

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013164.D
 Acq On : 21 Oct 2019 20:00
 Operator : JC/SP
 Sample : K5441-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OF-3

Quant Time: Oct 22 02:00:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	25344	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.85	114	144742	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	129092	30.00	ug/l	0.00

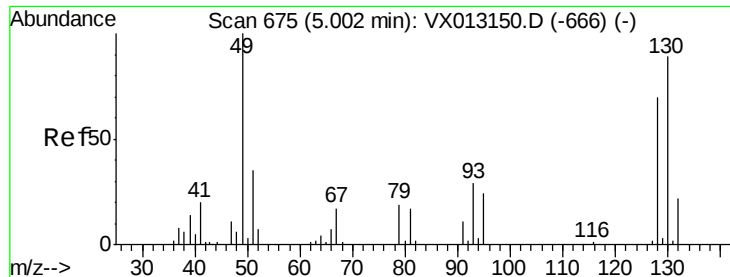
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	60409	30.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.93%
60) 4-Bromofluorobenzene	11.14	95	61023	27.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.50%
63) Toluene-d8	8.71	98	167718	29.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.37%

Target Compounds

					Ovalue
15) Acetone	2.43	58	1558	5.632	ug/l 87
23) tert-Butyl Alcohol	3.03	59	1309	2.959	ug/l # 100
51) Ethyl methacrylate	8.71	69	571	0.217	ug/l 82
58) 4-Methyl-2-Pentanone	8.64	43	3138	1.443	ug/l # 95
77) t-1,4-Dichloro-2-butene	11.13	75	30488	36.950	ug/l # 9

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX013164.D

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MSVOA_X

ClientSampleId :

OF-3

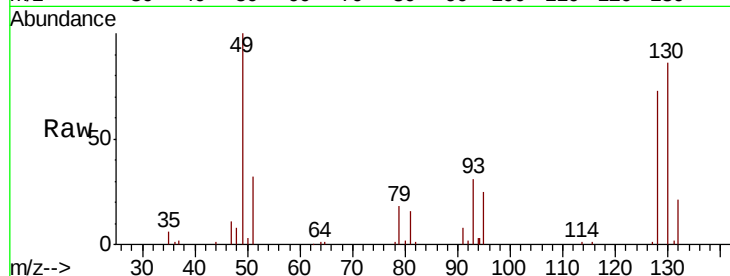
Tot Ion:128 Resp: 25344

Ion Ratio Lower Upper

128 100

49 146.5 0.0 367.3

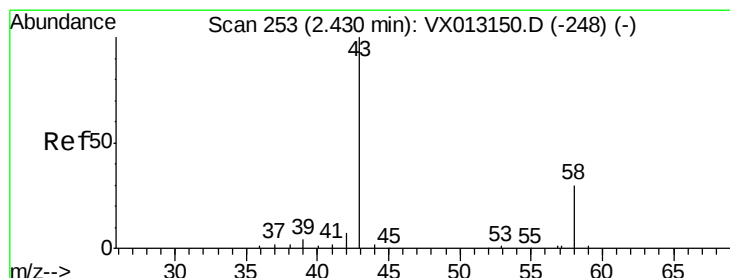
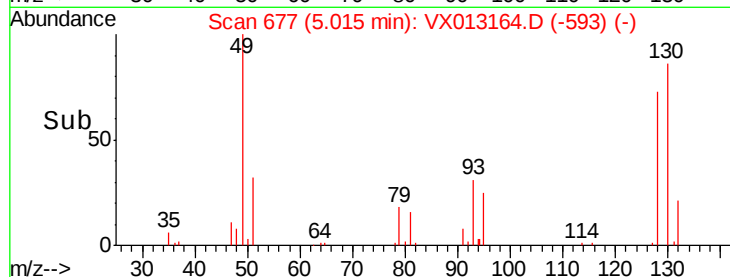
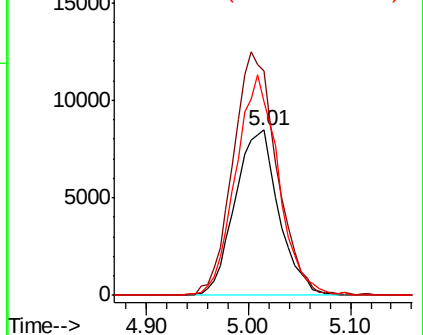
130 129.5 0.0 325.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 5.632 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013164.D

