

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013163.D
 Acq On : 21 Oct 2019 19:37
 Operator : JC/SP
 Sample : K5441-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OF-2

Quant Time: Oct 22 02:00:37 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	29735	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	165803	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	146080	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	69038	29.49	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.30%
60) 4-Bromofluorobenzene	11.14	95	70508	27.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.40%
63) Toluene-d8	8.71	98	196885	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

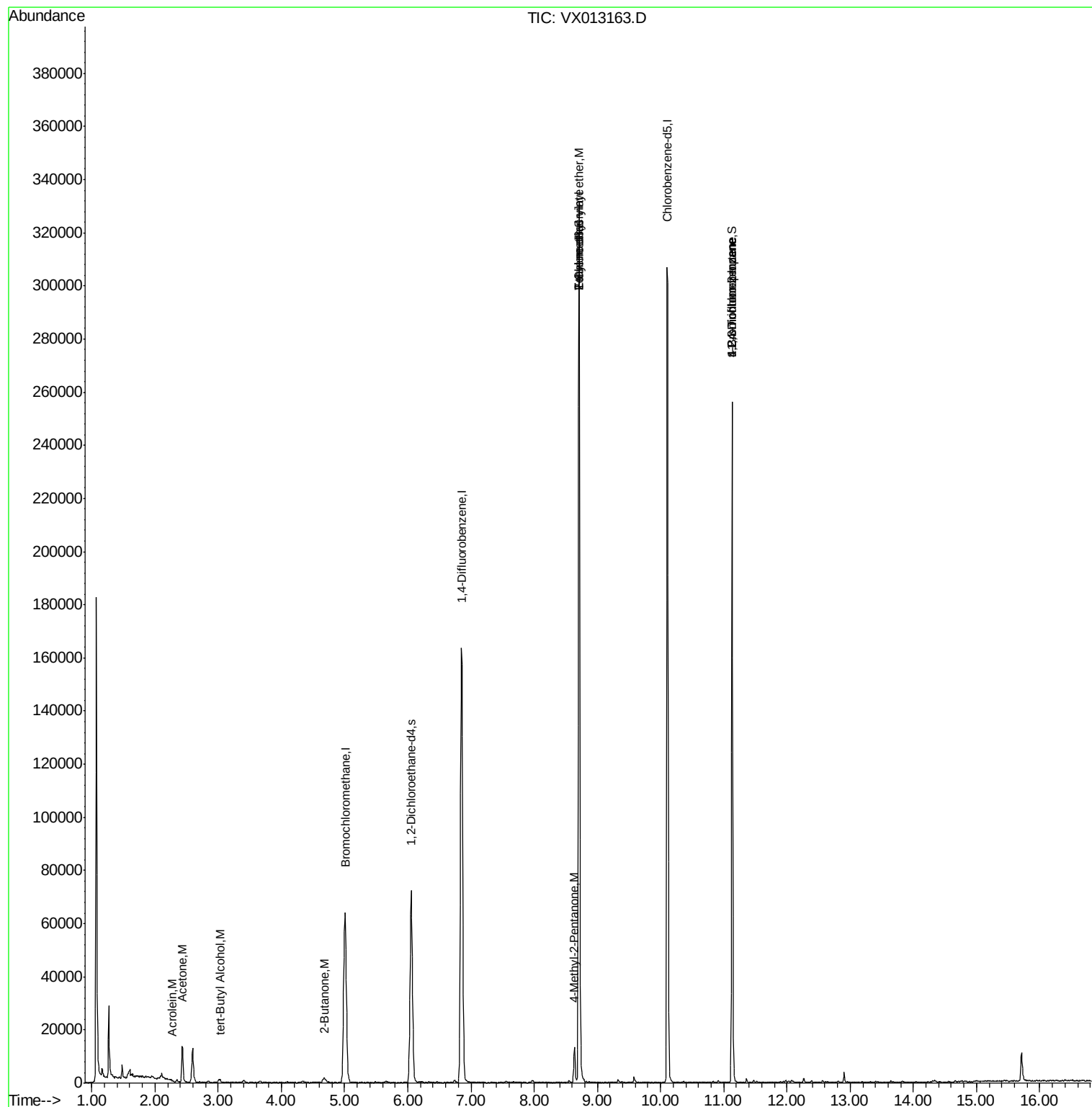
					Ovalue	
13) Acrolein	2.28	56	181	0.516	ug/l #	61
15) Acetone	2.43	58	4253	13.104	ug/l	100
23) tert-Butyl Alcohol	3.03	59	897	1.728	ug/l #	100
30) 2-Butanone	4.67	43	3149	2.331	ug/l #	90
51) Ethyl methacrylate	8.71	69	702	0.233	ug/l	85
55) 2-Chloroethyl vinyl ether	8.72	63	263	0.215	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	7891	3.206	ug/l	99
72) 1,2,3-Trichloropropane	11.14	75	35909	14.932	ug/l	40
77) t-1,4-Dichloro-2-butene	11.14	75	35909	38.458	ug/l #	9

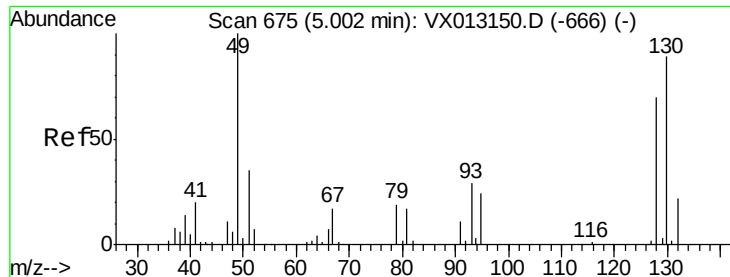
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OF-2

Quant Time: Oct 22 02:00:37 2019
Quant Method : Z:\V0ASRV\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

