

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013538.D
 Acq On : 22 Nov 2019 17:08
 Operator : JC/SP
 Sample : K5960-04 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-4

Quant Time: Nov 22 22:25:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	113560	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	641538	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	554770	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	245545	29.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.60%
60) 4-Bromofluorobenzene	11.14	95	246288	27.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.07%
63) Toluene-d8	8.71	98	755535	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

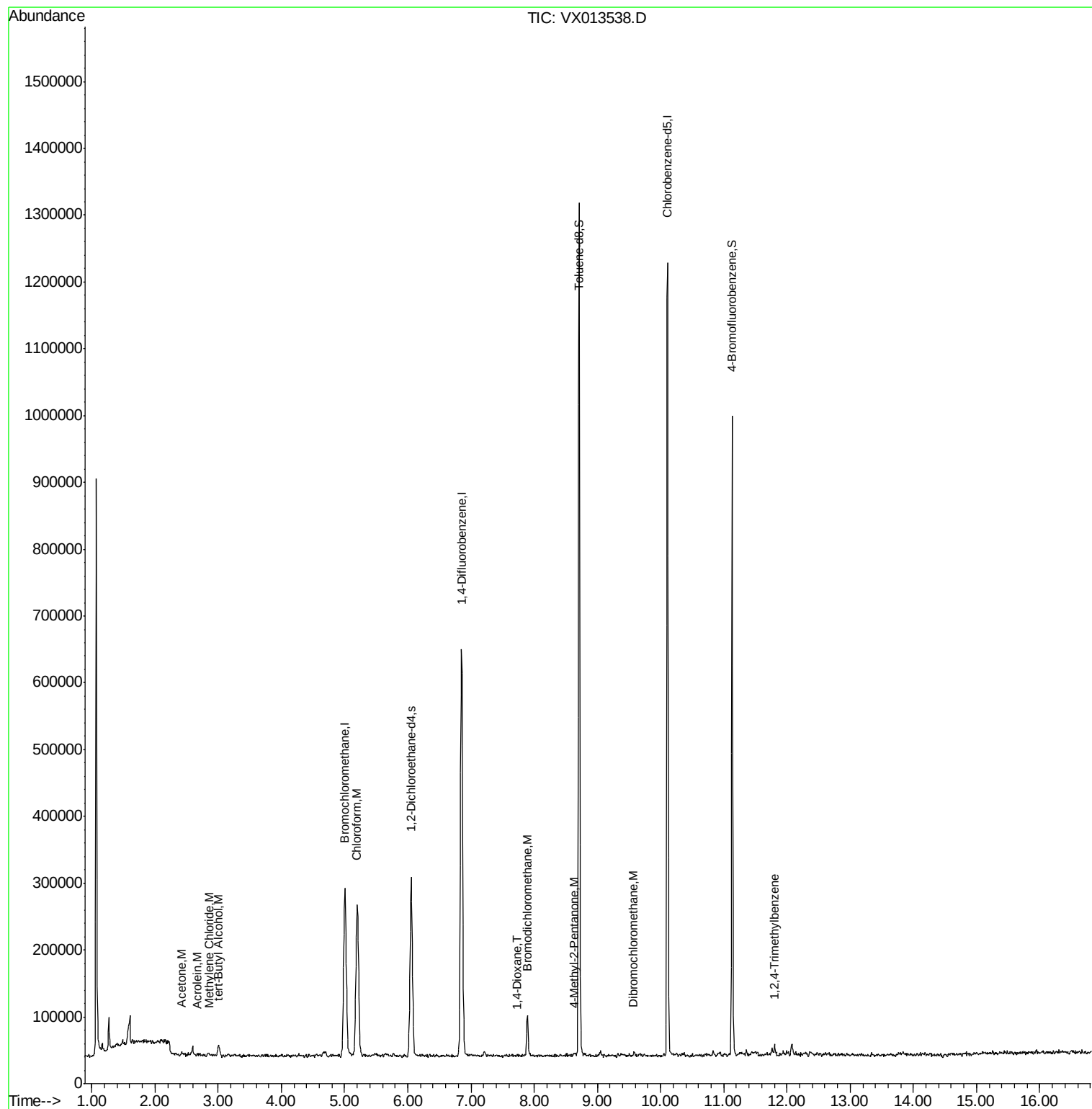
					Ovalue
13) Acrolein	2.65	56	283	0.217 ug/l	92
15) Acetone	2.43	58	2252	1.645 ug/l	93
18) Methylene Chloride	2.84	84	1926	0.242 ug/l #	74
23) tert-Butyl Alcohol	3.00	59	10226	4.702 ug/l #	97
25) Chloroform	5.20	83	273770	20.666 ug/l	98
41) Bromodichloromethane	7.89	83	40159	4.022 ug/l	97
45) 1,4-Dioxane	7.73	88	204	0.974 ug/l #	1
53) Dibromochloromethane	9.58	129	2993	0.373 ug/l	77
58) 4-Methyl-2-Pentanone	8.64	43	3935	0.340 ug/l #	52
80) 1,2,4-Trimethylbenzene	11.81	105	6668	0.239 ug/l	99

