

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060920\
 Data File : VX016661.D
 Acq On : 09 Jun 2020 14:08
 Operator : JC/SP
 Sample : L2949-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Quant Time: Jun 10 04:15:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	201512	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	322310	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	330197	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	168975	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	121543	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	
35) Dibromofluoromethane	5.46	113	98256	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	
50) Toluene-d8	8.70	98	395670	51.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.44%	
62) 4-Bromofluorobenzene	11.12	95	160170	53.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.32%	

Target Compounds

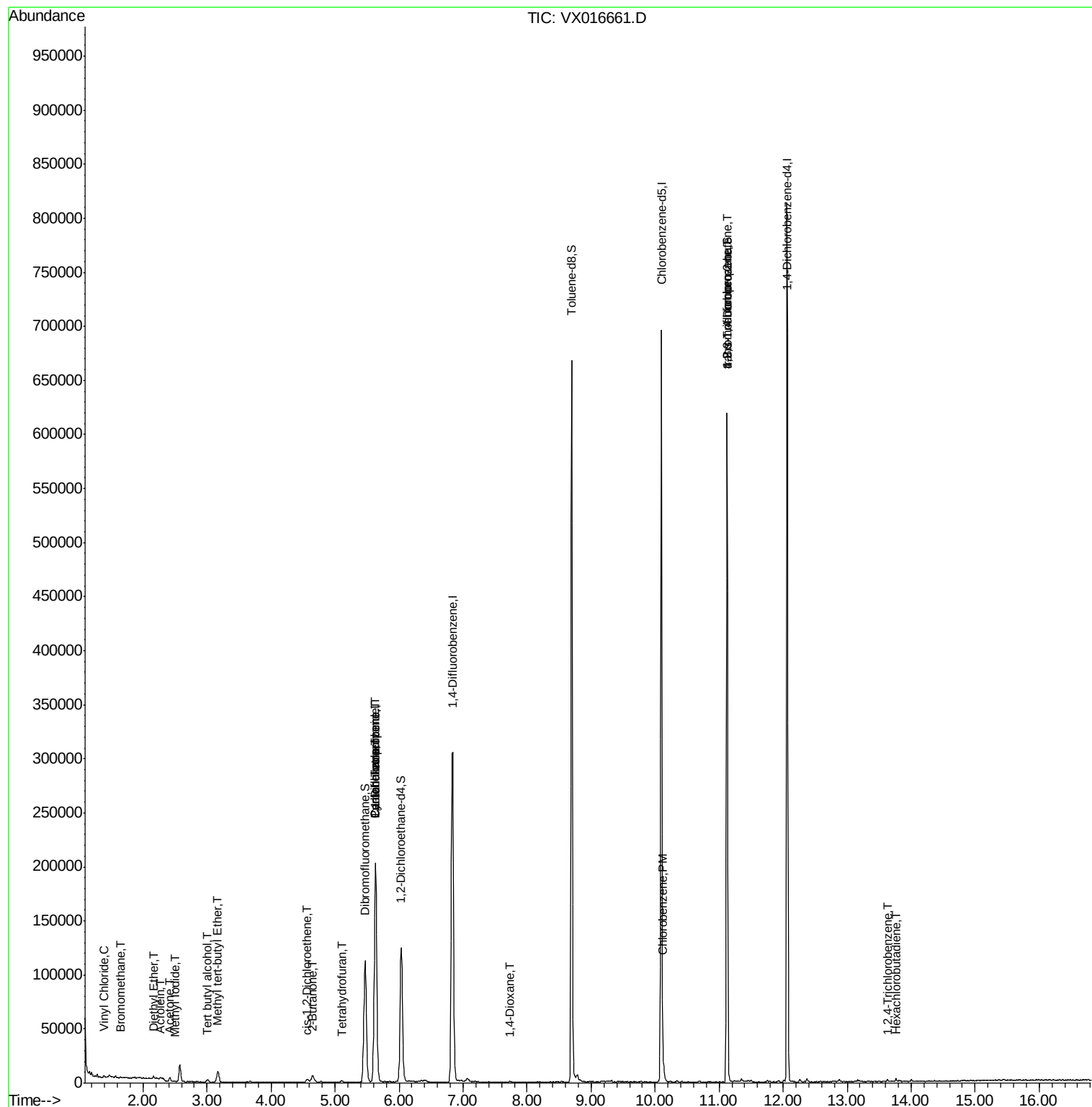
						Qvalue
4) Vinyl Chloride	1.39	62	842	0.332	ug/l #	88
5) Bromomethane	1.64	94	309	0.251	ug/l #	52
8) Diethyl Ether	2.17	74	879	0.633	ug/l #	38
10) Methyl Iodide	2.50	142	235	3.156	ug/l #	87
11) Tert butyl alcohol	3.00	59	2420	3.771	ug/l	99
13) Acrolein	2.28	56	363	1.330	ug/l #	56
16) Acetone	2.42	43	4040	3.685	ug/l	98
19) Methyl tert-butyl Ether	3.17	73	11883	1.707	ug/l	92
25) 2-Butanone	4.64	43	416	0.224	ug/l #	49
27) cis-1,2-Dichloroethene	4.56	96	2214	0.892	ug/l	82
29) Tetrahydrofuran	5.10	42	1005	0.837	ug/l #	77
31) Cyclohexane	5.63	56	3189	0.917	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	13600	4.457	ug/l #	50
38) Carbon Tetrachloride	5.63	117	19277	6.011	ug/l #	17
49) 1,4-Dioxane	7.72	88	240	3.748	ug/l #	74
65) Chlorobenzene	10.12	112	3663	0.544	ug/l	94
76) 1,2,3-Trichloropropane	11.12	75	77861	20.963	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	77861	51.567	ug/l #	14
93) 1,2,4-Trichlorobenzene	13.63	180	699	0.204	ug/l	95
94) Hexachlorobutadiene	13.77	225	514	0.382	ug/l	90

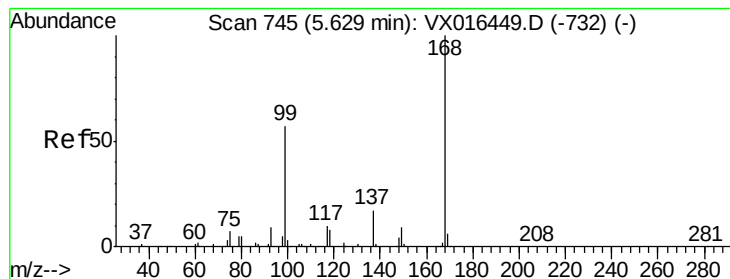
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 10 04:15:13 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

Instrument :

MSVOA_X

ClientSampled :

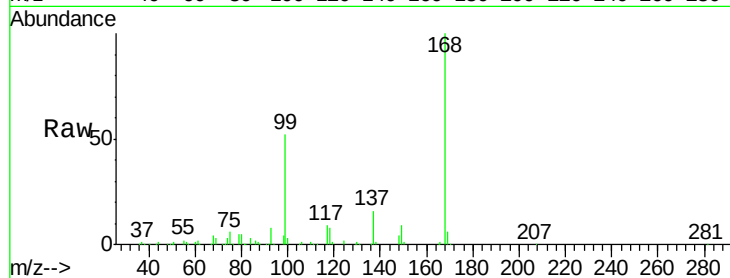
MW-2

Tot Ion:168 Resp: 201512

Ion Ratio Lower Upper

168 100

99 52.3 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

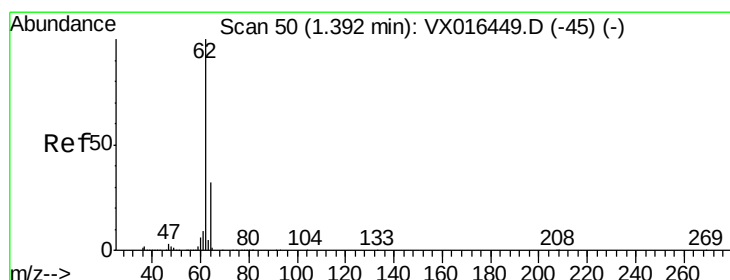
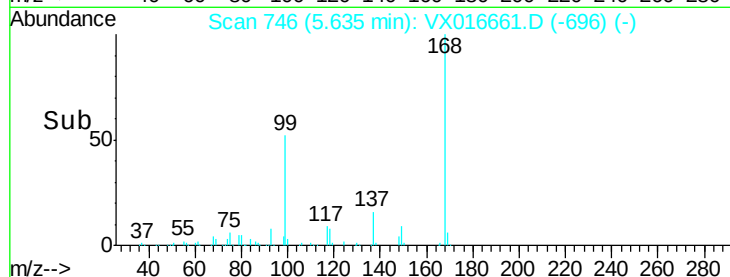
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 0.332 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016661.D

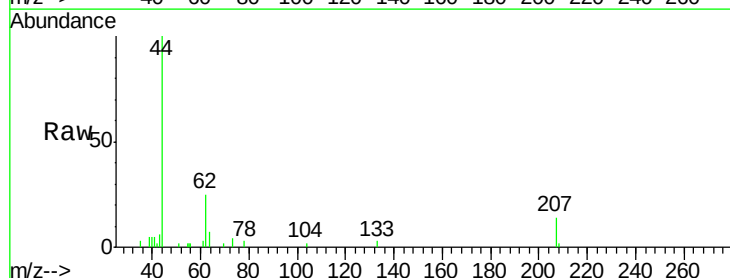
Acq: 09 Jun 2020 14:08

Tgt Ion: 62 Resp: 842

Ion Ratio Lower Upper

62 100

64 25.7 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

800

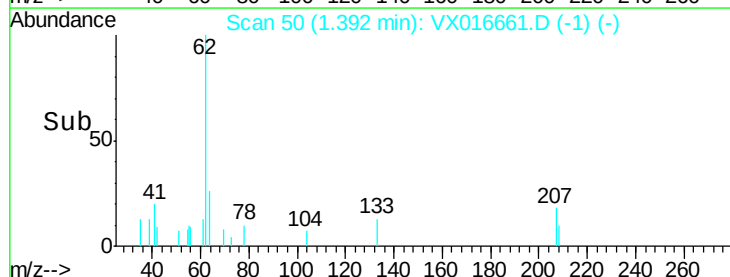
600

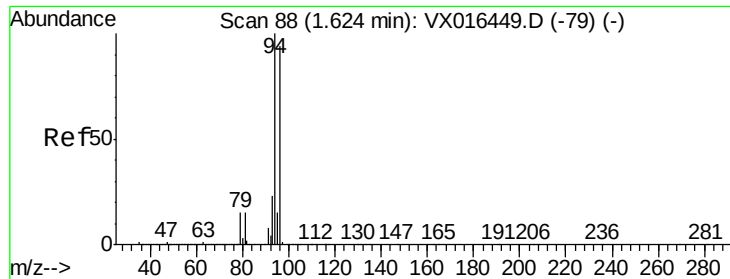
400

200

0

Time-->





#5

Bromomethane

Concen: 0.251 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

Instrument :

