

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092619\
 Data File : VX012683.D
 Acq On : 26 Sep 2019 18:47
 Operator : JC/SP
 Sample : K5049-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2R

Quant Time: Sep 26 23:36:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	160893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	279160	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	225759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	80643	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	117703	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	
35) Dibromofluoromethane	5.49	113	84310	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	
50) Toluene-d8	8.71	98	328114	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.14	95	106259	42.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.42%	

Target Compounds

					Qvalue	
5) Bromomethane	1.64	94	301	0.371	ug/l #	68
11) Tert butyl alcohol	3.03	59	167453	286.110	ug/l	100
13) Acrolein	2.29	56	69	10.436	ug/l #	15
14) Allyl chloride	2.59	41	3208	0.935	ug/l #	63
15) Acrylonitrile	3.17	53	1392	1.172	ug/l #	32
16) Acetone	2.43	43	7414	5.974	ug/l #	88
18) Methyl Acetate	2.59	43	8646	2.959	ug/l #	54
19) Methyl tert-butyl Ether	3.19	73	116054	17.724	ug/l	97
29) Tetrahydrofuran	5.13	42	342	0.315	ug/l #	60
31) Cyclohexane	5.65	56	3996	1.225	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14466	5.376	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18461	6.754	ug/l #	15
43) Isopropyl Acetate	6.42	43	4282	0.814	ug/l #	16
47) Bromodichloromethane	8.06	83	2138	0.775	ug/l #	31
48) Methyl methacrylate	7.68	41	8232	3.263	ug/l #	39
51) 4-Methyl-2-Pentanone	8.68	43	1920	0.591	ug/l #	38
76) 1,2,3-Trichloropropane	11.13	75	56638	26.551	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	56638	76.088	ug/l #	8
85) sec-Butylbenzene	11.94	105	7842	1.269	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampled :

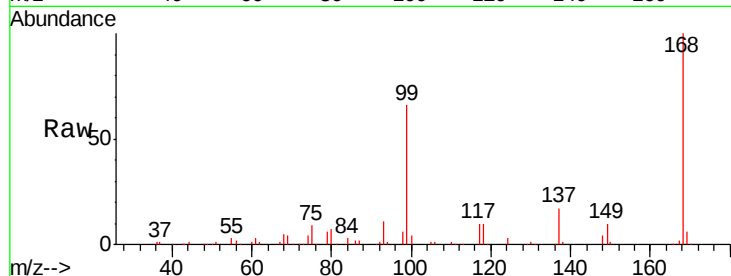
MW-2R

Tgt Ion:168 Resp: 160893

Ion Ratio Lower Upper

168 100

99 66.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

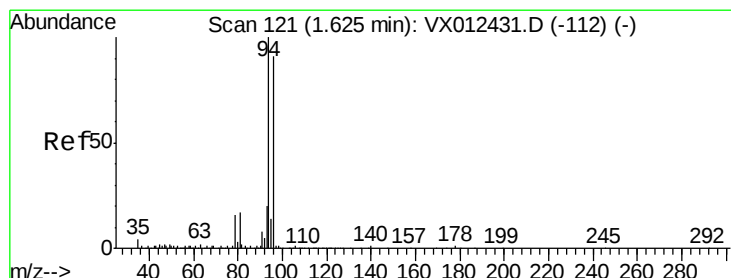
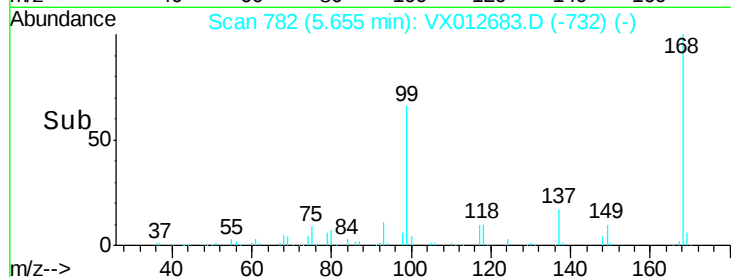
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.371 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012683.D

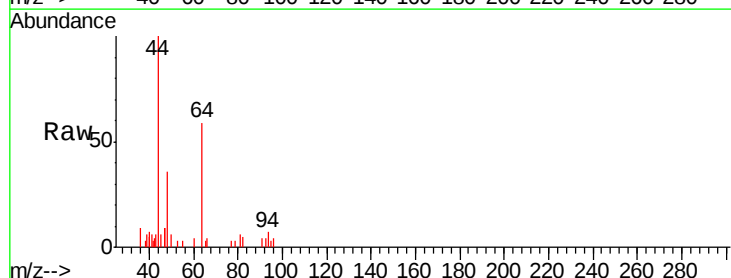
Acq: 26 Sep 2019 18:47

Tgt Ion: 94 Resp: 301

Ion Ratio Lower Upper

94 100

96 60.9 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

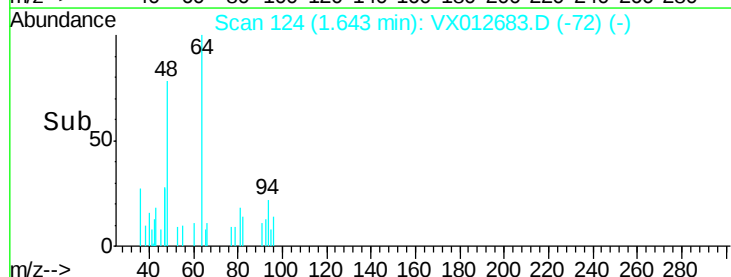
150

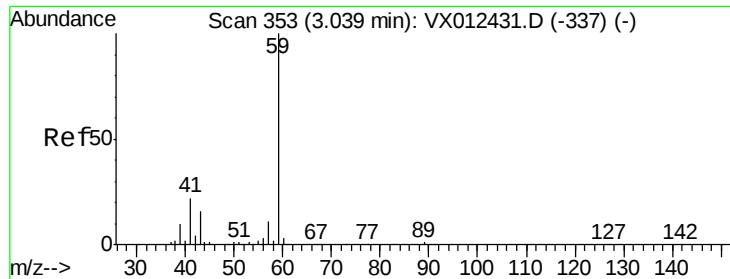
100

50

0

Time--> 1.60 1.65 1.70

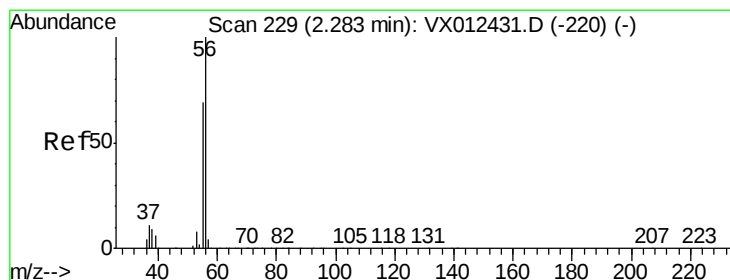
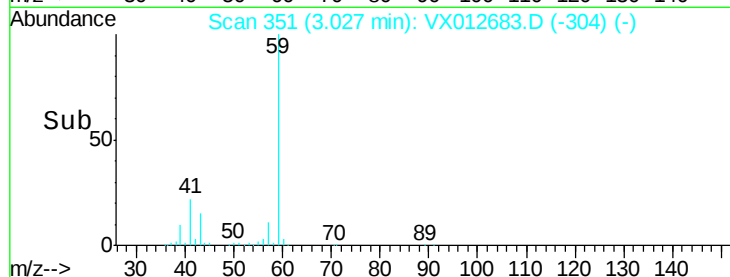
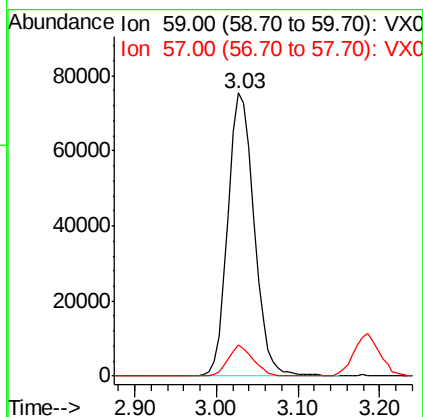
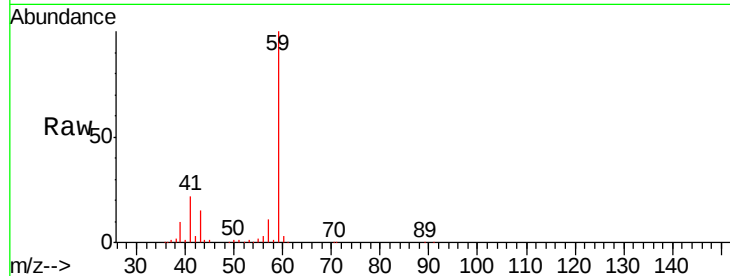




#11
Tert butyl alcohol
Concen: 286.110 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012683.D
Acq: 26 Sep 2019 18:47