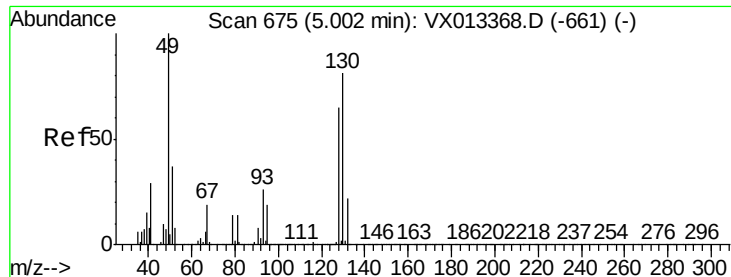
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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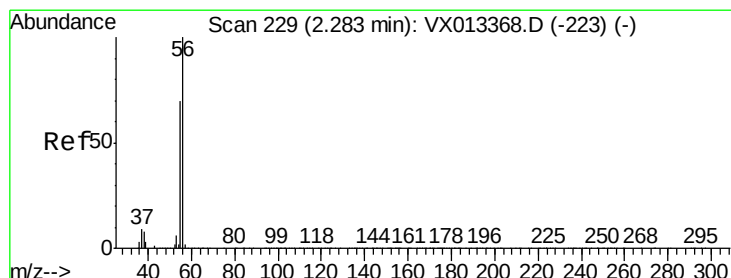
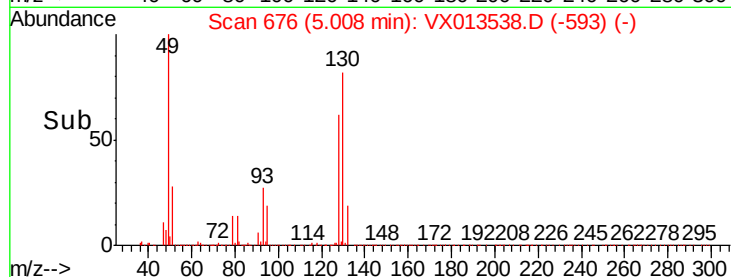
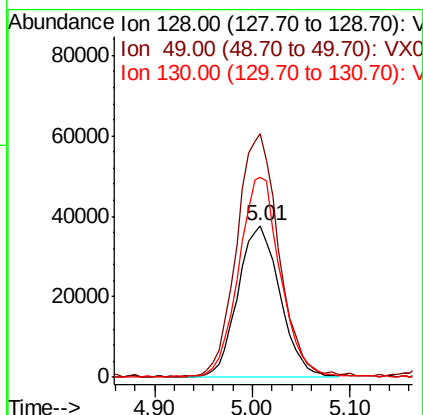
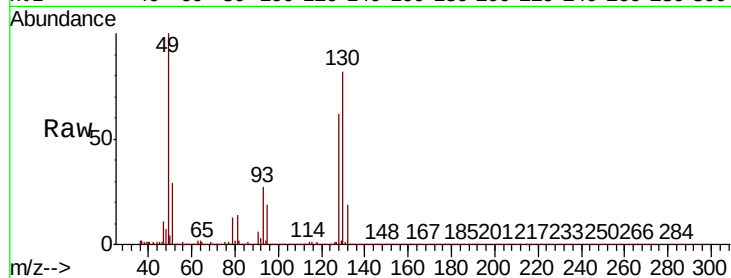




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.01 min
Lab File: VX013538.D
Acq: 22 Nov 2019 17:08

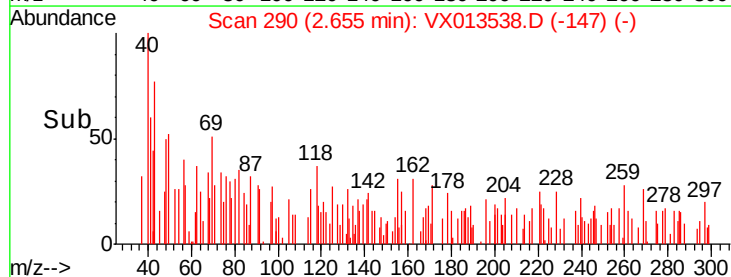
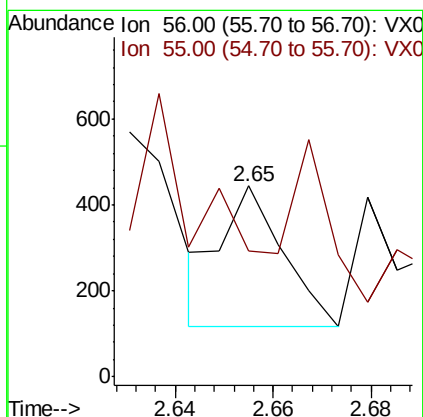
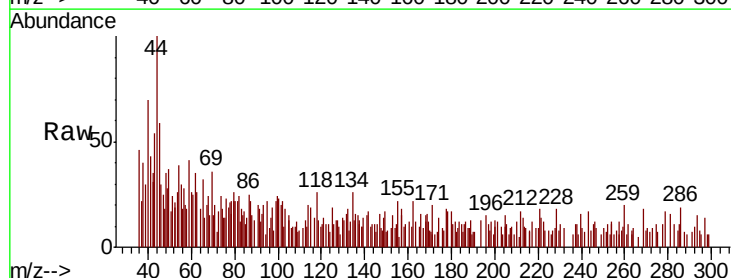
Instrument :
MSVOA_X
ClientSampled :
14B-4

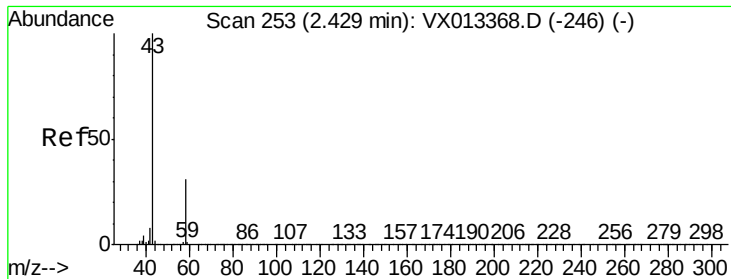
Tot Ion:128 Resp: 113560
Ion Ratio Lower Upper
128 100
49 157.7 0.0 388.3
130 129.9 0.0 318.5



#13
Acrolein
Concen: 0.217 ug/l
RT: 2.65 min Scan# 290
Delta R.T. 0.37 min
Lab File: VX013538.D
Acq: 22 Nov 2019 17:08

