

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063020\
 Data File : VX017052.D
 Acq On : 30 Jun 2020 17:56
 Operator : JC/SP
 Sample : L3123-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Jul 01 08:09:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

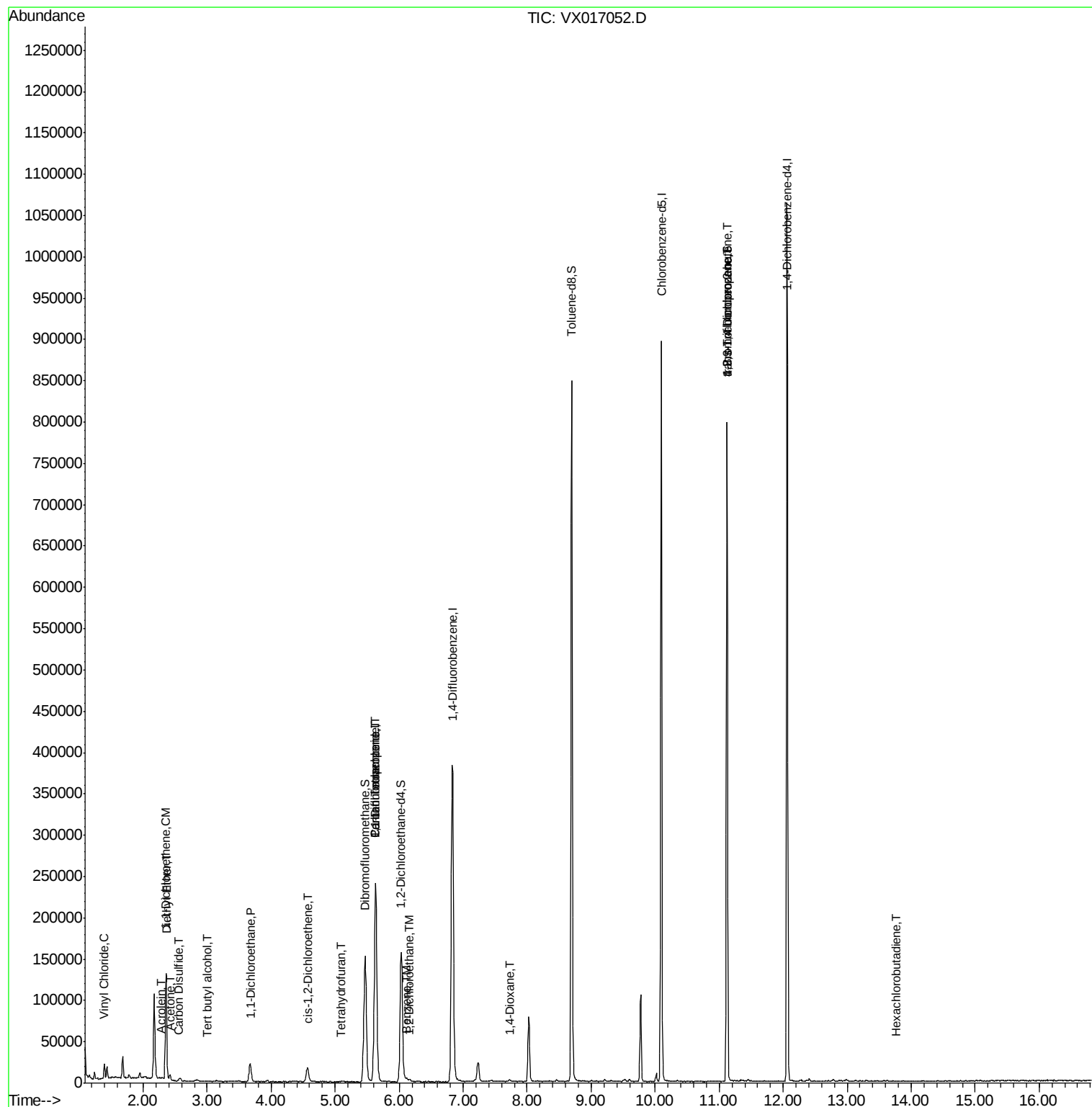
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	233869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	397628	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	413249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211854	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	151472	52.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.08%	
35) Dibromofluoromethane	5.47	113	130867	52.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.06%	
50) Toluene-d8	8.70	98	491315	52.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.64%	
62) 4-Bromofluorobenzene	11.12	95	201765	55.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.98%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.39	62	10198	4.013	ug/l	99
8) Diethyl Ether	2.37	74	135	0.471	ug/l	59
11) Tert butyl alcohol	3.01	59	286	0.520	ug/l #	90
12) 1,1-Dichloroethene	2.36	96	44794	19.359	ug/l	100
13) Acrolein	2.27	56	215	0.654	ug/l #	1
16) Acetone	2.42	43	7317	6.784	ug/l	93
17) Carbon Disulfide	2.55	76	1731	0.291	ug/l #	59
20) Methylene Chloride	2.84	84	509	Below Cal	#	71
24) 1,1-Dichloroethane	3.67	63	25457	5.653	ug/l	98
27) cis-1,2-Dichloroethene	4.57	96	10936	3.759	ug/l	87
29) Tetrahydrofuran	5.09	42	414	0.349	ug/l #	53
36) 1,1-Dichloropropene	5.63	75	17140	4.561	ug/l #	50
38) Carbon Tetrachloride	5.63	117	23223	5.610	ug/l #	19
40) Benzene	6.12	78	4581	0.415	ug/l	99
42) 1,2-Dichloroethane	6.17	62	2142	0.537	ug/l	94
44) Trichloroethene	7.19	130	861	Below Cal		68
49) 1,4-Dioxane	7.72	88	1693	24.826	ug/l #	84
76) 1,2,3-Trichloropropane	11.12	75	99857	23.970	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	99857	62.073	ug/l #	14
88) 1,4-Dichlorobenzene	12.08	146	326	Below Cal	#	25
94) Hexachlorobutadiene	13.76	225	20	0.856	ug/l #	17

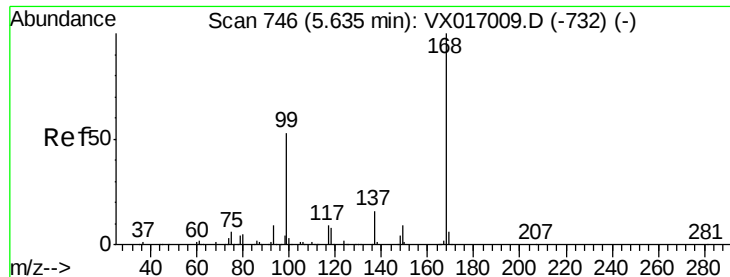
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

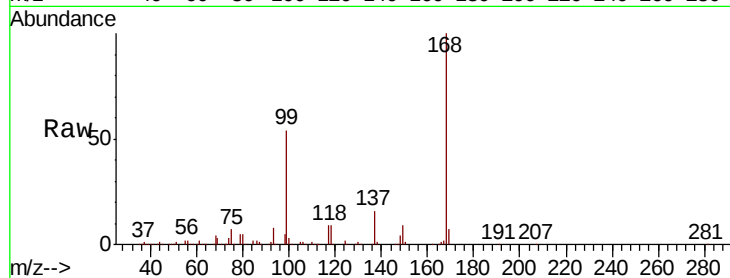
MW-3

Tot Ion:168 Resp: 233869

Ion Ratio Lower Upper

168 100

99 53.7 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

60000

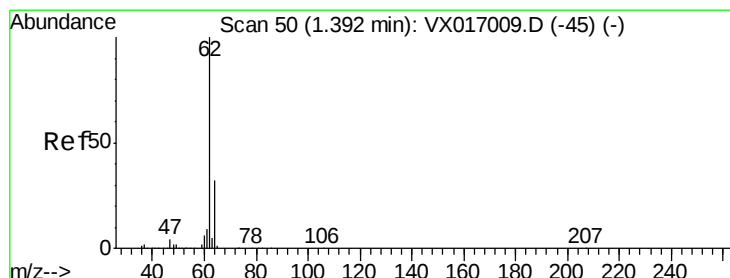
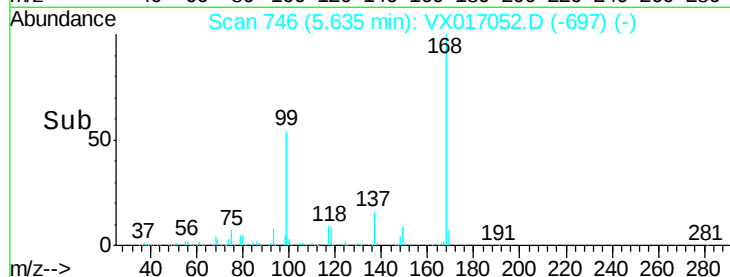
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#4

