

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063020\
 Data File : VX017053.D
 Acq On : 30 Jun 2020 18:18
 Operator : JC/SP
 Sample : L3123-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

Quant Time: Jul 01 08:09:40 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	230947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	399791	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	411351	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	212796	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	156710	55.04	ug/l	0.00
Spiked Amount			Recovery	=	110.08%	
35) Dibromofluoromethane	5.47	113	134183	53.06	ug/l	0.00
Spiked Amount			Recovery	=	106.12%	
50) Toluene-d8	8.70	98	486899	52.07	ug/l	0.00
Spiked Amount			Recovery	=	104.14%	
62) 4-Bromofluorobenzene	11.12	95	203216	55.59	ug/l	0.00
Spiked Amount			Recovery	=	111.18%	

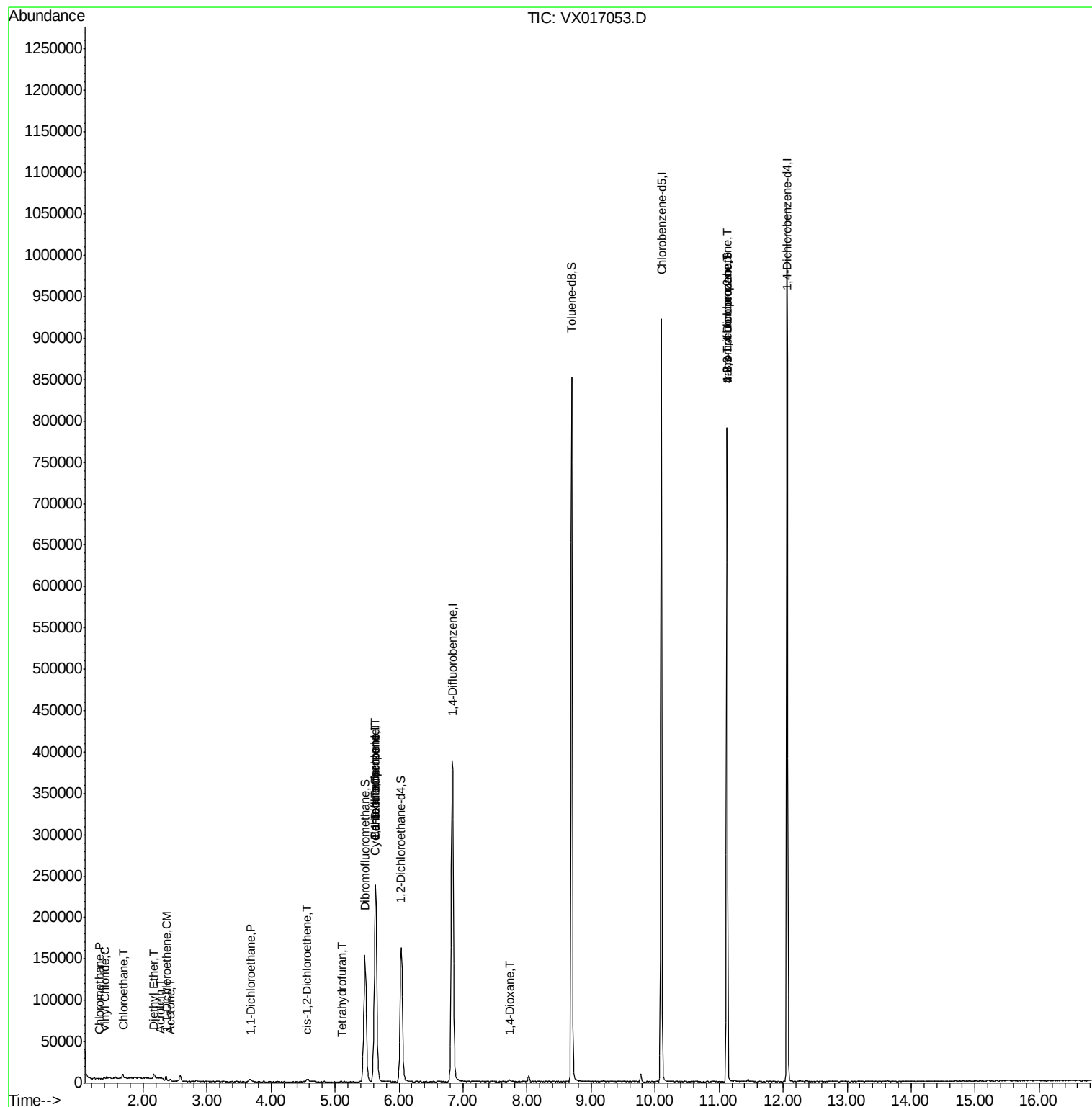
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	755	0.279	ug/l #	67
4) Vinyl Chloride	1.39	62	800	0.319	ug/l #	76
6) Chloroethane	1.68	64	322	0.217	ug/l #	72
8) Diethyl Ether	2.18	74	233	0.551	ug/l	61
12) 1,1-Dichloroethene	2.36	96	1940	0.849	ug/l	83
13) Acrolein	2.28	56	265	0.816	ug/l #	52
16) Acetone	2.42	43	2254	2.116	ug/l #	38
20) Methylene Chloride	2.84	84	684	Below Cal	#	91
24) 1,1-Dichloroethane	3.67	63	3202	0.720	ug/l #	87
27) cis-1,2-Dichloroethene	4.56	96	1306	0.455	ug/l	35
29) Tetrahydrofuran	5.10	42	379	0.323	ug/l #	38
31) Cyclohexane	5.62	56	2444	0.636	ug/l #	33
36) 1,1-Dichloropropene	5.64	75	16773	4.439	ug/l #	51
38) Carbon Tetrachloride	5.63	117	22646	5.441	ug/l #	18
44) Trichloroethene	7.20	130	335	Below Cal		84
49) 1,4-Dioxane	7.72	88	1687	24.604	ug/l #	91
76) 1,2,3-Trichloropropane	11.12	75	99577	23.797	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	99577	61.625	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	487	Below Cal	#	1

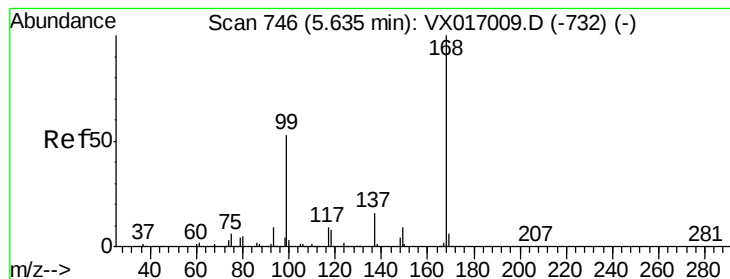
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX063020\
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Quant Time: Jul 01 08:09:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
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: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampleId :

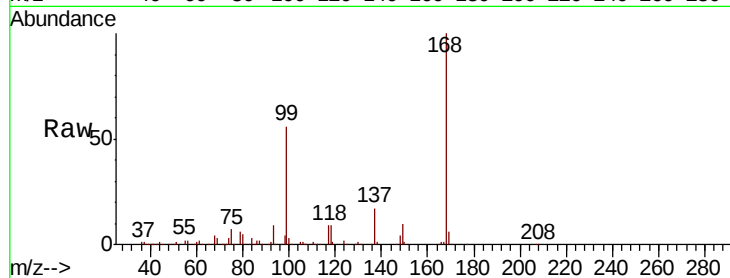
MW-4

Tot Ion:168 Resp: 230947

Ion Ratio Lower Upper

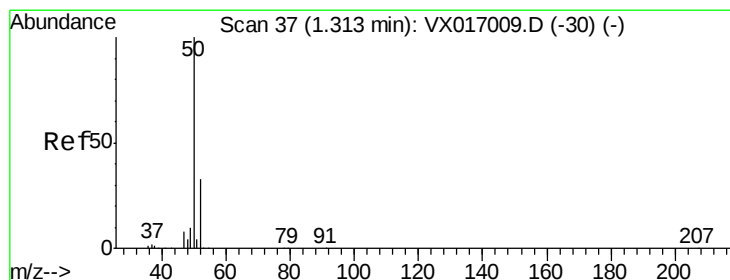
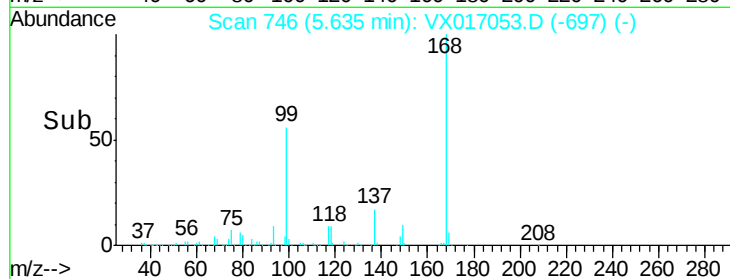
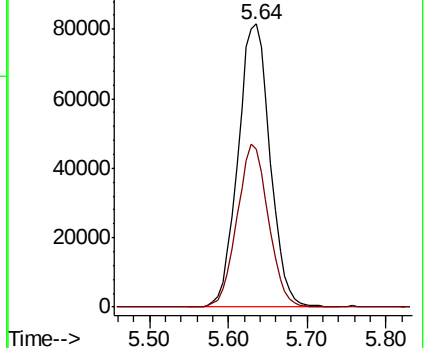
168 100