Tgt Ion: 56 Resp: 283
Ion Ratio Lower Upper
56 100
55 62.9 55.8 83.8

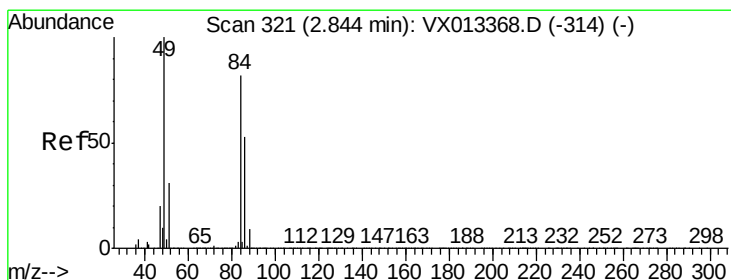
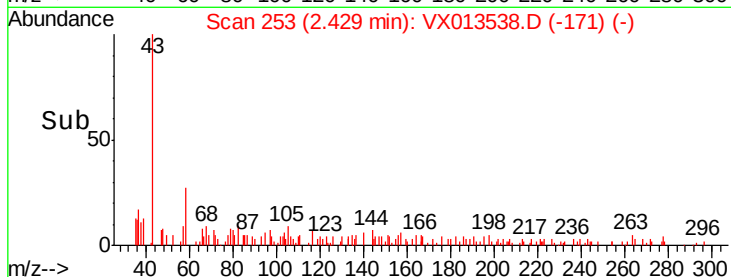
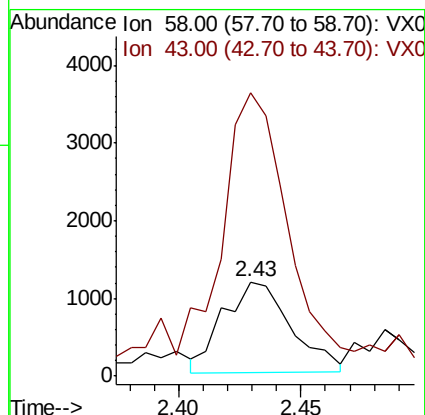
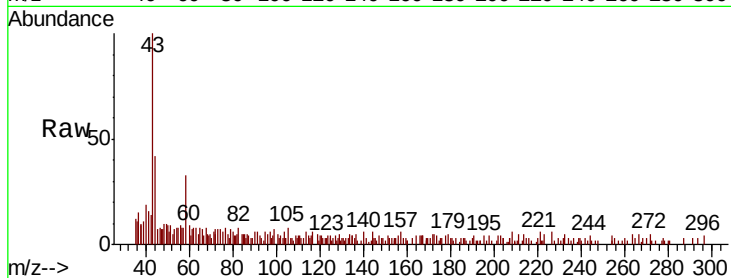




#15
Acetone
Concen: 1.645 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013538.D
Acq: 22 Nov 2019 17:08

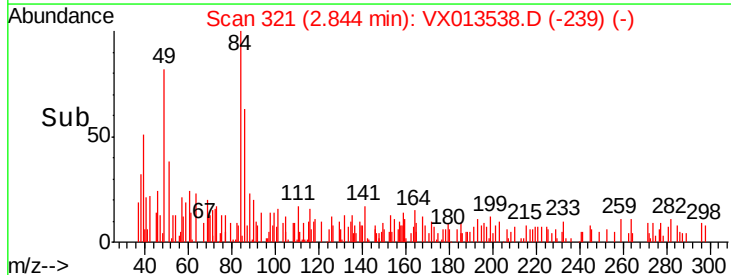
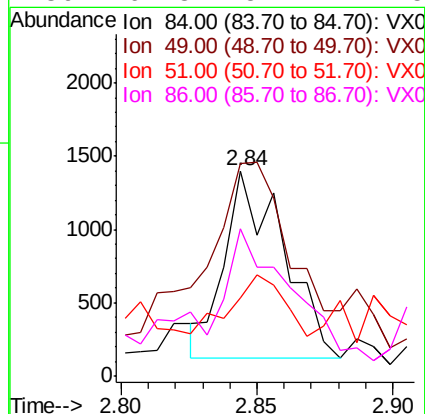
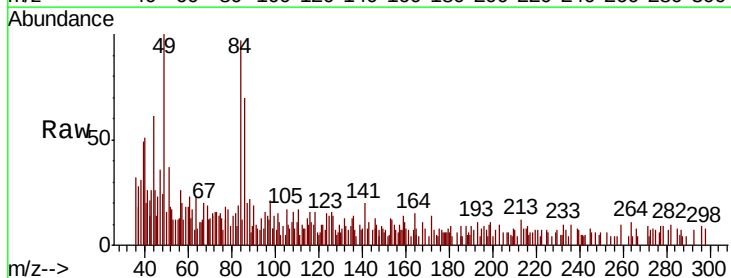
Instrument :
MSVOA_X
ClientSampleId :
14B-4

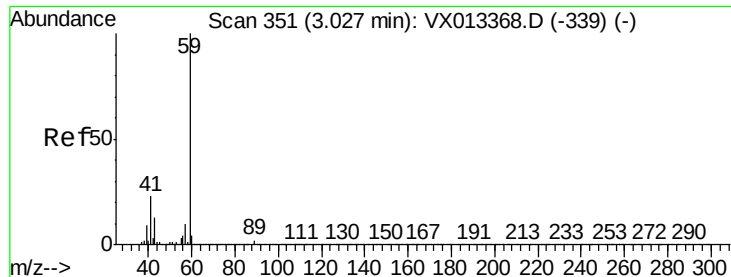
Tot Ion: 58 Resp: 2252
Ion Ratio Lower Upper
58 100
43 311.3 261.4 392.2



#18
Methylene Chloride
Concen: 0.242 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX013538.D
Acq: 22 Nov 2019 17:08

Tgt Ion: 84 Resp: 1926
Ion Ratio Lower Upper
84 100
49 78.8 96.8 145.2#
51 19.6 30.0 45.0#
86 64.8 51.7 77.5