Vinyl Chloride

Concen: 4.013 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017052.D

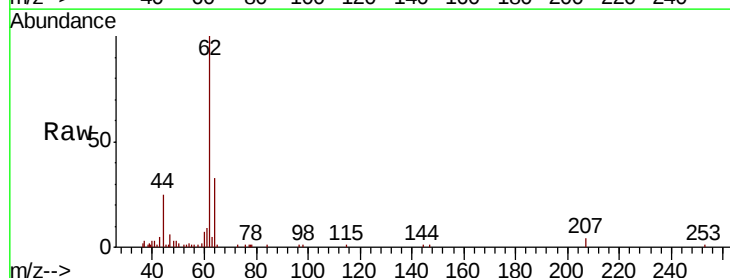
Acq: 30 Jun 2020 17:56

Tgt Ion: 62 Resp: 10198

Ion Ratio Lower Upper

62 100

64 32.8 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

10000

8000

6000

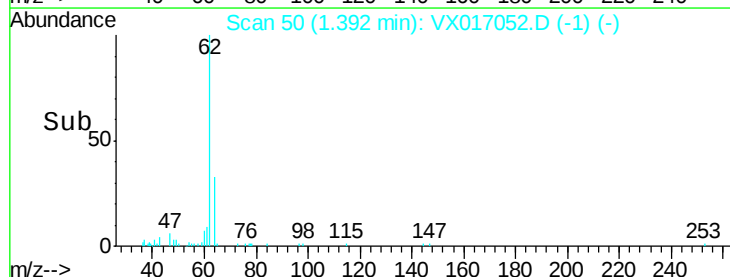
4000

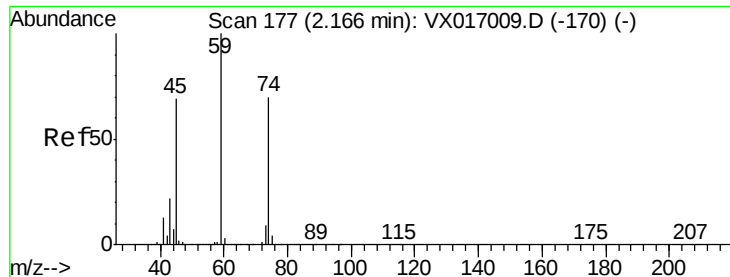
2000

0

1.30 1.35 1.40 1.45 1.50

Time-->





#8

Diethyl Ether

Concen: 0.471 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.20 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

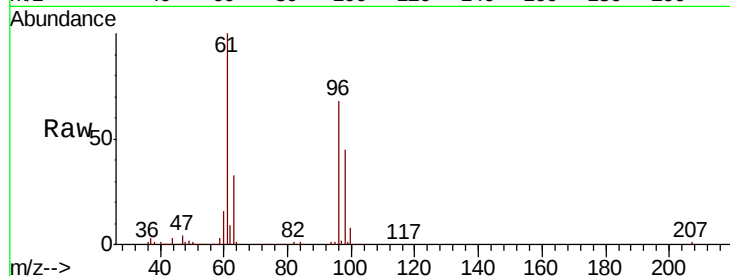
MW-3

Tot Ion: 74 Resp: 135

Ion Ratio Lower Upper

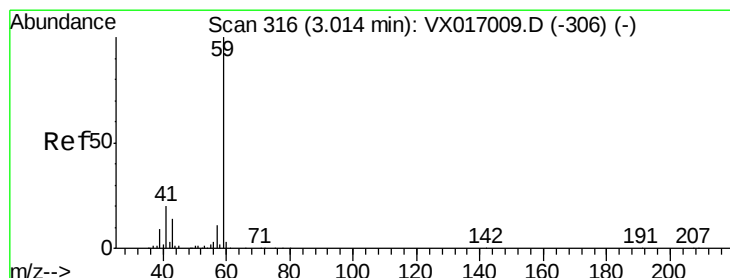
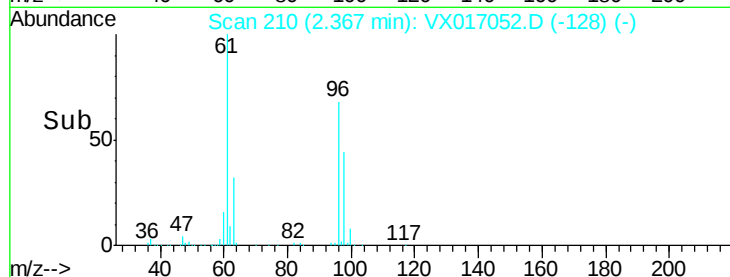
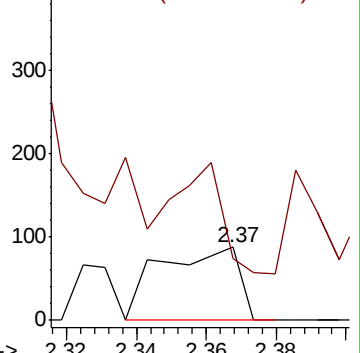
74 100

45 58.5 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.520 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017052.D

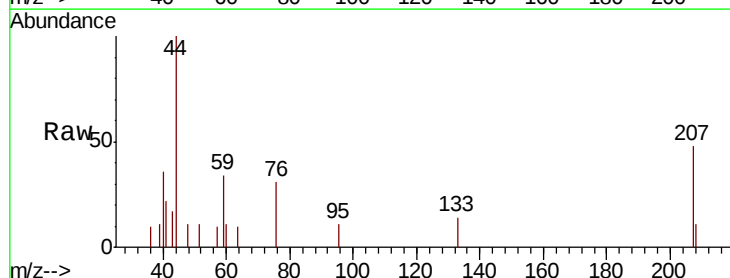
Acq: 30 Jun 2020 17:56

Tgt Ion: 59 Resp: 286

Ion Ratio Lower Upper

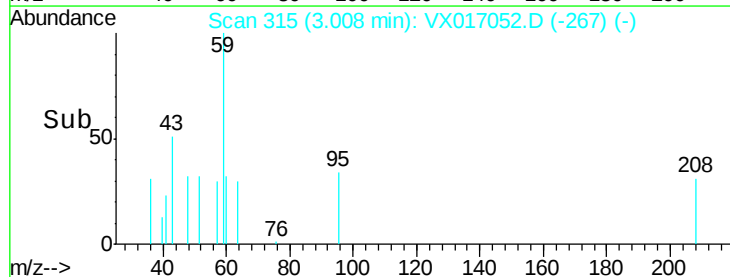
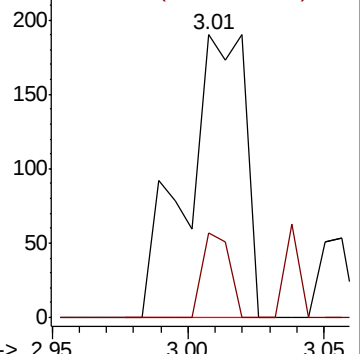
59 100

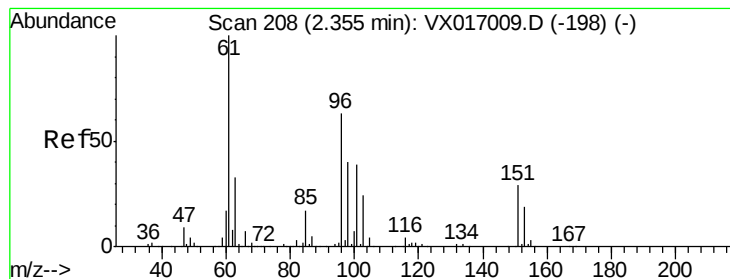
57 14.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 19.359 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

MW-3

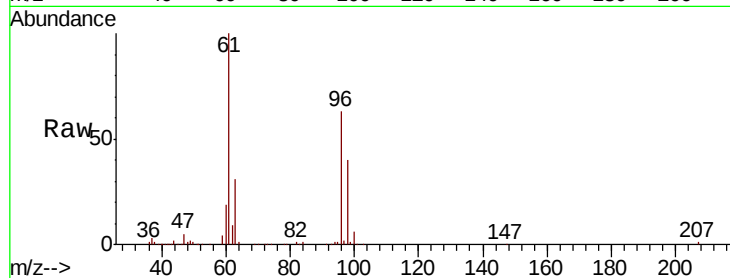
Tot Ion: 96 Resp: 44794

Ion Ratio Lower Upper

96 100

61 158.8 126.3 189.5

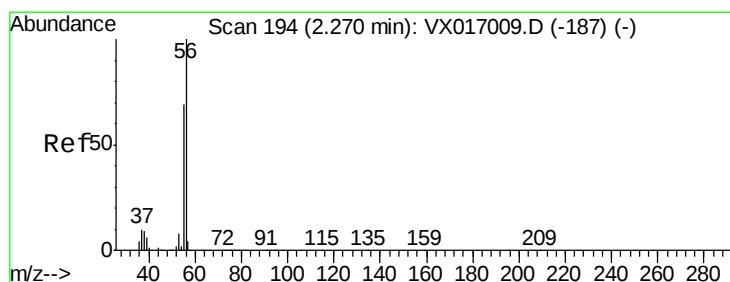
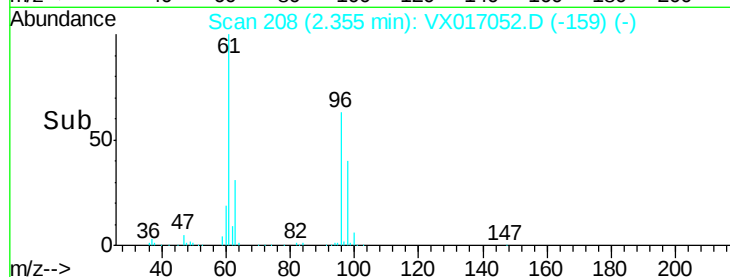
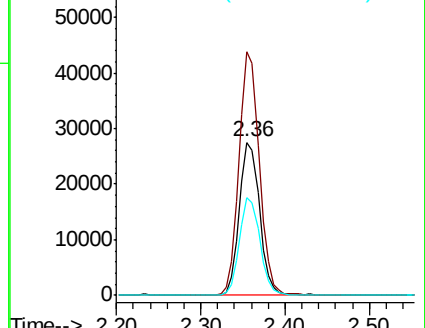
98 63.8 51.0 76.6