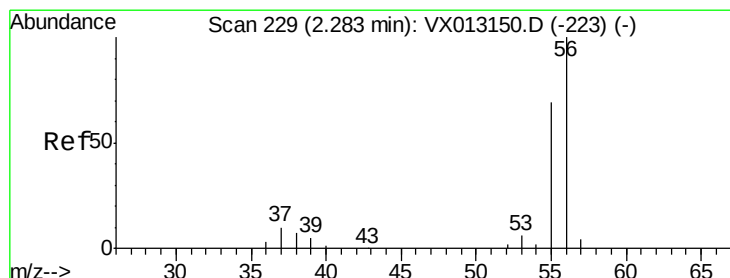
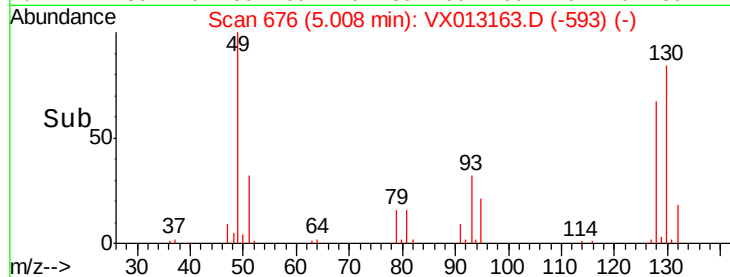
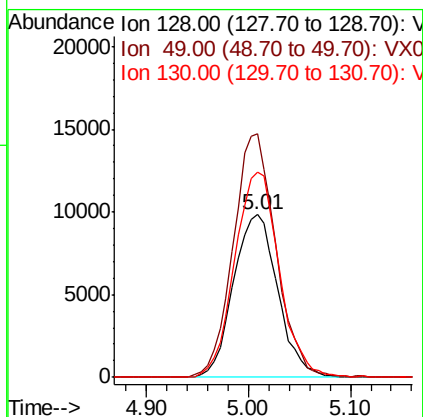
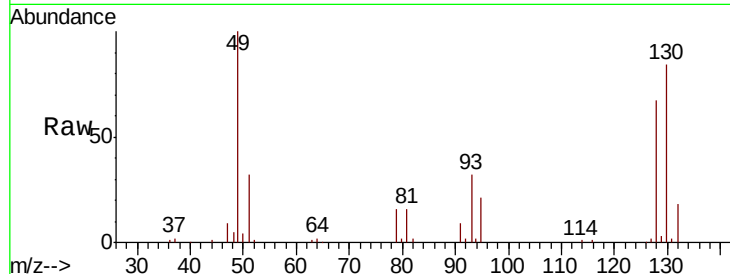




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.01 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VX013163.D
 Acq: 21 Oct 2019 19:37

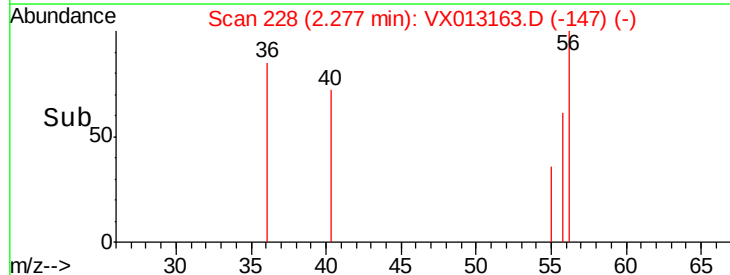
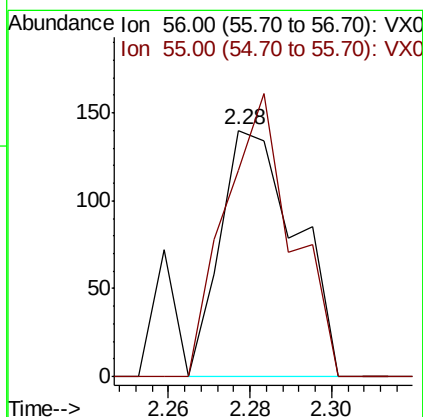
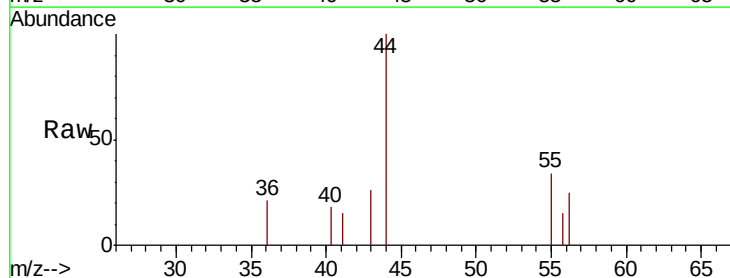
Instrument :
 MSVOA_X
 ClientSampleId :
 OF-2

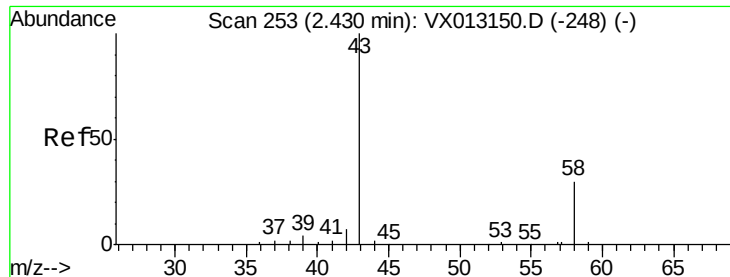
Tot Ion:128 Resp: 29735
 Ion Ratio Lower Upper
 128 100
 49 143.7 0.0 367.3
 130 126.6 0.0 325.0



#13
 Acrolein
 Concen: 0.516 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX013163.D
 Acq: 21 Oct 2019 19:37