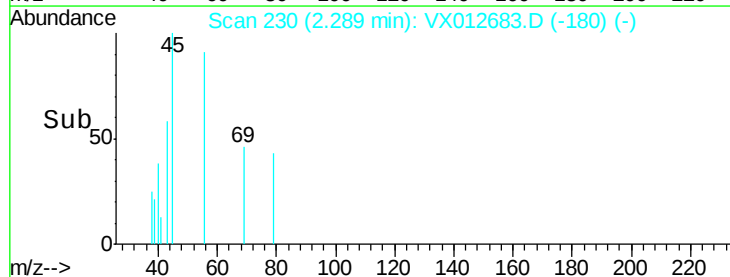
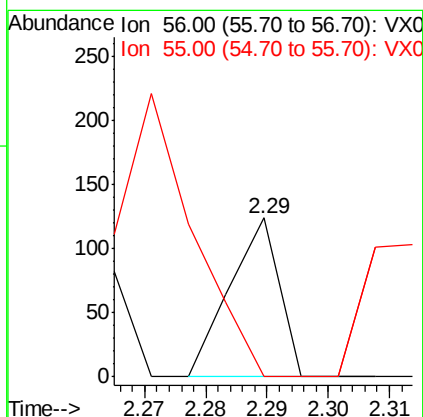
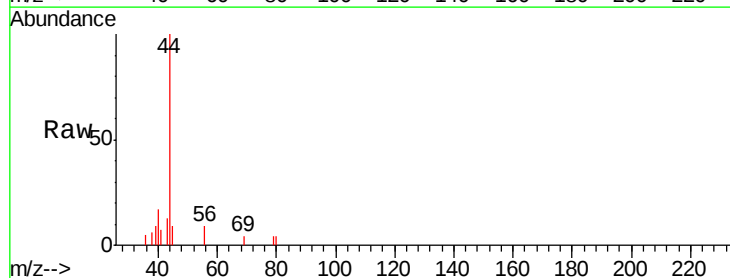
Instrument :
MSVOA_X
ClientSampled :
MW-2R

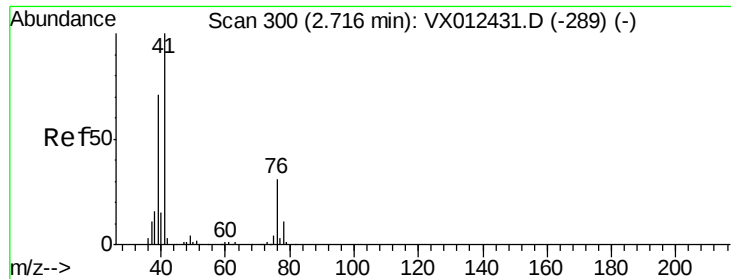
Tgt Ion: 59 Resp: 167453
Ion Ratio Lower Upper
59 100
57 10.4 8.3 12.5



#13
Acrolein
Concen: 10.436 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX012683.D
Acq: 26 Sep 2019 18:47

Tgt Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.8#





#14

Allyl chloride

Concen: 0.935 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampled :

MW-2R

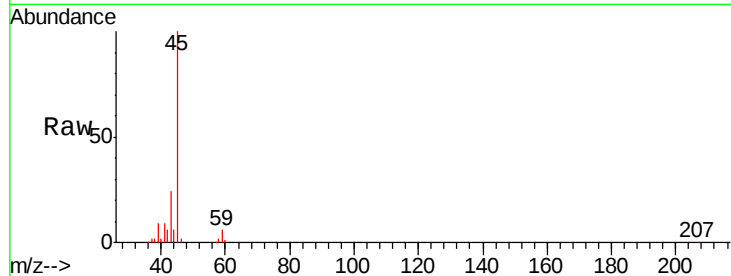
Tgt Ion: 41 Resp: 3208

Ion Ratio Lower Upper

41 100

39 87.0 51.3 76.9#

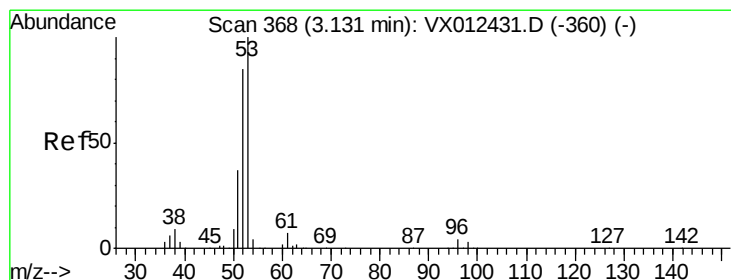
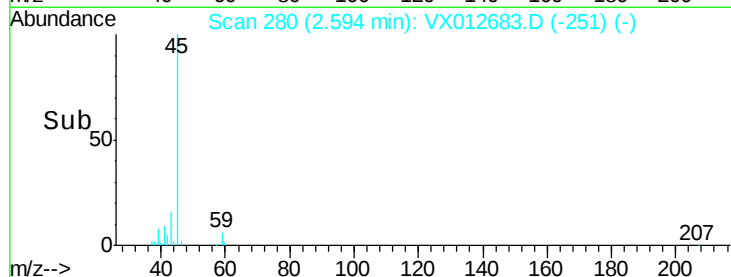
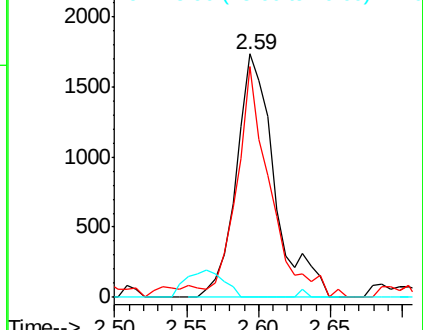
76 0.0 22.6 33.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



#15

Acrylonitrile

Concen: 1.172 ug/l

RT: 3.17 min Scan# 375

Delta R.T. 0.04 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

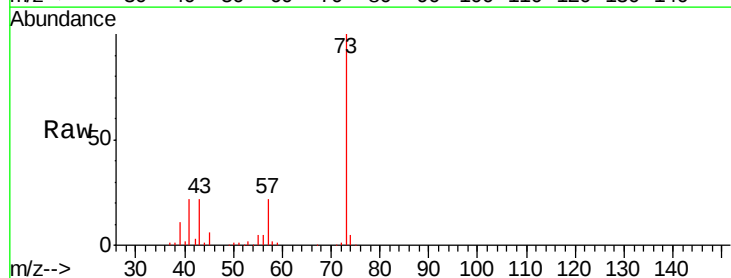
Tgt Ion: 53 Resp: 1392

Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

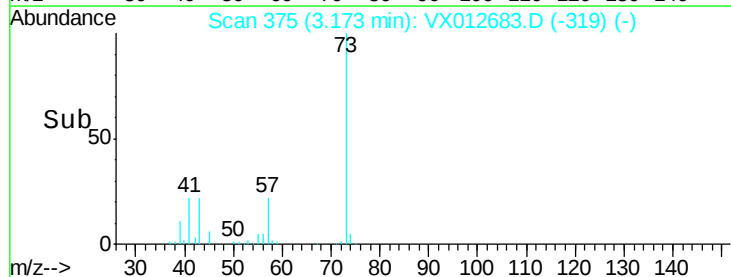
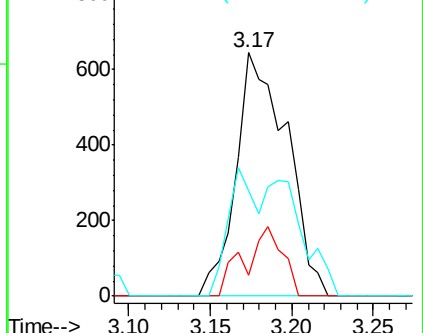
51 29.6 29.6 44.4#

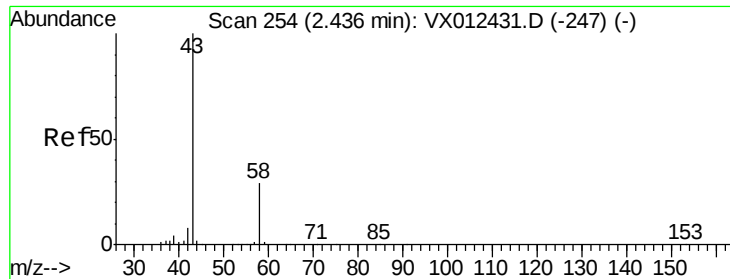


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 5.974 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

