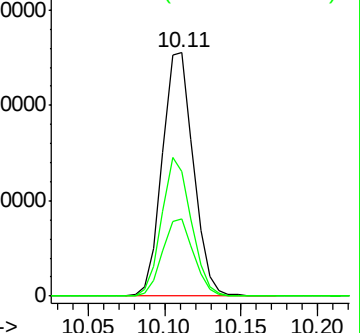
119 31.9 25.8 38.6

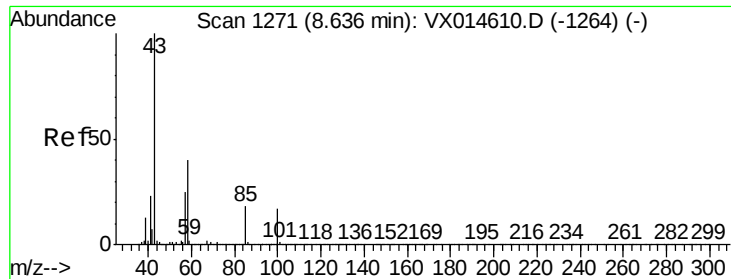


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

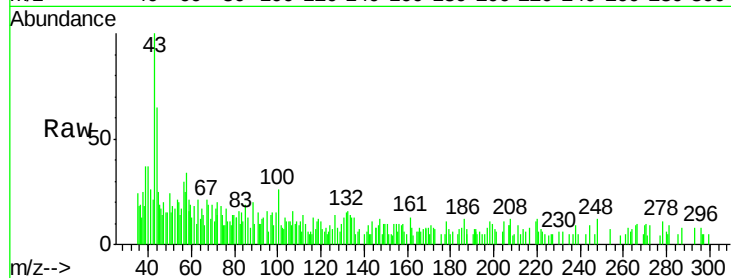




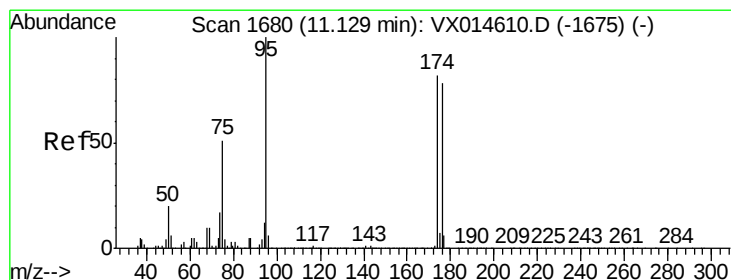
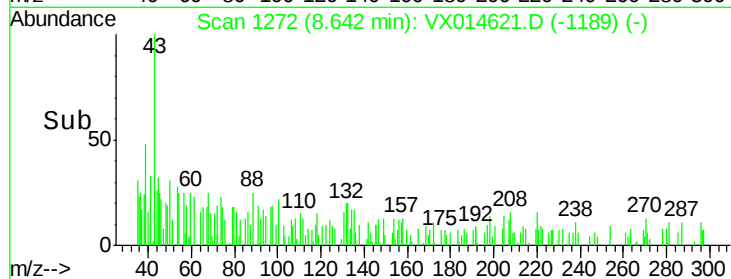
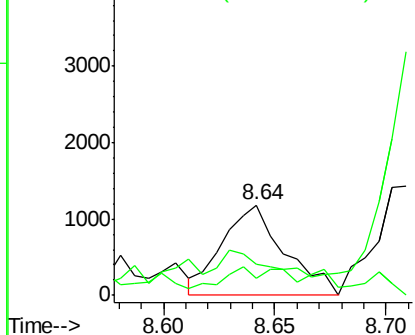
#58
4-Methyl-2-Pentanone
Concen: 0.340 ug/l
RT: 8.64 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VX014621.D
Acq: 15 Jan 2020 16:14

Instrument :
MSVOA_X
ClientSampleId :
TB-011420

Tgt Ion: 43 Resp: 2307
Ion Ratio Lower Upper
43 100
58 23.8 31.2 46.8#
85 11.2 14.2 21.2#

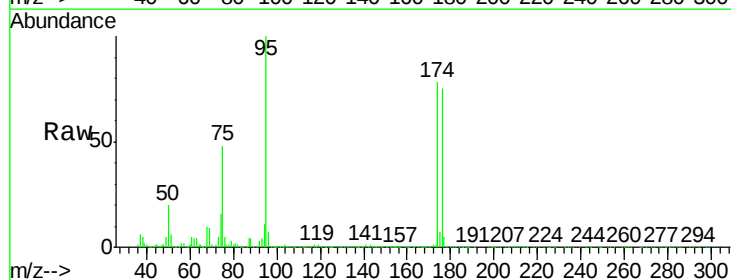


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0

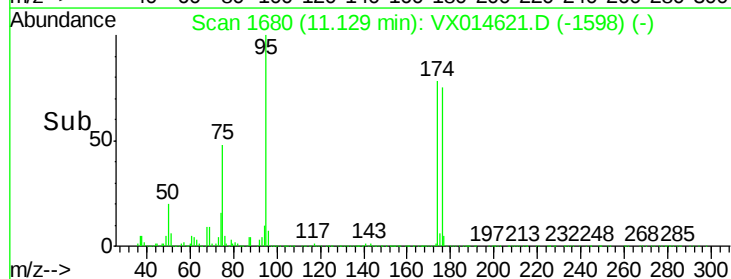
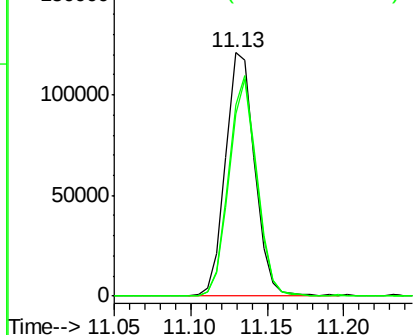


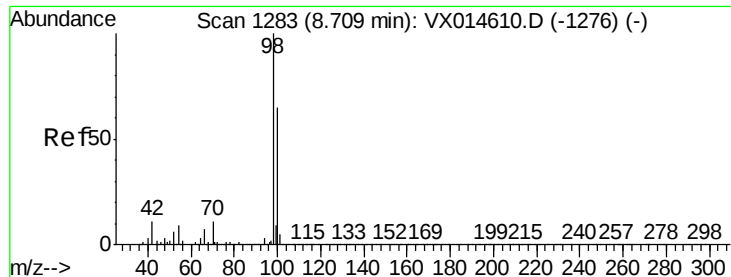
#60
4-Bromofluorobenzene
Concen: 27.661 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014621.D
Acq: 15 Jan 2020 16:14

Tgt Ion: 95 Resp: 159586
Ion Ratio Lower Upper
95 100
174 87.8 70.2 105.2
176 84.7 68.3 102.5



Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 29.954 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014621.D

Acq: 15 Jan 2020 16:14

Instrument :

MSVOA_X

ClientSampleId :

TB-011420

Tgt Ion: 98 Resp: 487819

Ion Ratio Lower Upper

98 100

100 66.4 52.2 78.2