Tgt Ion: 56 Resp: 181
 Ion Ratio Lower Upper
 56 100
 55 101.7 55.8 83.8#





#15

Acetone

Concen: 13.104 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013163.D

Acq: 21 Oct 2019 19:37

Instrument :

MSVOA_X

ClientSampleId :

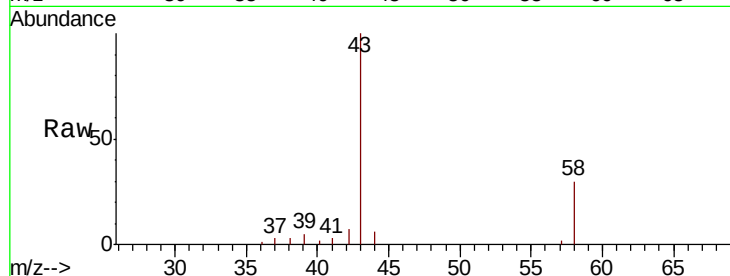
OF-2

Tot Ion: 58 Resp: 4253

Ion Ratio Lower Upper

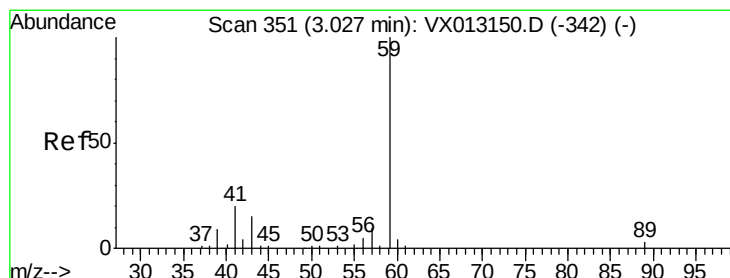
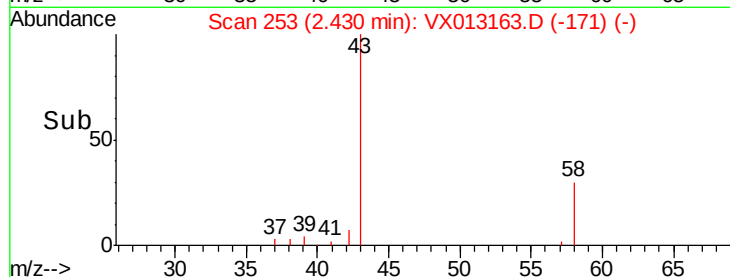
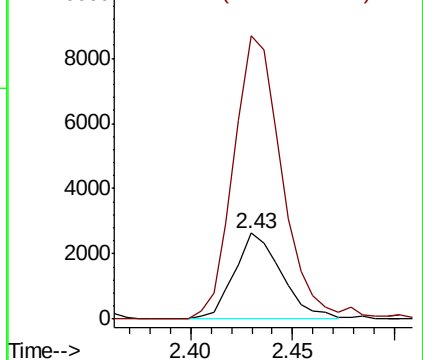
58 100

43 329.5 262.8 394.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#23

tert-Butyl Alcohol

Concen: 1.728 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.00 min

Lab File: VX013163.D

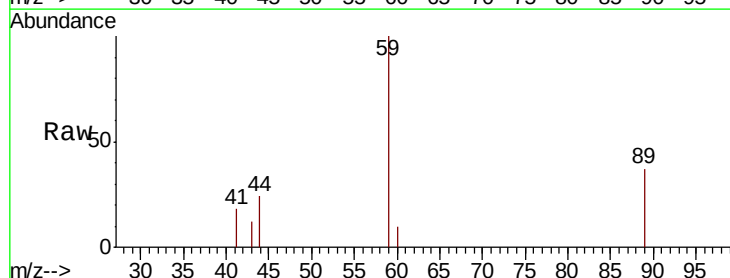
Acq: 21 Oct 2019 19:37

Tgt Ion: 59 Resp: 897

Ion Ratio Lower Upper

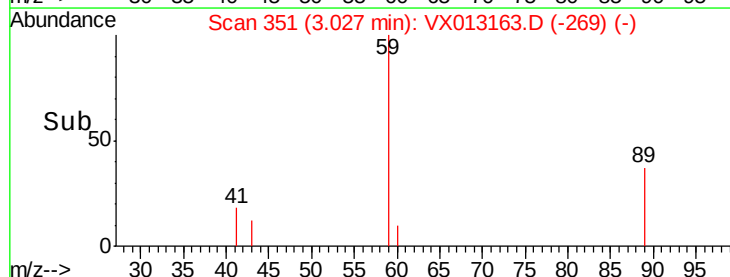
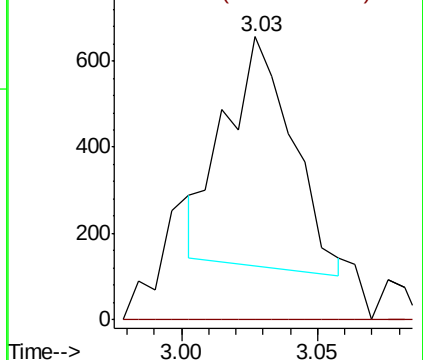
59 100

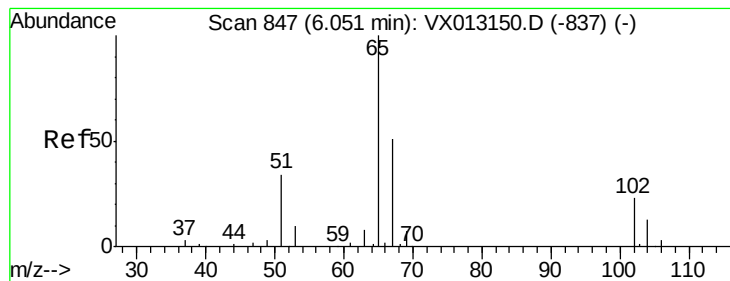
52 0.0 0.0 0.0



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: 29.494 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013163.D