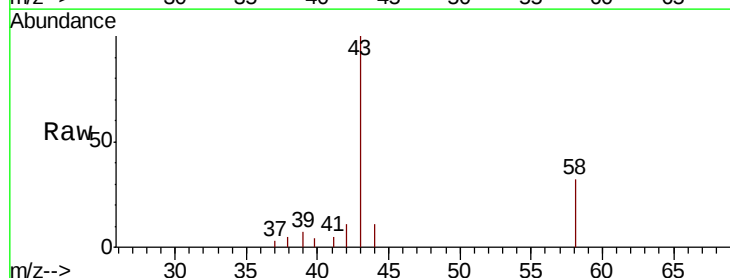
Acq: 21 Oct 2019 20:00

Tgt Ion: 58 Resp: 1558

Ion Ratio Lower Upper

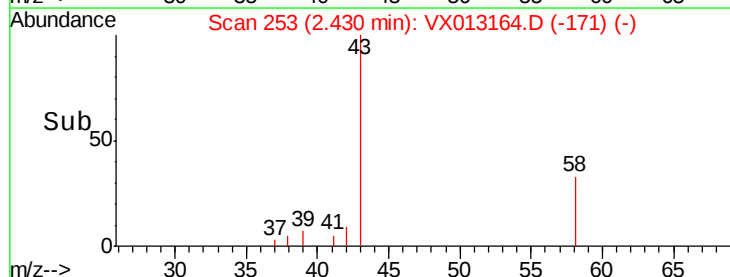
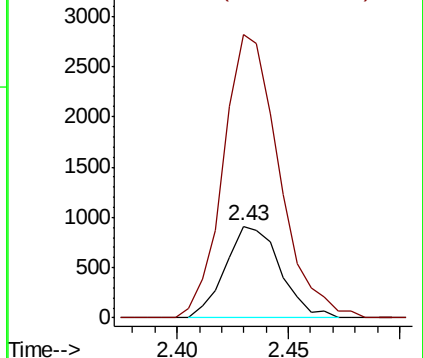
58 100

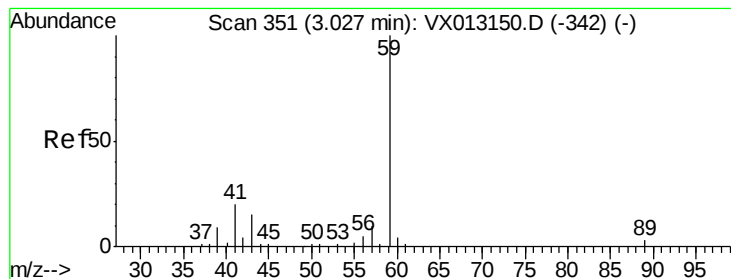
43 301.2 262.8 394.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#23

tert-Butyl Alcohol

Concen: 2.959 ug/l

RT: 3.03 min Scan# 352

Delta R.T. 0.01 min

Lab File: VX013164.D

Acq: 21 Oct 2019 20:00

Instrument :

MSVOA_X

ClientSampled :