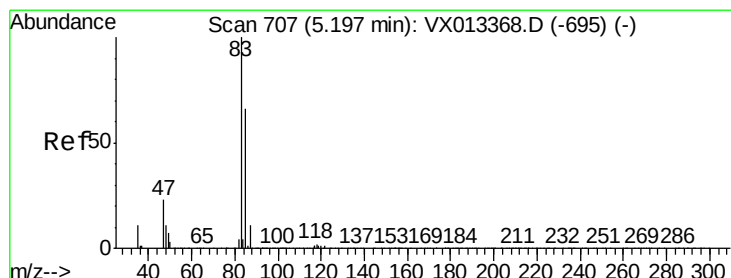
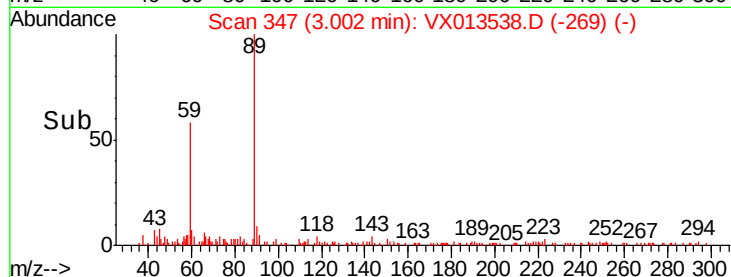
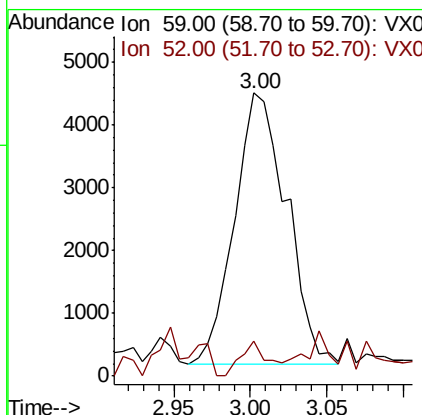
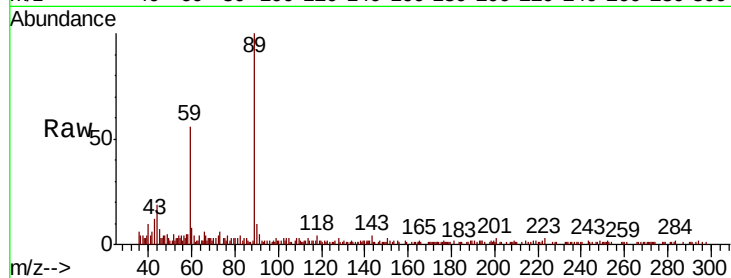


#23

tert-Butyl Alcohol
 Concen: 4.702 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.02 min
 Lab File: VX013538.D
 Acq: 22 Nov 2019 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-4

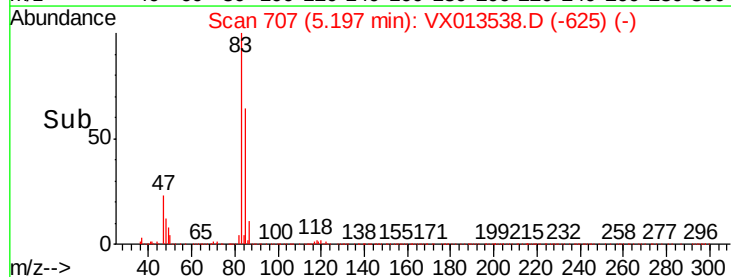
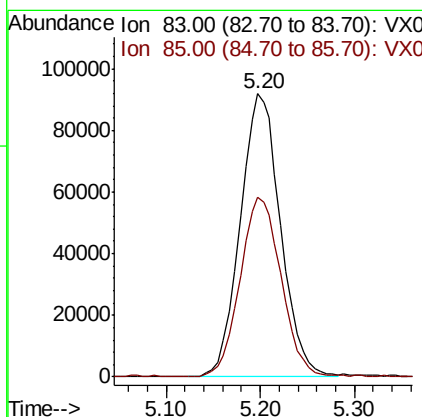
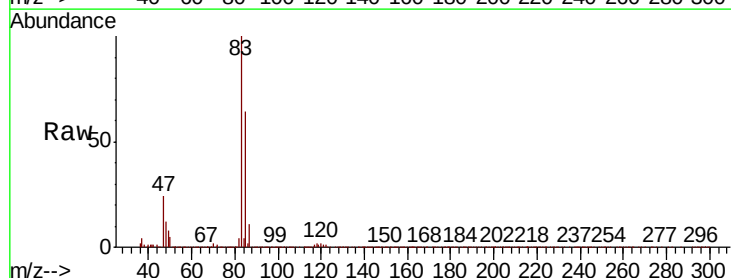
Tot Ion: 59 Resp: 10226
 Ion Ratio Lower Upper
 59 100
 52 6.7 0.1 0.1#

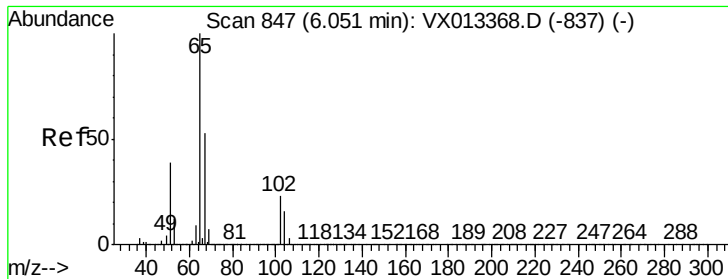


#25

Chloroform
 Concen: 20.666 ug/l
 RT: 5.20 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VX013538.D
 Acq: 22 Nov 2019 17:08

Tgt Ion: 83 Resp: 273770
 Ion Ratio Lower Upper
 83 100
 85 63.6 52.4 78.6

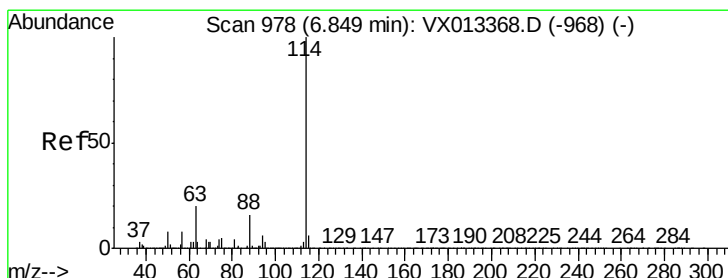
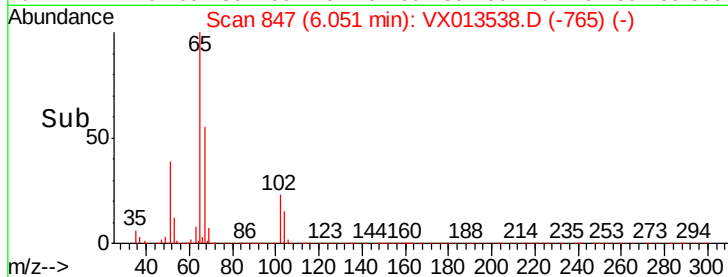
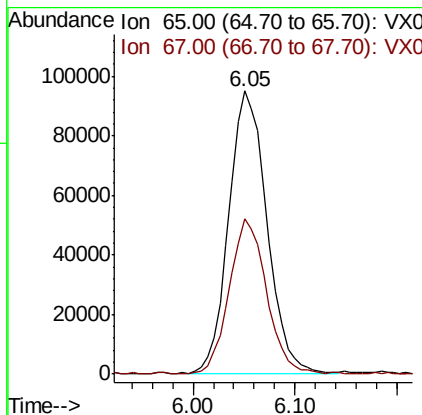
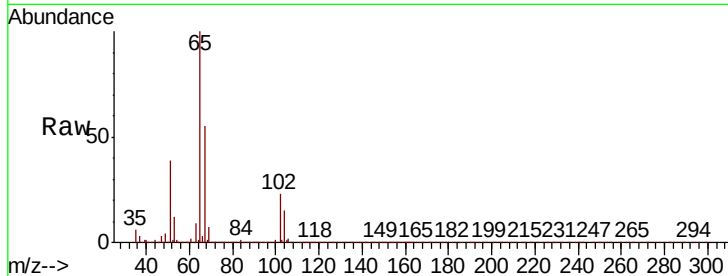