MSVOA_X

ClientSampled :

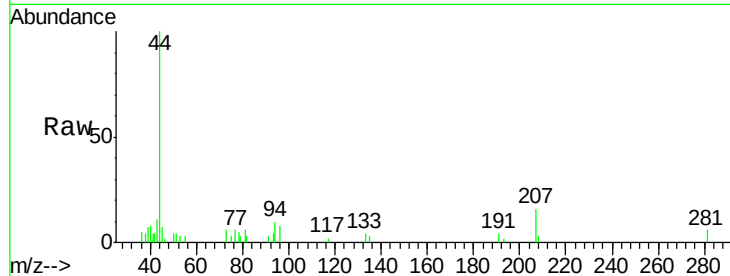
MW-2

Tot Ion: 94 Resp: 309

Ion Ratio Lower Upper

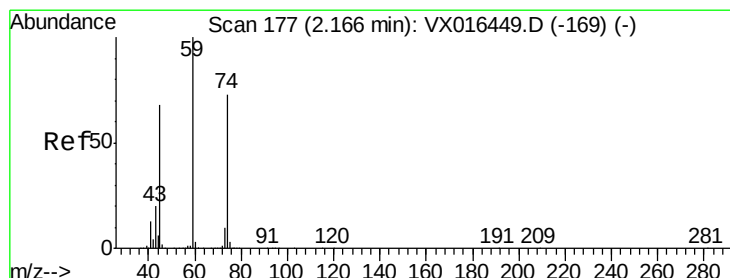
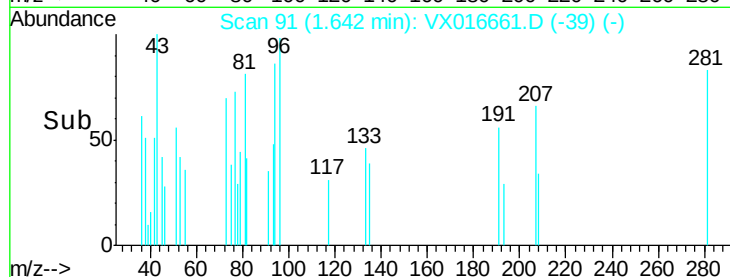
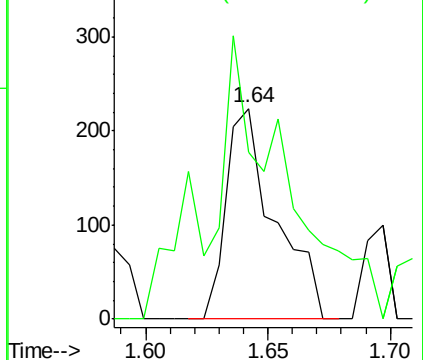
94 100

96 47.3 75.1 112.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.633 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX016661.D

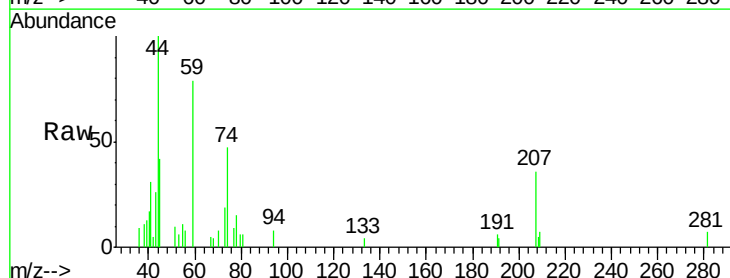
Acq: 09 Jun 2020 14:08

Tgt Ion: 74 Resp: 879

Ion Ratio Lower Upper

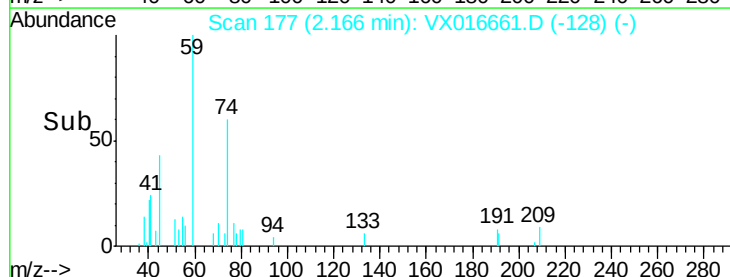
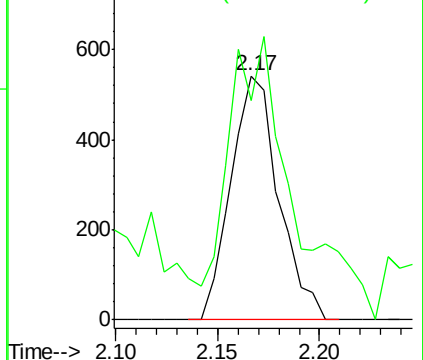
74 100

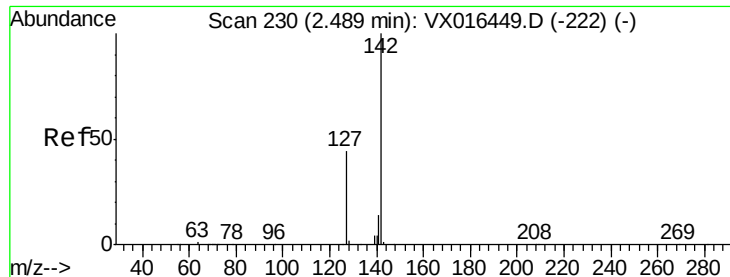
45 155.2 47.5 142.5#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

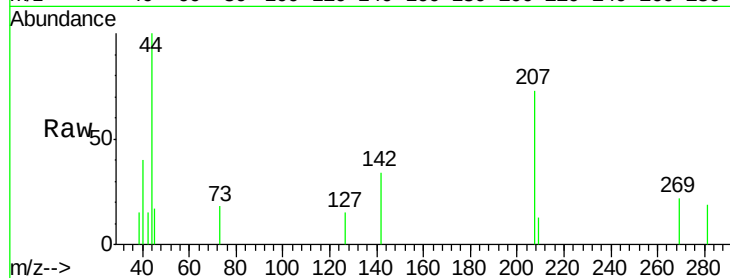




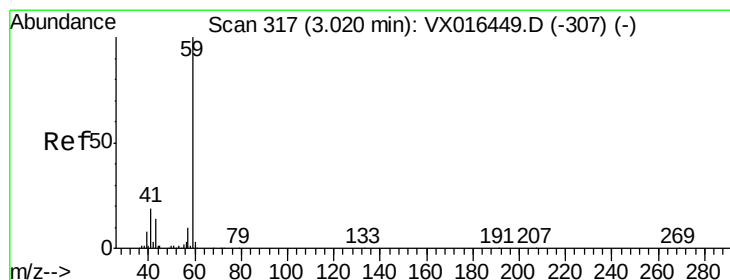
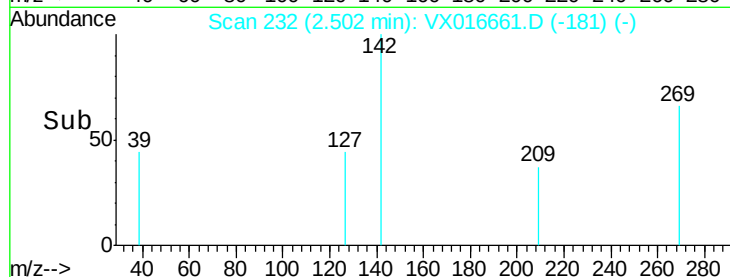
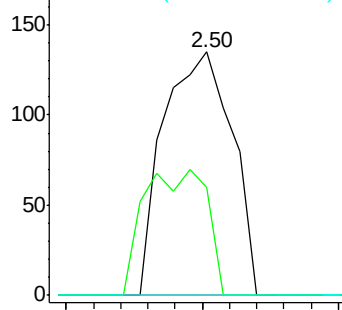
#10
Methyl Iodide
Concen: 3.156 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX016661.D
Acq: 09 Jun 2020 14:08

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Tot Ion:142 Resp: 235
Ion Ratio Lower Upper
142 100
127 48.1 35.3 52.9
141 0.0 11.4 17.2#

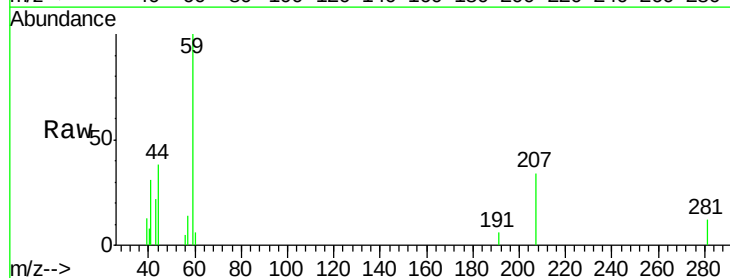


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

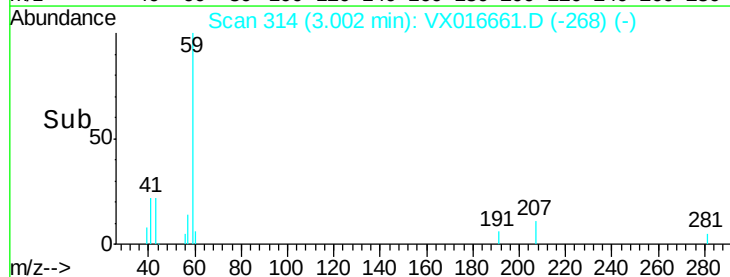
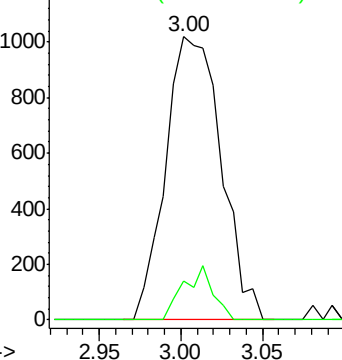