99 55.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.279 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017053.D

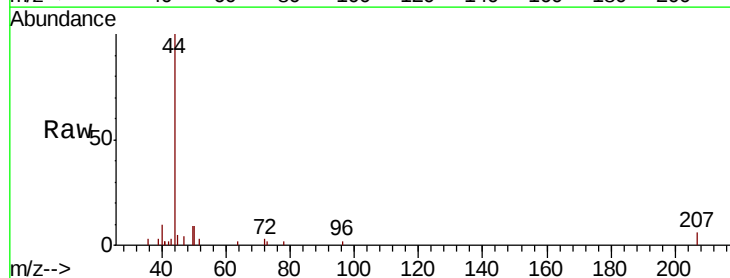
Acq: 30 Jun 2020 18:18

Tgt Ion: 50 Resp: 755

Ion Ratio Lower Upper

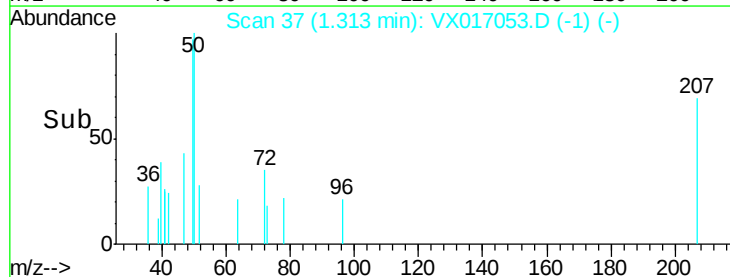
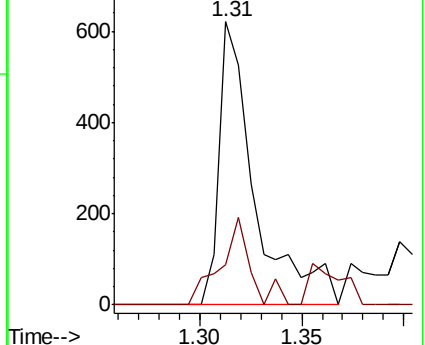
50 100

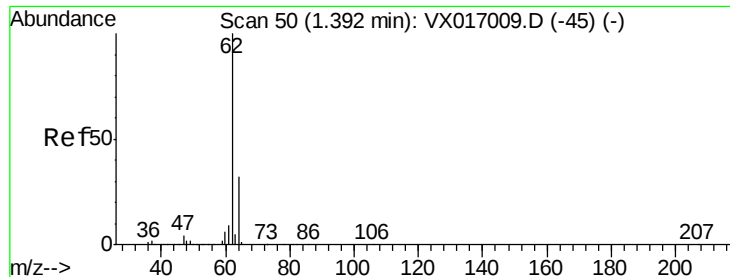
52 14.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.319 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampled :

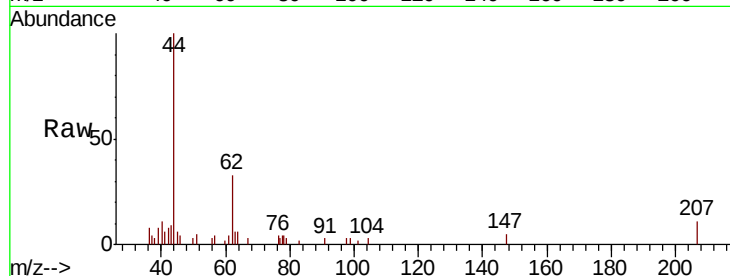
MW-4

Tot Ion: 62 Resp: 800

Ion Ratio Lower Upper

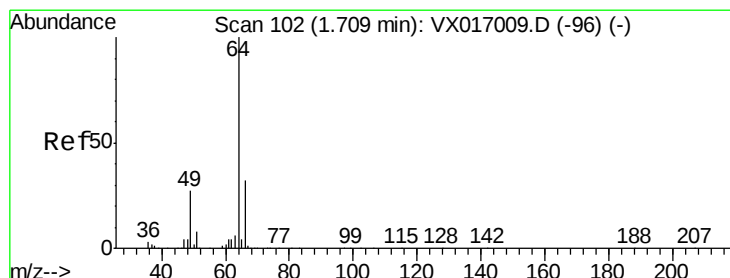
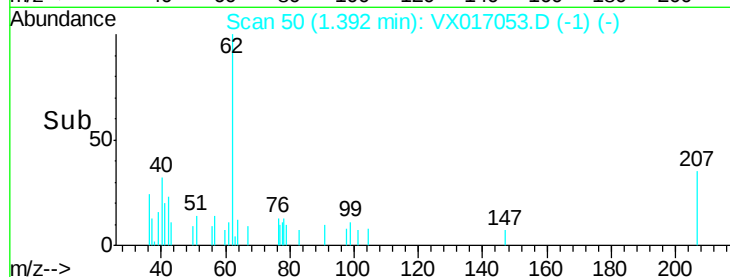
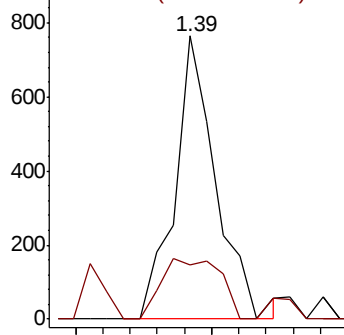
62 100

64 19.1 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 0.217 ug/l

RT: 1.68 min Scan# 97

Delta R.T. -0.03 min

Lab File: VX017053.D

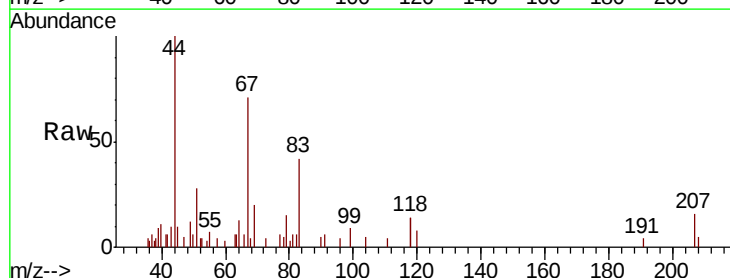
Acq: 30 Jun 2020 18:18

Tgt Ion: 64 Resp: 322

Ion Ratio Lower Upper

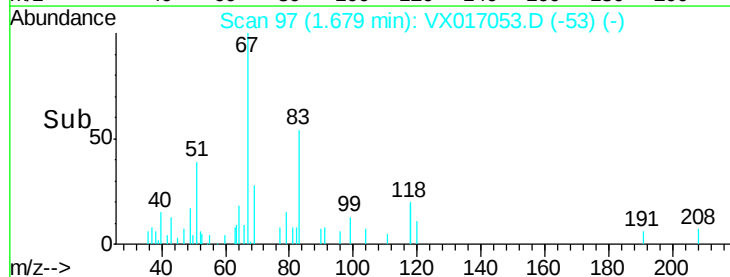
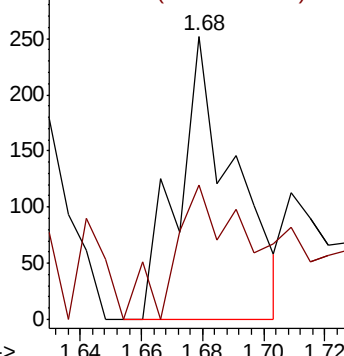
64 100

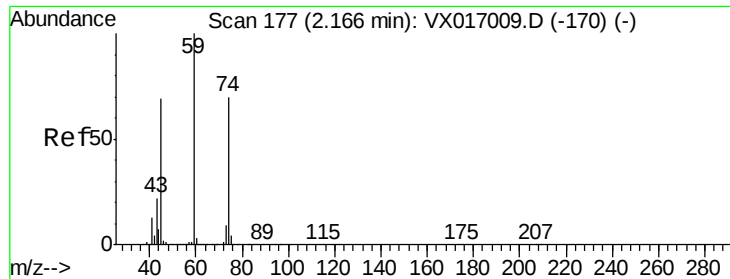
66 47.6 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.551 ug/l