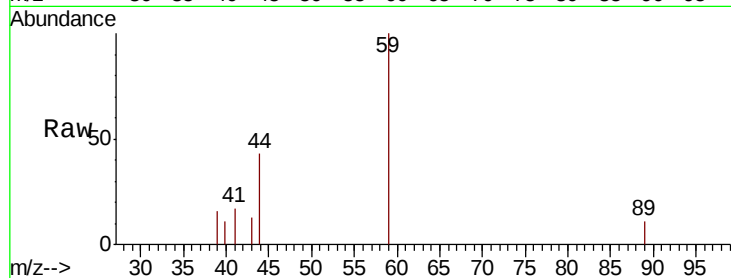
OF-3

Tot Ion: 59 Resp: 1309

Ion Ratio Lower Upper

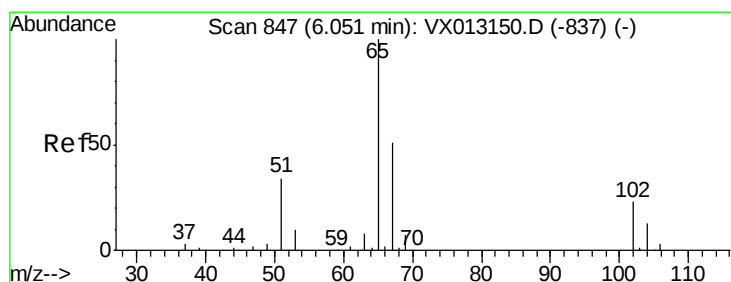
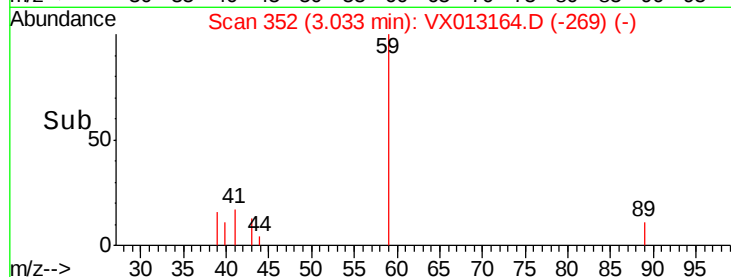
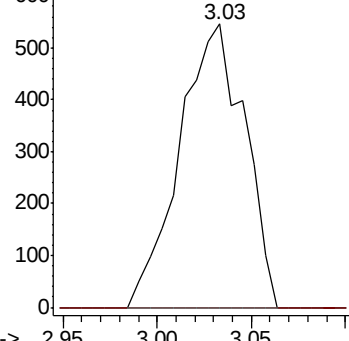
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.278 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013164.D

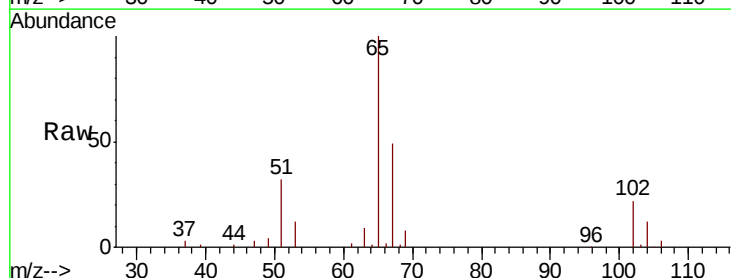
Acq: 21 Oct 2019 20:00

Tgt Ion: 65 Resp: 60409

Ion Ratio Lower Upper

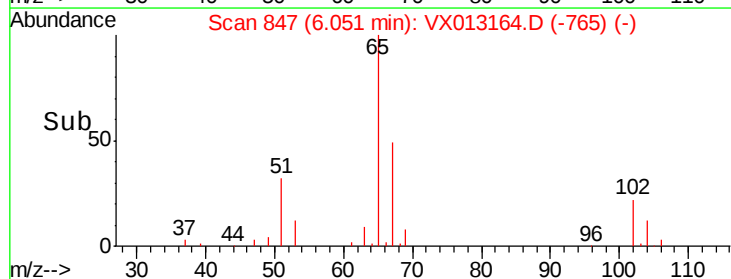
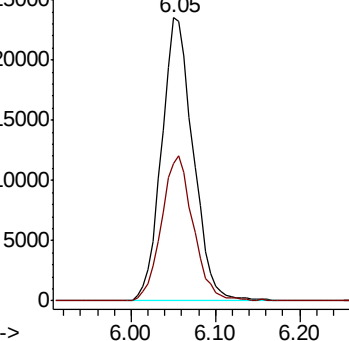
65 100