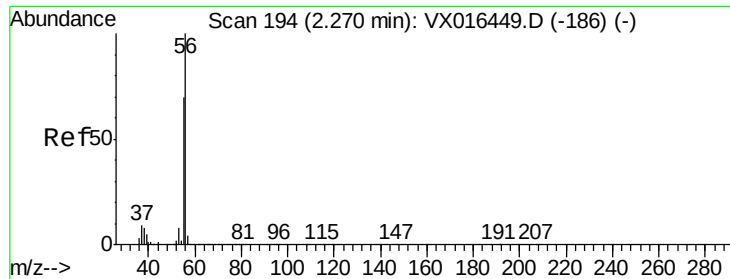
#11
Tert butyl alcohol
Concen: 3.771 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX016661.D
Acq: 09 Jun 2020 14:08

Tgt Ion: 59 Resp: 2420
Ion Ratio Lower Upper
59 100
57 10.0 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.330 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

Instrument :

MSVOA_X

ClientSampleId :

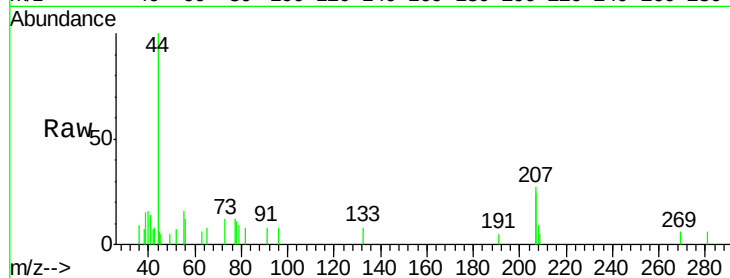
MW-2

Tot Ion: 56 Resp: 363

Ion Ratio Lower Upper

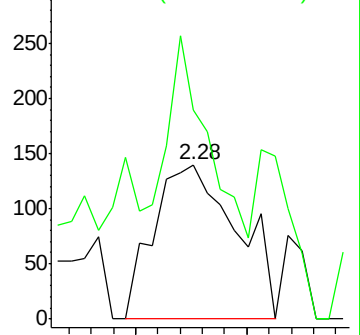
56 100

55 110.2 58.3 87.5#

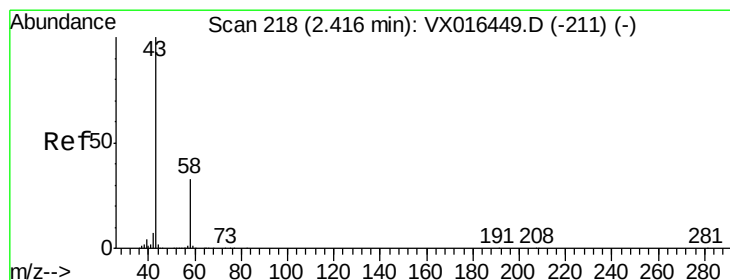
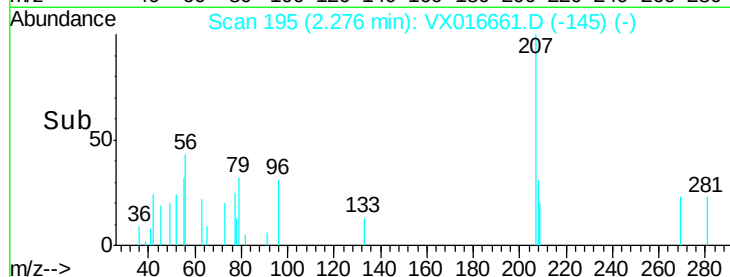


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 3.685 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016661.D

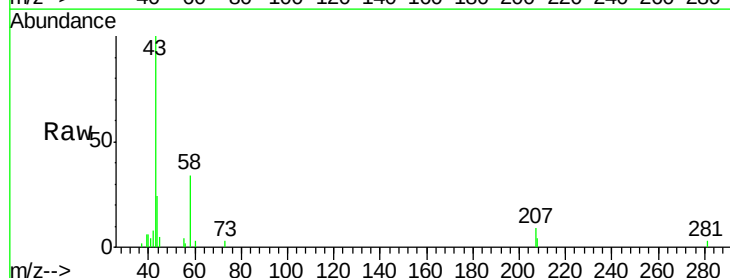
Acq: 09 Jun 2020 14:08

Tgt Ion: 43 Resp: 4040

Ion Ratio Lower Upper

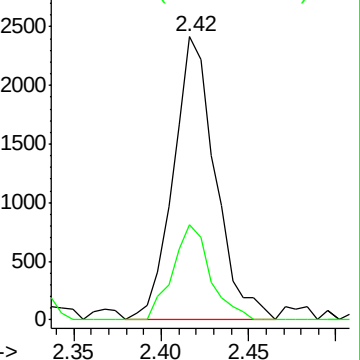
43 100

58 33.6 26.1 39.1

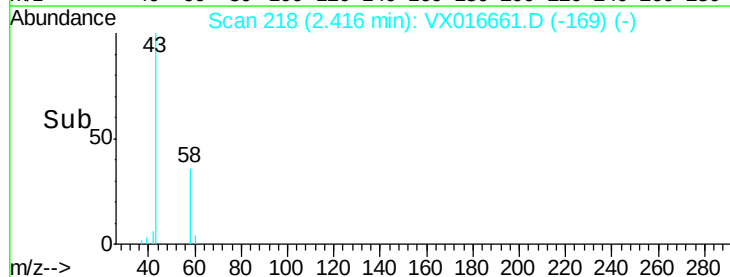


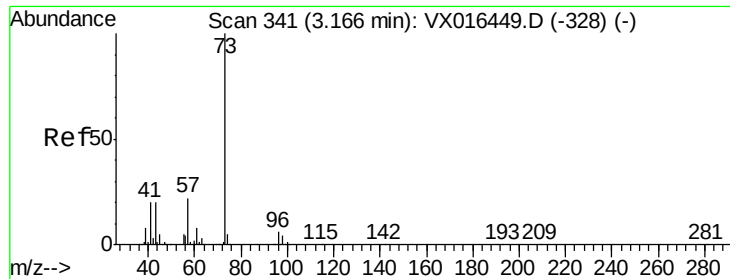
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

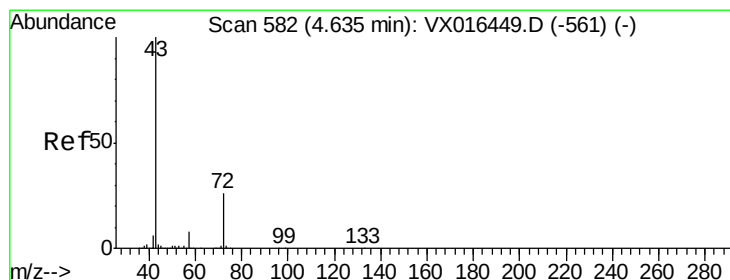
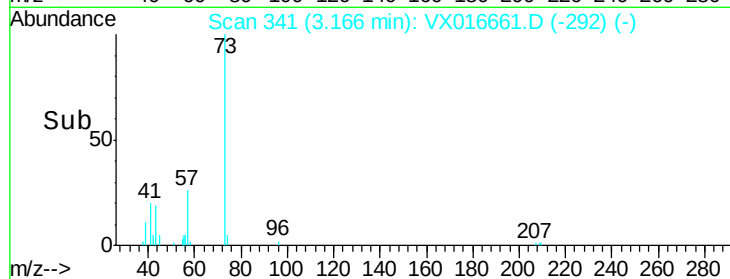
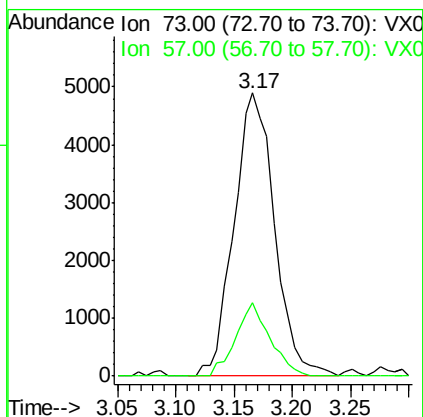
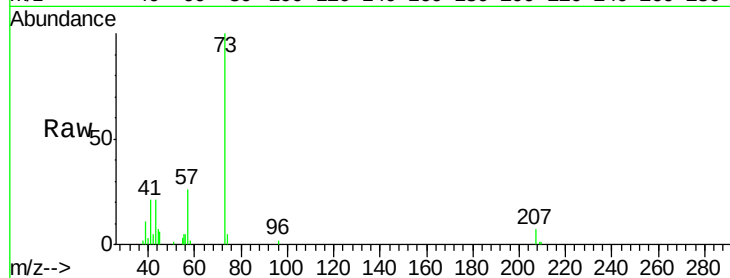




#19
Methvl tert-butyl Ether
Concen: 1.707 ug/l
RT: 3.17 min Scan# 341
Delta R.T. 0.00 min
Lab File: VX016661.D
Acq: 09 Jun 2020 14:08