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



#13

Acrolein

Concen: 0.654 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX017052.D

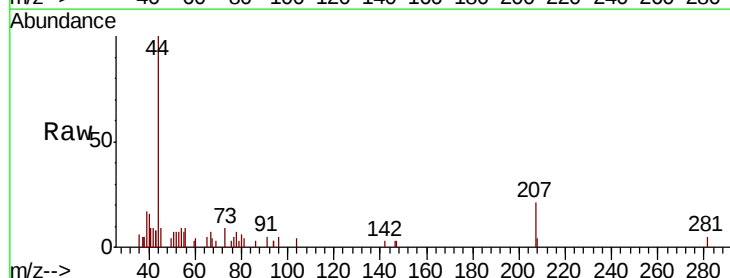
Acq: 30 Jun 2020 17:56

Tgt Ion: 56 Resp: 215

Ion Ratio Lower Upper

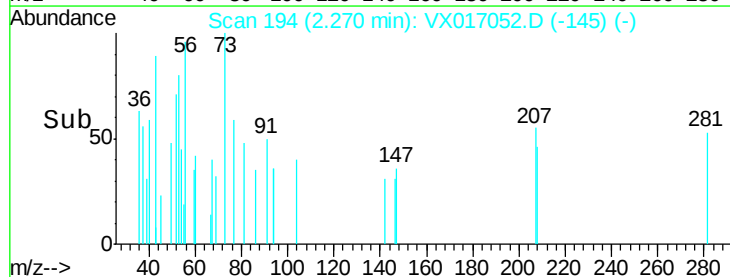
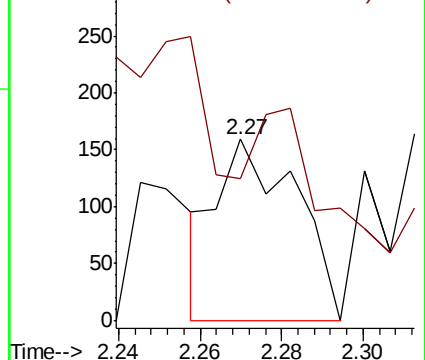
56 100

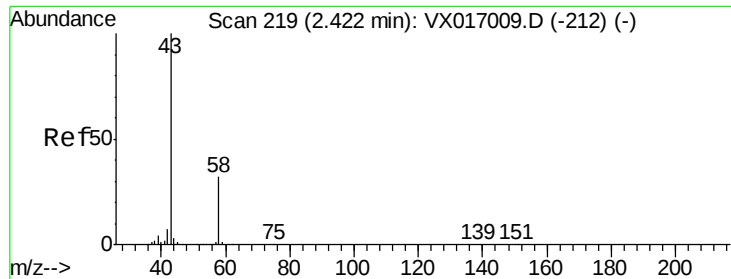
55 185.6 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 6.784 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

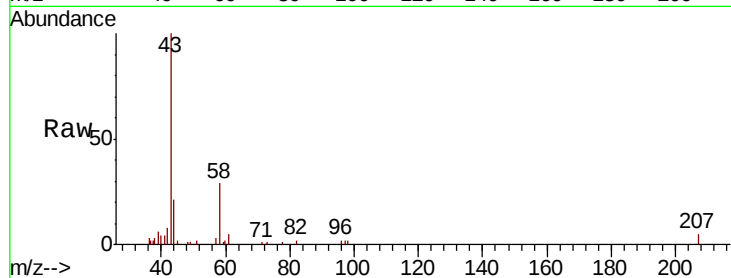
MW-3

Tot Ion: 43 Resp: 7317

Ion Ratio Lower Upper

43 100

58 28.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

5000

4000

3000

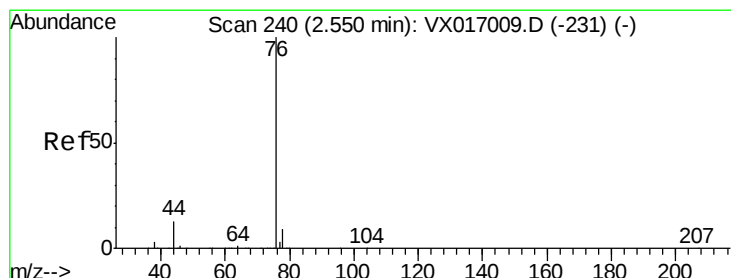
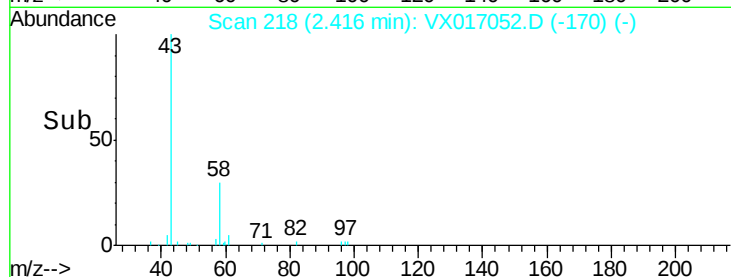
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.291 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017052.D

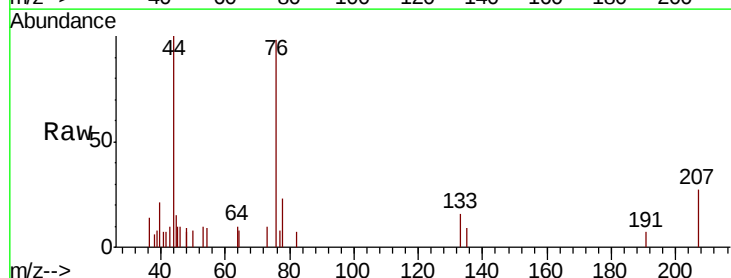
Acq: 30 Jun 2020 17:56

Tgt Ion: 76 Resp: 1731

Ion Ratio Lower Upper

76 100

78 23.7 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.55

800

600

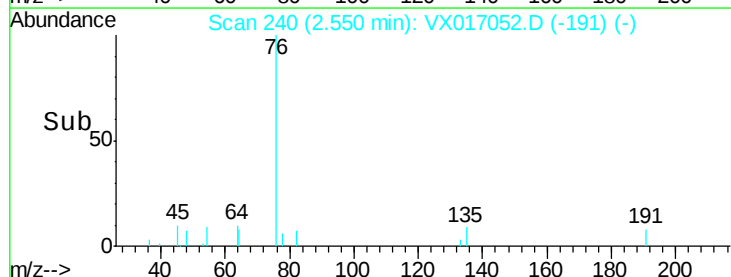
400

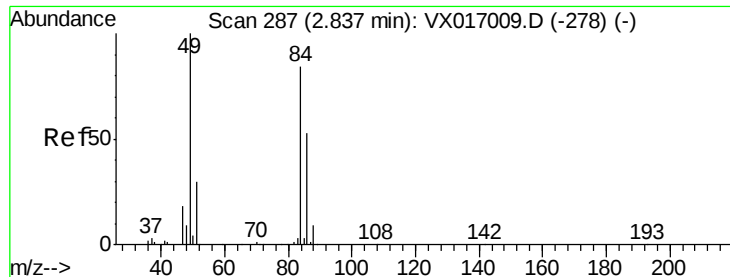
200

0

Time-->

2.50 2.55 2.60

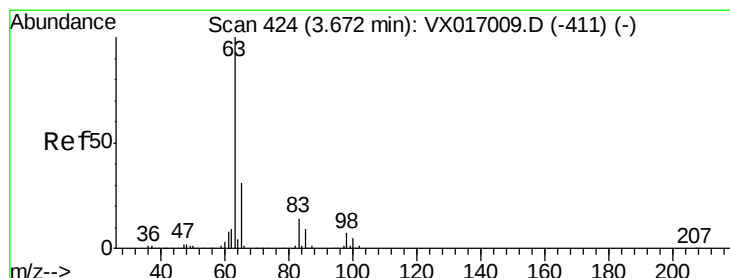
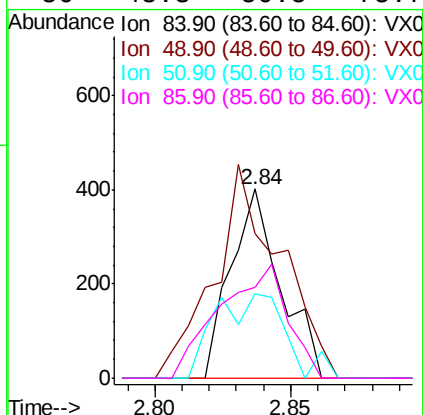
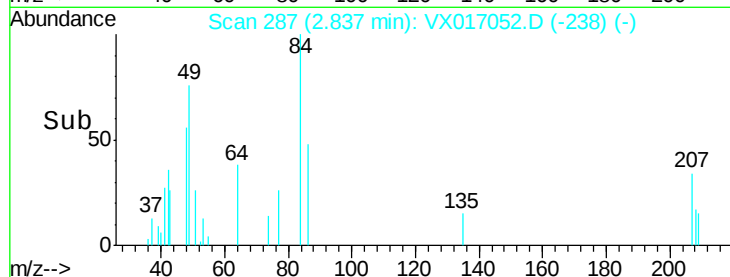
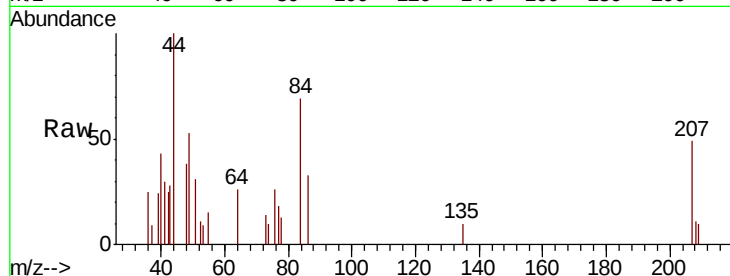




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017052.D
Acq: 30 Jun 2020 17:56