RT: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampleId :

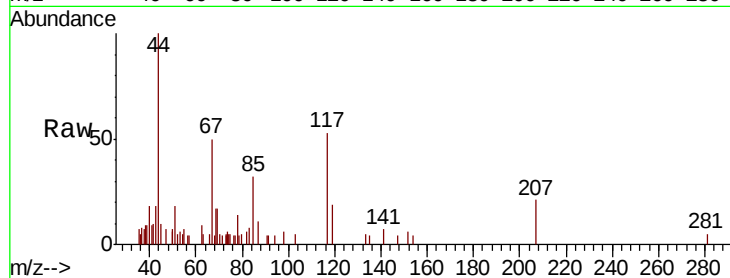
MW-4

Tot Ion: 74 Resp: 233

Ion Ratio Lower Upper

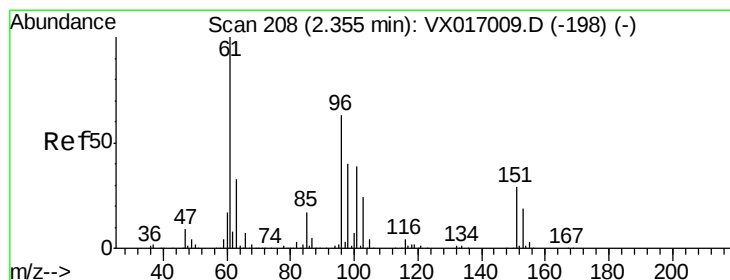
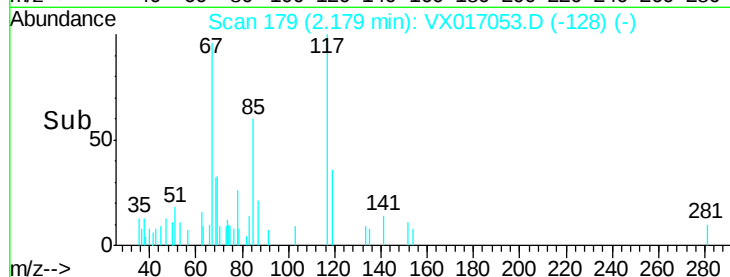
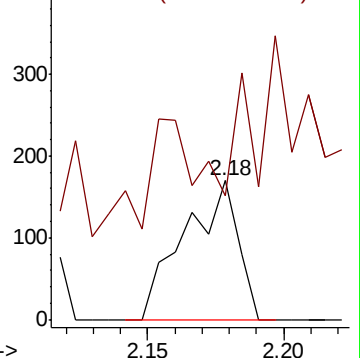
74 100

45 138.6 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#12

1,1-Dichloroethene

Concen: 0.849 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

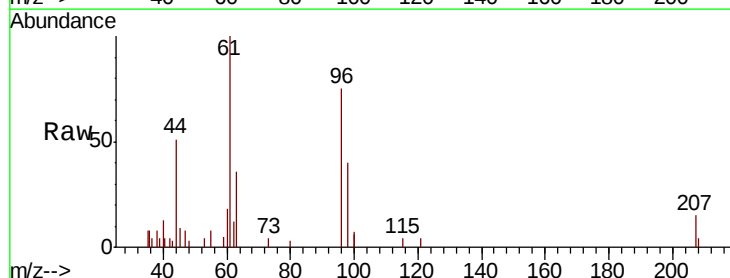
Tgt Ion: 96 Resp: 1940

Ion Ratio Lower Upper

96 100

61 133.7 126.3 189.5

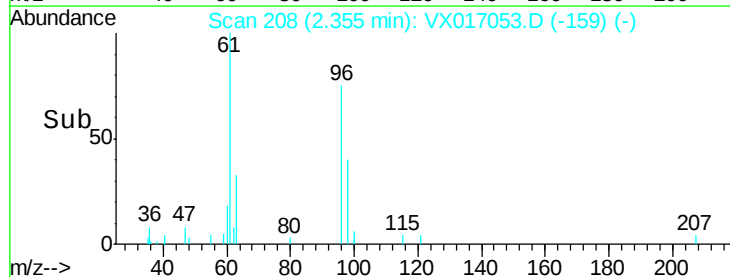
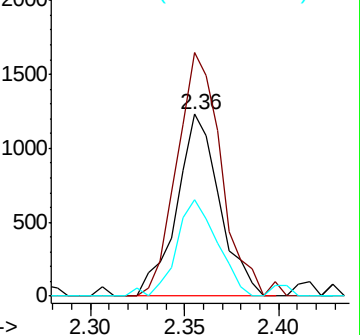
98 52.9 51.0 76.6

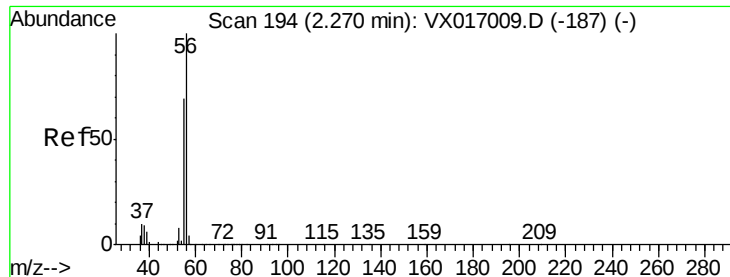


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 0.816 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampled :

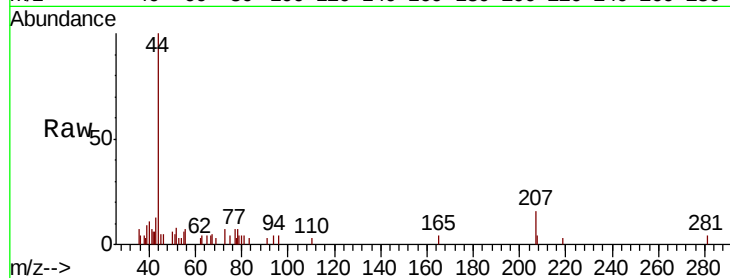
MW-4

Tot Ion: 56 Resp: 265

Ion Ratio Lower Upper

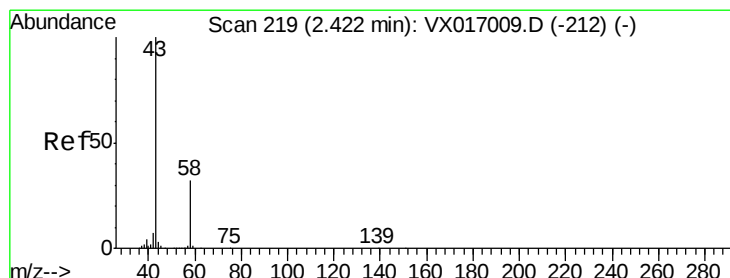
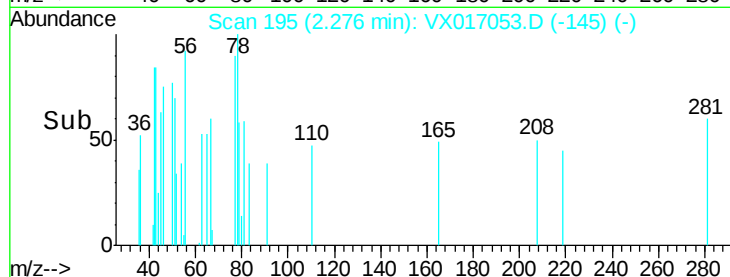
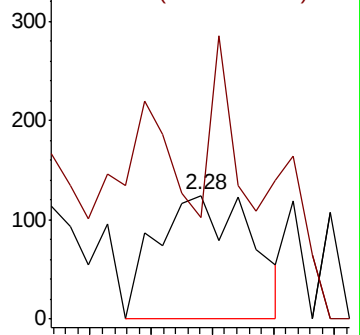
56 100

55 30.6 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: 2.116 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017053.D