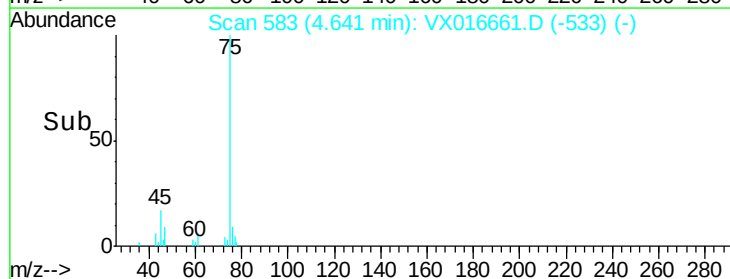
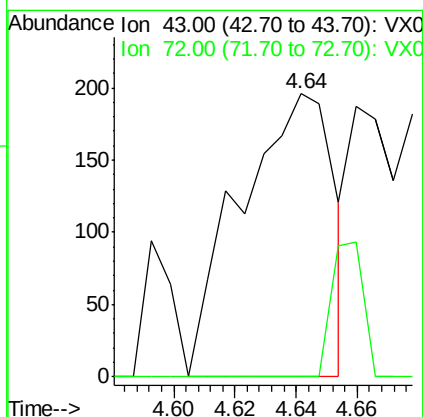
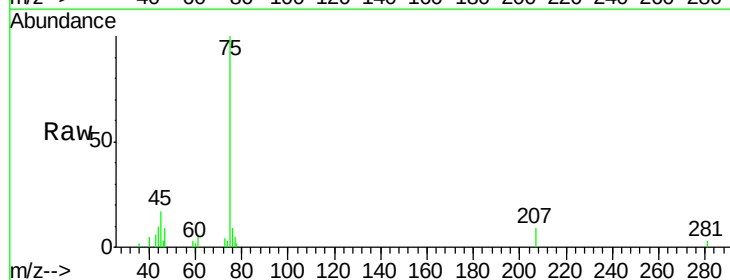
Instrument :
MSVOA_X
ClientSampled :
MW-2

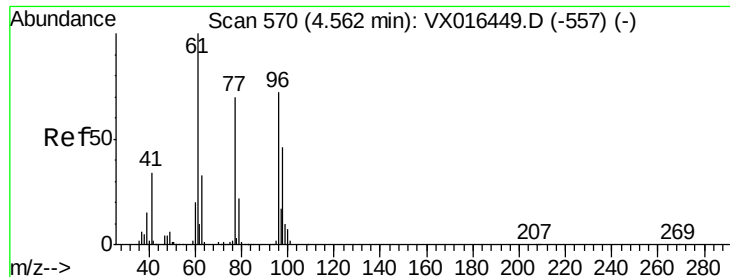
Tot Ion: 73 Resp: 11883
Ion Ratio Lower Upper
73 100
57 25.9 17.8 26.6



#25
2-Butanone
Concen: 0.224 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016661.D
Acq: 09 Jun 2020 14:08

Tgt Ion: 43 Resp: 416
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#





#27

cis-1,2-Dichloroethene

Concen: 0.892 ug/l

RT: 4.56 min Scan# 569

Delta R.T. -0.01 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

Instrument :

MSVOA_X

ClientSampled :

MW-2

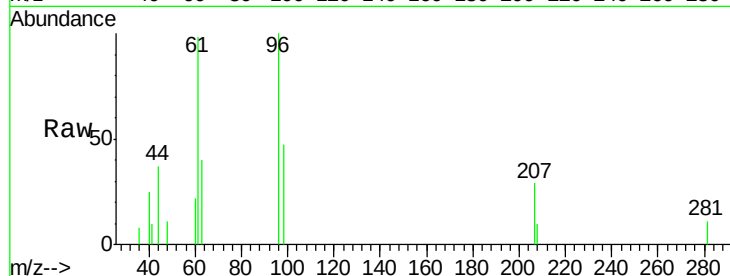
Tot Ion: 96 Resp: 2214

Ion Ratio Lower Upper

96 100

61 115.2 0.0 284.6

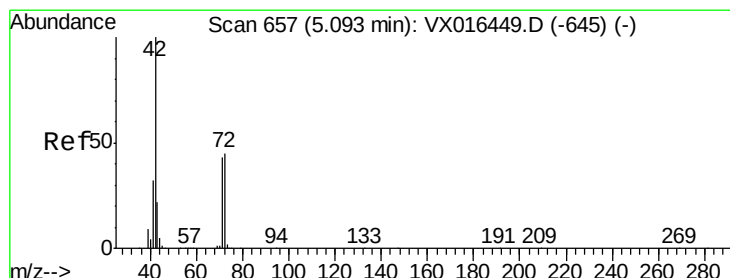
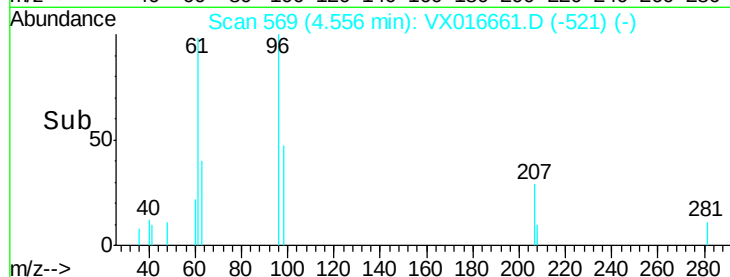
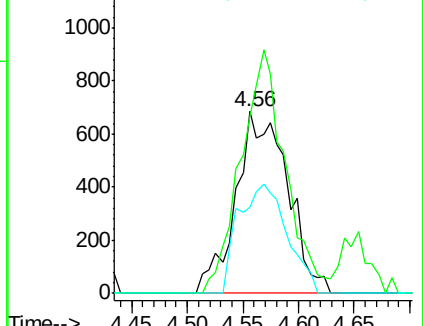
98 56.2 0.0 127.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.837 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

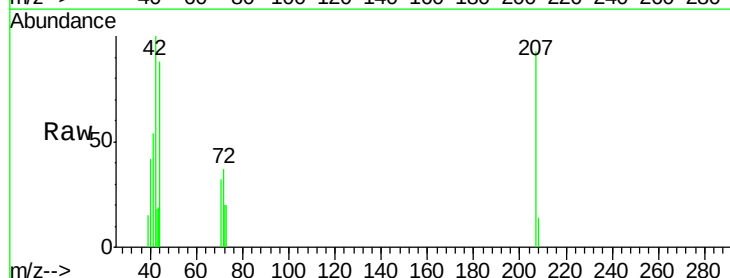
Tgt Ion: 42 Resp: 1005

Ion Ratio Lower Upper

42 100

72 42.6 37.0 55.4

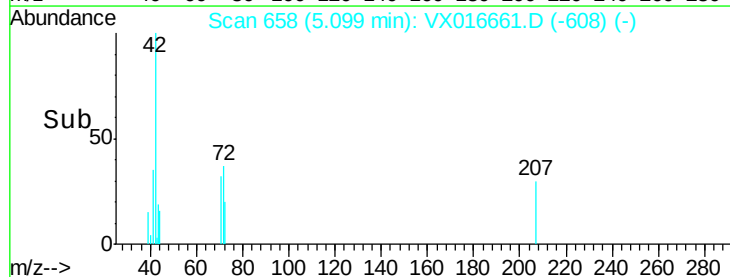
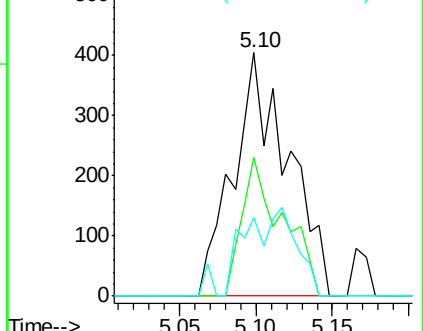
71 15.3 34.1 51.1#

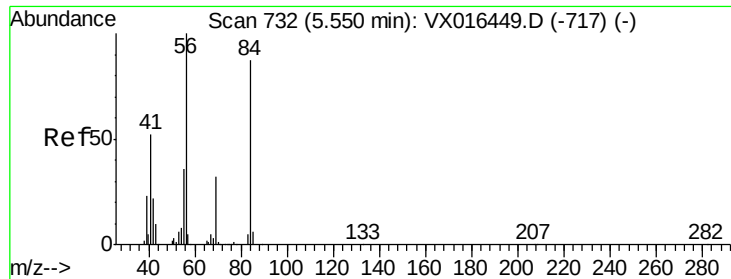


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

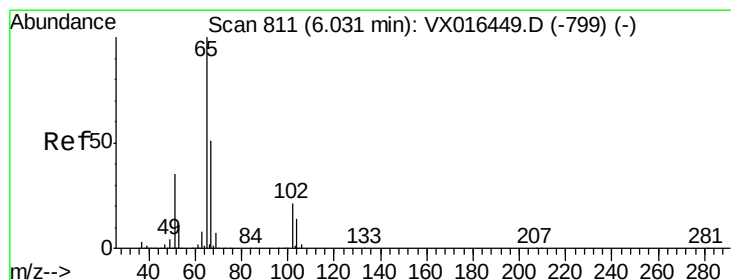
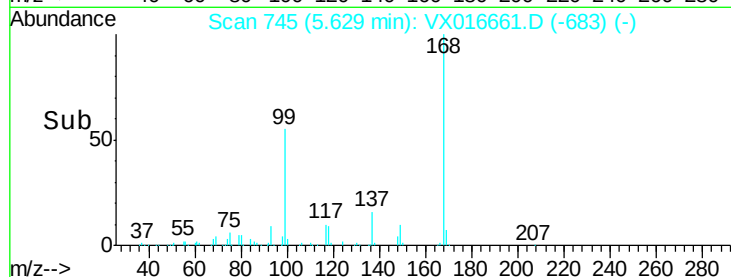
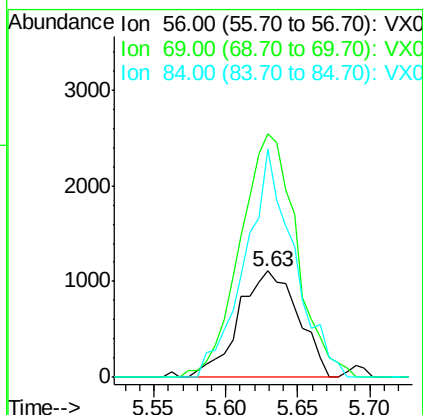
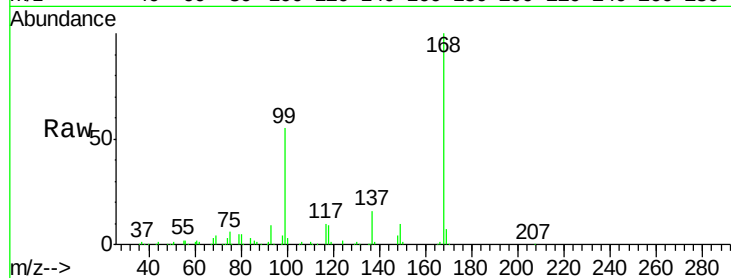