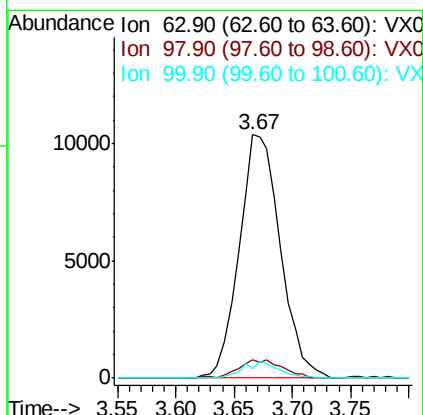
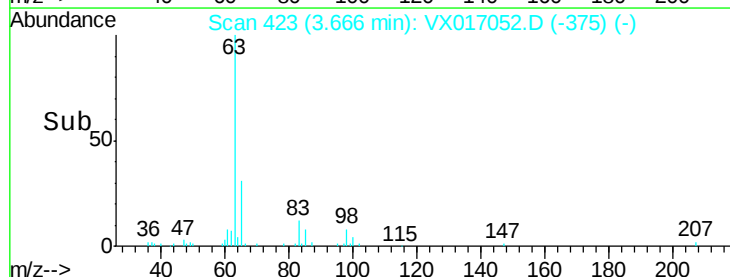
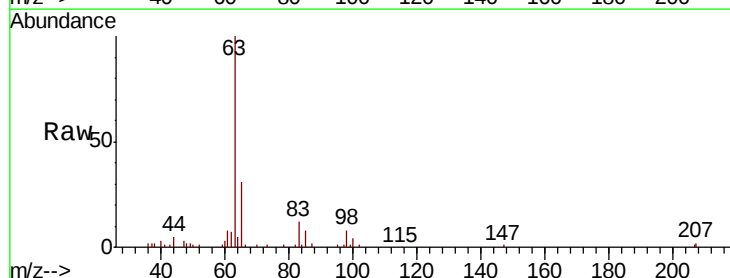
Instrument :
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ClientSampleId :
MW-3

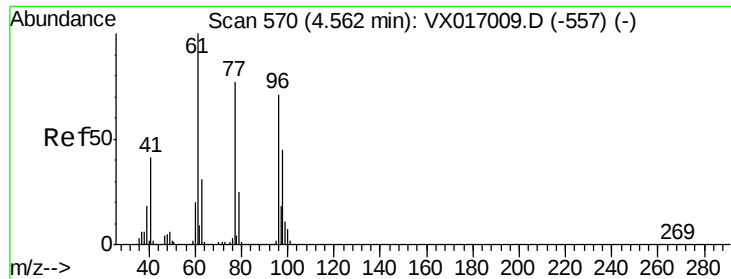
Tot Ion: 84 Resp: 509
Ion Ratio Lower Upper
84 100
49 76.4 94.7 142.1#
51 44.3 28.6 42.8#
86 48.3 50.5 75.7#



#24
1,1-Dichloroethane
Concen: 5.653 ug/l
RT: 3.67 min Scan# 423
Delta R.T. -0.01 min
Lab File: VX017052.D
Acq: 30 Jun 2020 17:56

Tgt Ion: 63 Resp: 25457
Ion Ratio Lower Upper
63 100
98 7.6 3.6 10.8
100 3.7 2.4 7.1



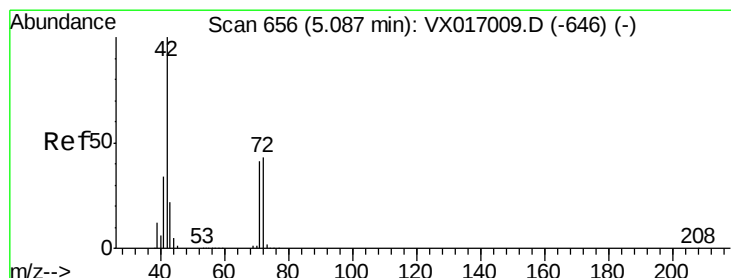
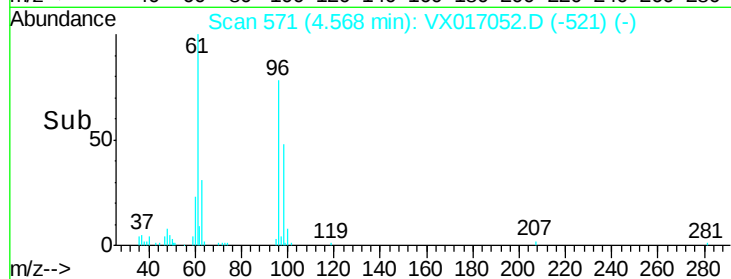
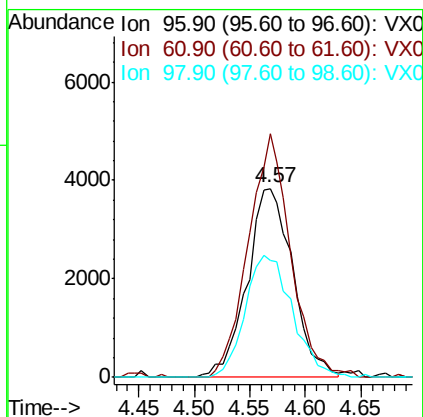
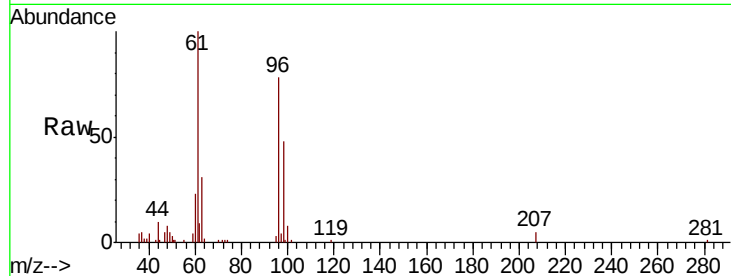


#27

cis-1,2-Dichloroethene
Concen: 3.759 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX017052.D
Acq: 30 Jun 2020 17:56

Instrument :
MSVOA_X
ClientSampleId :
MW-3

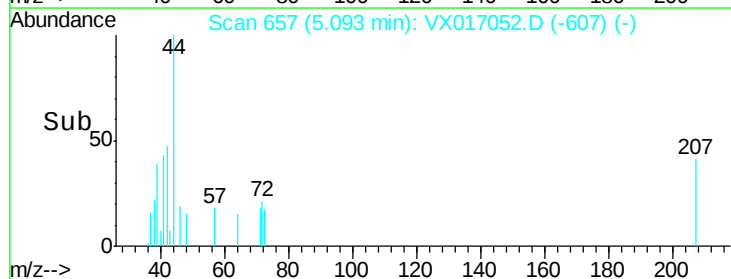
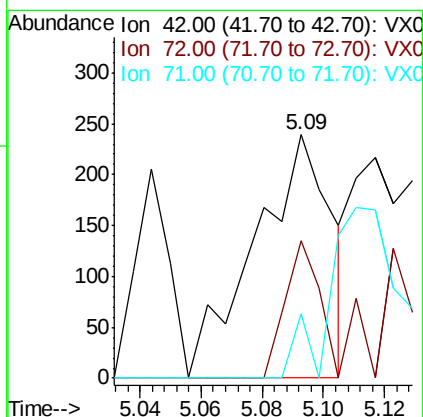
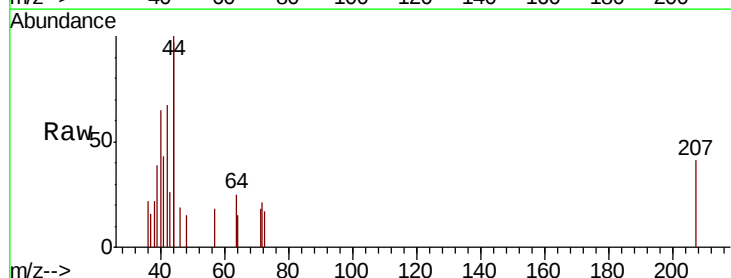
Tot Ion	Ratio	Lower	Upper
96	100		
61	120.1	0.0	282.8
98	66.7	0.0	127.6

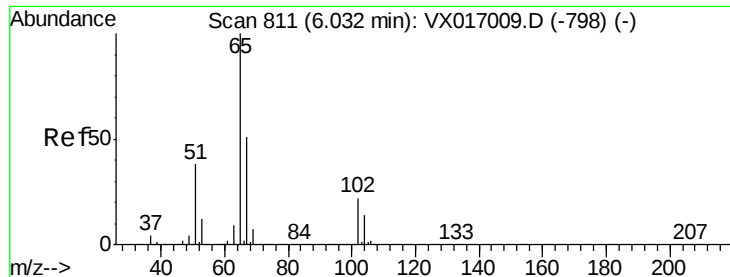


#29

Tetrahydrofuran
Concen: 0.349 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX017052.D
Acq: 30 Jun 2020 17:56