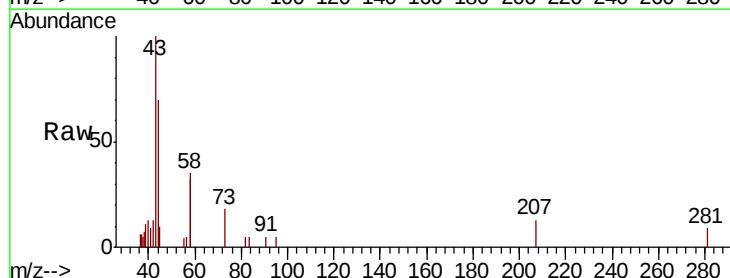
Acq: 30 Jun 2020 18:18

Tgt Ion: 43 Resp: 2254

Ion Ratio Lower Upper

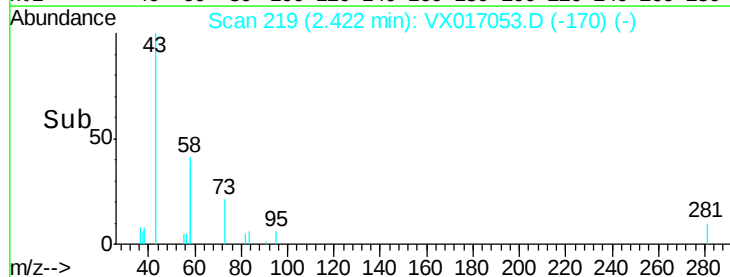
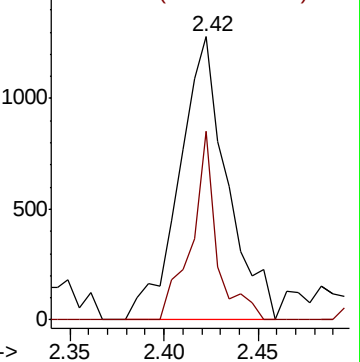
43 100

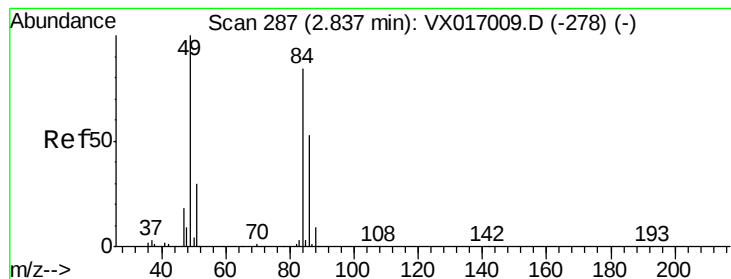
58 66.7 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampled :

MW-4

Tot Ion: 84 Resp: 684

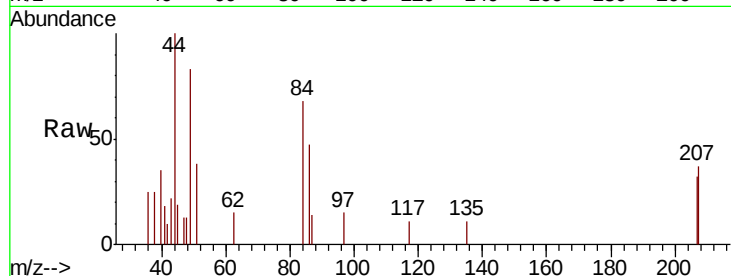
Ion Ratio Lower Upper

84 100

49 121.9 94.7 142.1

51 55.7 28.6 42.8#

86 68.7 50.5 75.7

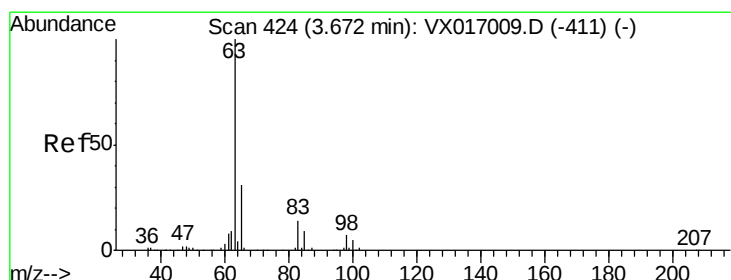
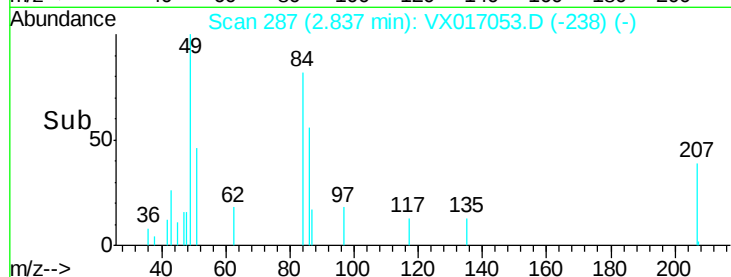
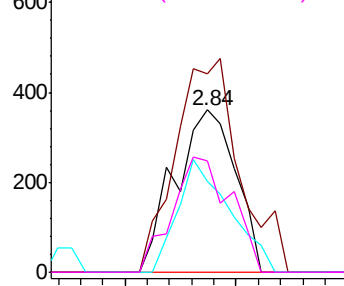


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#24

1,1-Dichloroethane

Concen: 0.720 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

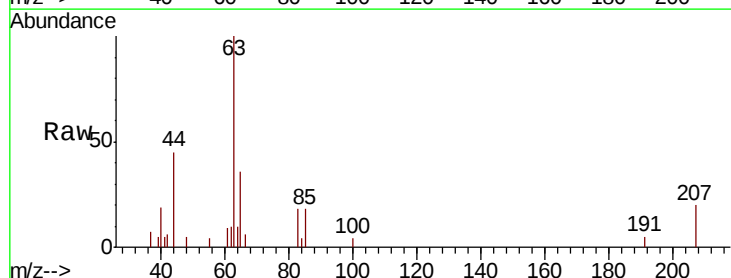
Tgt Ion: 63 Resp: 3202

Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.8#

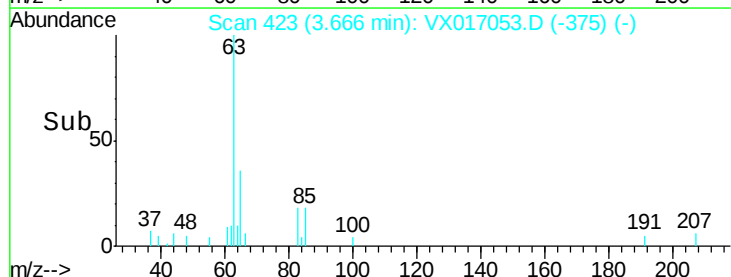
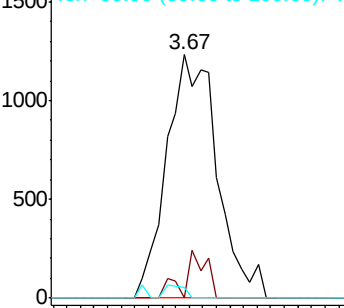
100 4.4 2.4 7.1

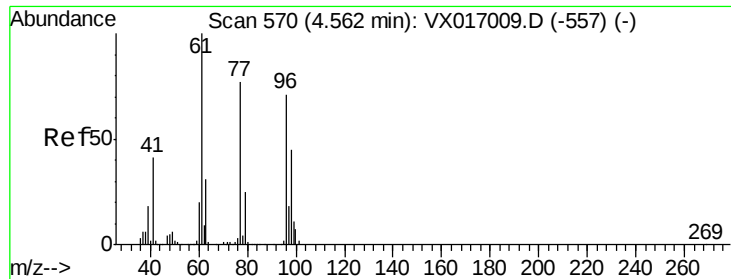


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.455 ug/l

RT: 4.56 min Scan# 569

Delta R.T. -0.01 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampled :

MW-4

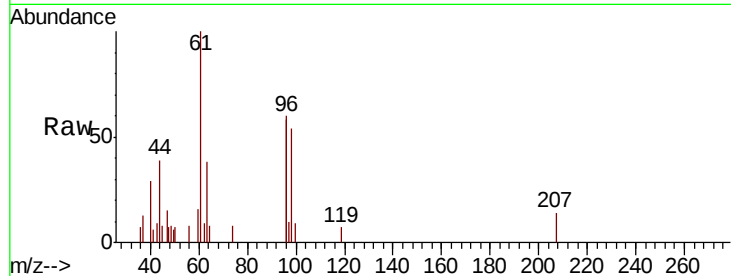
Tot Ion: 96 Resp: 1306

Ion Ratio Lower Upper

96 100

61 219.0 0.0 282.8

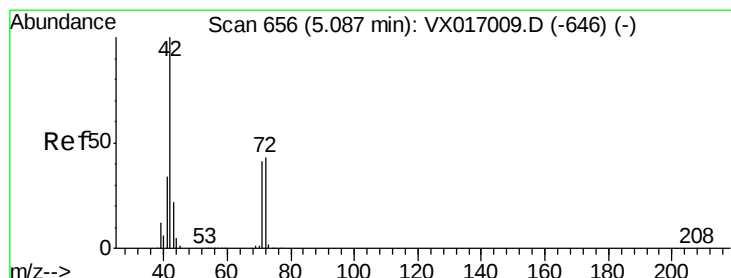
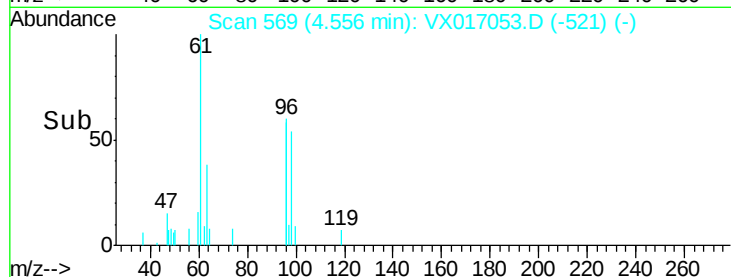
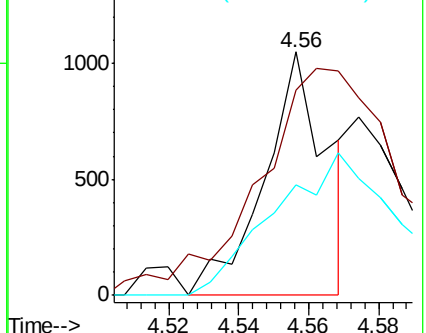
98 117.4 0.0 127.6