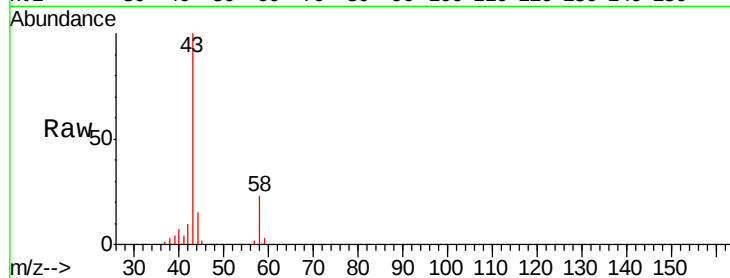
MW-2R

Tgt Ion: 43 Resp: 7414

Ion Ratio Lower Upper

43 100

58 22.7 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

4000

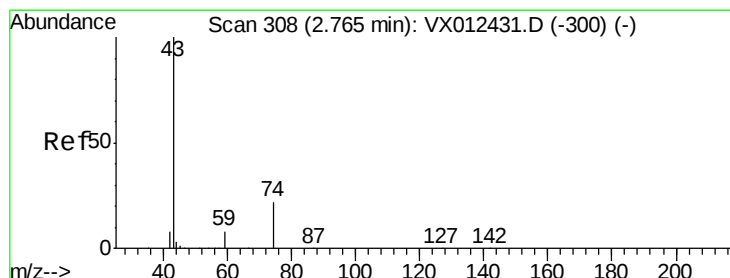
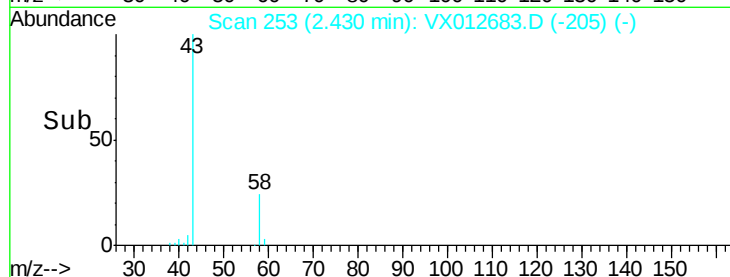
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 2.959 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012683.D

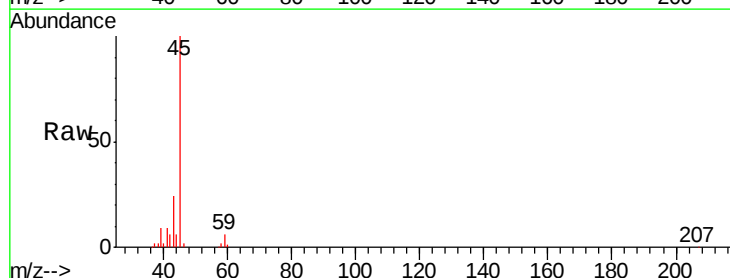
Acq: 26 Sep 2019 18:47

Tgt Ion: 43 Resp: 8646

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.59

5000

4000

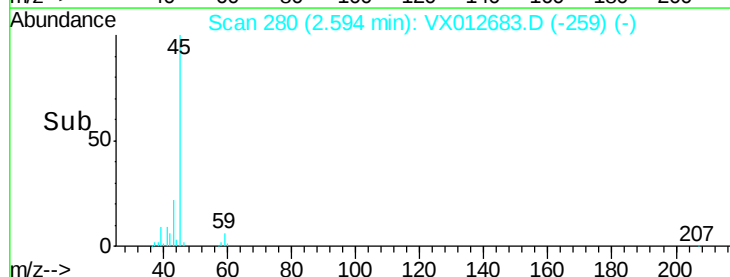
3000

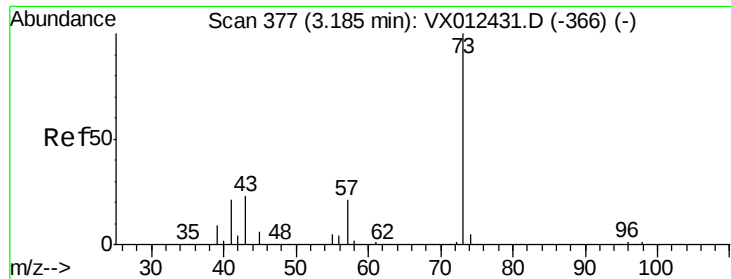
2000

1000

0

Time--> 2.55 2.60 2.65 2.70



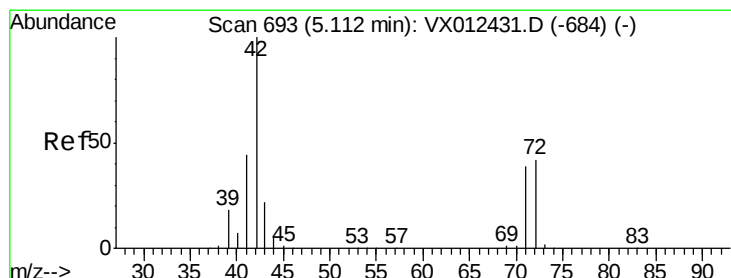
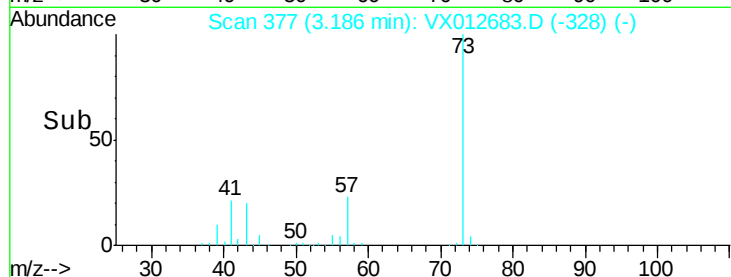
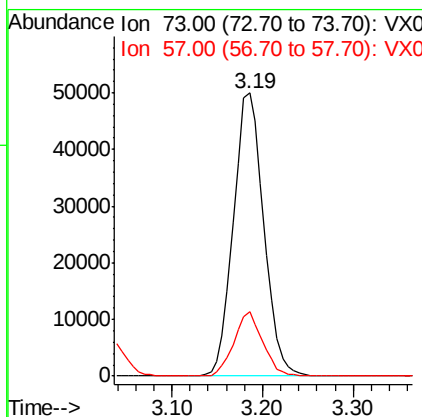
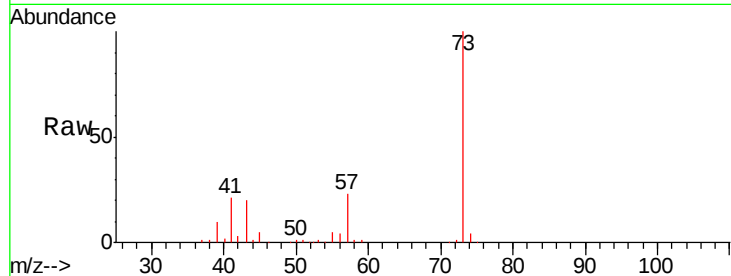


#19

Methyl tert-butyl Ether
 Concen: 17.724 ug/l
 RT: 3.19 min Scan# 377
 Delta R.T. 0.00 min
 Lab File: VX012683.D
 Acq: 26 Sep 2019 18:47

Instrument :
 MSVOA_X
 ClientSampled :
 MW-2R

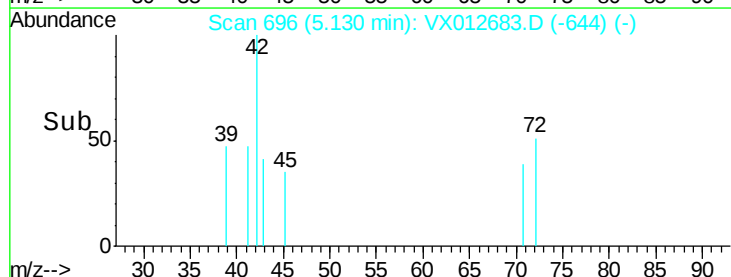
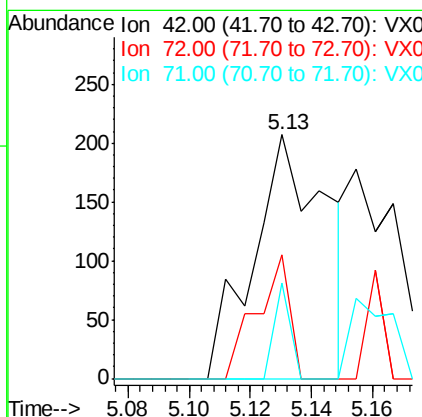
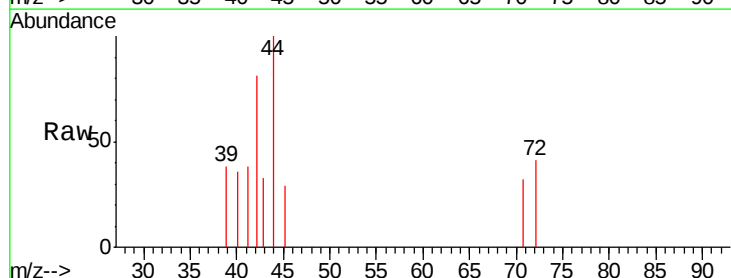
Tgt Ion: 73 Resp: 116054
 Ion Ratio Lower Upper
 73 100
 57 22.6 16.8 25.2