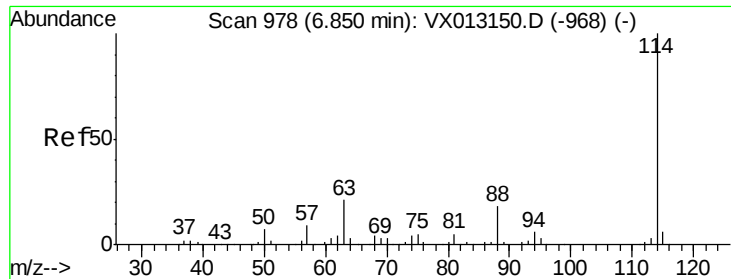
67 51.2 42.2 63.4



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

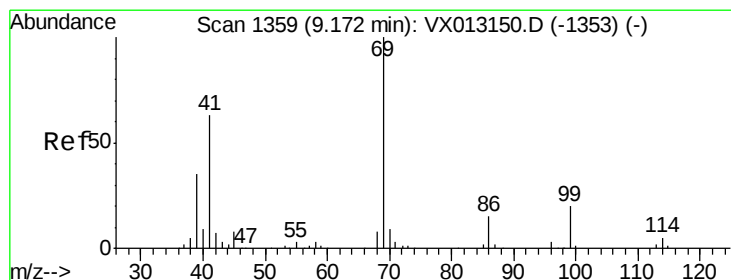
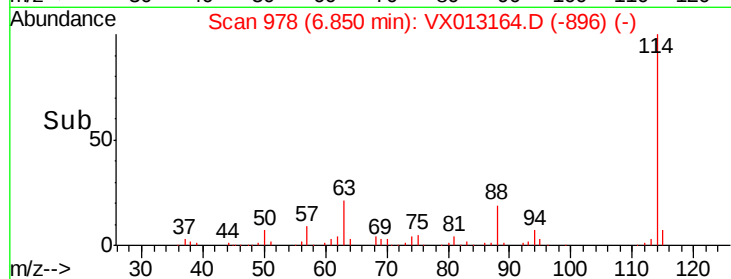
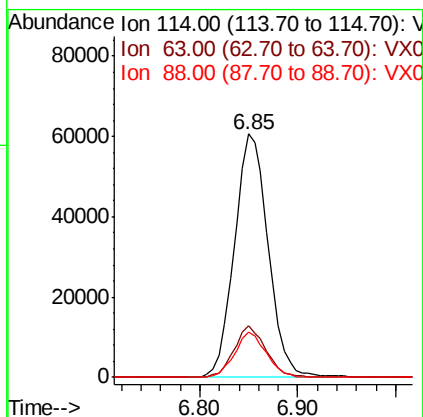
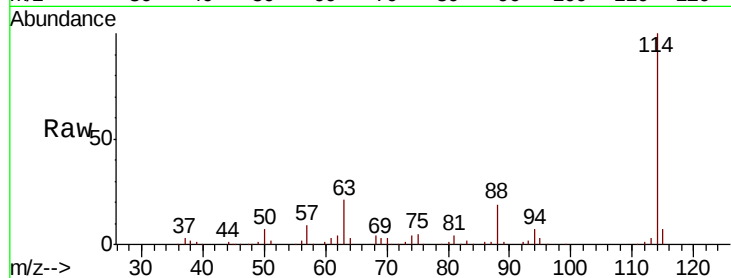