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



#29

Tetrahydrofuran

Concen: 0.323 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

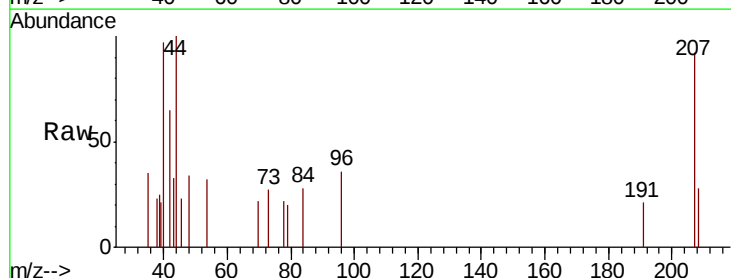
Tgt Ion: 42 Resp: 379

Ion Ratio Lower Upper

42 100

72 6.6 35.3 52.9#

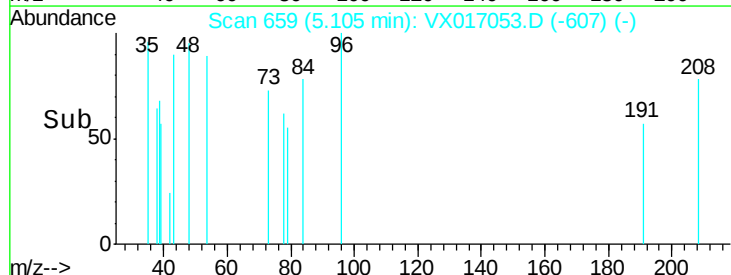
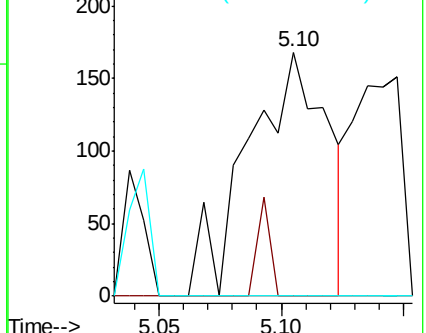
71 0.0 33.1 49.7#

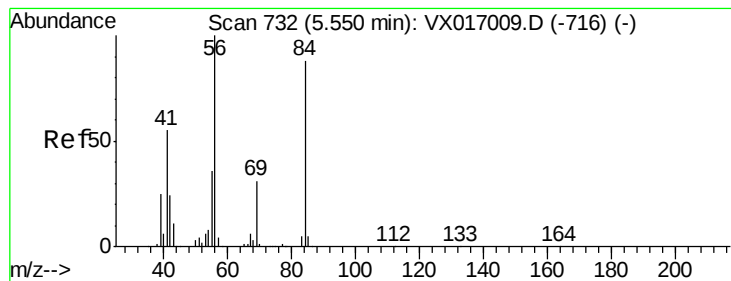


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cvclohexane

Concen: 0.636 ug/l

RT: 5.62 min Scan# 743

Delta R.T. 0.07 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampled :

MW-4

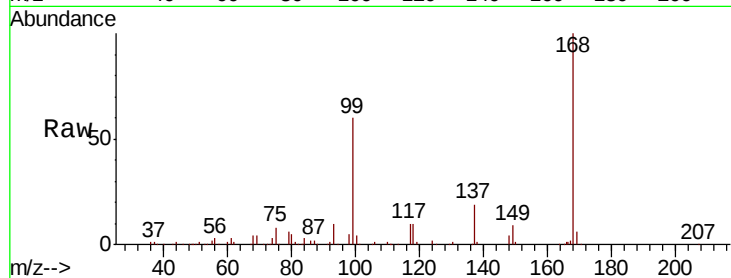
Tot Ion: 56 Resp: 2444

Ion Ratio Lower Upper

56 100

69 153.1 25.0 37.4#

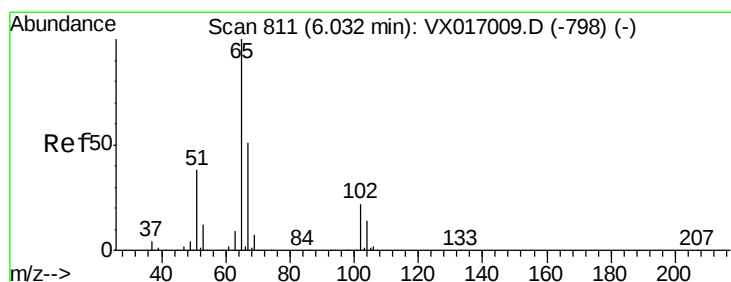
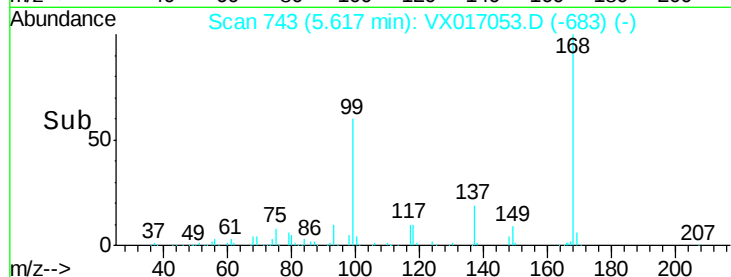
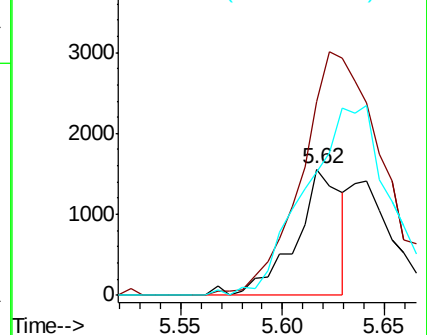
84 97.2 69.1 103.7



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: 55.042 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017053.D

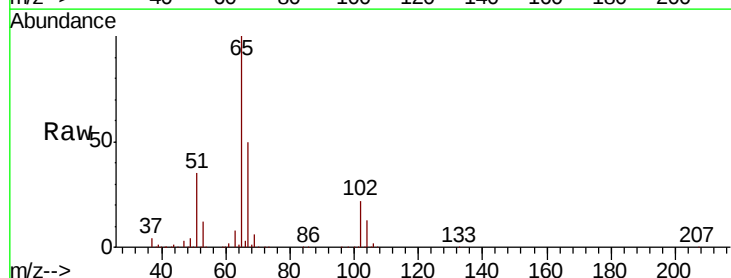
Acq: 30 Jun 2020 18:18

Tgt Ion: 65 Resp: 156710

Ion Ratio Lower Upper

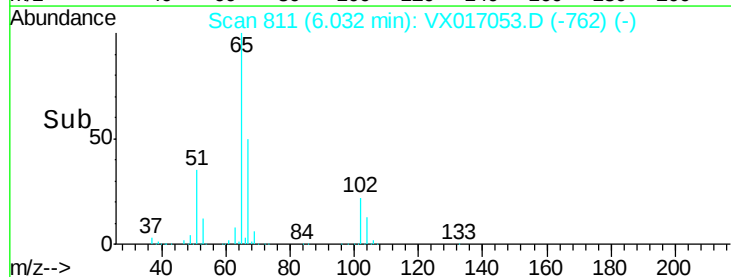
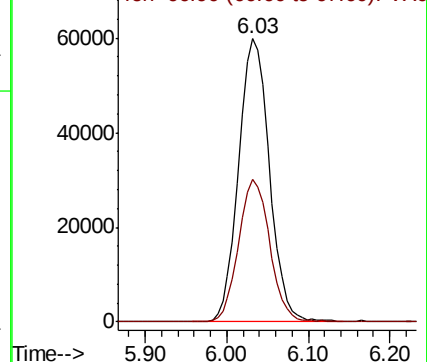
65 100