#27
 1,2-Dichloroethane-d4
 Concen: 29.282 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013538.D
 Acq: 22 Nov 2019 17:08

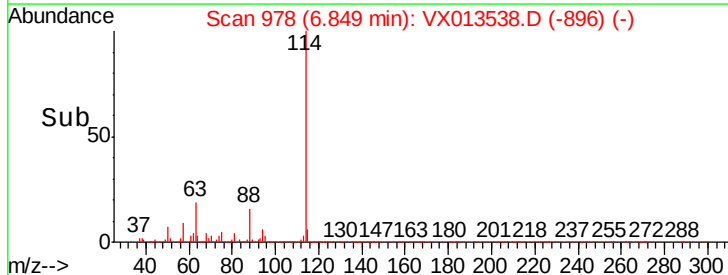
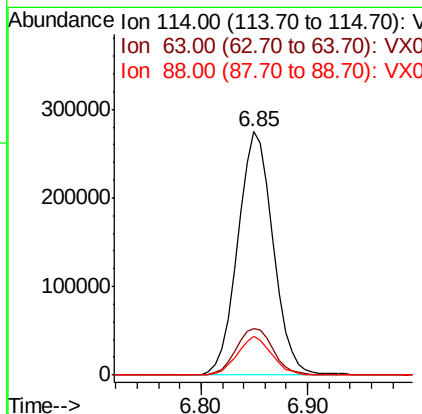
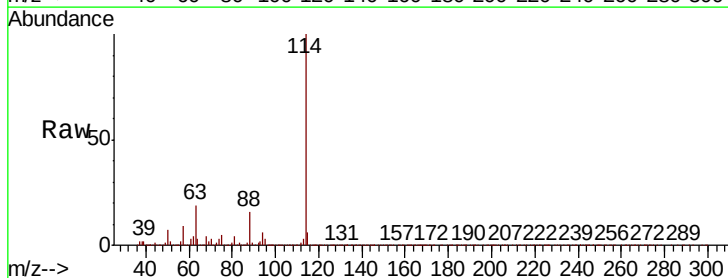
Instrument :
 MSVOA_X
 ClientSampled :
 14B-4

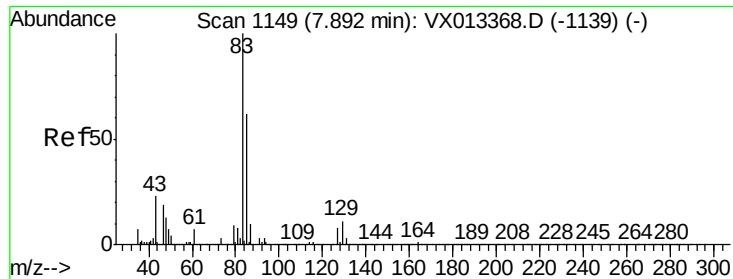
Tot Ion: 65 Resp: 245545
 Ion Ratio Lower Upper
 65 100
 67 53.4 41.0 61.6



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013538.D
 Acq: 22 Nov 2019 17:08

Tgt Ion: 114 Resp: 641538
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.1 24.1
 88 15.2 12.3 18.5





#41

Bromodichloromethane

Concen: 4.022 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013538.D

Acq: 22 Nov 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

14B-4

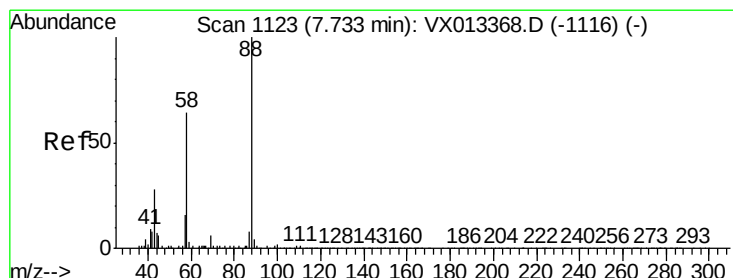
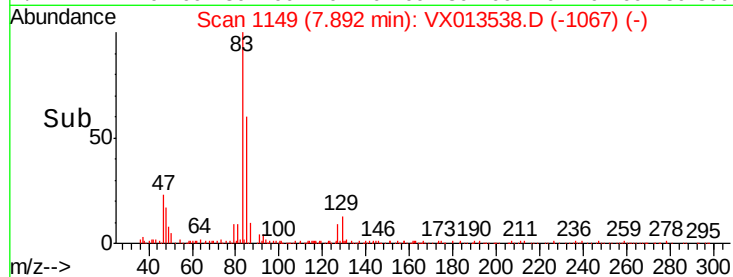
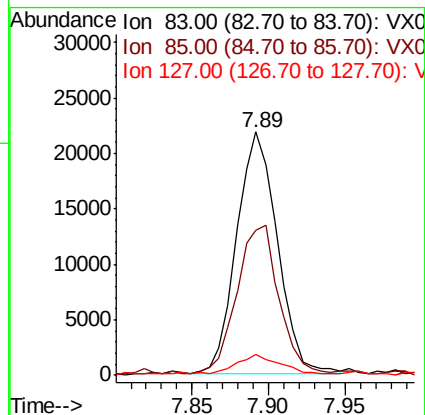
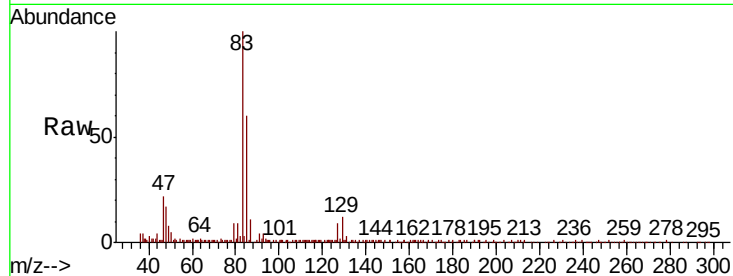
Tot Ion: 83 Resp: 40159