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013164.D
 Acq: 21 Oct 2019 20:00

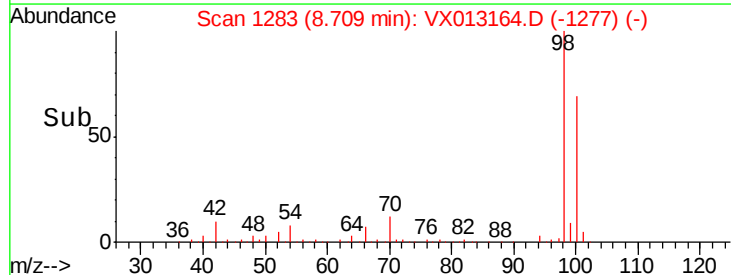
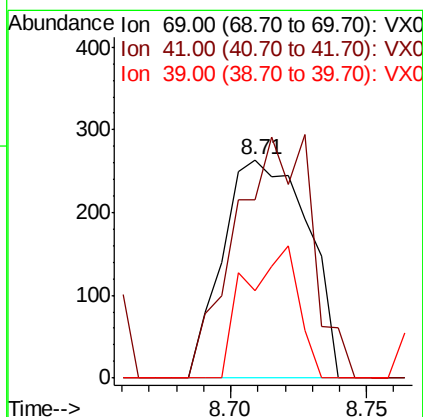
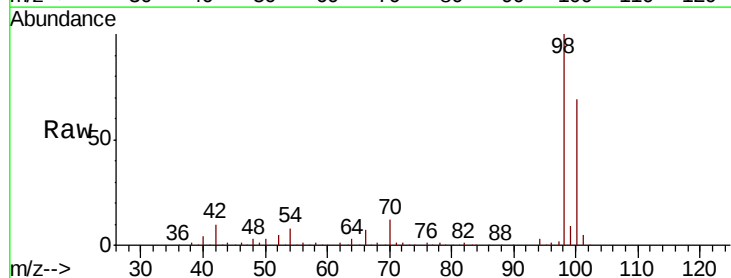
Instrument :
 MSVOA_X
 ClientSampleId :
 OF-3

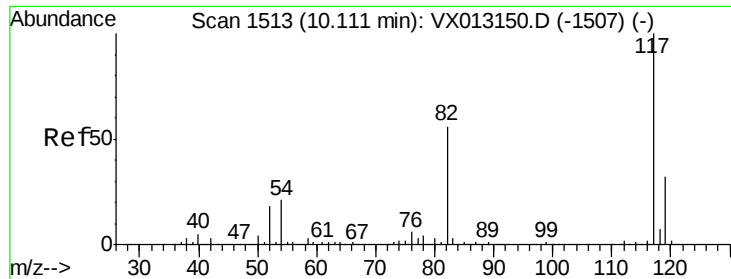
Tot Ion:114 Resp: 144742
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.1 24.1
 88 17.5 13.7 20.5



#51
 Ethyl methacrylate
 Concen: 0.217 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. -0.46 min
 Lab File: VX013164.D
 Acq: 21 Oct 2019 20:00

Tgt Ion: 69 Resp: 571
 Ion Ratio Lower Upper
 69 100
 41 81.8 31.6 95.0
 39 40.2 17.7 53.1