Acq: 21 Oct 2019 19:37

Instrument :

MSVOA_X

ClientSampled :

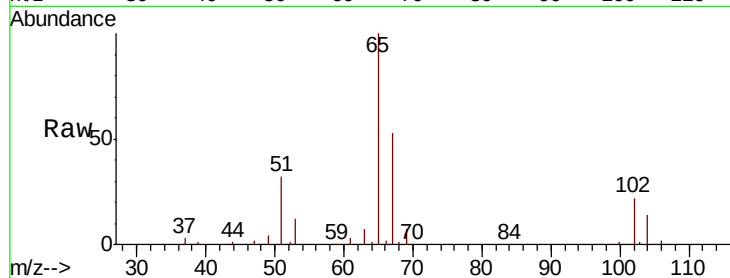
OF-2

Tot Ion: 65 Resp: 69038

Ion Ratio Lower Upper

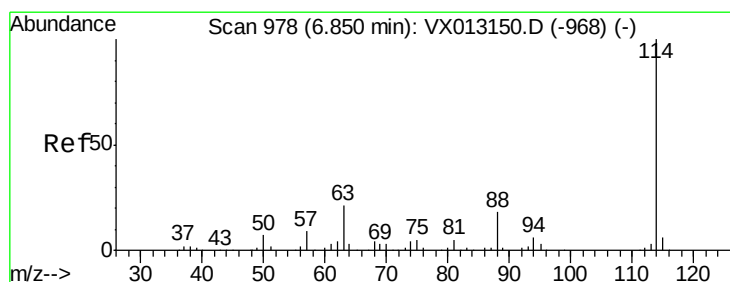
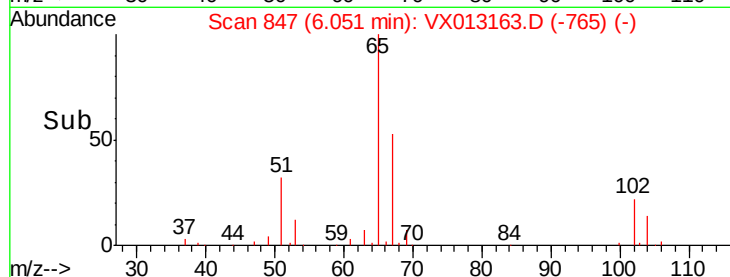
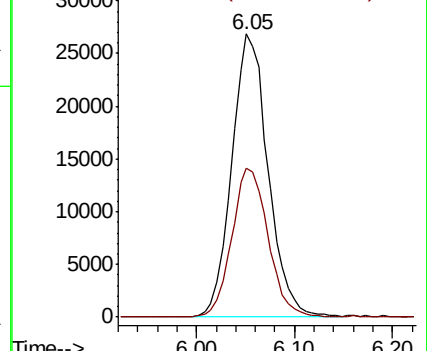
65 100

67 52.6 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: VX013163.D

Acq: 21 Oct 2019 19:37

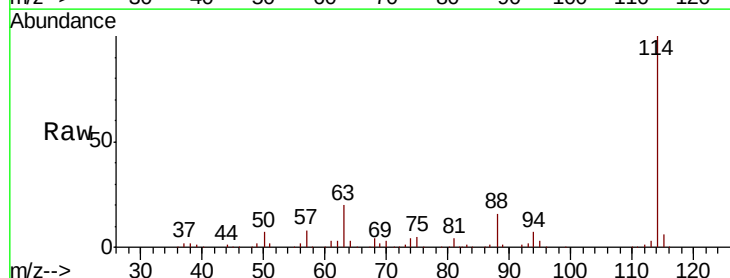
Tgt Ion: 114 Resp: 165803

Ion Ratio Lower Upper

114 100

63 20.5 16.1 24.1

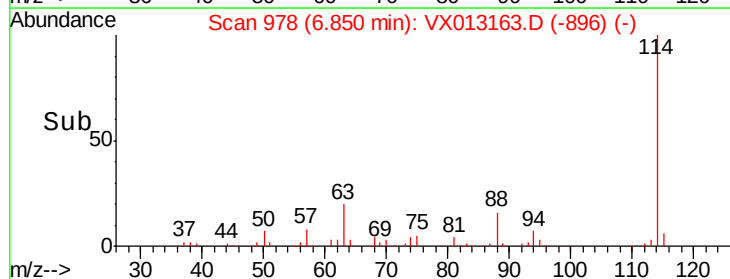
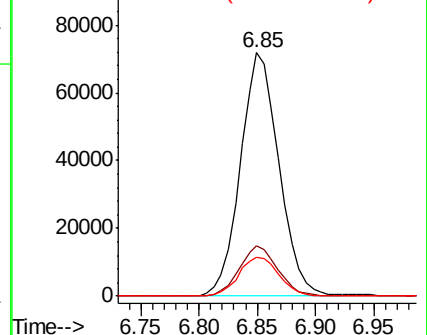
88 16.8 13.7 20.5