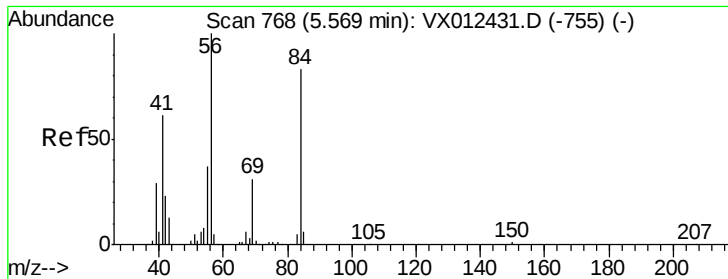


#29

Tetrahydrofuran
 Concen: 0.315 ug/l
 RT: 5.13 min Scan# 696
 Delta R.T. 0.02 min
 Lab File: VX012683.D
 Acq: 26 Sep 2019 18:47

Tgt Ion: 42 Resp: 342
 Ion Ratio Lower Upper
 42 100
 72 23.1 34.0 51.0#
 71 8.8 31.5 47.3#





#31

Cyclohexane

Concen: 1.225 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

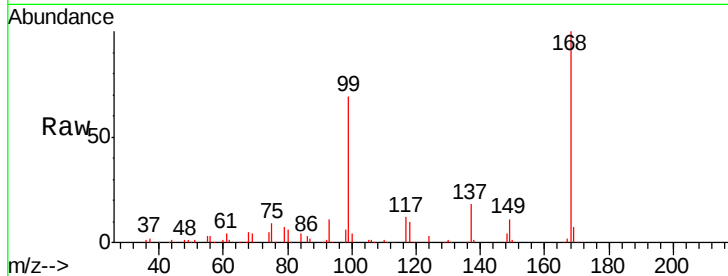
Tgt Ion: 56 Resp: 3996

Ion Ratio Lower Upper

56 100

69 156.3 25.0 37.6#

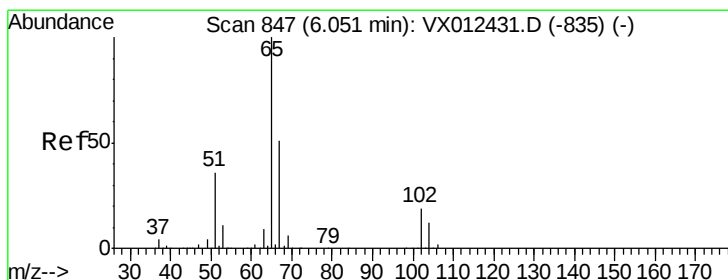
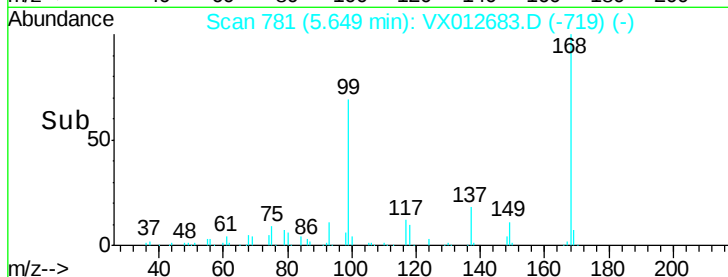
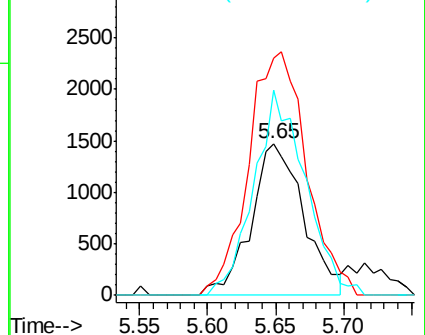
84 135.3 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.238 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012683.D

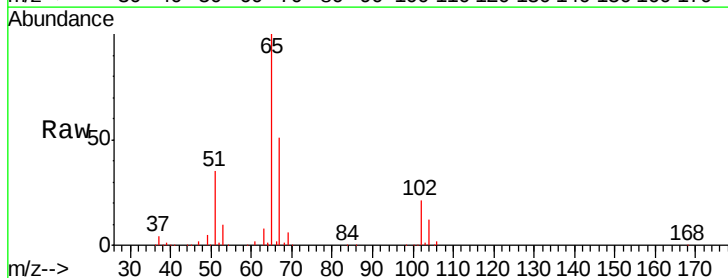
Acq: 26 Sep 2019 18:47

Tgt Ion: 65 Resp: 117703

Ion Ratio Lower Upper

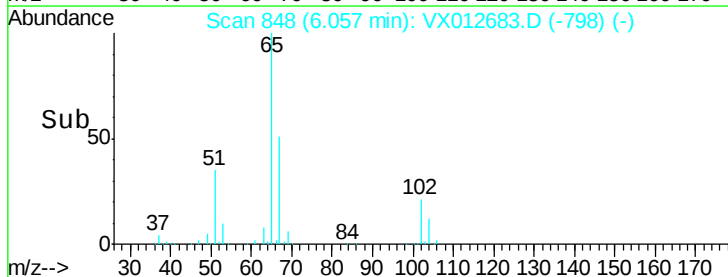
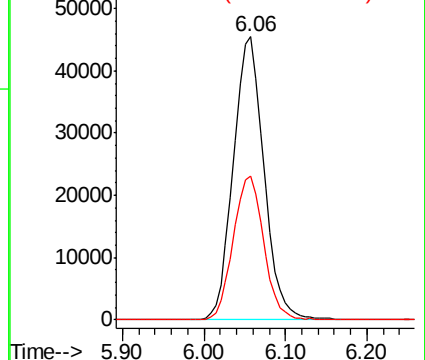
65 100

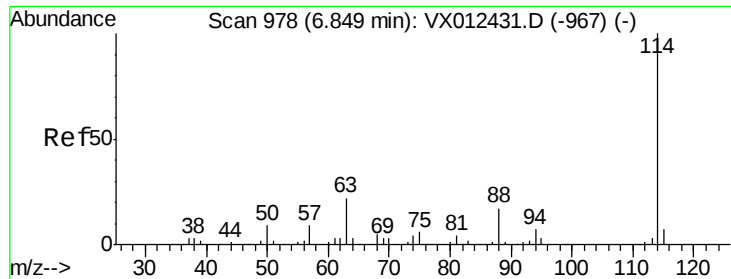
67 50.8 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

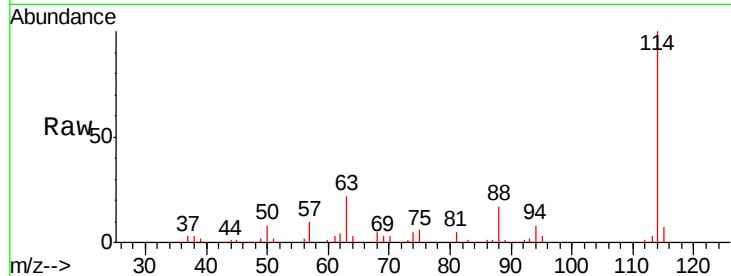




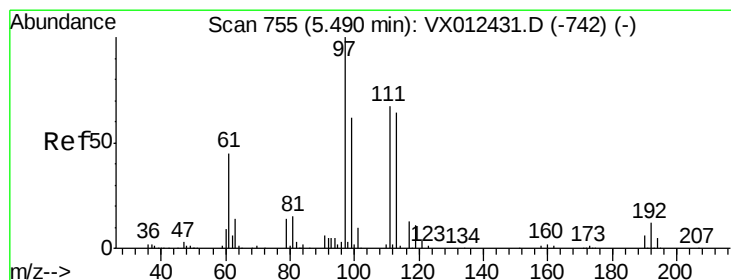
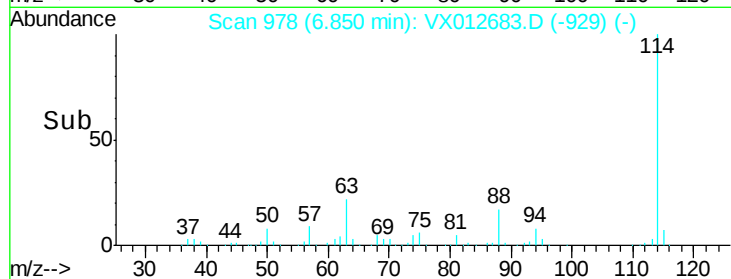
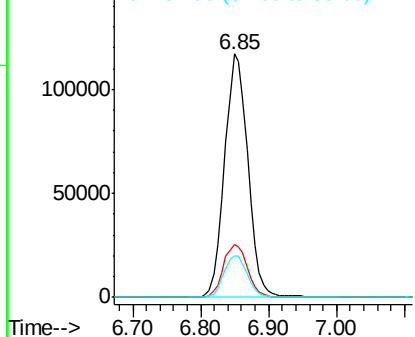
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012683.D
 Acq: 26 Sep 2019 18:47

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2R

Tgt Ion:114 Resp: 279160
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.2
 88 17.1 0.0 33.2