Tgt Ion	Ratio	Lower	Upper
42	100		
72	25.6	35.3	52.9#
71	0.0	33.1	49.7#





#33

1,2-Dichloroethane-d4

Concen: 52.537 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

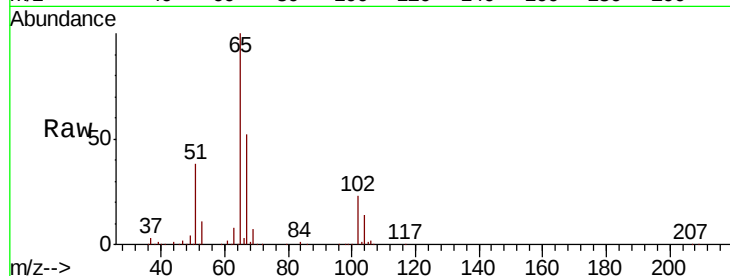
MW-3

Tot Ion: 65 Resp: 151472

Ion Ratio Lower Upper

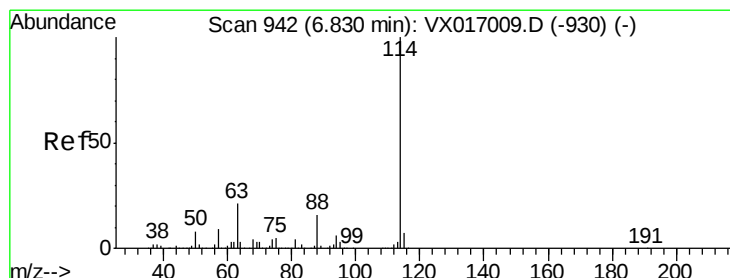
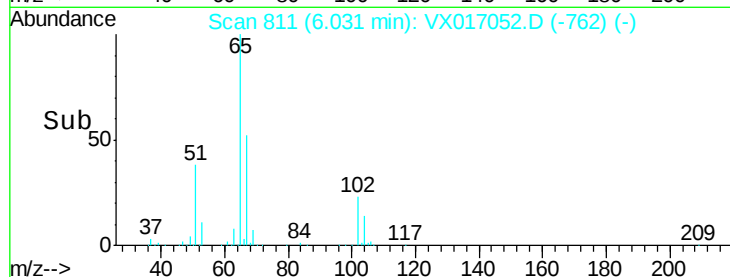
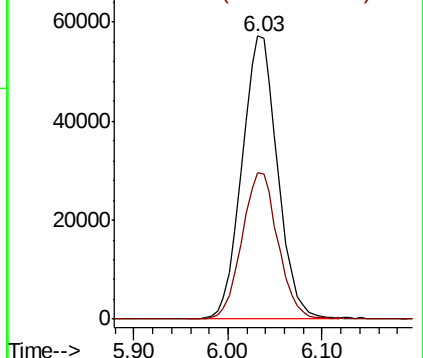
65 100

67 52.2 0.0 103.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

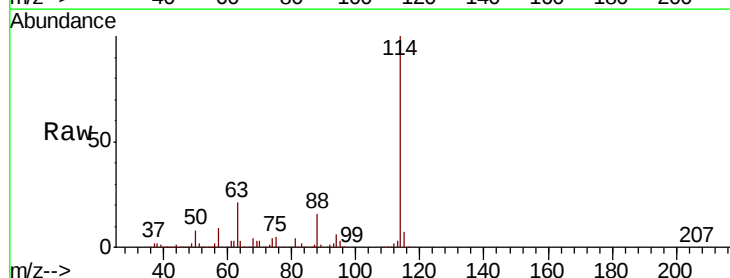
Tgt Ion: 114 Resp: 397628

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.4

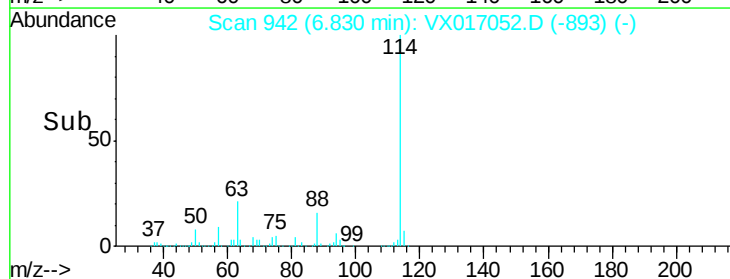
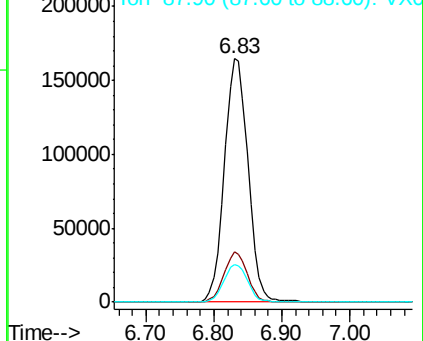
88 15.6 0.0 32.4

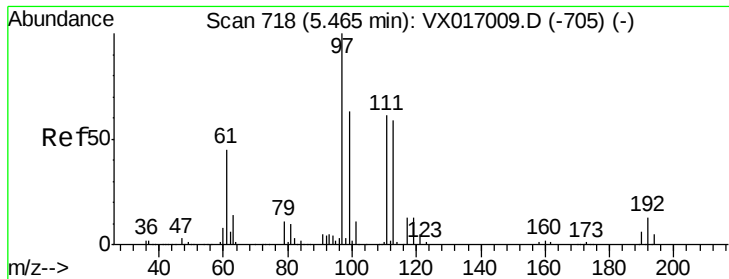


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

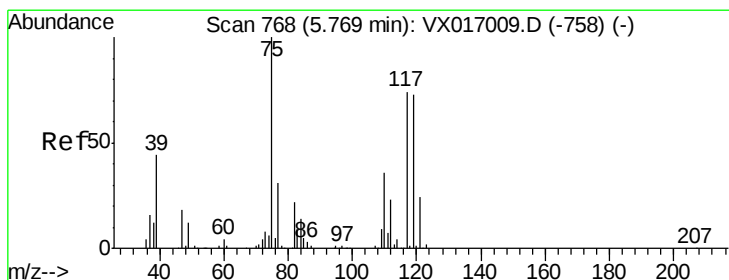
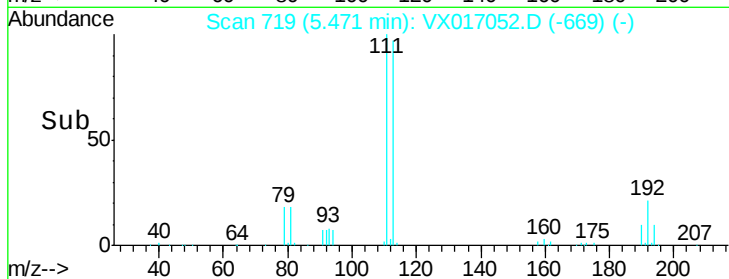
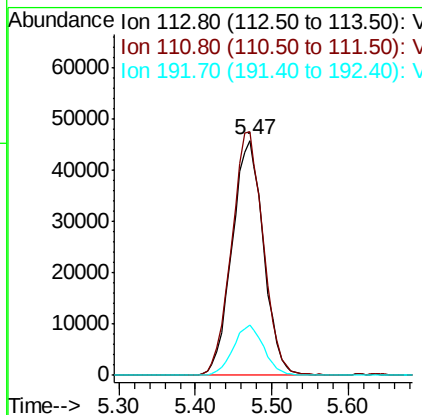
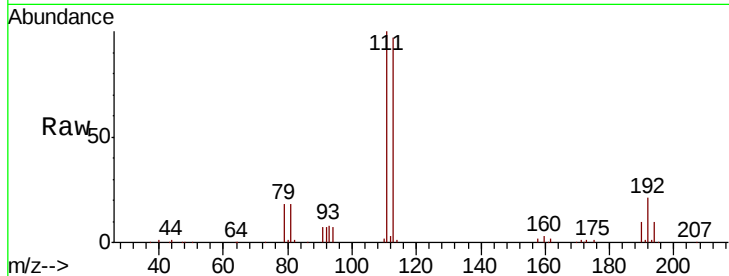




#35
 Dibromofluoromethane
 Concen: 52.029 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017052.D
 Acq: 30 Jun 2020 17:56

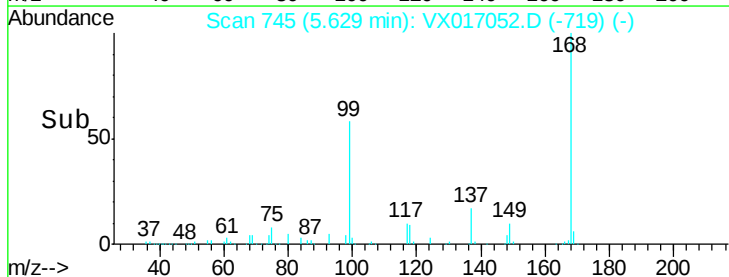
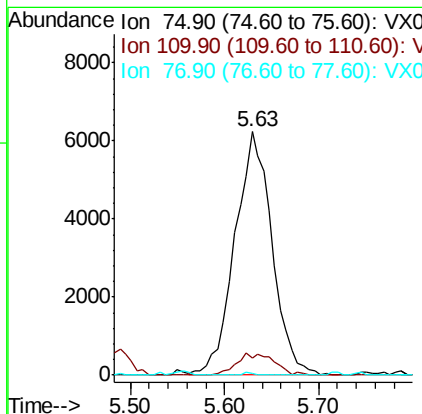
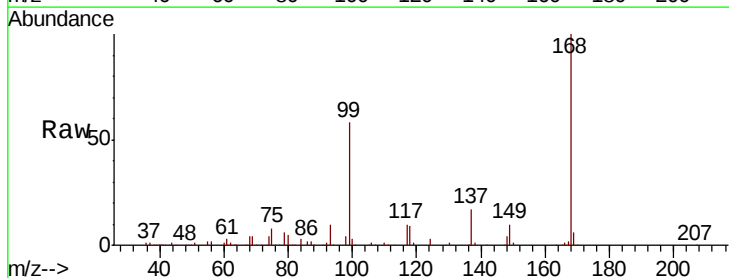
Instrument :
 MSVOA_X
 ClientSampled :
 MW-3