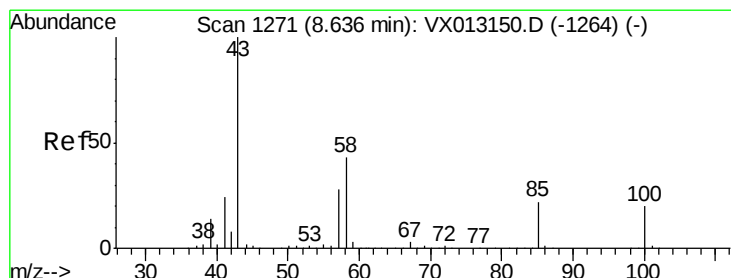
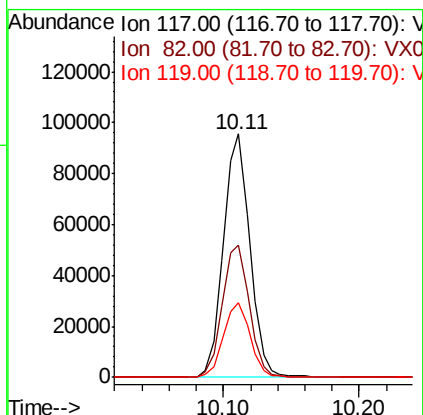
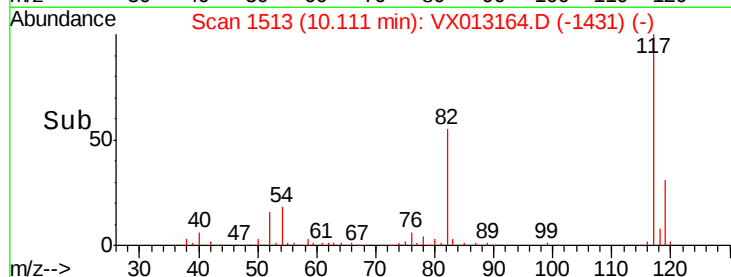
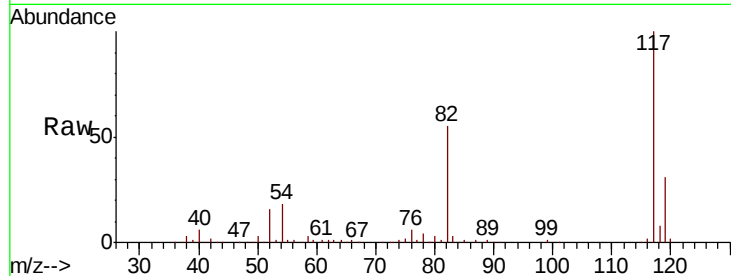




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013164.D
Acq: 21 Oct 2019 20:00

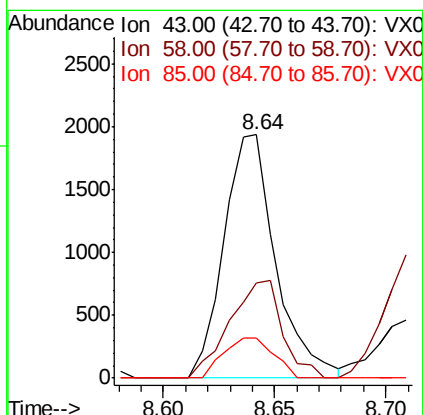
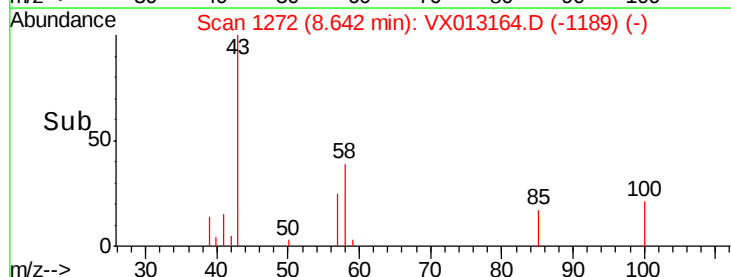
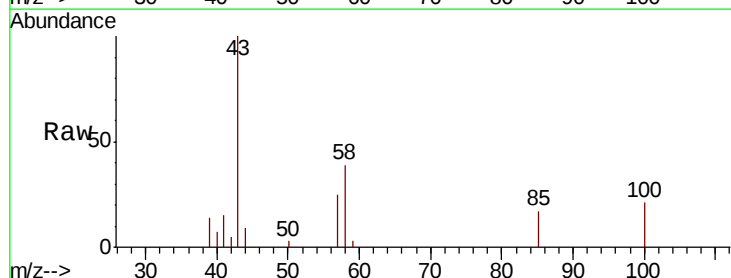
Instrument :
MSVOA_X
ClientSampleId :
OF-3