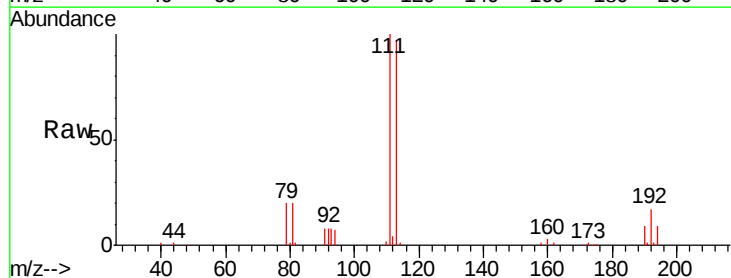


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

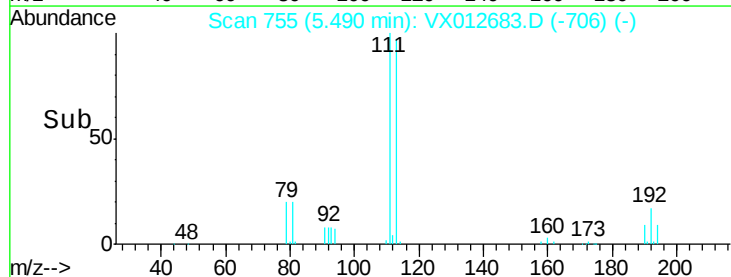
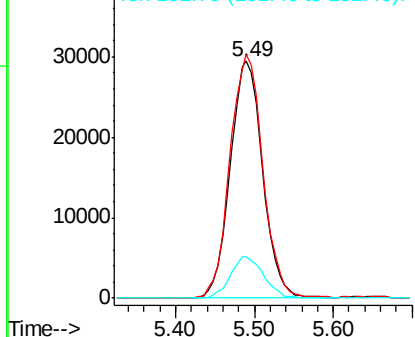


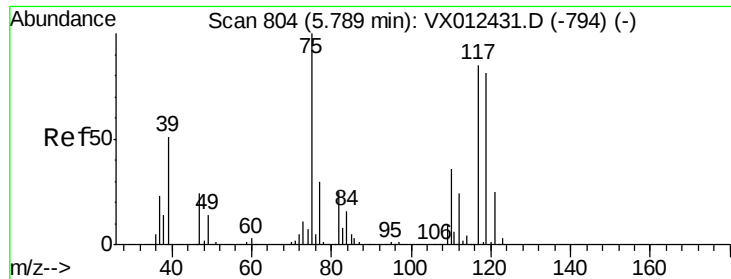
#35
 Dibromofluoromethane
 Concen: 50.712 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012683.D
 Acq: 26 Sep 2019 18:47

Tgt Ion:113 Resp: 84310
 Ion Ratio Lower Upper
 113 100
 111 104.3 83.4 125.2
 192 17.8 14.4 21.6



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: 5.376 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

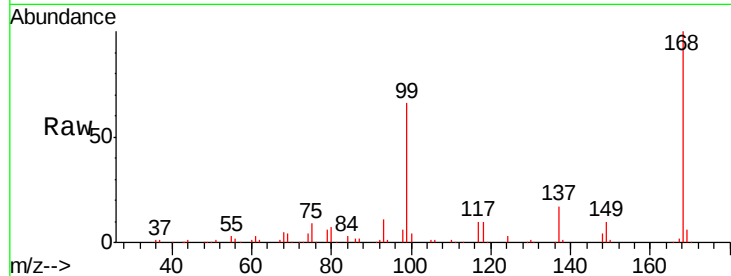
Tgt Ion: 75 Resp: 14466

Ion Ratio Lower Upper

75 100

110 10.0 16.7 50.0#

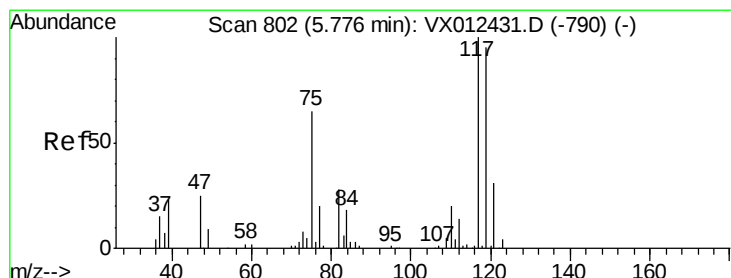
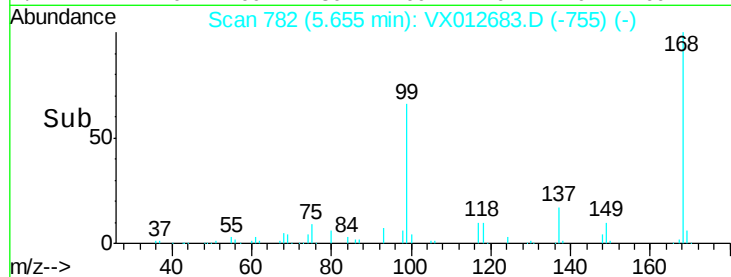
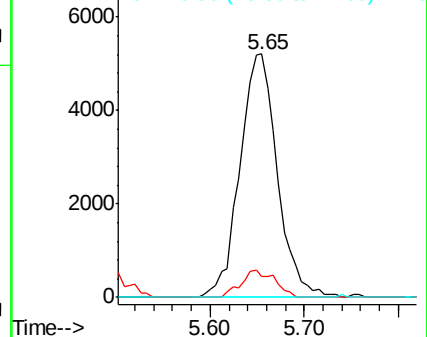
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.754 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

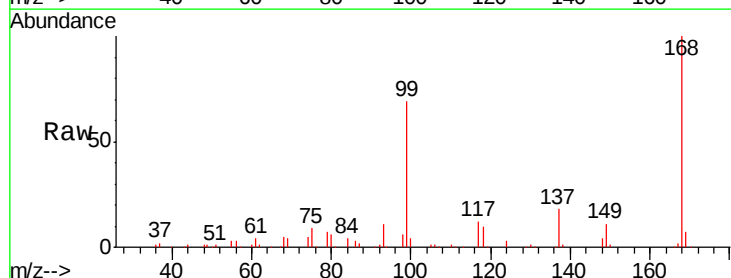
Tgt Ion: 117 Resp: 18461

Ion Ratio Lower Upper

117 100

119 3.4 75.7 113.5#

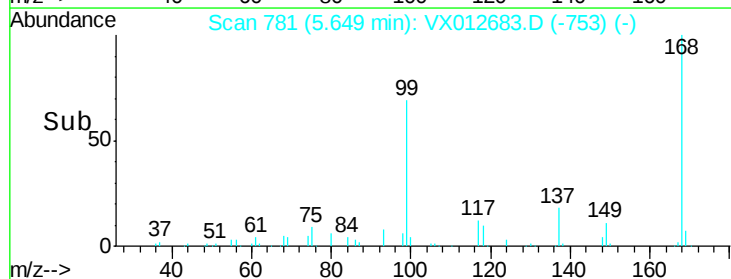
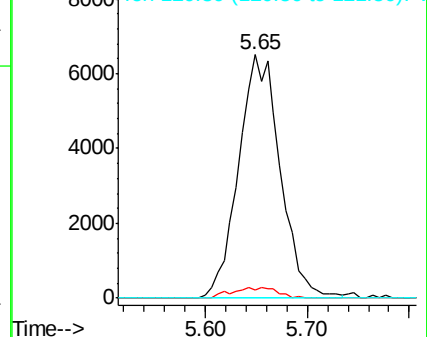
121 0.0 24.2 36.4#