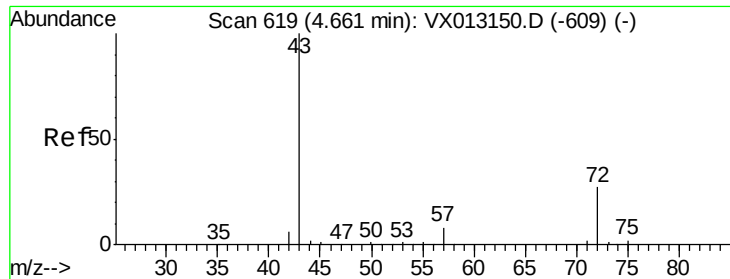


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

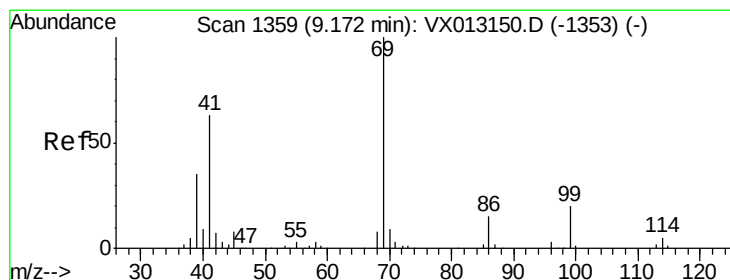
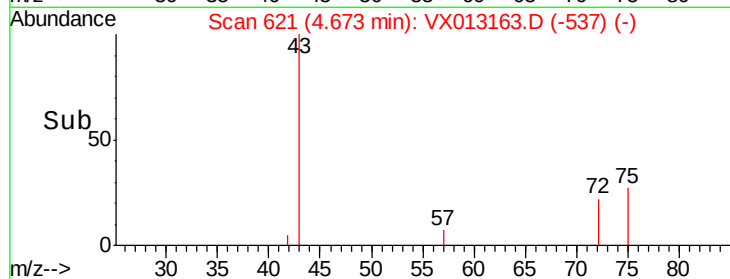
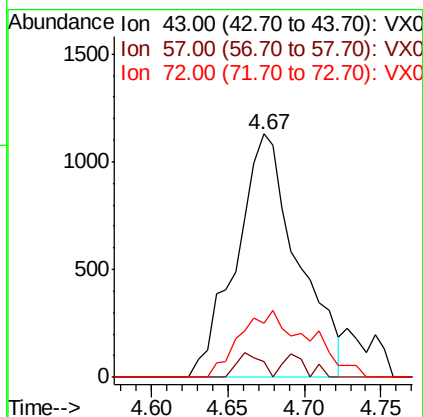
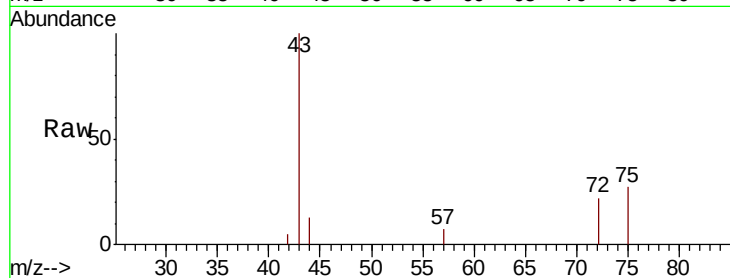




#30
2-Butanone
Concen: 2.331 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX013163.D
Acq: 21 Oct 2019 19:37

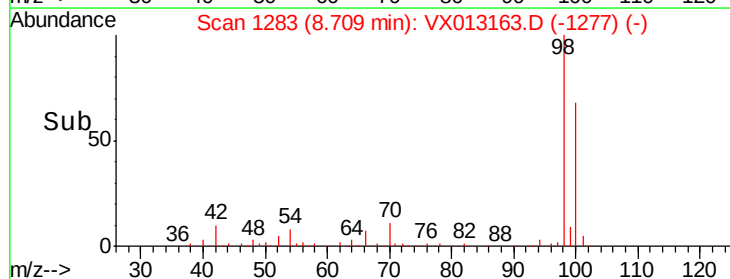
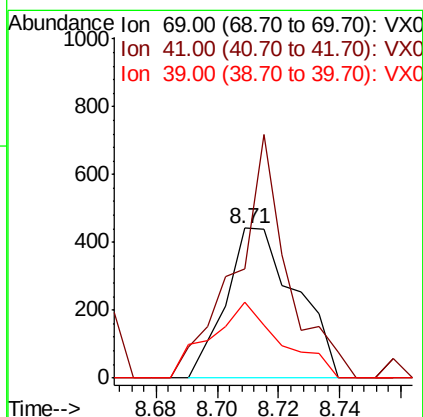
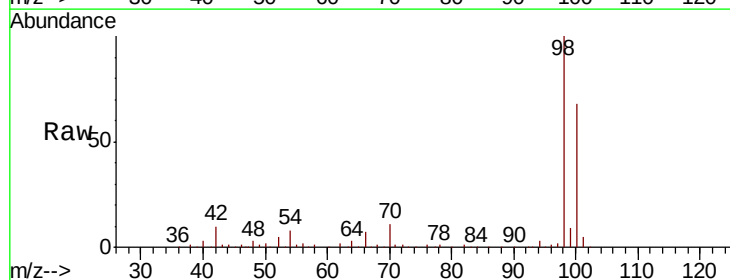
Instrument :
MSVOA_X
ClientSampled :
OF-2

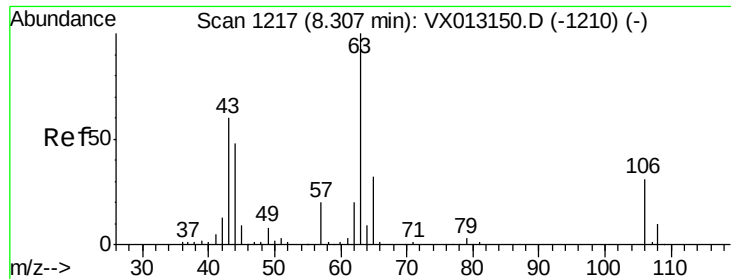
Tot Ion: 43 Resp: 3149
Ion Ratio Lower Upper
43 100
57 2.9 7.0 10.6#
72 25.2 23.4 35.2