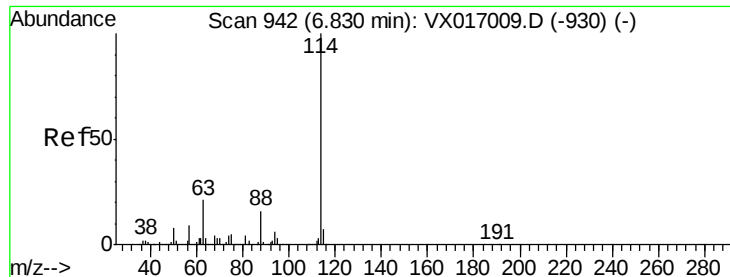
67 51.0 0.0 103.8



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: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampleId :

MW-4

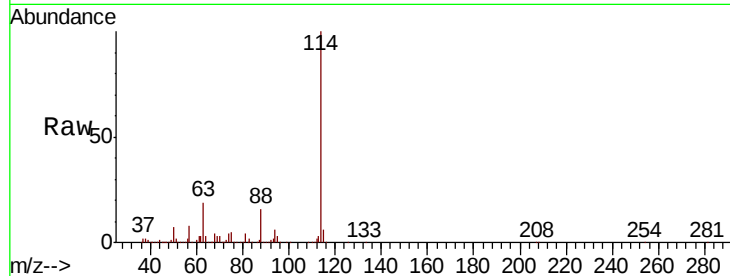
Tot Ion:114 Resp: 399791

Ion Ratio Lower Upper

114 100

63 19.3 0.0 41.4

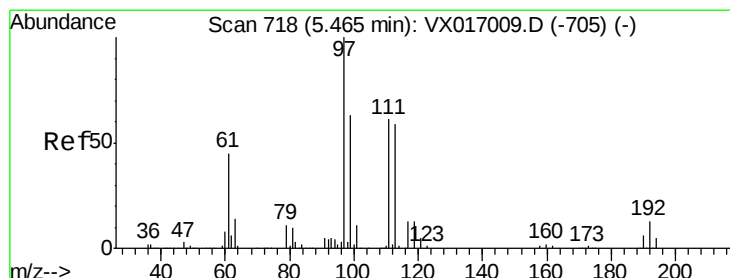
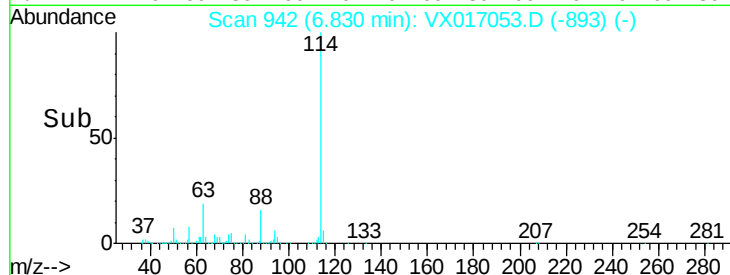
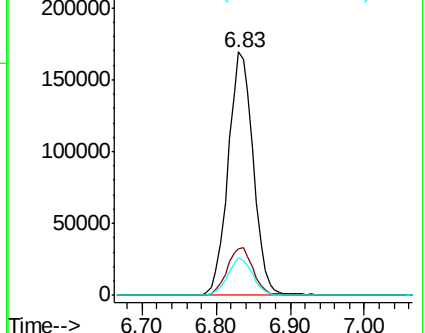
88 15.6 0.0 32.4



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: 53.059 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

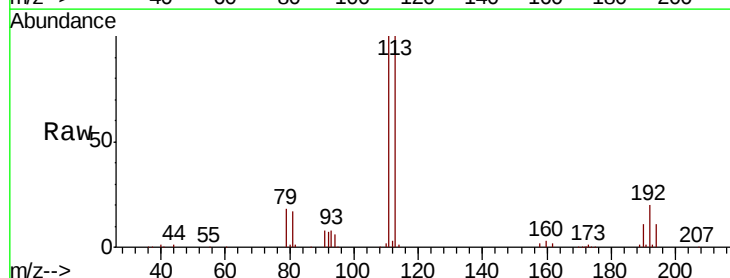
Tgt Ion:113 Resp: 134183

Ion Ratio Lower Upper

113 100

111 100.5 81.9 122.9

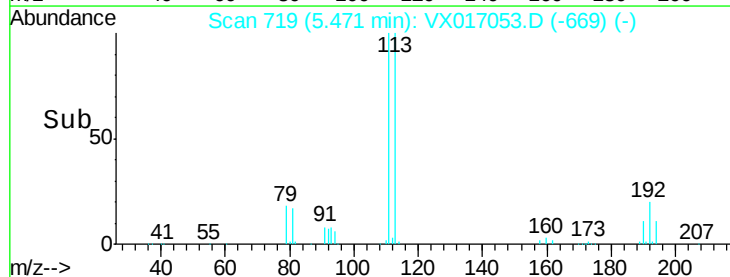
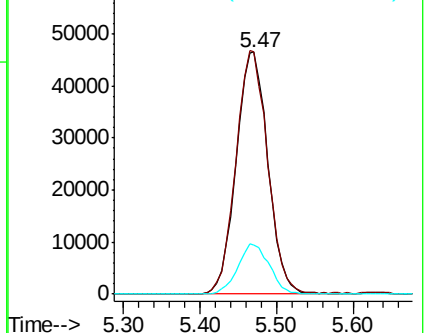
192 20.5 16.7 25.1

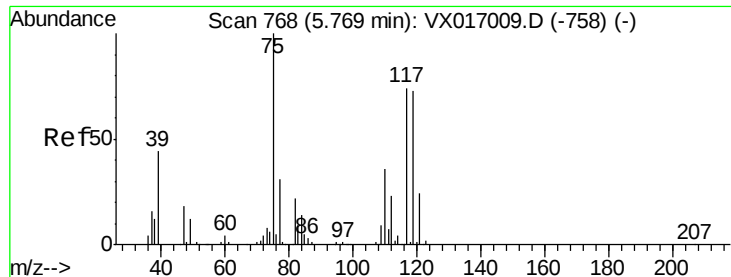


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

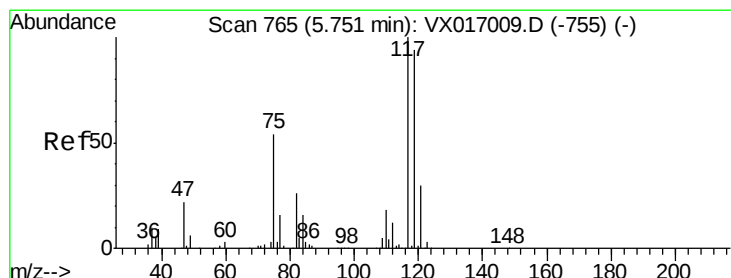
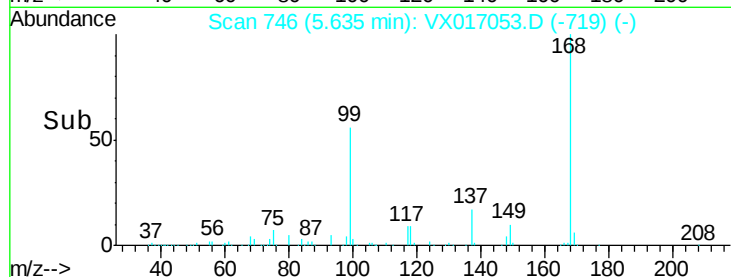
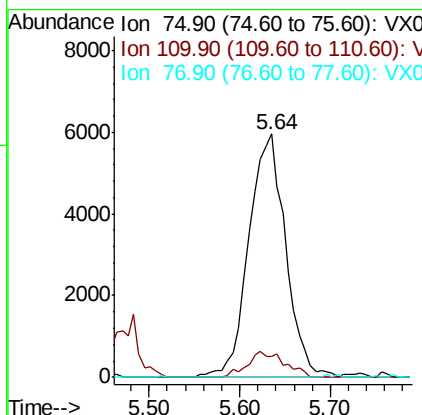
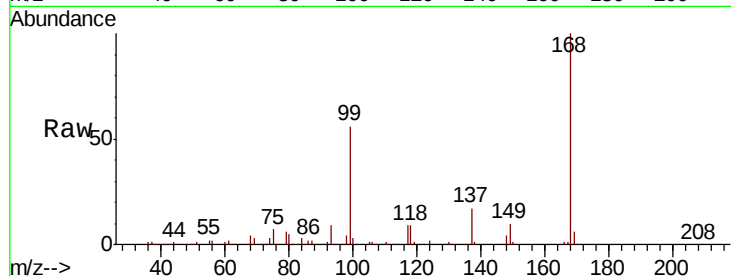