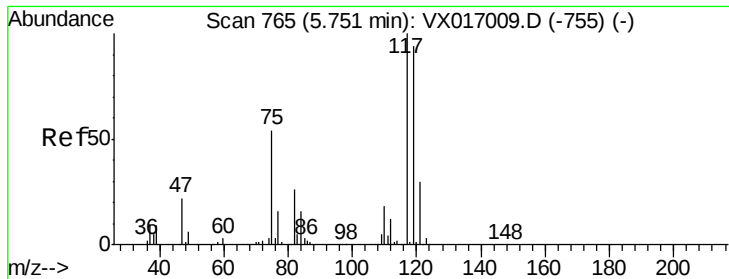
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.9	122.9
192	20.7	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.561 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017052.D
 Acq: 30 Jun 2020 17:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.1#
77	0.3	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.610 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampled :

MW-3

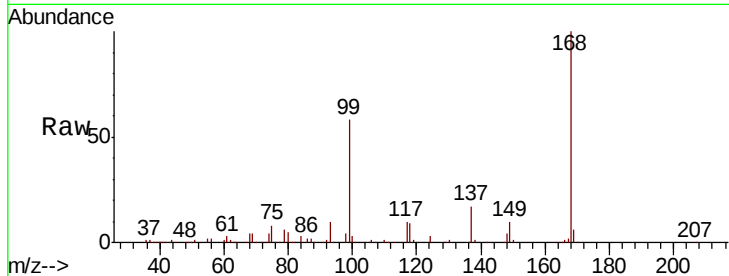
Tot Ion:117 Resp: 23223

Ion Ratio Lower Upper

117 100

119 7.5 75.4 113.0#

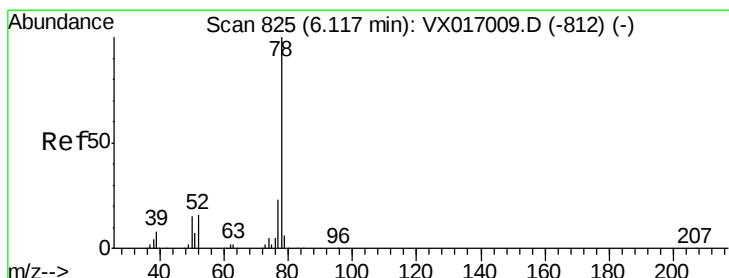
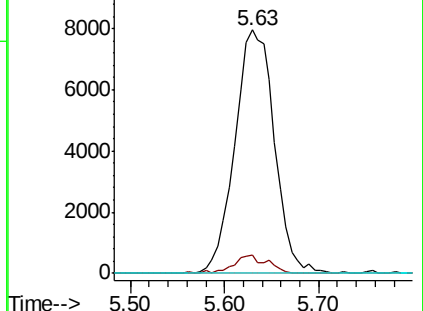
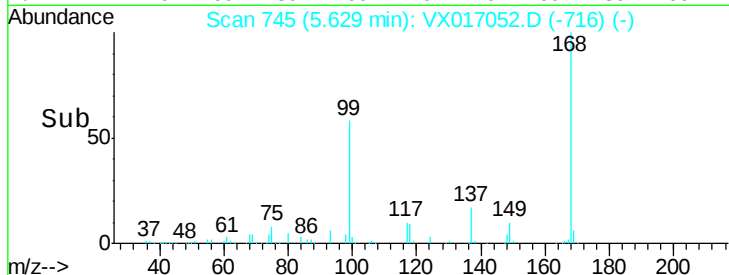
121 0.0 23.8 35.6#



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



#40

Benzene

Concen: 0.415 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX017052.D

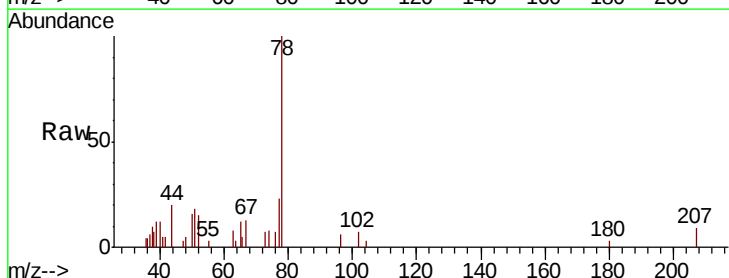
Acq: 30 Jun 2020 17:56

Tgt Ion: 78 Resp: 4581

Ion Ratio Lower Upper

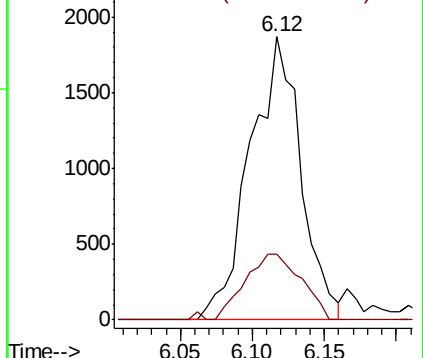
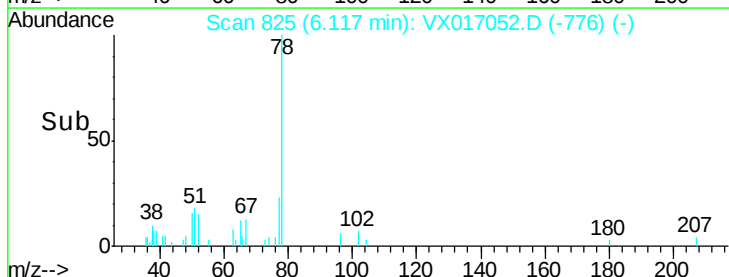
78 100

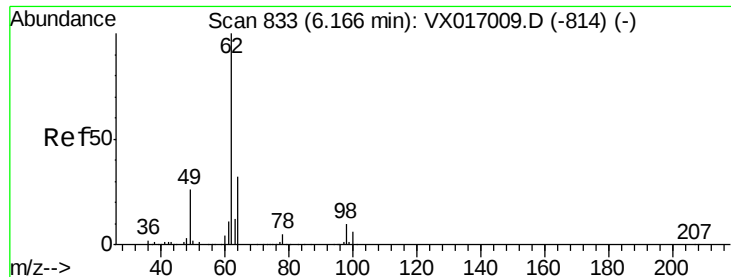
77 23.4 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#42

1,2-Dichloroethane

Concen: 0.537 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

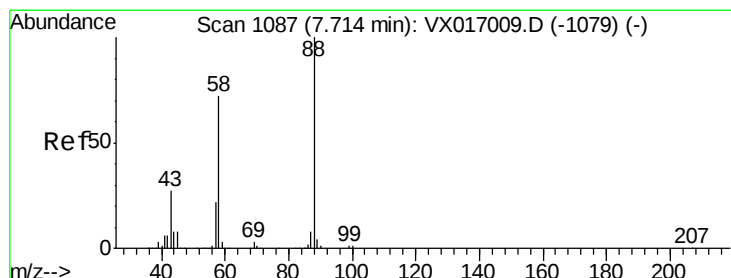
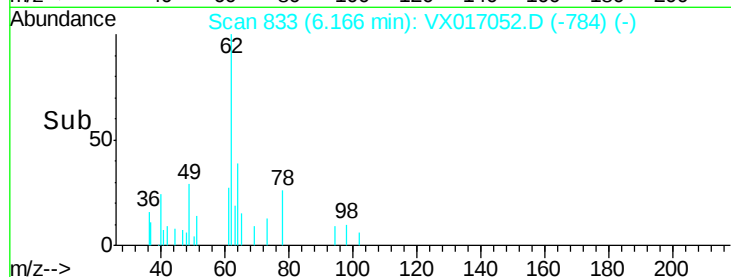
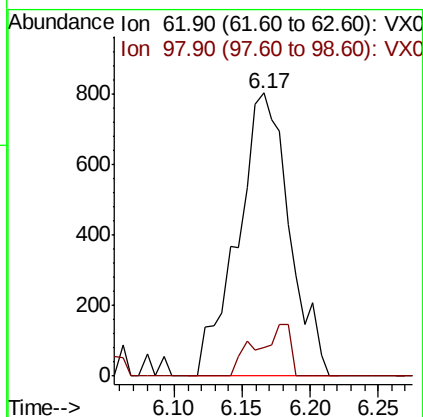
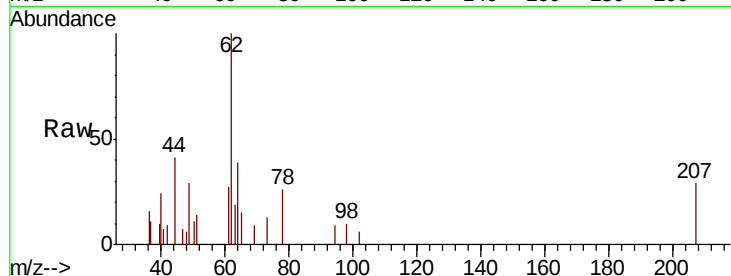
MW-3

Tot Ion: 62 Resp: 2142

Ion Ratio Lower Upper

62 100

98 11.9 0.0 19.2



#49

1,4-Dioxane

Concen: 24.826 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

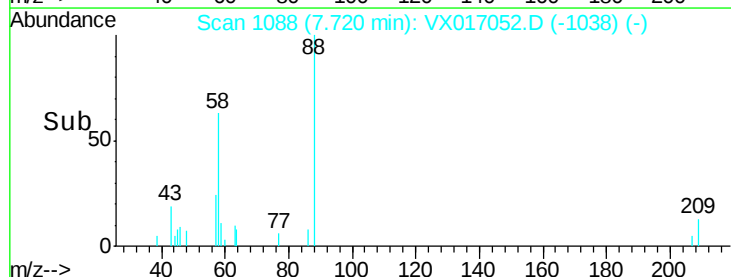
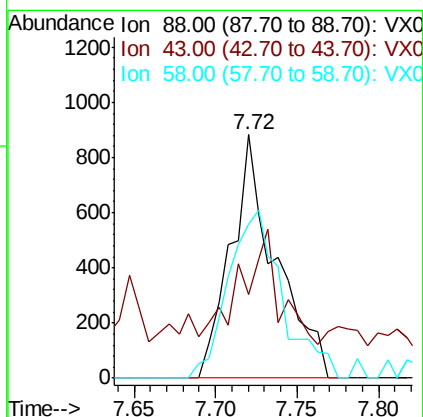
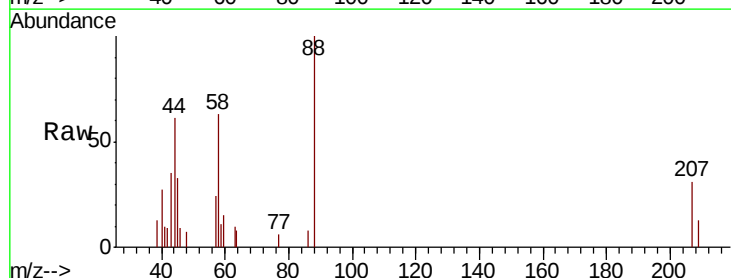
Tgt Ion: 88 Resp: 1693