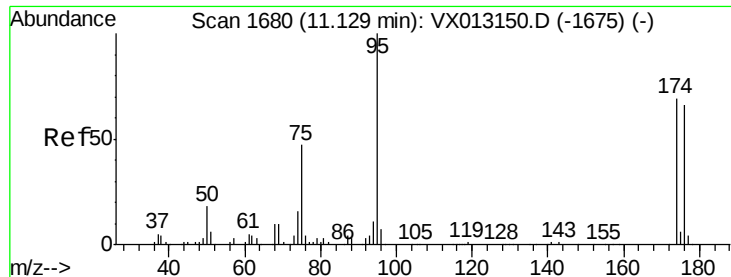
Tot Ion:117 Resp: 129092
Ion Ratio Lower Upper
117 100
82 55.8 46.0 69.0
119 31.1 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 1.443 ug/l
RT: 8.64 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VX013164.D
Acq: 21 Oct 2019 20:00

Tgt Ion: 43 Resp: 3138
Ion Ratio Lower Upper
43 100
58 40.7 33.8 50.8
85 15.8 16.8 25.2#

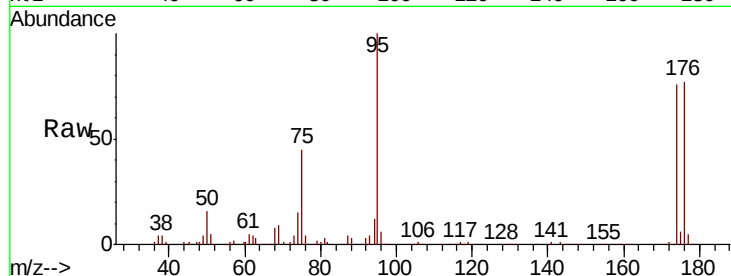




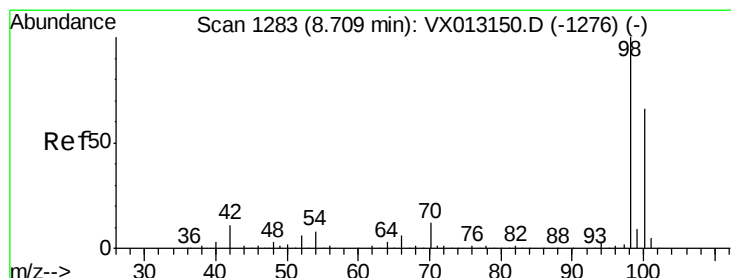
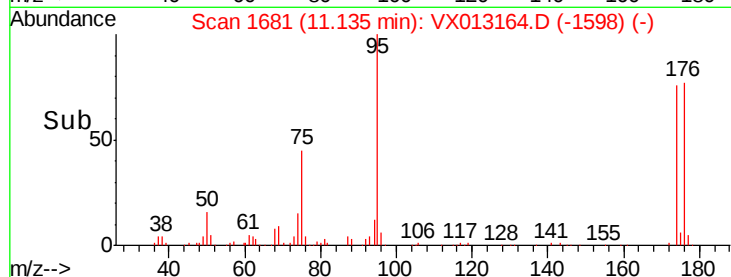
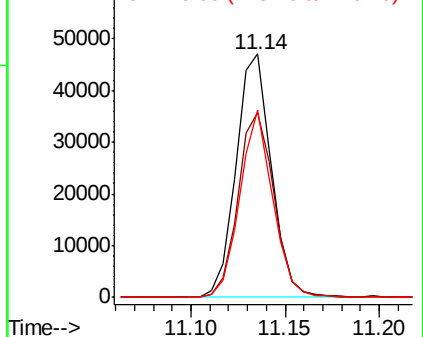
#60
 4-Bromofluorobenzene
 Concen: 27.147 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.01 min
 Lab File: VX013164.D
 Acq: 21 Oct 2019 20:00