#31
Cyclohexane
Concen: 0.917 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016661.D
Acq: 09 Jun 2020 14:08

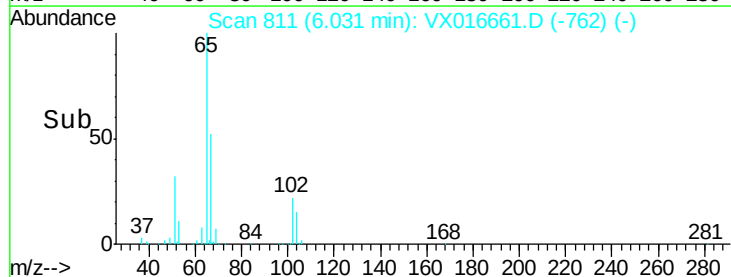
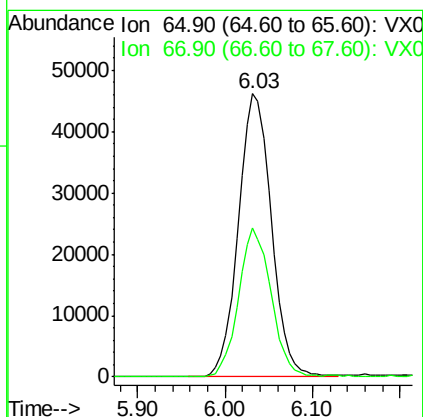
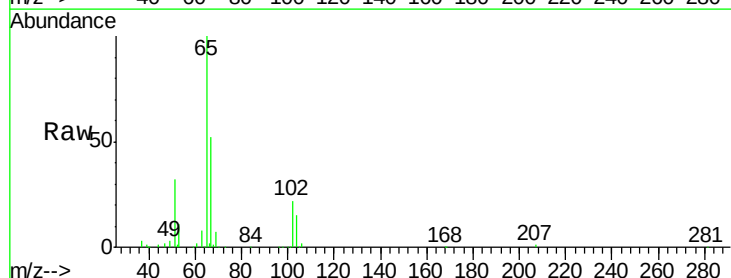
Instrument :
MSVOA_X
ClientSampled :
MW-2

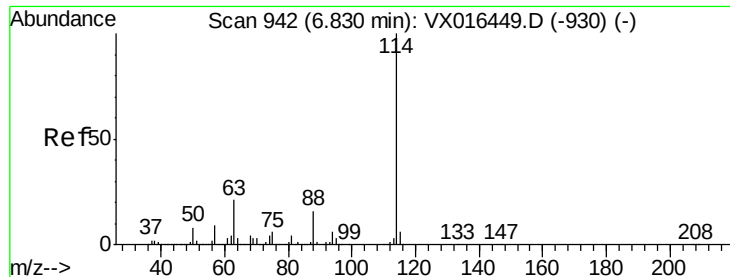
Tot Ion: 56 Resp: 3189
Ion Ratio Lower Upper
56 100
69 222.2 25.7 38.5#
84 214.1 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.568 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX016661.D
Acq: 09 Jun 2020 14:08

Tgt Ion: 65 Resp: 121543
Ion Ratio Lower Upper
65 100
67 51.7 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

Instrument :

MSVOA_X

ClientSampled :

MW-2

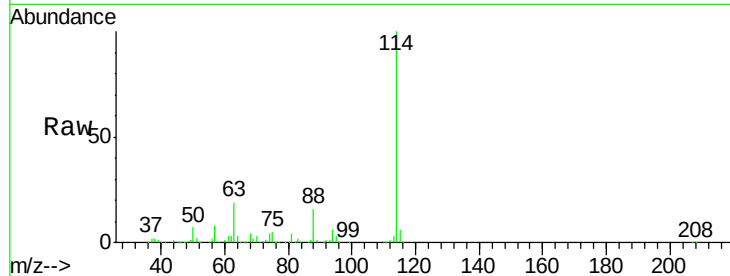
Tot Ion:114 Resp: 322310

Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.6

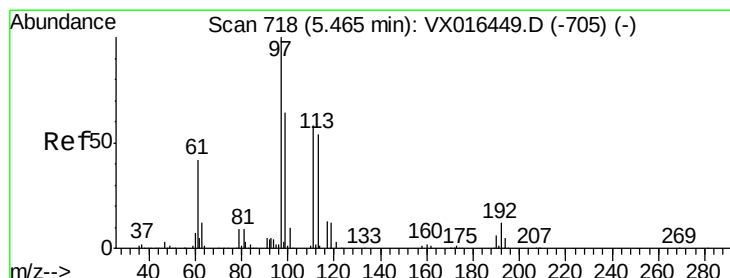
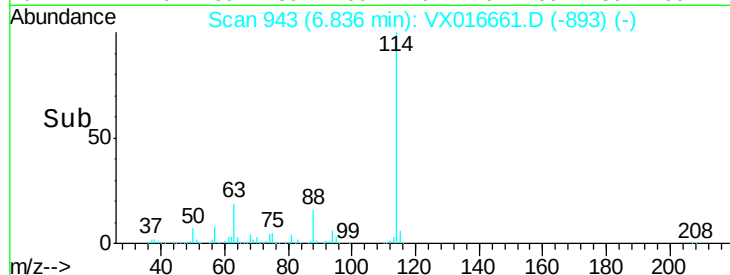
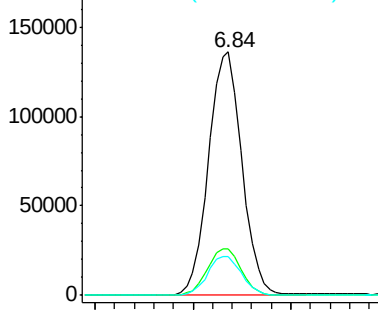
88 16.1 0.0 32.8



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: 49.509 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

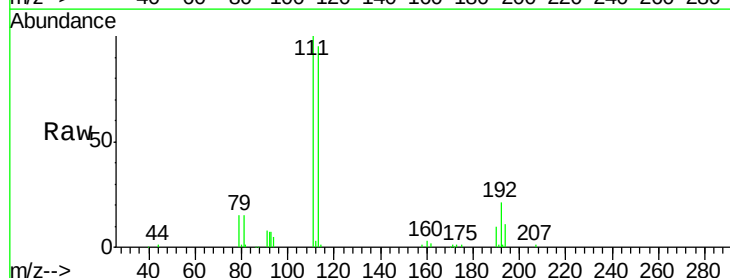
Tgt Ion:113 Resp: 98256

Ion Ratio Lower Upper

113 100

111 104.2 83.0 124.6

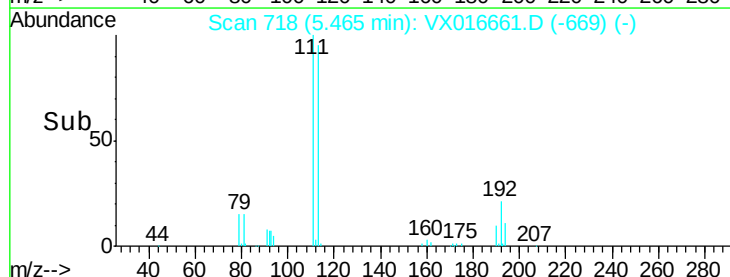
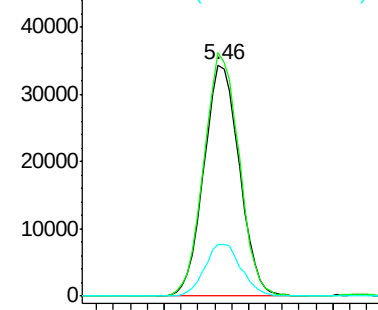
192 22.9 17.7 26.5