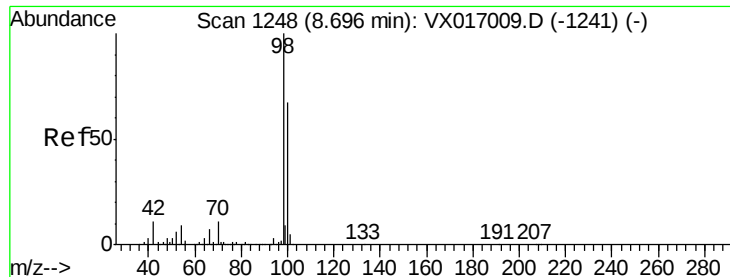
Ion Ratio Lower Upper

88 100

43 40.5 25.8 38.8#

58 82.6 54.8 82.2#





#50

Toluene-d8

Concen: 52.824 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

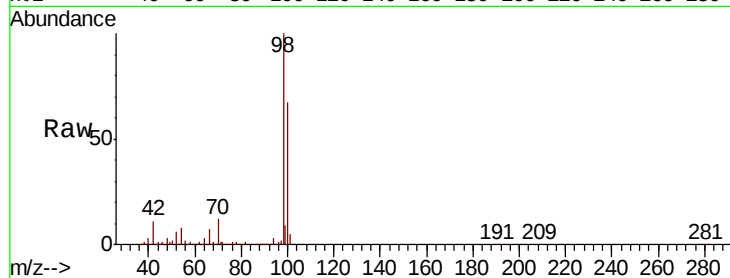
MW-3

Tot Ion: 98 Resp: 491315

Ion Ratio Lower Upper

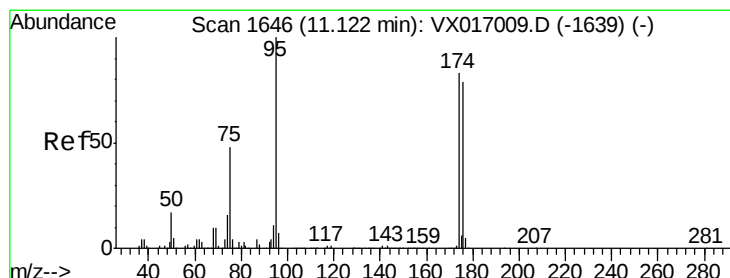
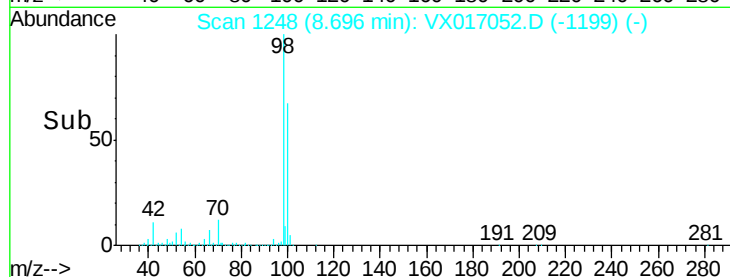
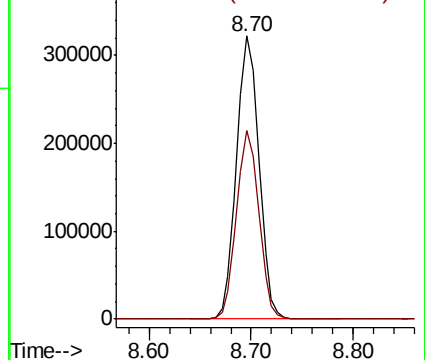
98 100

100 66.4 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 55.493 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

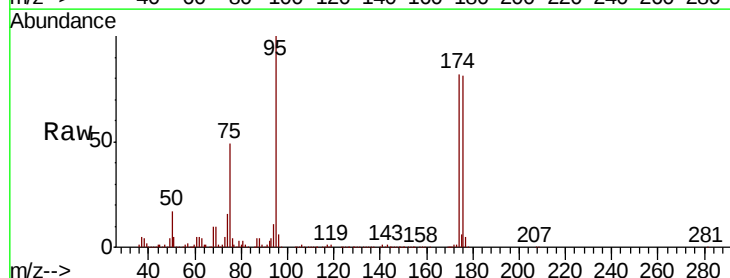
Tgt Ion: 95 Resp: 201765

Ion Ratio Lower Upper

95 100

174 81.5 0.0 164.0

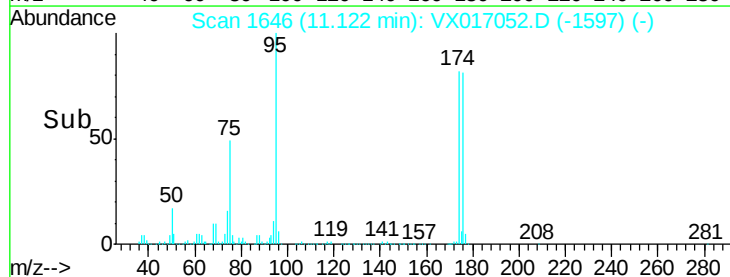
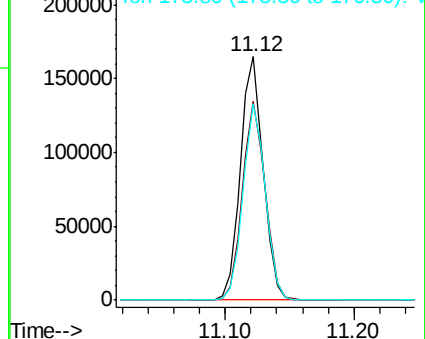
176 78.9 0.0 157.6

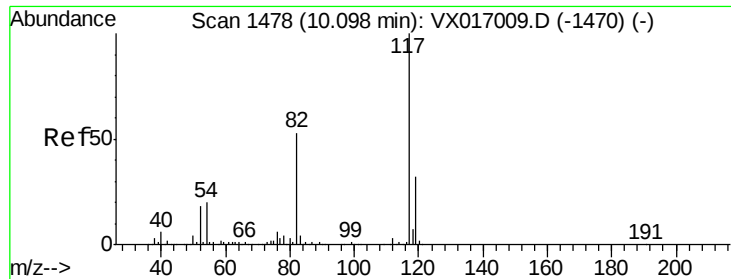


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

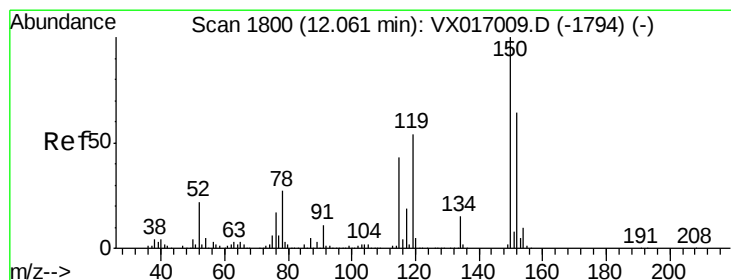
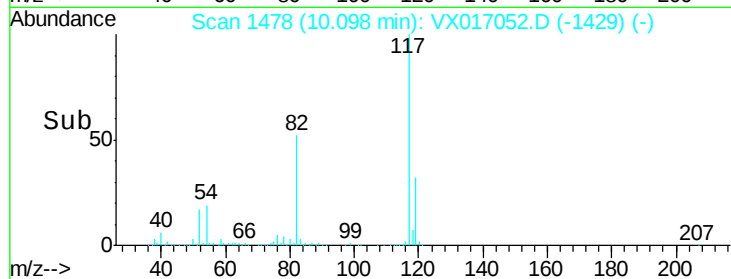
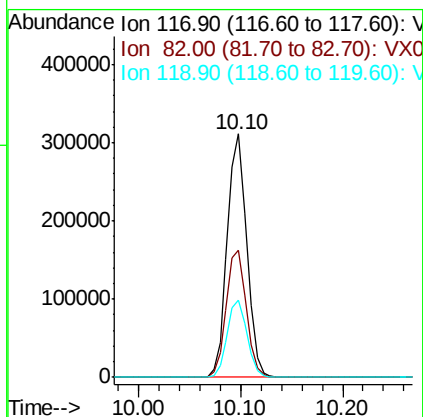
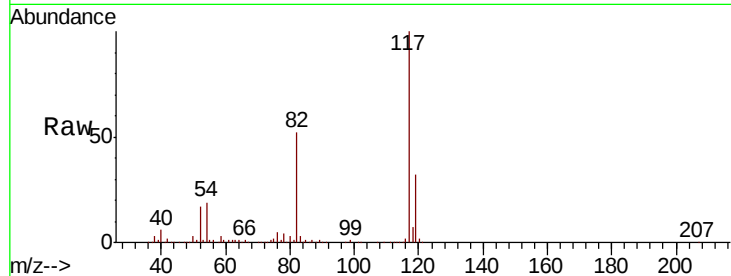