#51
Ethyl methacrylate
Concen: 0.233 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.46 min
Lab File: VX013163.D
Acq: 21 Oct 2019 19:37

Tgt Ion: 69 Resp: 702
Ion Ratio Lower Upper
69 100
41 55.7 31.6 95.0
39 50.2 17.7 53.1

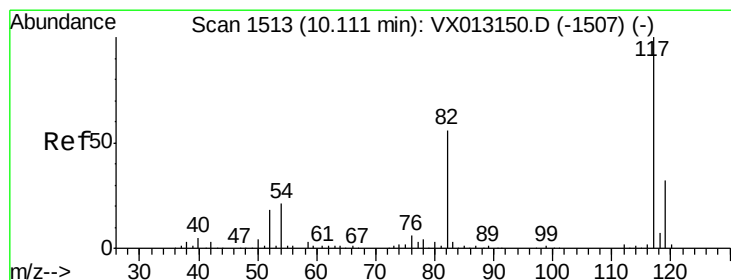
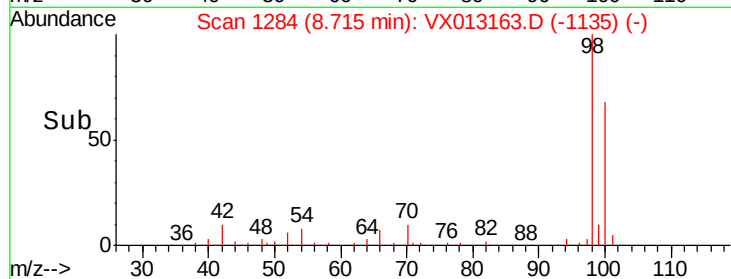
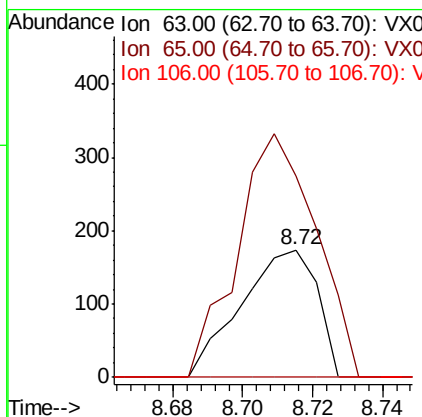
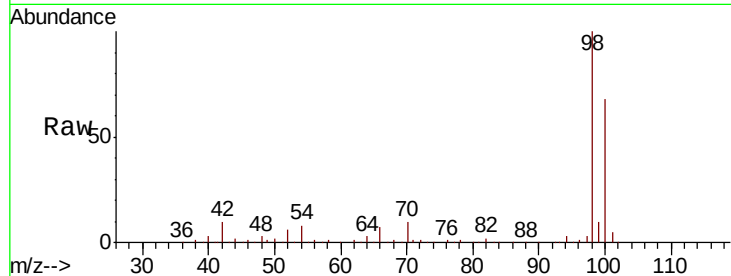




#55
2-Chloroethyl vinyl ether
Concen: 0.215 ug/l
RT: 8.72 min Scan# 1284
Delta R.T. 0.41 min
Lab File: VX013163.D
Acq: 21 Oct 2019 19:37

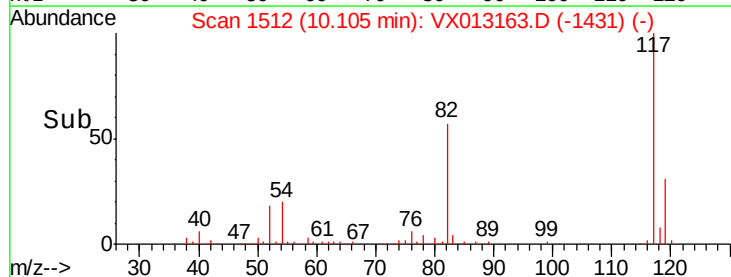
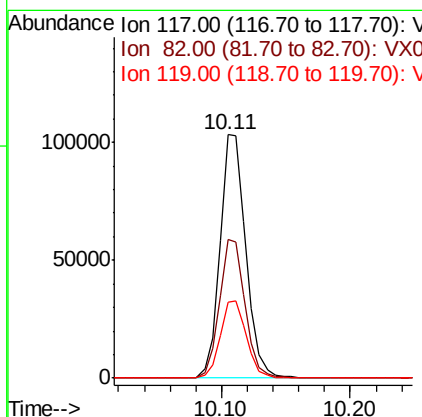
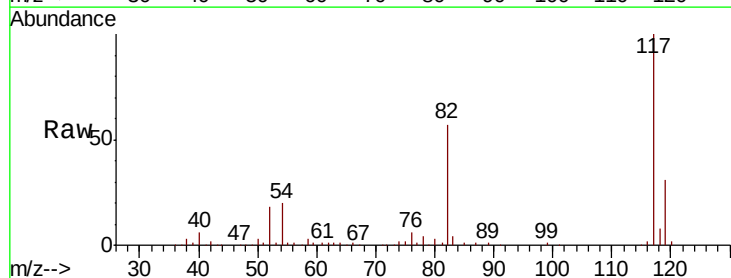
Instrument :
MSVOA_X
ClientSampleId :
OF-2

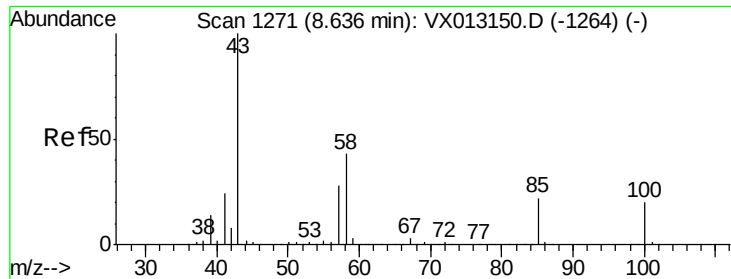
Tot Ion: 63 Resp: 263
Ion Ratio Lower Upper
63 100
65 197.0 25.5 38.3#
106 0.0 24.8 37.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013163.D
Acq: 21 Oct 2019 19:37