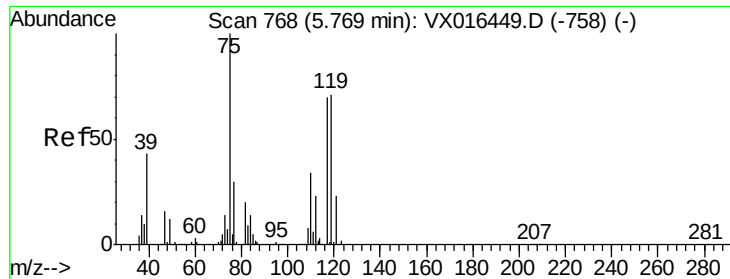


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

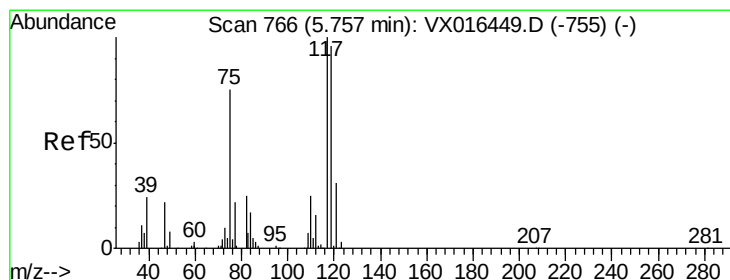
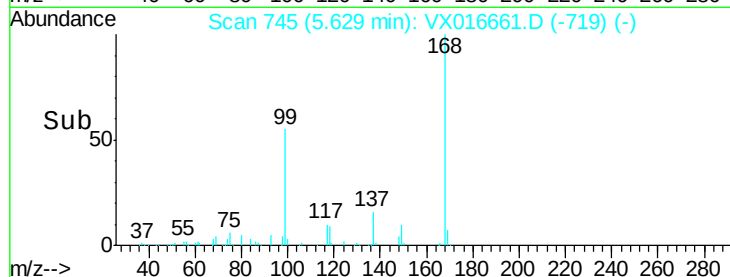
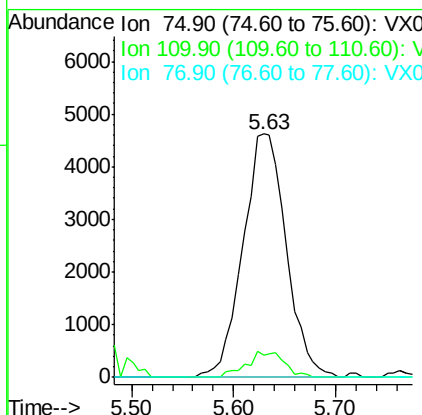
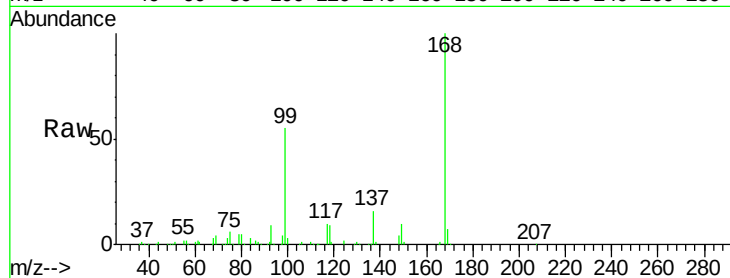




#36
 1,1-Dichloropropene
 Concen: 4.457 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016661.D
 Acq: 09 Jun 2020 14:08

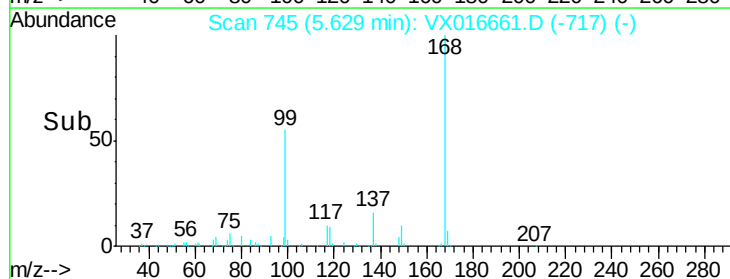
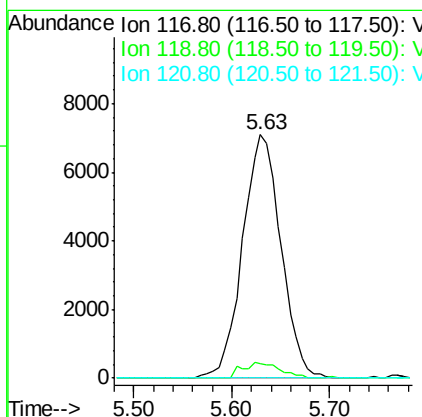
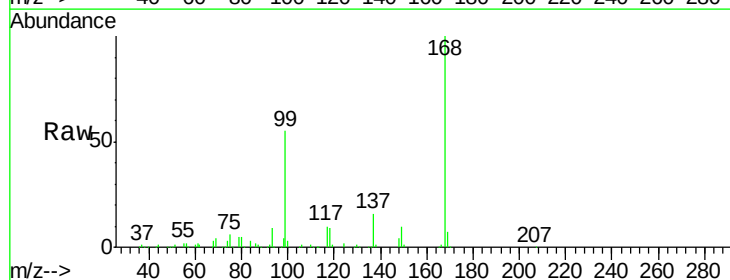
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

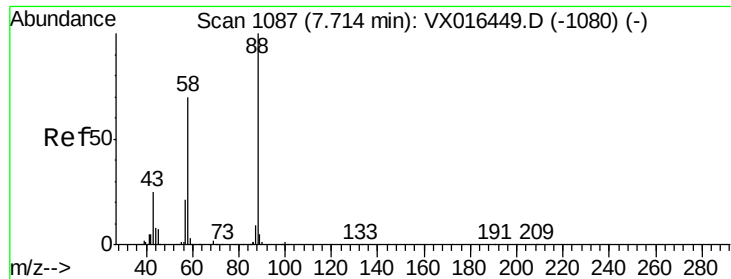
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	17.4	52.3#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 6.011 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016661.D
 Acq: 09 Jun 2020 14:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.3	114.5#
121	0.0	24.6	37.0#





#49

1,4-Dioxane

Concen: 3.748 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

Instrument :

MSVOA_X

ClientSampleId :

MW-2

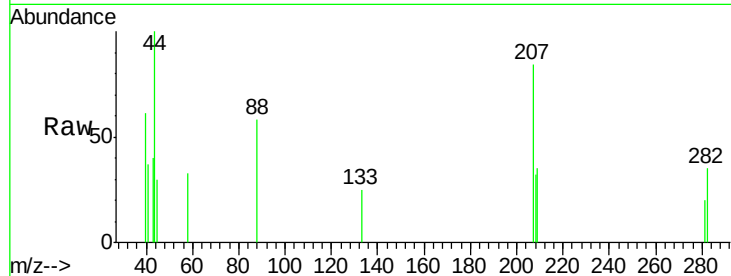
Tot Ion: 88 Resp: 240

Ion Ratio Lower Upper

88 100

43 20.0 24.2 36.4#

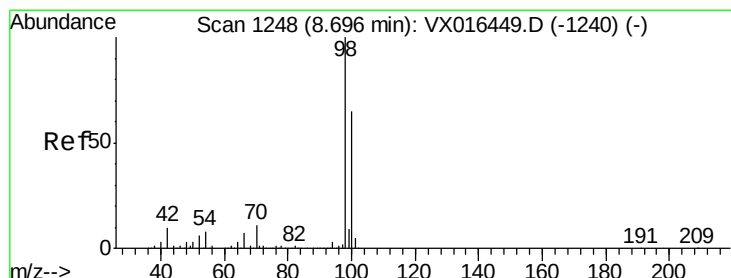
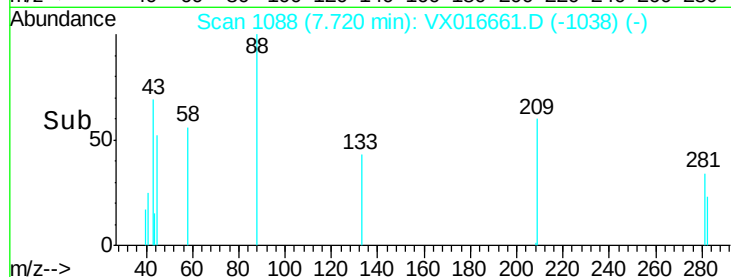
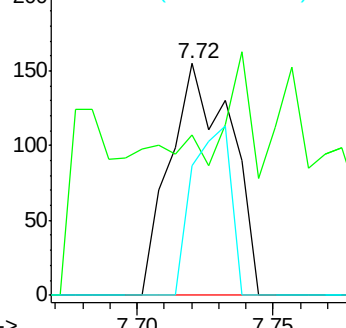
58 46.3 56.5 84.7#



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



#50

Toluene-d8

Concen: 51.223 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016661.D

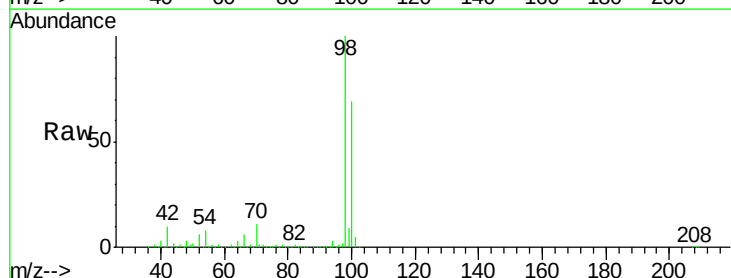
Acq: 09 Jun 2020 14:08

Tgt Ion: 98 Resp: 395670

Ion Ratio Lower Upper

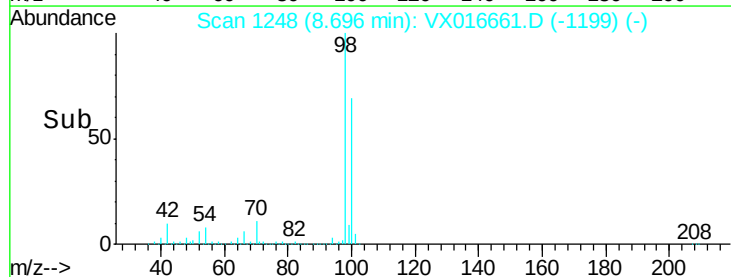
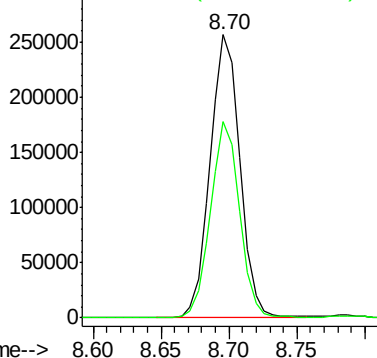
98 100

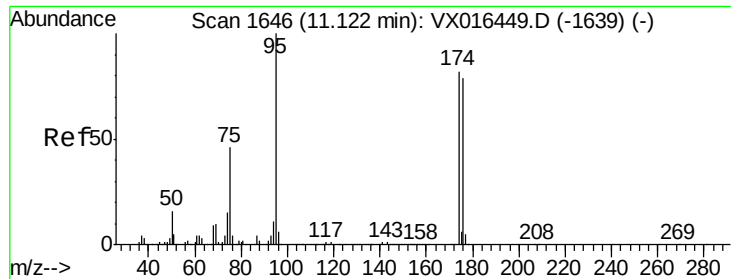
100 67.5 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