Ion Ratio Lower Upper

83 100

85 59.3 49.3 73.9

127 8.1 6.6 10.0



#45

1,4-Dioxane

Concen: 0.974 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013538.D

Acq: 22 Nov 2019 17:08

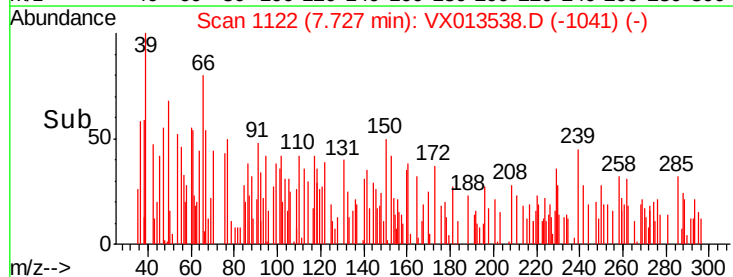
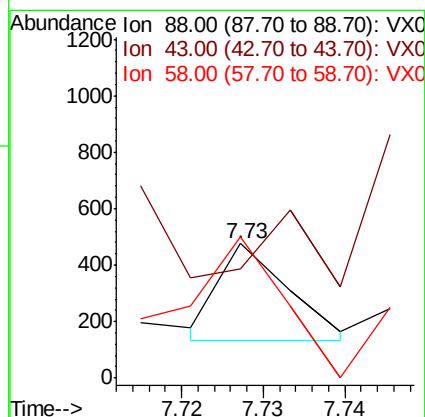
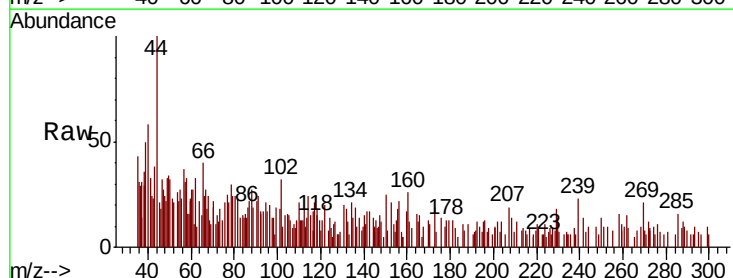
Tgt Ion: 88 Resp: 204

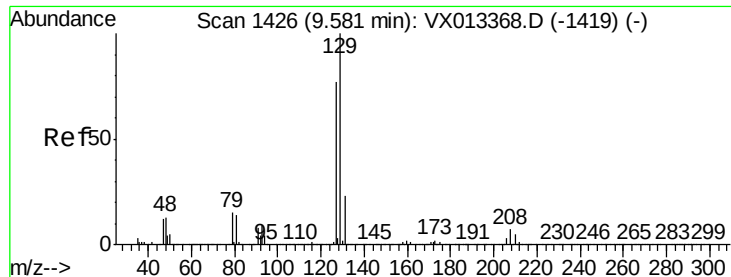
Ion Ratio Lower Upper

88 100

43 186.3 26.1 39.1#

58 181.4 55.8 83.8#





#53

Dibromochloromethane

Concen: 0.373 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. -0.00 min

Lab File: VX013538.D

Acq: 22 Nov 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

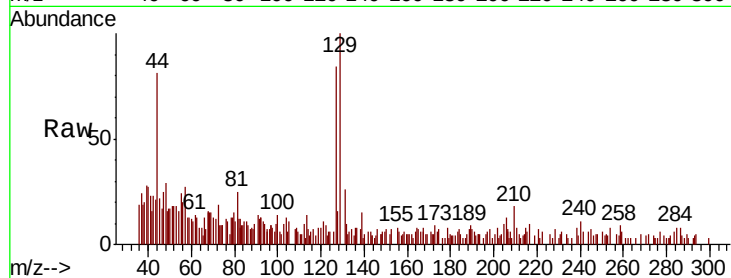
14B-4

Tot Ion:129 Resp: 2993

Ion Ratio Lower Upper

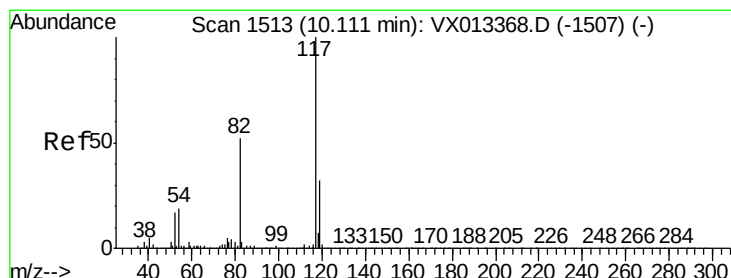
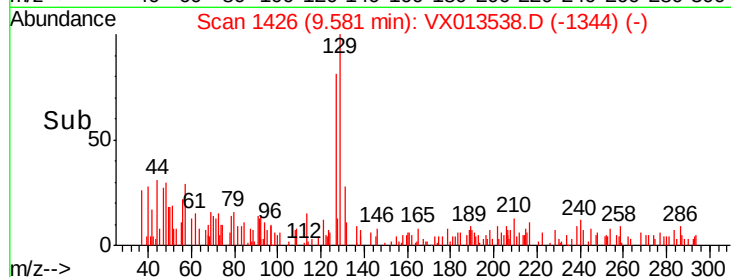
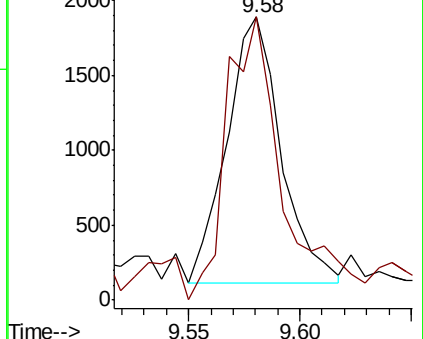
129 100