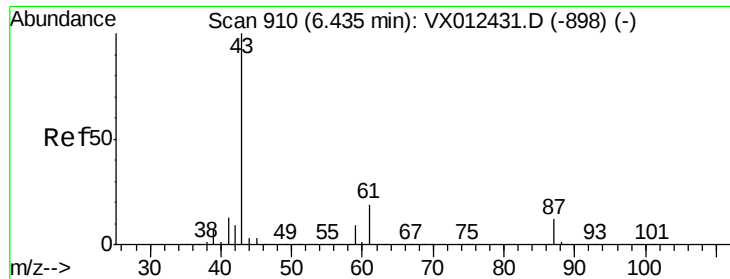


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 0.814 ug/l

RT: 6.42 min Scan# 908

Delta R.T. -0.01 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

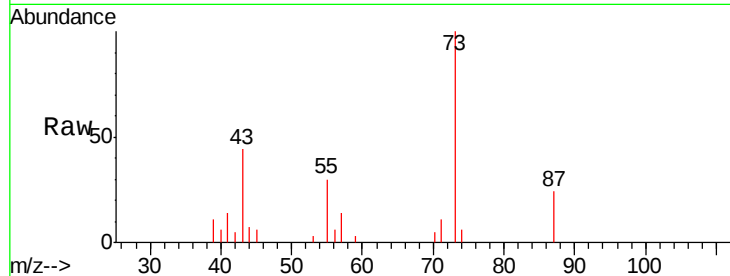
Tgt Ion: 43 Resp: 4282

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

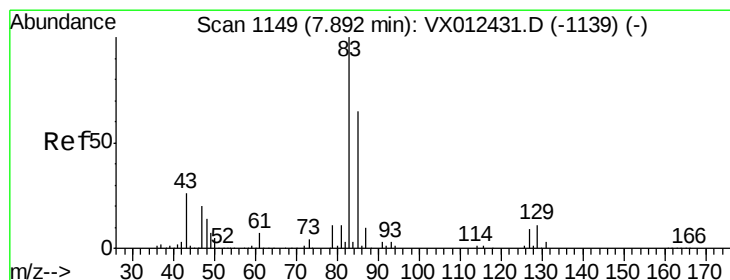
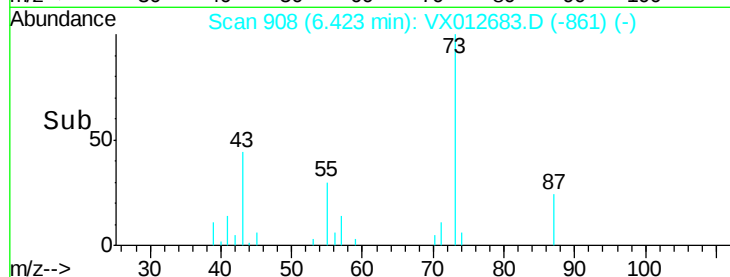
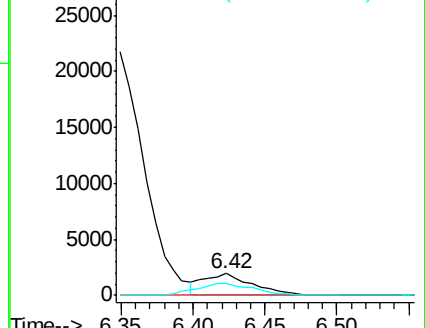
87 70.8 9.8 14.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#47

Bromodichloromethane

Concen: 0.775 ug/l

RT: 8.06 min Scan# 1176

Delta R.T. 0.16 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

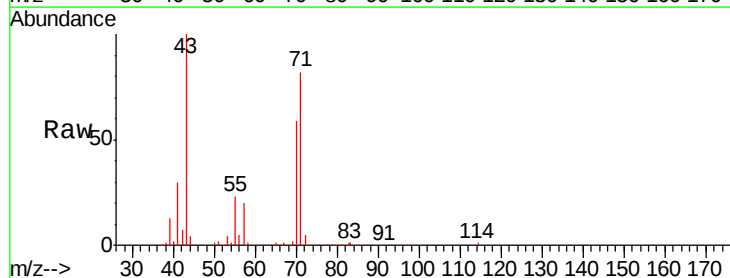
Tgt Ion: 83 Resp: 2138

Ion Ratio Lower Upper

83 100

85 5.8 51.8 77.6#

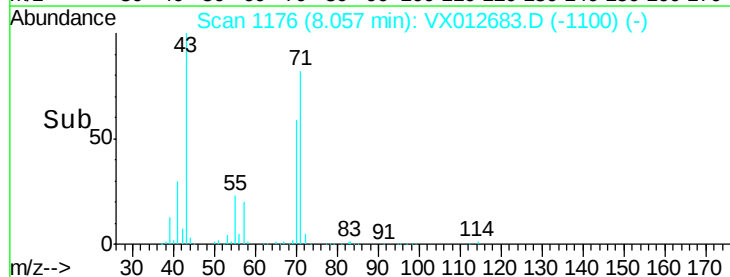
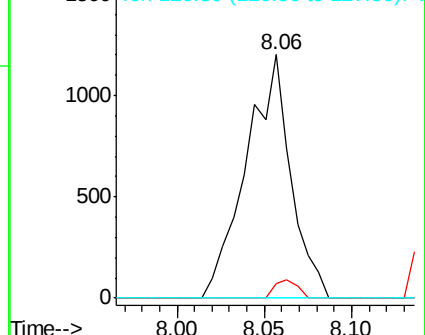
127 0.0 7.3 10.9#

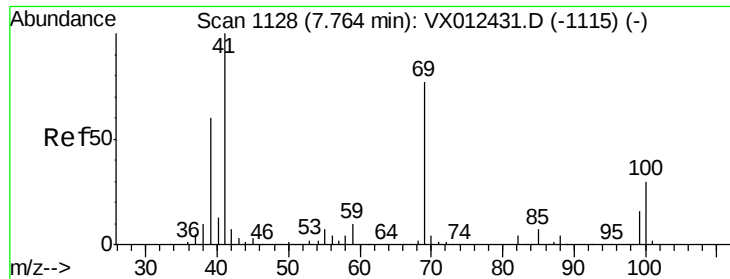


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#48

Methyl methacrylate

Concen: 3.263 ug/l

RT: 7.68 min Scan# 1114

Delta R.T. -0.09 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

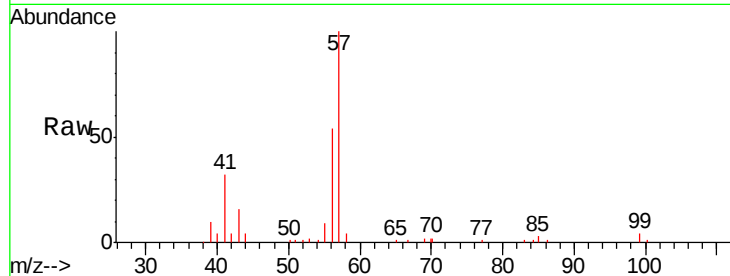
Tgt Ion: 41 Resp: 8232

Ion Ratio Lower Upper

41 100

69 5.9 59.9 89.9#

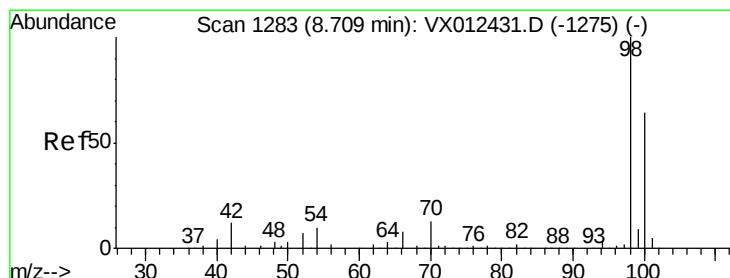
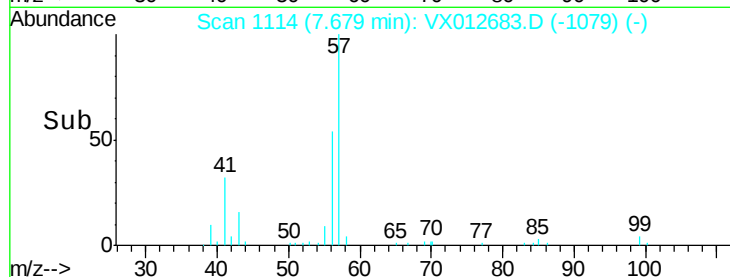
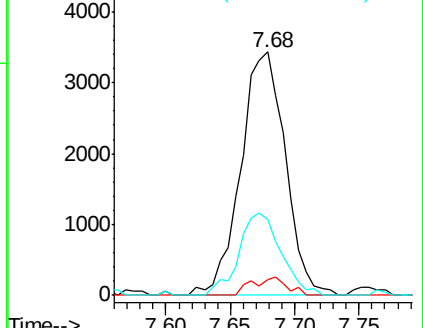
39 31.9 47.8 71.6#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 51.248 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012683.D

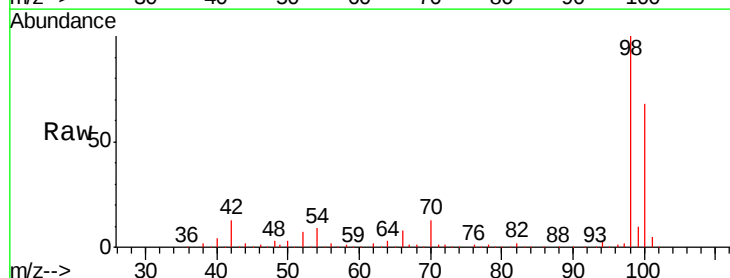
Acq: 26 Sep 2019 18:47

Tgt Ion: 98 Resp: 328114

Ion Ratio Lower Upper

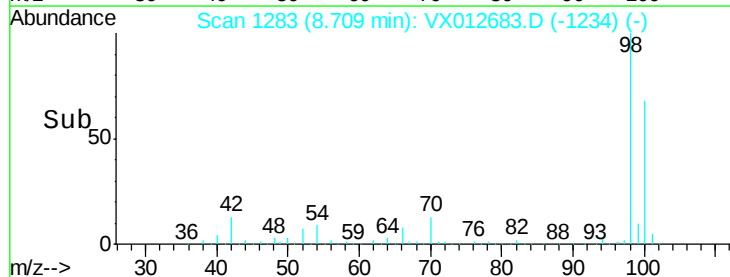
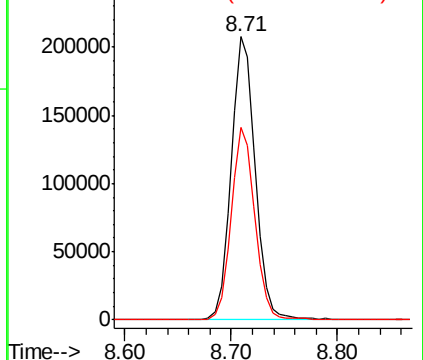
98 100