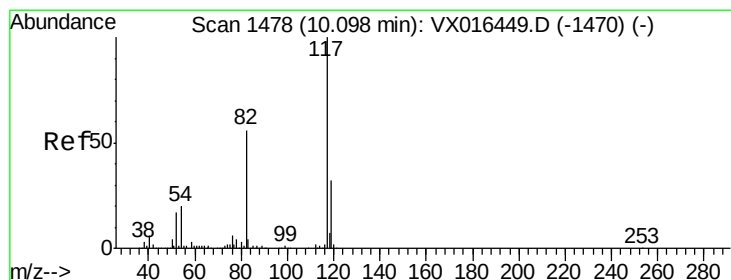
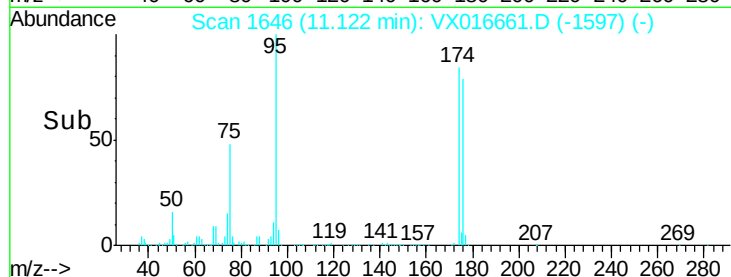
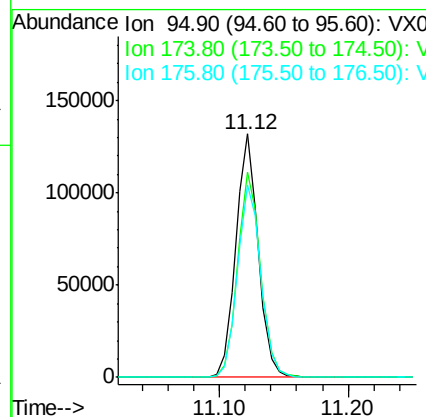
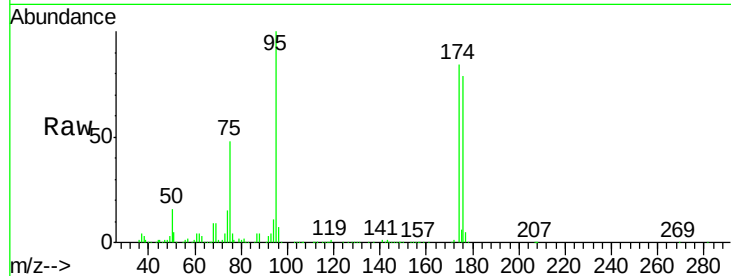




#62
4-Bromofluorobenzene
Concen: 53.663 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016661.D
Acq: 09 Jun 2020 14:08

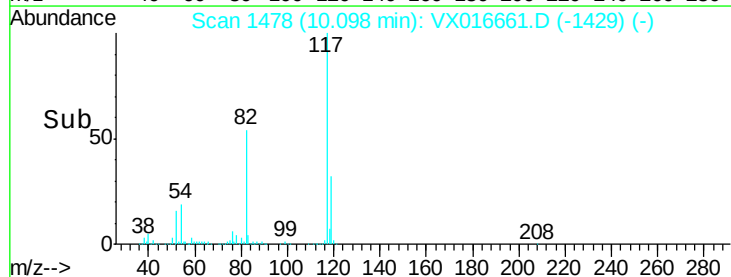
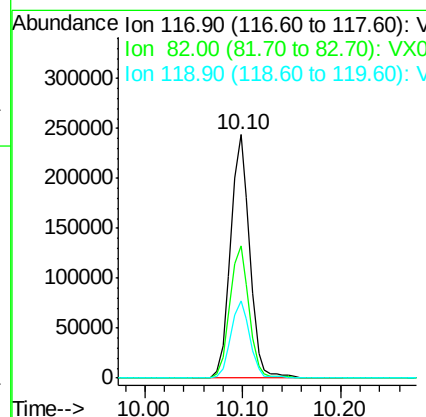
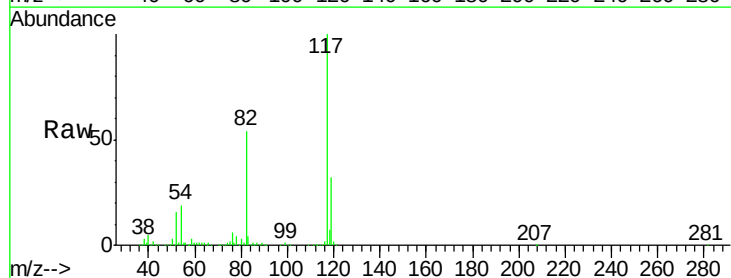
Instrument :
MSVOA_X
ClientSampleId :
MW-2

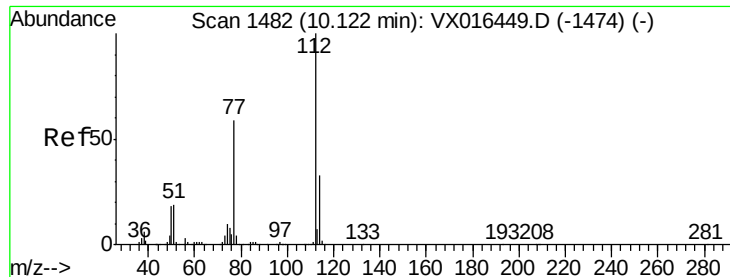
Tot Ion: 95 Resp: 160170
Ion Ratio Lower Upper
95 100
174 86.5 0.0 163.0
176 82.4 0.0 156.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016661.D
Acq: 09 Jun 2020 14:08

Tgt Ion: 117 Resp: 330197
Ion Ratio Lower Upper
117 100
82 54.1 45.0 67.6
119 31.7 25.8 38.8





#65

Chlorobenzene

Concen: 0.544 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

Instrument :

MSVOA_X

ClientSampleId :

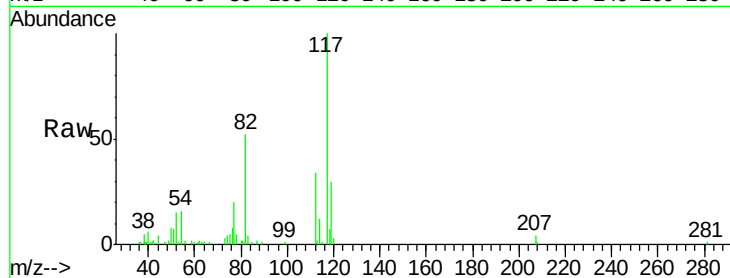
MW-2

Tot Ion:112 Resp: 3663

Ion Ratio Lower Upper

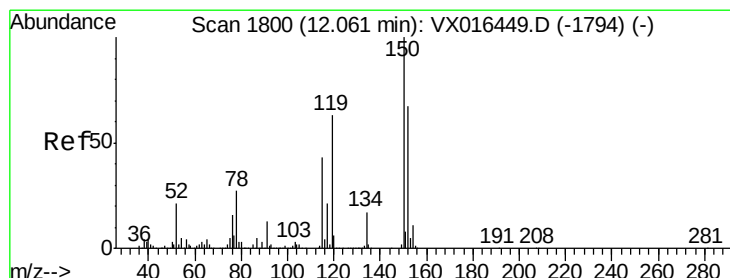
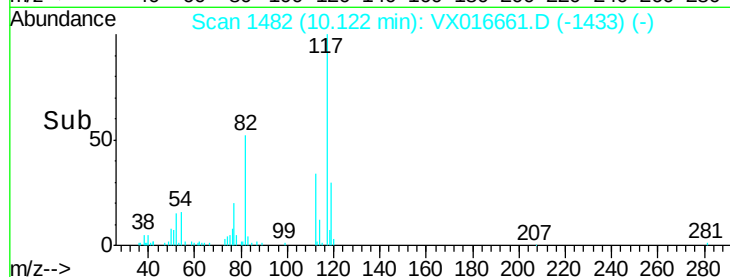
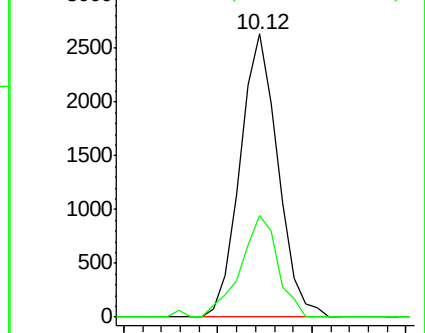
112 100

114 36.0 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

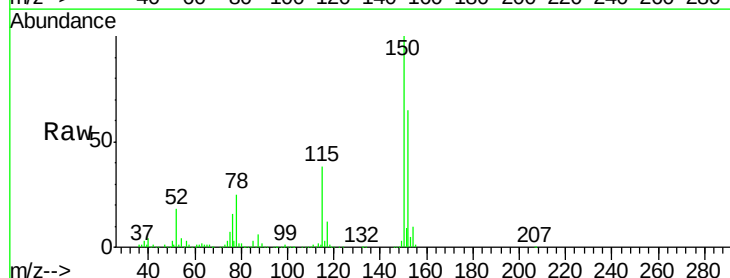
Tgt Ion:152 Resp: 168975

Ion Ratio Lower Upper

152 100

115 57.9 39.9 119.6

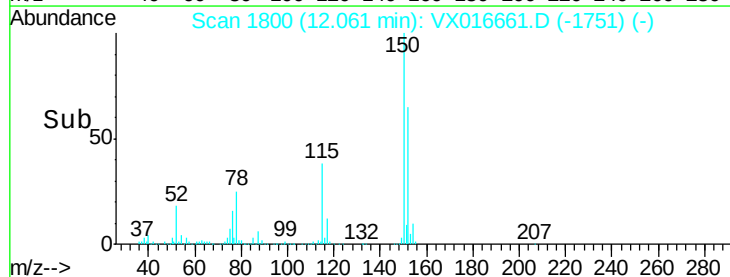
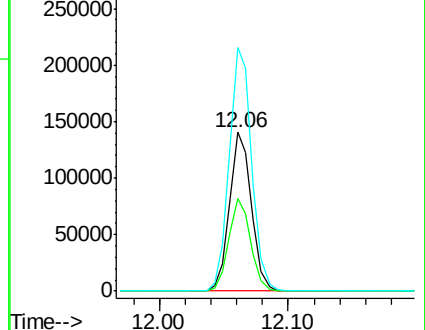
150 156.7 0.0 341.0