Tgt Ion: 117 Resp: 146080
Ion Ratio Lower Upper
117 100
82 56.7 46.0 69.0
119 32.2 25.4 38.0

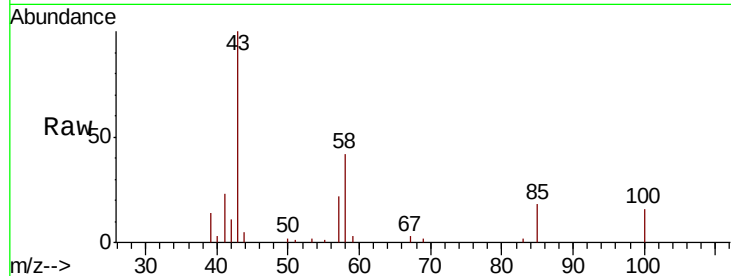




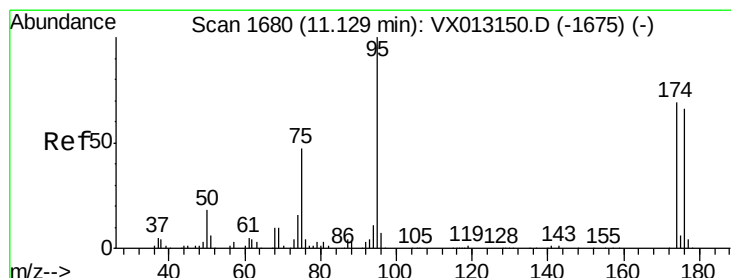
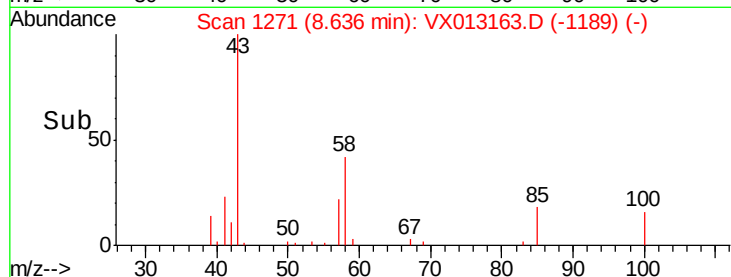
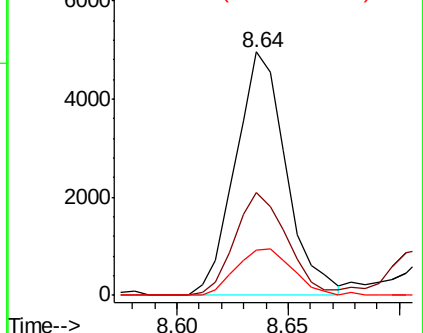
#58
 4-Methyl-2-Pentanone
 Concen: 3.206 ug/l
 RT: 8.64 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VX013163.D
 Acq: 21 Oct 2019 19:37

Instrument :
 MSVOA_X
 ClientSampleId :
 OF-2

Tot Ion: 43 Resp: 7891
 Ion Ratio Lower Upper
 43 100
 58 43.4 33.8 50.8
 85 20.9 16.8 25.2

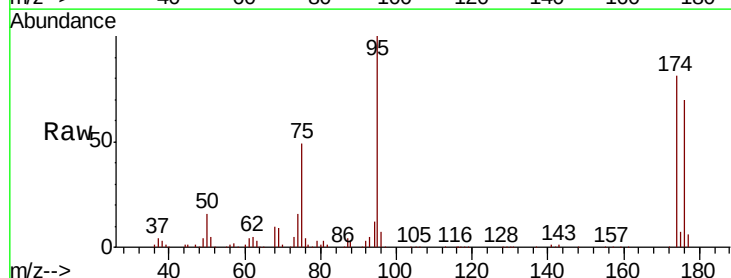


Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0
 Ion 85.00 (84.70 to 85.70): VX0

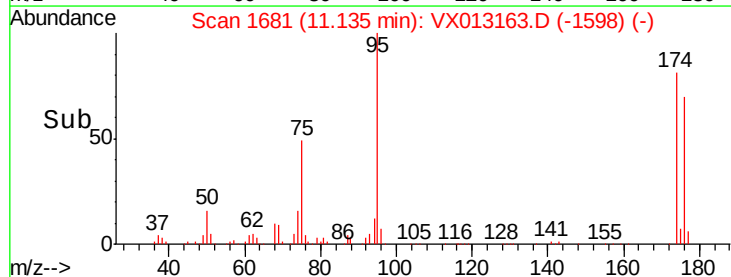
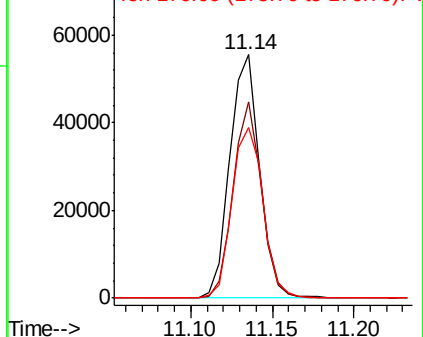