127 99.3 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013538.D

Acq: 22 Nov 2019 17:08

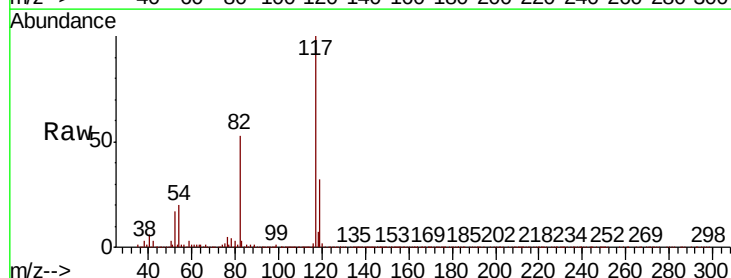
Tgt Ion:117 Resp: 554770

Ion Ratio Lower Upper

117 100

82 54.4 43.7 65.5

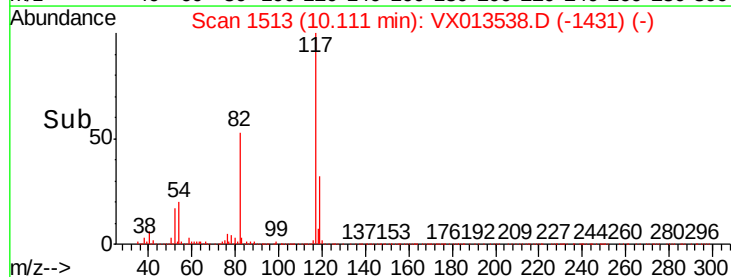
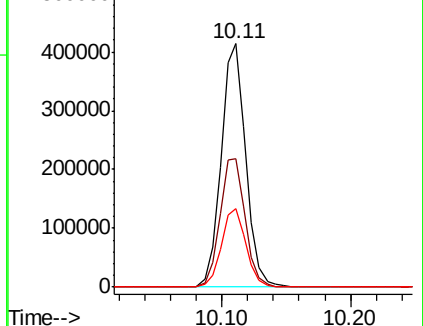
119 32.4 25.5 38.3

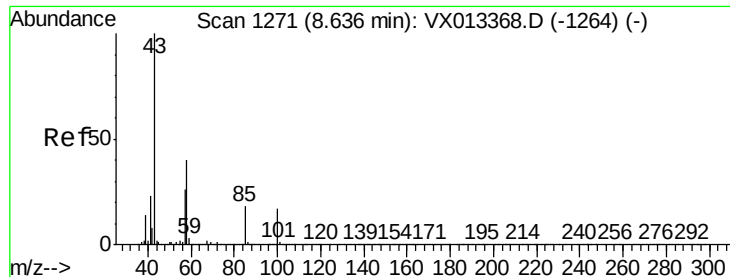


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

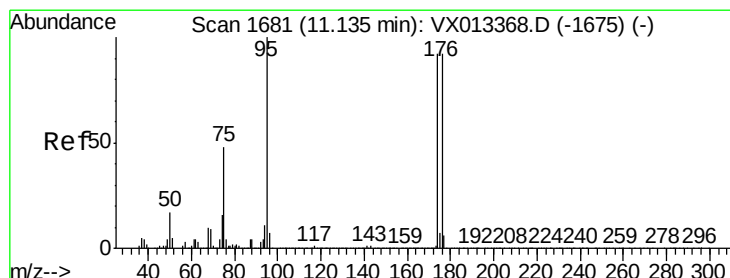
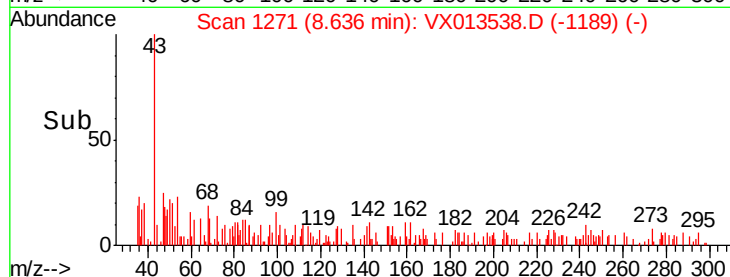
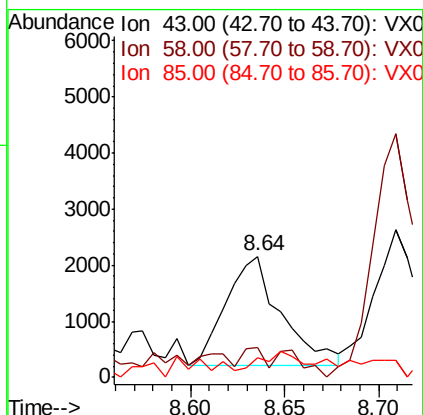
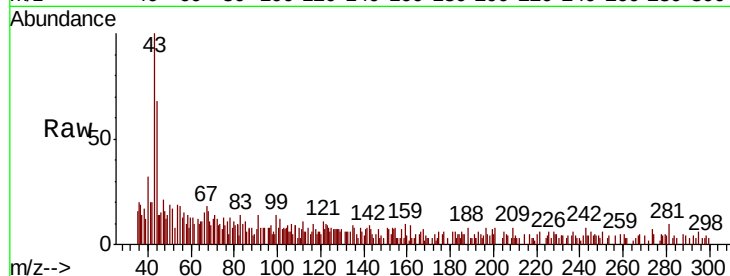




#58
 4-Methyl-2-Pentanone
 Concen: 0.340 ug/l
 RT: 8.64 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VX013538.D
 Acq: 22 Nov 2019 17:08