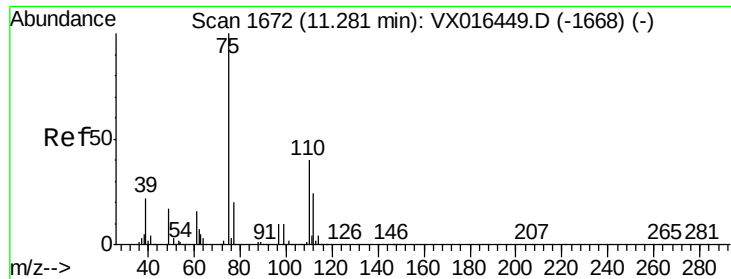


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.963 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

Instrument :

MSVOA_X

ClientSampleId :

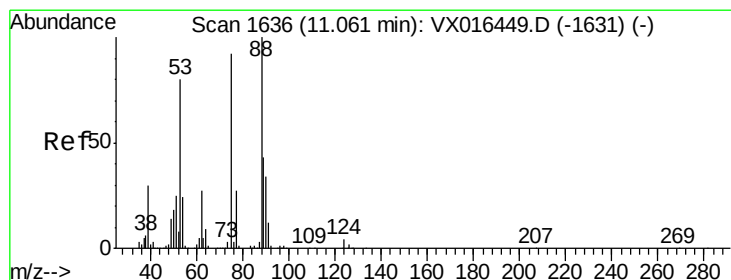
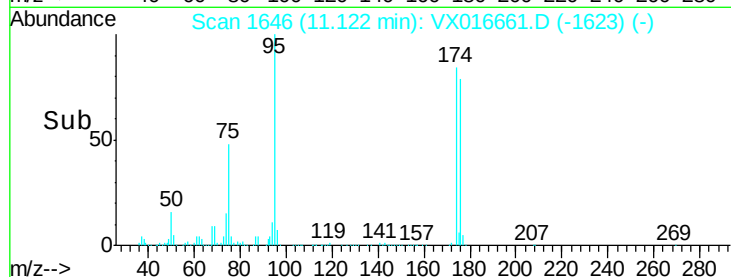
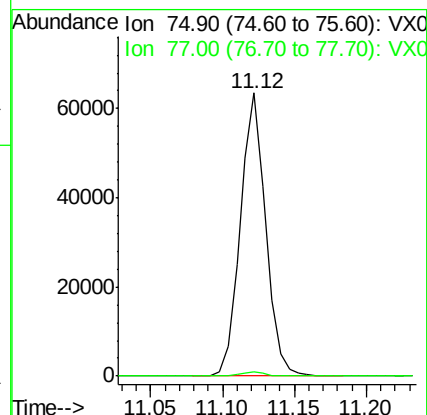
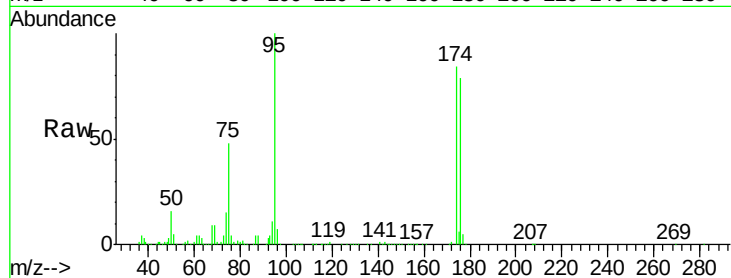
MW-2

Tot Ion: 75 Resp: 77861

Ion Ratio Lower Upper

75 100

77 1.4 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.567 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016661.D

Acq: 09 Jun 2020 14:08

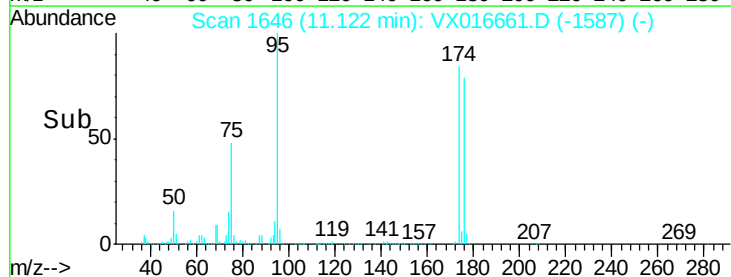
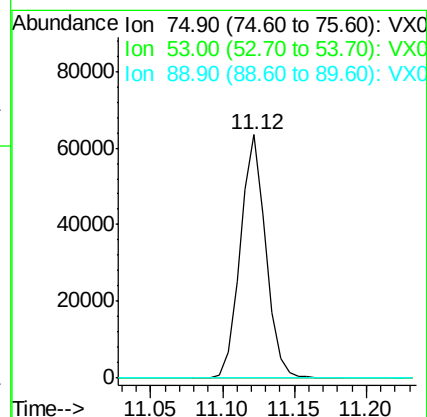
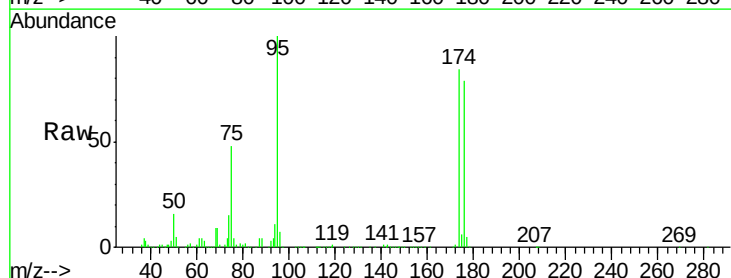
Tgt Ion: 75 Resp: 77861

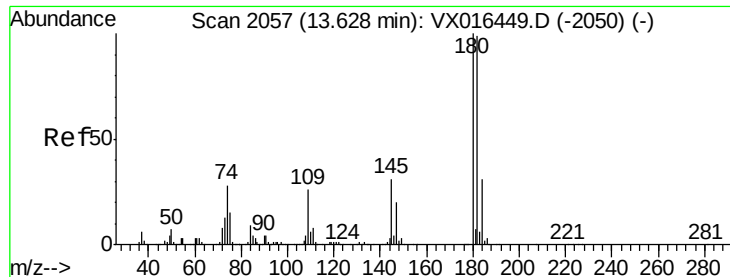
Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.0 36.6 55.0#

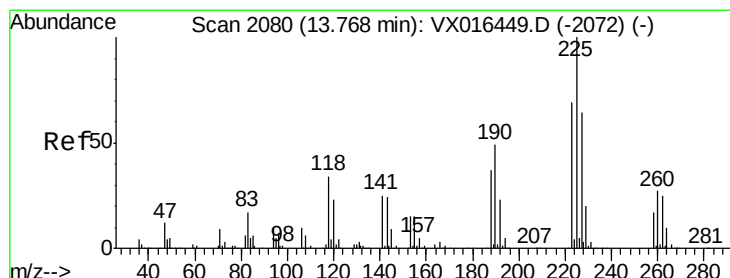
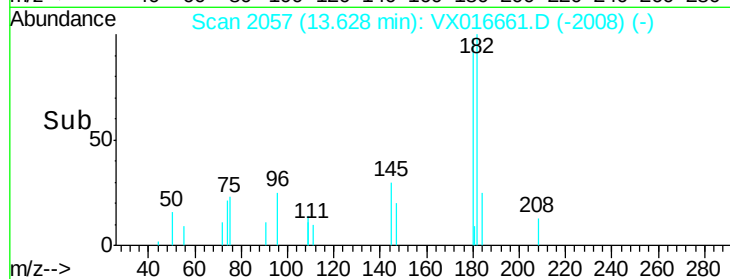
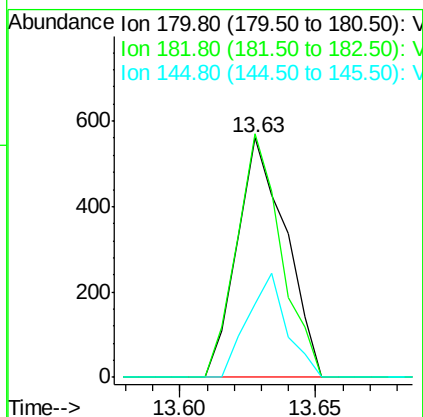
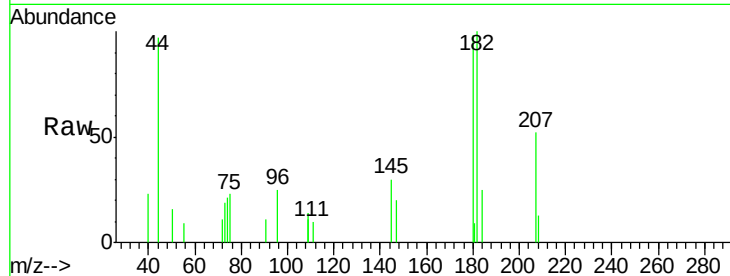




#93
 1,2,4-Trichlorobenzene
 Concen: 0.204 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX016661.D
 Acq: 09 Jun 2020 14:08

Instrument :
 MSVOA_X
 ClientSampled :
 MW-2

Tot Ion:180 Resp: 699
 Ion Ratio Lower Upper
 180 100
 182 92.3 48.3 144.8
 145 34.9 15.4 46.2



#94
 Hexachlorobutadiene
 Concen: 0.382 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX016661.D
 Acq: 09 Jun 2020 14:08

Tgt Ion:225 Resp: 514
 Ion Ratio Lower Upper
 225 100
 223 75.1 32.3 96.8
 227 67.5 31.6 94.7