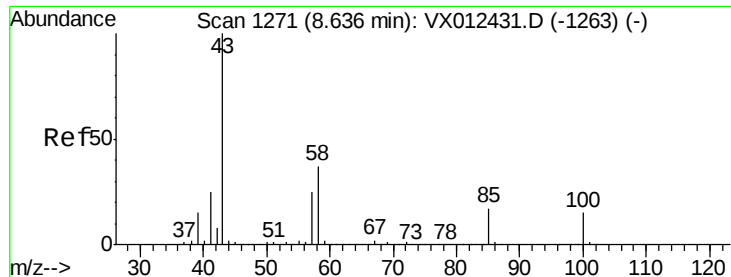
100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.591 ug/l

RT: 8.68 min Scan# 1278

Delta R.T. 0.04 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

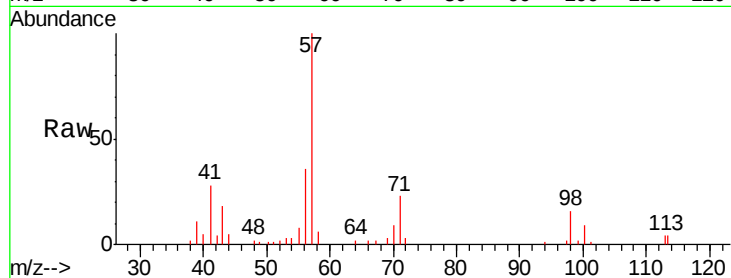
MW-2R

Tgt Ion: 43 Resp: 1920

Ion Ratio Lower Upper

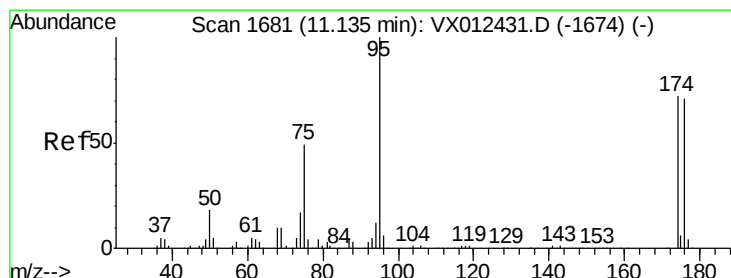
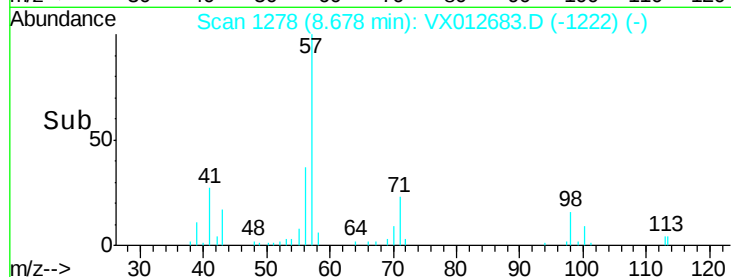
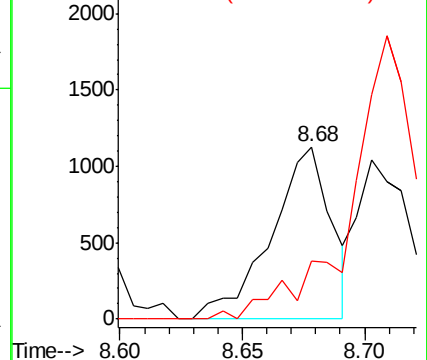
43 100

58 0.0 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.209 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

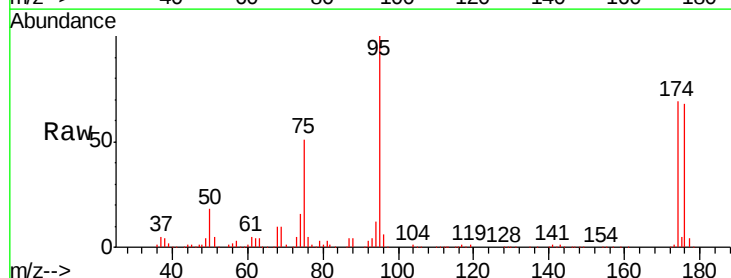
Tgt Ion: 95 Resp: 106259

Ion Ratio Lower Upper

95 100

174 67.6 0.0 140.0

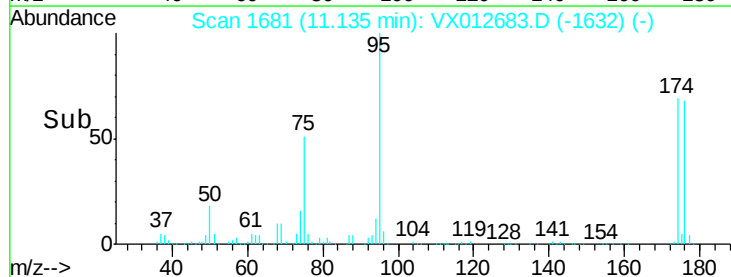
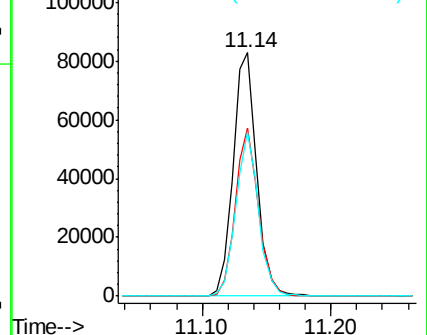
176 64.9 0.0 135.4

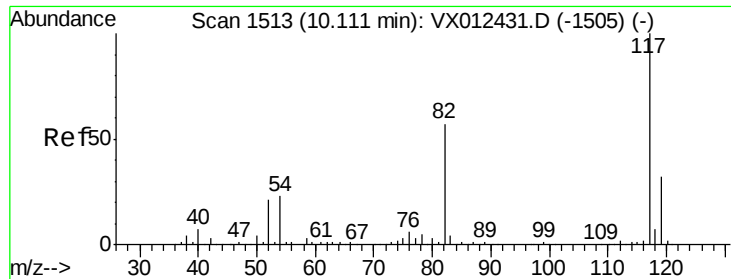


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

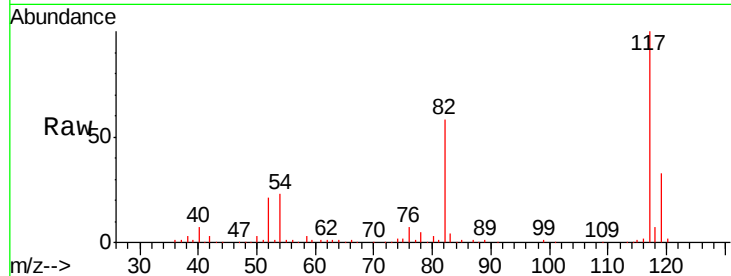




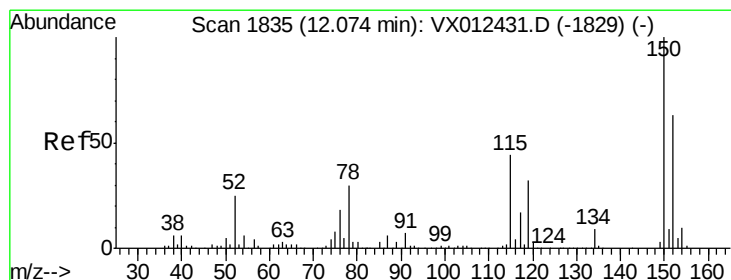
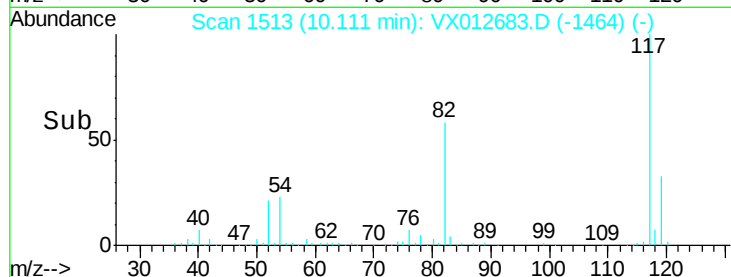
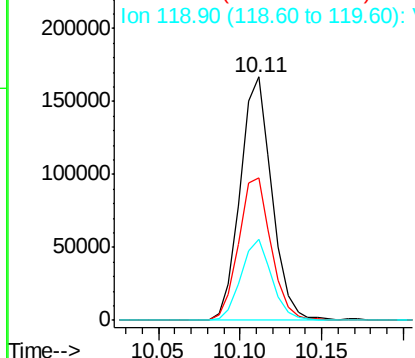
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012683.D
Acq: 26 Sep 2019 18:47