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017052.D
Acq: 30 Jun 2020 17:56

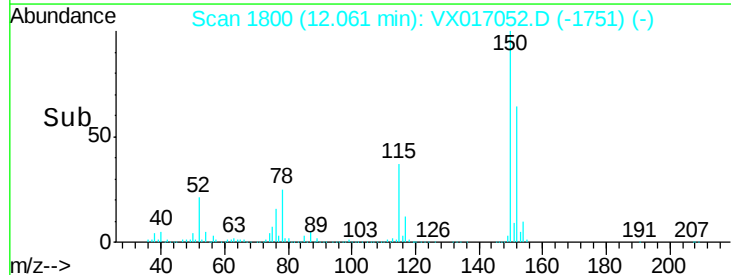
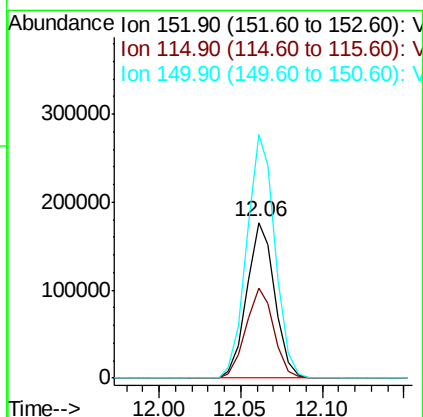
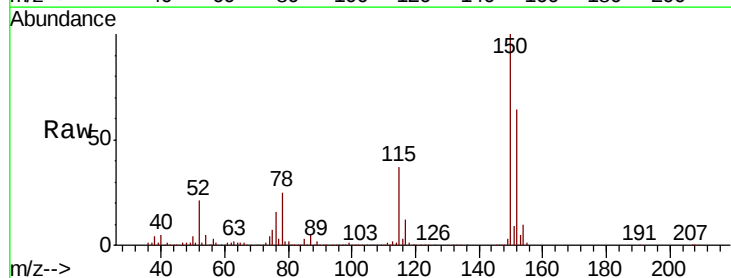
Instrument :
MSVOA_X
ClientSampleId :
MW-3

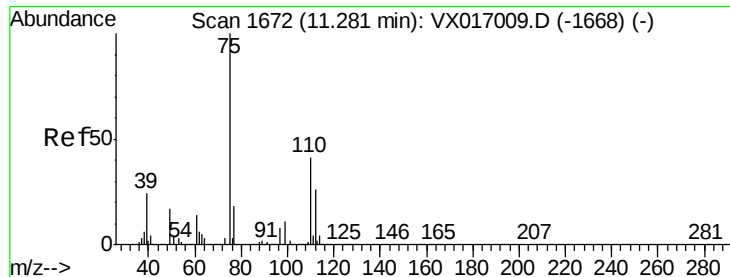
Tot Ion:117 Resp: 413249
Ion Ratio Lower Upper
117 100
82 52.1 42.6 63.8
119 31.9 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017052.D
Acq: 30 Jun 2020 17:56

Tgt Ion:152 Resp: 211854
Ion Ratio Lower Upper
152 100
115 57.6 40.9 122.7
150 157.5 0.0 351.6





#76

1,2,3-Trichloropropane

Concen: 23.970 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampled :

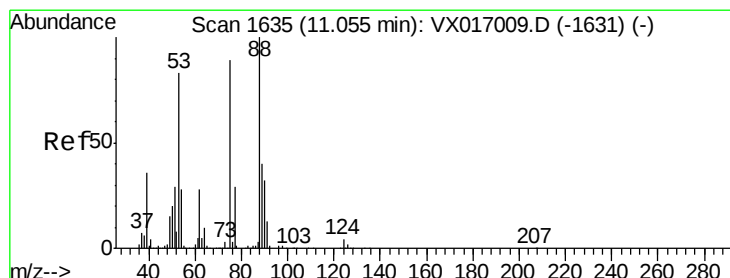
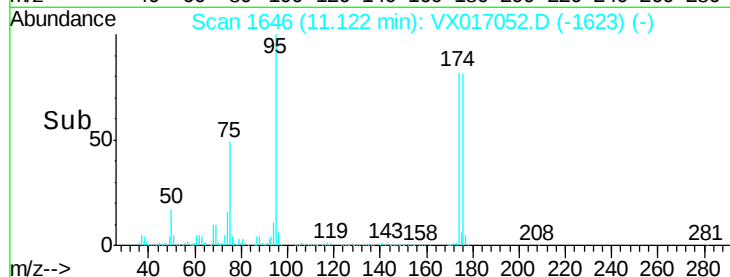
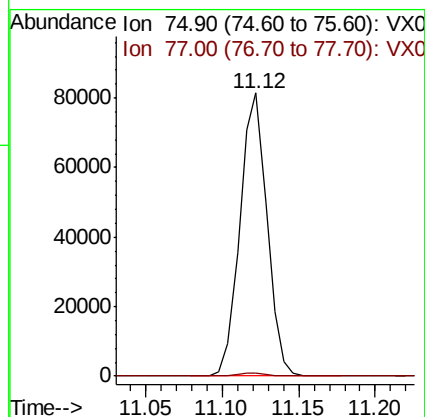
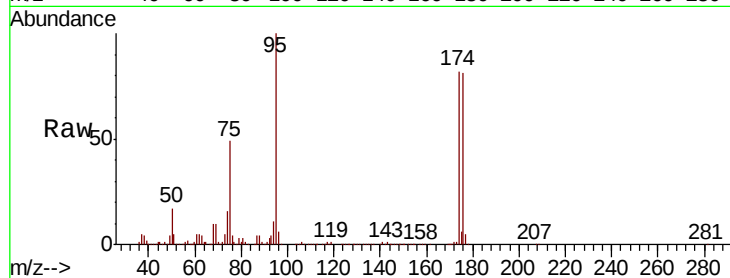
MW-3

Tot Ion: 75 Resp: 99857

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.073 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

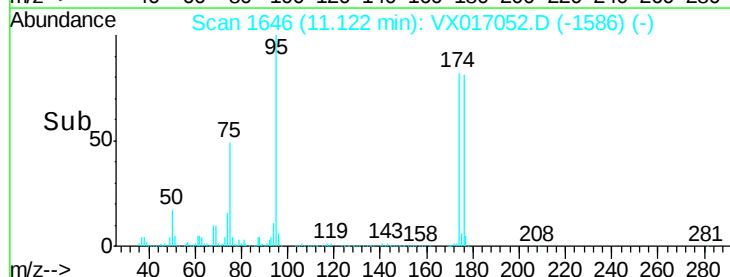
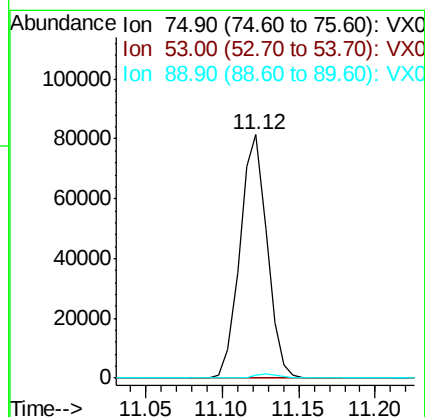
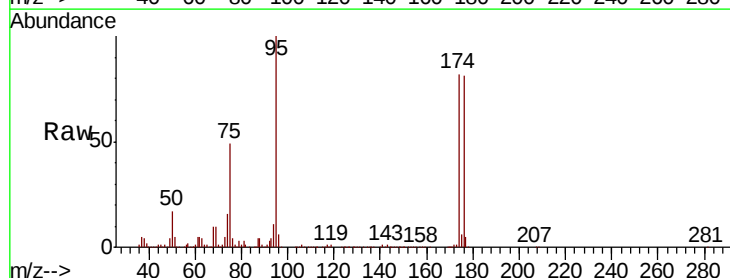
Tgt Ion: 75 Resp: 99857

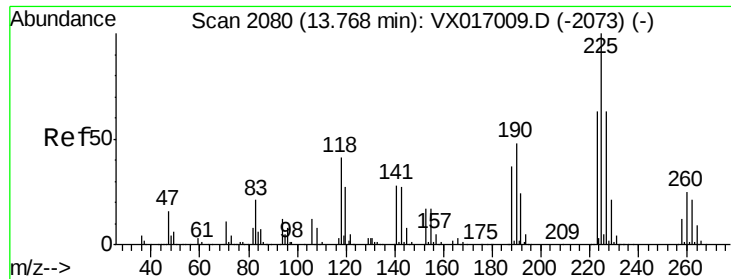
Ion Ratio Lower Upper

75 100

53 0.6 72.4 108.6#

89 1.5 37.0 55.4#





#94

Hexachlorobutadiene

Concen: 0.856 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017052.D

Acq: 30 Jun 2020 17:56

Instrument :

MSVOA_X

ClientSampleId :

MW-3

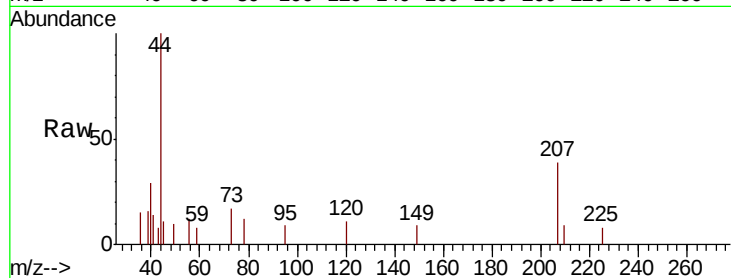
Tot Ion: 225 Resp: 20

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 0.0 33.1 99.2#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