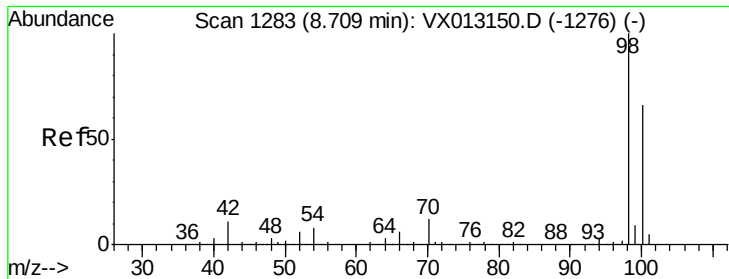
#60
 4-Bromofluorobenzene
 Concen: 27.719 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.01 min
 Lab File: VX013163.D
 Acq: 21 Oct 2019 19:37

Tgt Ion: 95 Resp: 70508
 Ion Ratio Lower Upper
 95 100
 174 77.3 60.0 90.0
 176 73.4 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: 30.303 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013163.D

Acq: 21 Oct 2019 19:37

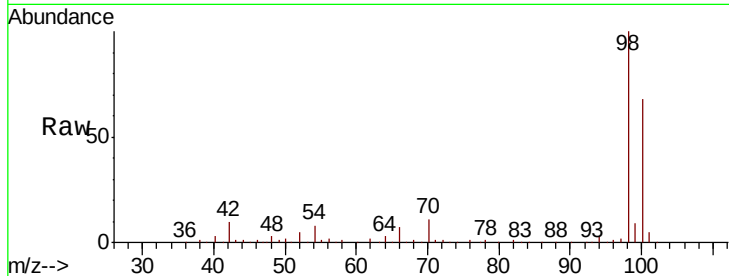
Instrument :
MSVOA_X
ClientSampled :
OF-2

Tot Ion: 98 Resp: 196885

Ion Ratio Lower Upper

98 100

100 68.3 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

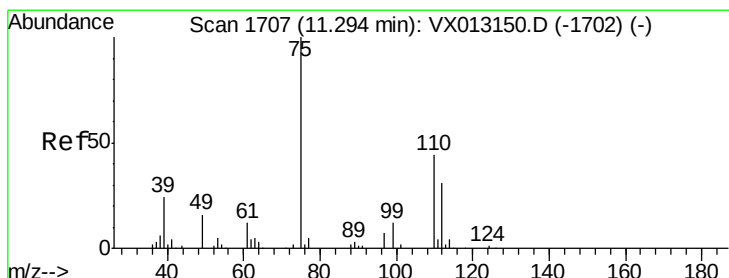
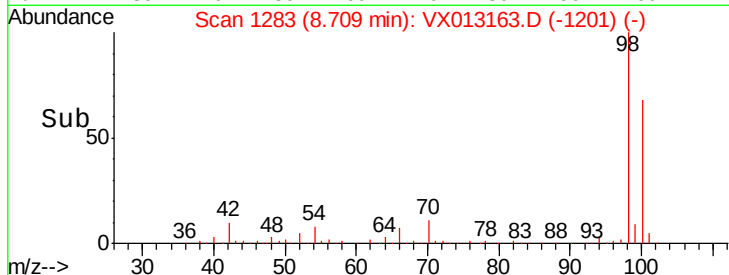
150000

100000

50000

0

Time-->



#72

1,2,3-Trichloropropane

Concen: 14.932 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013163.D

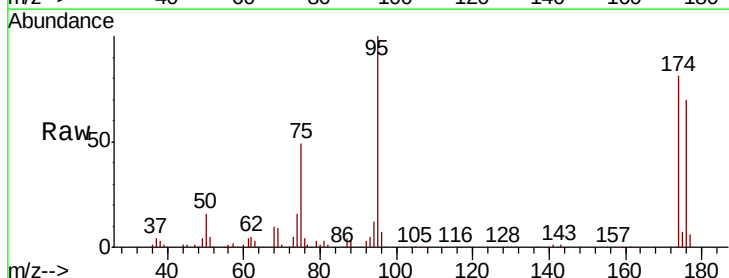
Acq: 21 Oct 2019 19:37

Tgt Ion: 75 Resp: 35909

Ion Ratio Lower Upper

75 100

77 1.3 0.0 74.0



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

30000

25000

20000

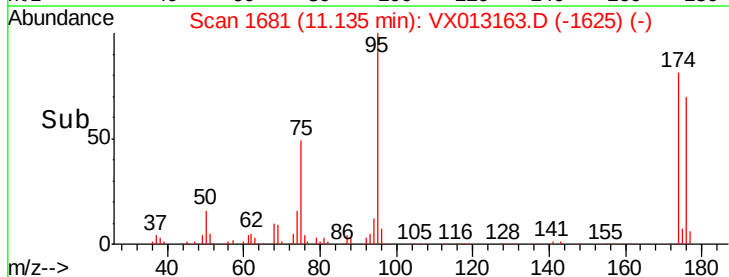
15000

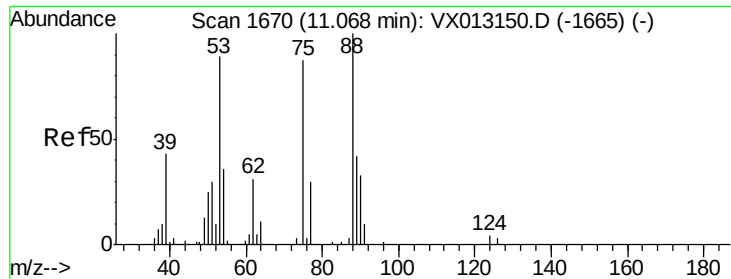
10000

5000

0

Time-->





#77
t-1,4-Dichloro-2-butene
Concen: 38.458 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.07 min
Lab File: VX013163.D
Acq: 21 Oct 2019 19:37

Instrument :
MSVOA_X
ClientSampleId :
OF-2

Tot Ion: 75 Resp: 35909
Ion Ratio Lower Upper
75 100
53 0.0 51.1 153.4#
89 0.0 24.1 72.4#