Instrument :
 MSVOA_X
 ClientSampleId :
 OF-3

Tot Ion: 95 Resp: 61023
 Ion Ratio Lower Upper
 95 100
 174 77.7 60.0 90.0
 176 71.9 58.5 87.7

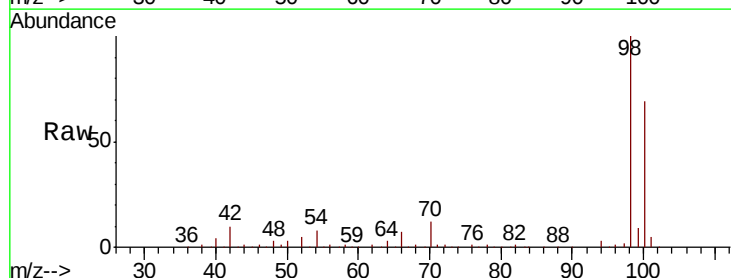


Abundance Ion 95.00 (94.70 to 95.70): VX0
 Ion 174.00 (173.70 to 174.70): V
 Ion 176.00 (175.70 to 176.70): V

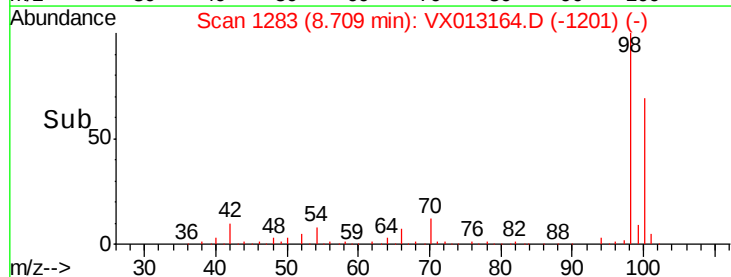
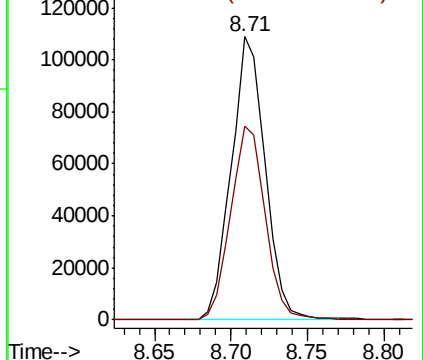


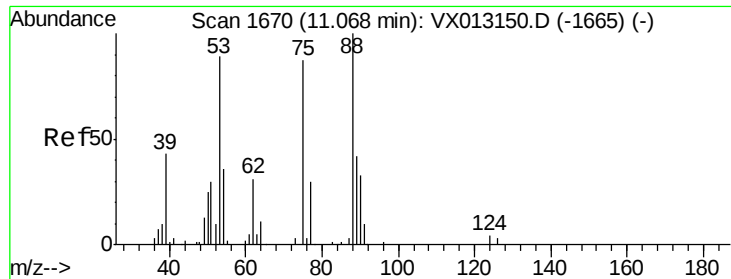
#63
 Toluene-d8
 Concen: 29.211 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VX013164.D
 Acq: 21 Oct 2019 20:00

Tgt Ion: 98 Resp: 167718
 Ion Ratio Lower Upper
 98 100
 100 69.8 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#77
t-1,4-Dichloro-2-butene
Concen: 36.950 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013164.D
Acq: 21 Oct 2019 20:00

Instrument :
MSVOA_X
ClientSampleId :
OF-3

Tot Ion: 75 Resp: 30488
Ion Ratio Lower Upper
75 100
53 0.0 51.1 153.4#
89 0.0 24.1 72.4#