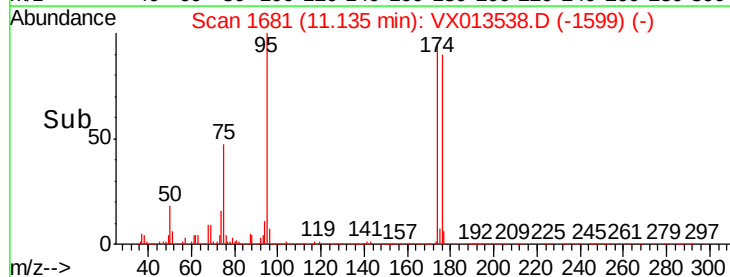
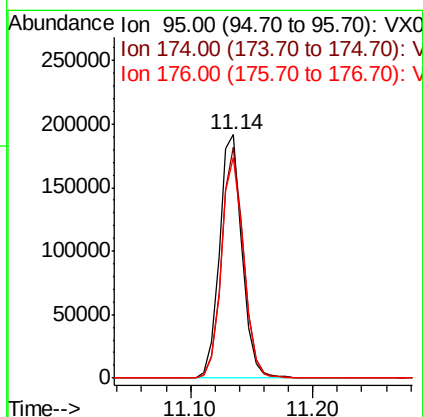
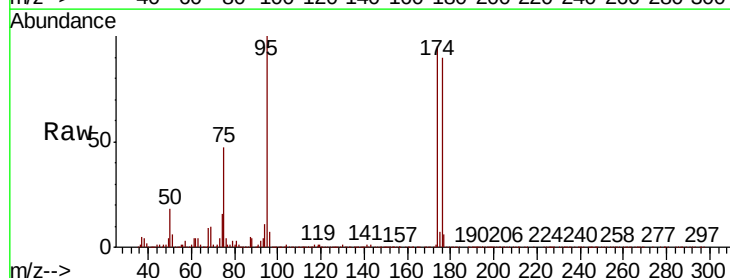
Instrument :
 MSVOA_X
 ClientSampled :
 14B-4

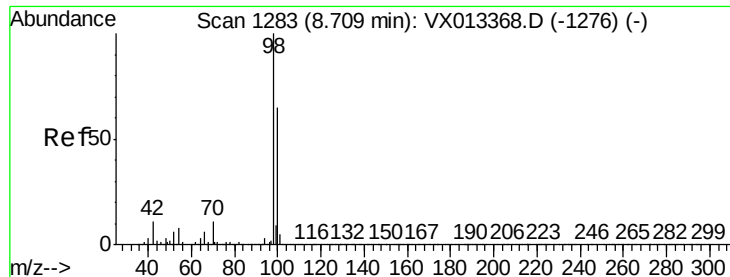
Tot Ion	Ratio	Lower	Upper
43	100		
58	8.3	31.6	47.4#
85	0.0	14.2	21.2#



#60
 4-Bromofluorobenzene
 Concen: 27.621 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.00 min
 Lab File: VX013538.D
 Acq: 22 Nov 2019 17:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.6	70.2	105.2
176	88.7	68.3	102.5





#63

Toluene-d8

Concen: 30.117 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013538.D

Acq: 22 Nov 2019 17:08

Instrument :

MSVOA_X

ClientSampled :

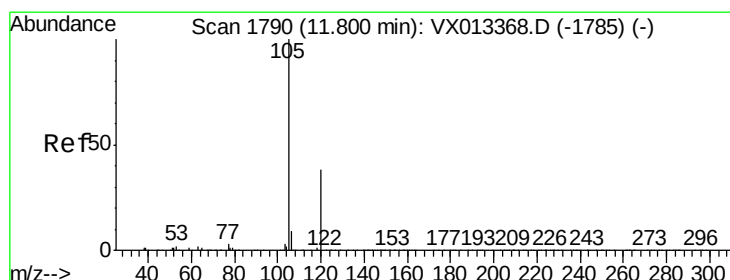
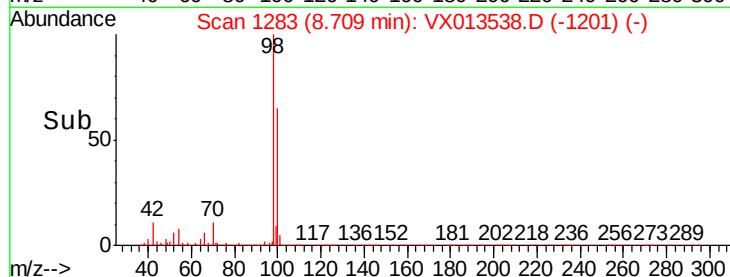
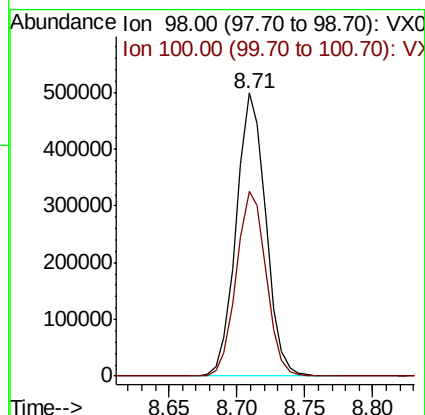
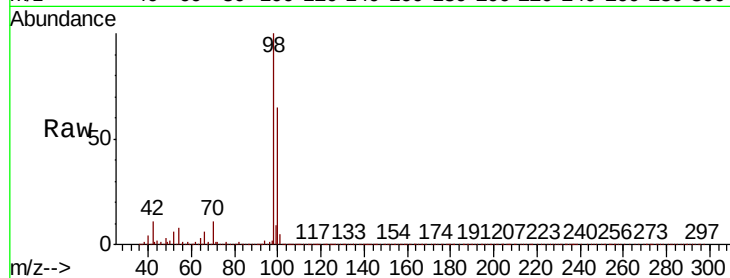
14B-4

Tot Ion: 98 Resp: 755535

Ion Ratio Lower Upper

98 100

100 66.0 52.5 78.7



#80

1,2,4-Trimethylbenzene

Concen: 0.239 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.01 min

Lab File: VX013538.D

Acq: 22 Nov 2019 17:08

Tgt Ion:105 Resp: 6668

Ion Ratio Lower Upper

105 100

120 46.3 0.0 94.0