Instrument :
MSVOA_X
ClientSampled :
MW-2R

Tgt Ion:117 Resp: 225759
Ion Ratio Lower Upper
117 100
82 58.4 45.9 68.9
119 33.2 25.3 37.9

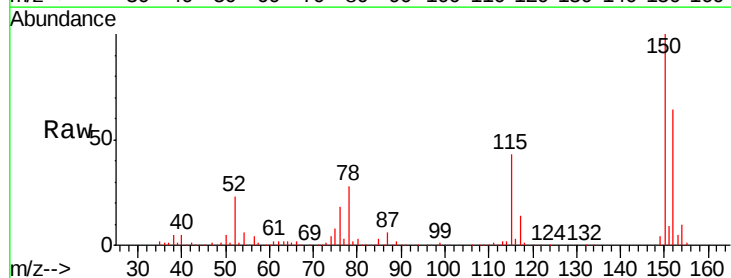


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

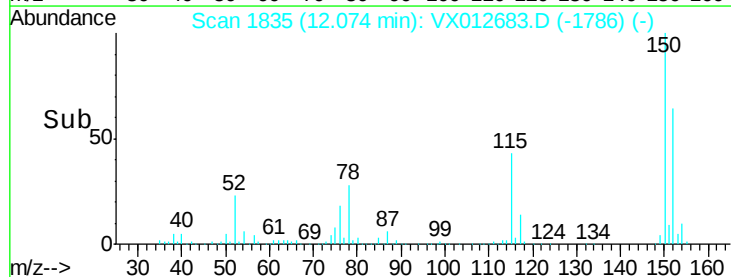
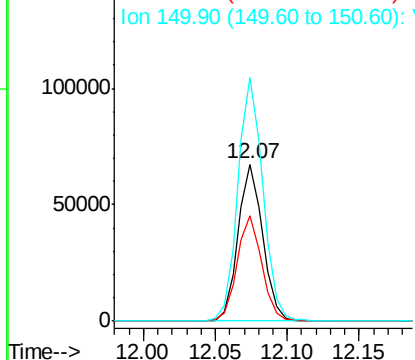


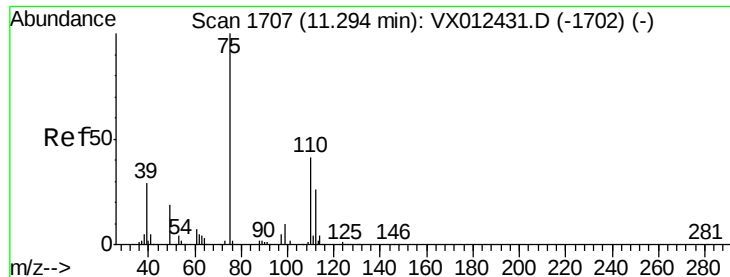
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012683.D
Acq: 26 Sep 2019 18:47

Tgt Ion:152 Resp: 80643
Ion Ratio Lower Upper
152 100
115 67.4 44.1 132.3
150 157.1 0.0 343.8



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





#76

1,2,3-Trichloropropane

Concen: 26.551 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

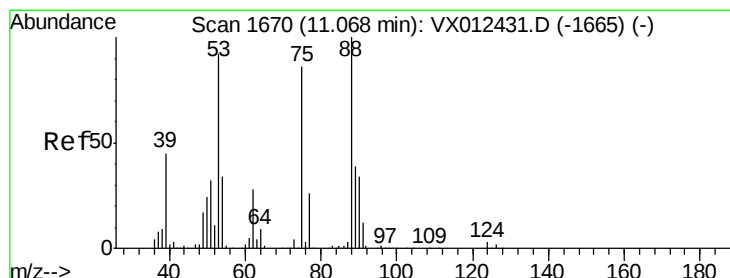
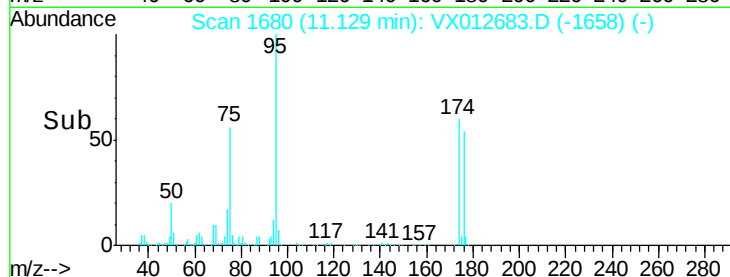
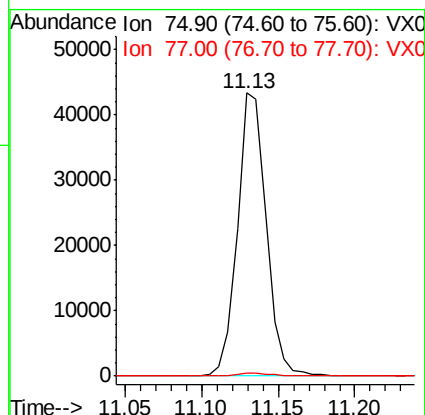
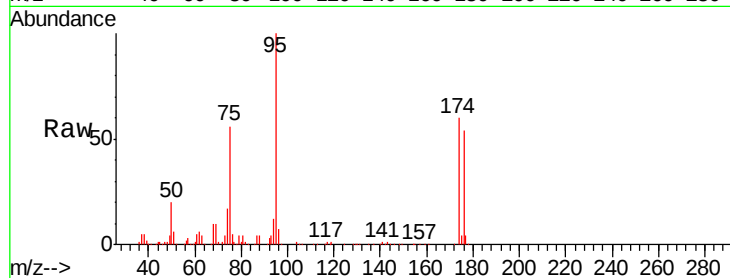
MW-2R

Tgt Ion: 75 Resp: 56638

Ion Ratio Lower Upper

75 100

77 1.3 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.088 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012683.D

Acq: 26 Sep 2019 18:47

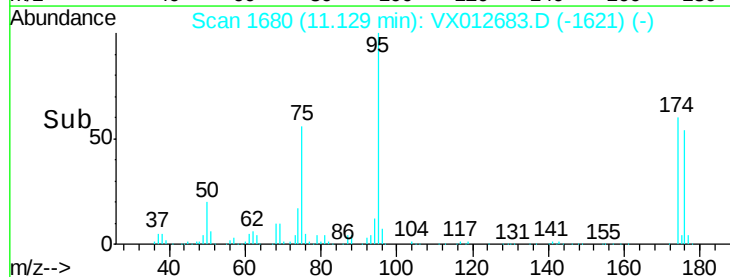
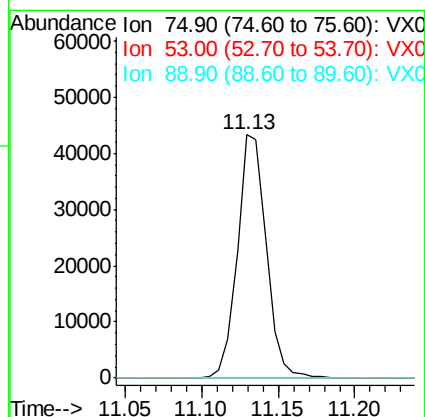
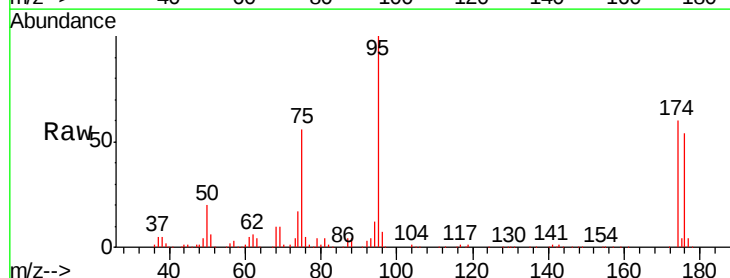
Tgt Ion: 75 Resp: 56638

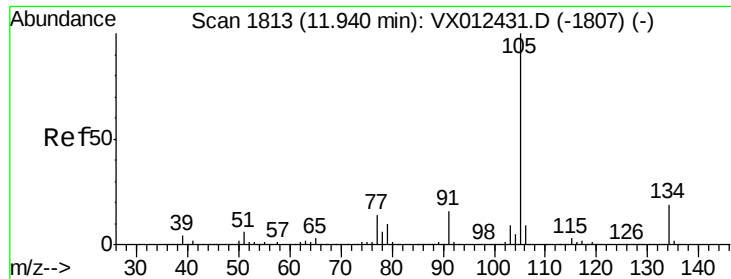
Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#





#85
 sec-Butylbenzene
 Concen: 1.269 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VX012683.D
 Acq: 26 Sep 2019 18:47

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2R

Tgt Ion:105 Resp: 7842
 Ion Ratio Lower Upper
 105 100
 134 33.9 9.8 29.4#