#36
 1,1-Dichloropropene
 Concen: 4.439 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017053.D
 Acq: 30 Jun 2020 18:18

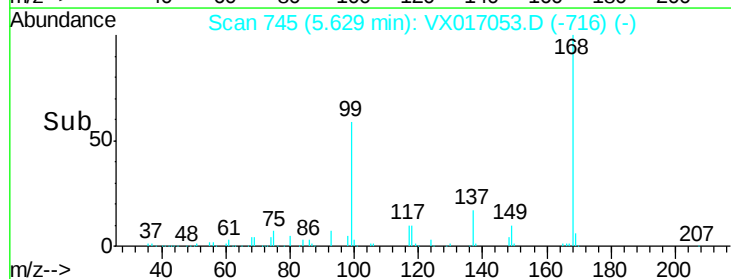
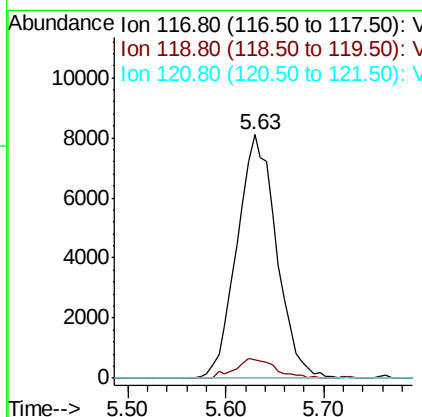
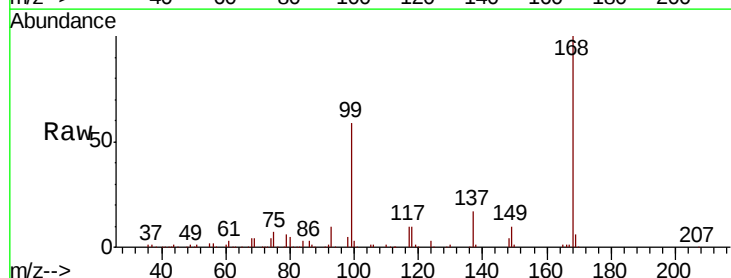
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

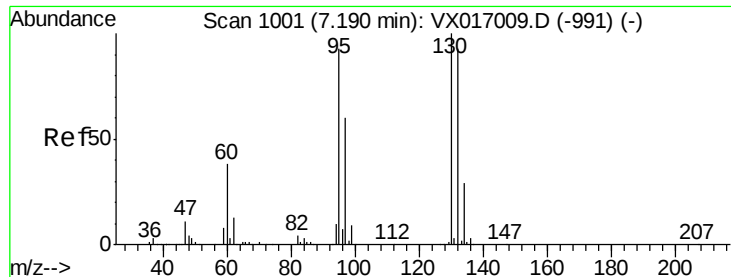
Tot Ion: 75 Resp: 16773
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.1 54.1#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.441 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017053.D
 Acq: 30 Jun 2020 18:18

Tgt Ion: 117 Resp: 22646
 Ion Ratio Lower Upper
 117 100
 119 7.3 75.4 113.0#
 121 0.0 23.8 35.6#





#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampled :

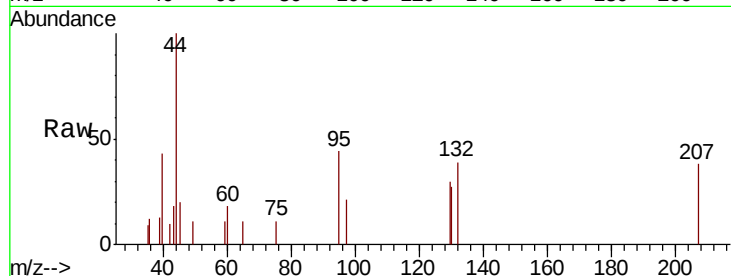
MW-4

Tot Ion:130 Resp: 335

Ion Ratio Lower Upper

130 100

95 77.6 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

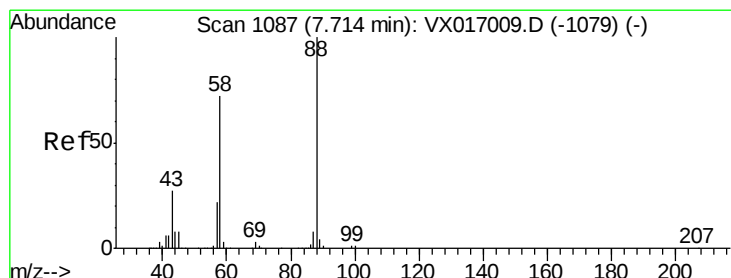
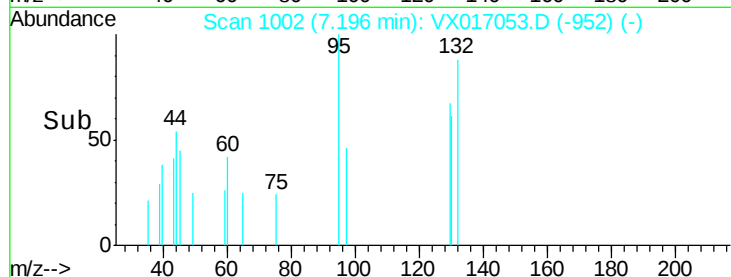
300

200

100

0

Time-->



#49

1,4-Dioxane

Concen: 24.604 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

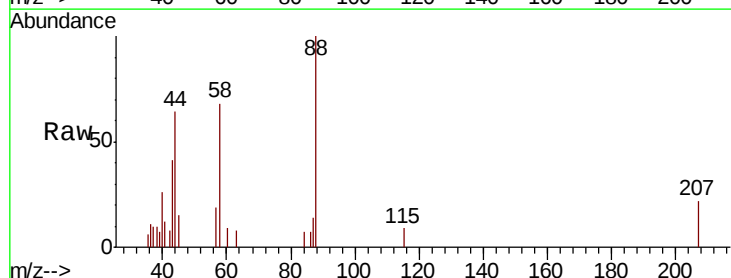
Tgt Ion: 88 Resp: 1687

Ion Ratio Lower Upper

88 100

43 44.2 25.8 38.8#

58 71.2 54.8 82.2



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

1200

1000

800

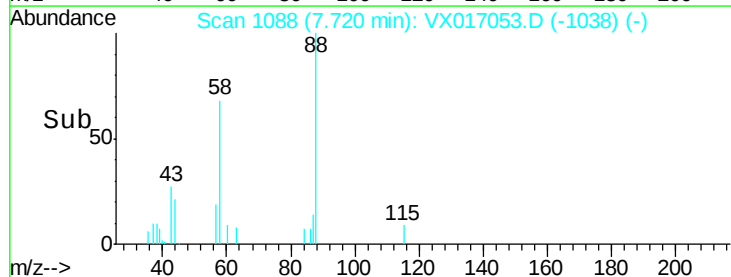
600

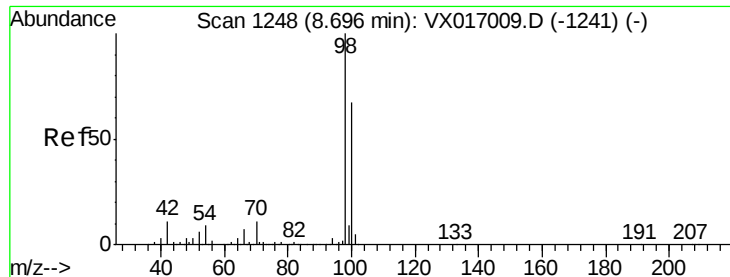
400

200

0

Time-->





#50

Toluene-d8

Concen: 52.066 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampleId :

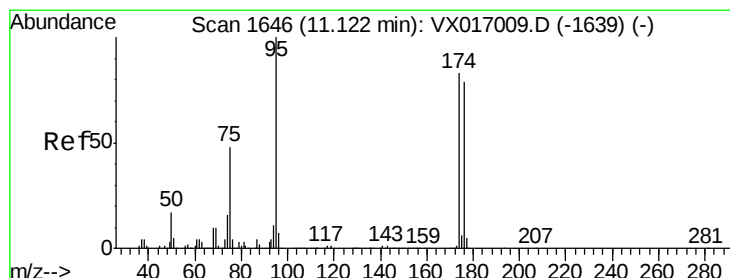
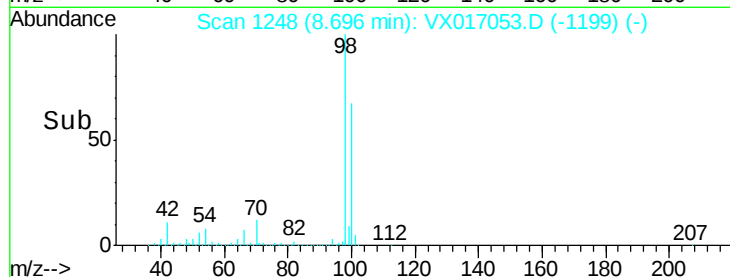
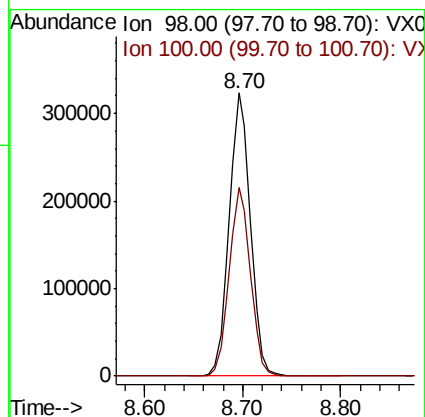
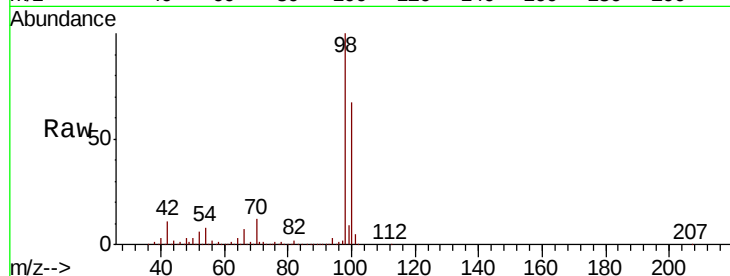
MW-4

Tot Ion: 98 Resp: 486899

Ion Ratio Lower Upper

98 100

100 66.7 53.8 80.6



#62

4-Bromofluorobenzene

Concen: 55.590 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

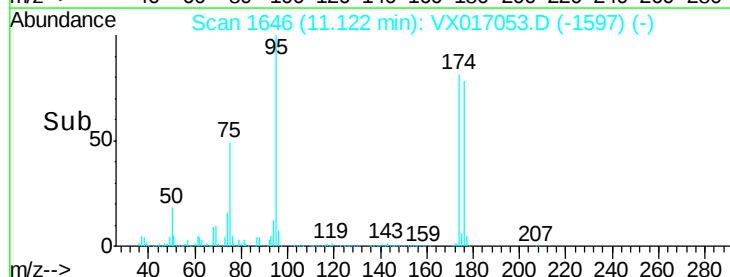
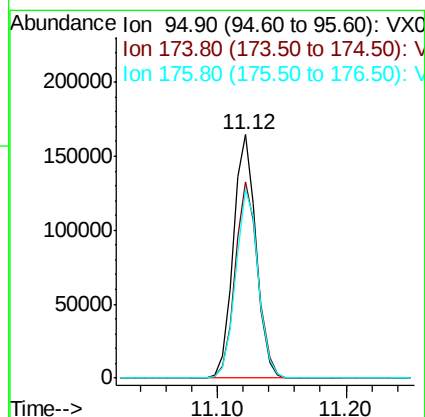
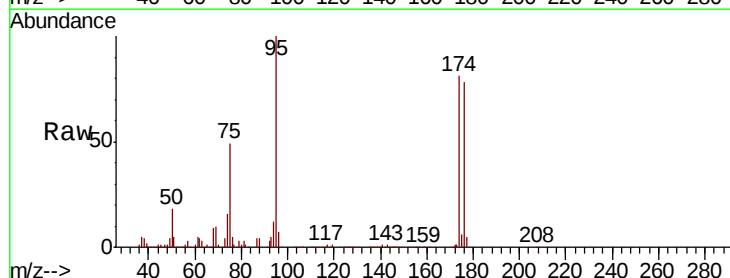
Tgt Ion: 95 Resp: 203216

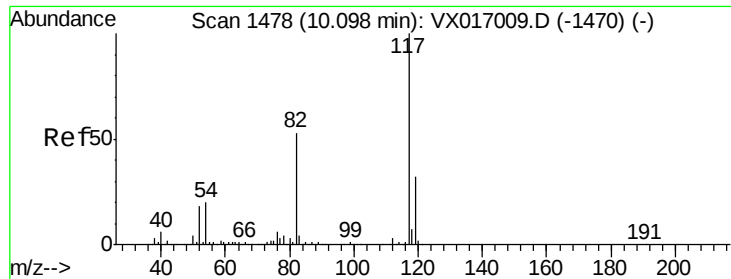
Ion Ratio Lower Upper

95 100

174 80.7 0.0 164.0

176 77.2 0.0 157.6

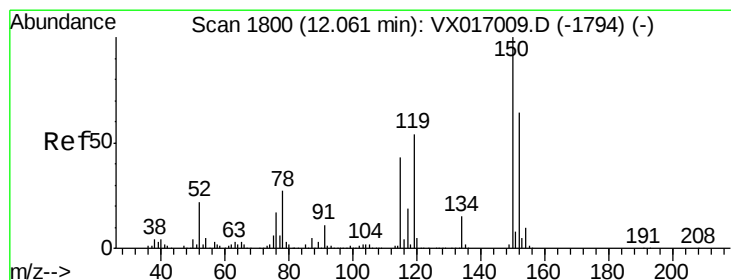
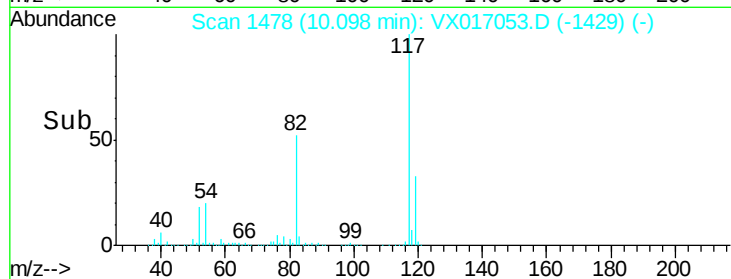
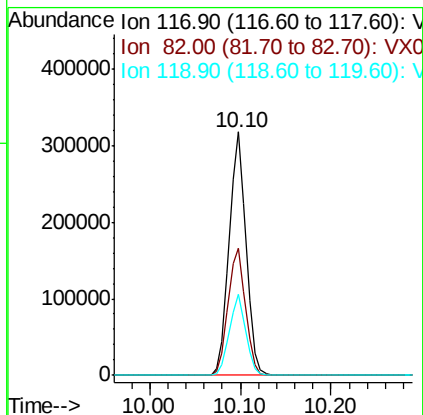
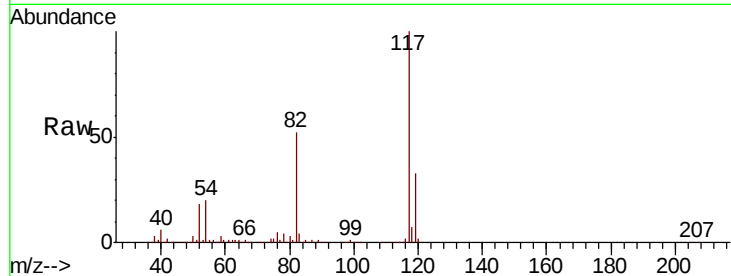




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017053.D
Acq: 30 Jun 2020 18:18

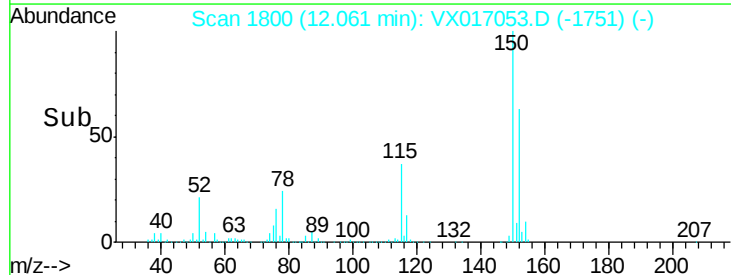
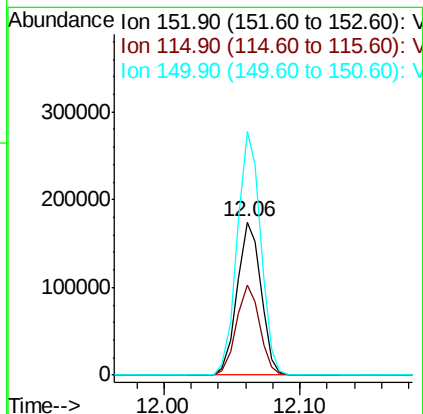
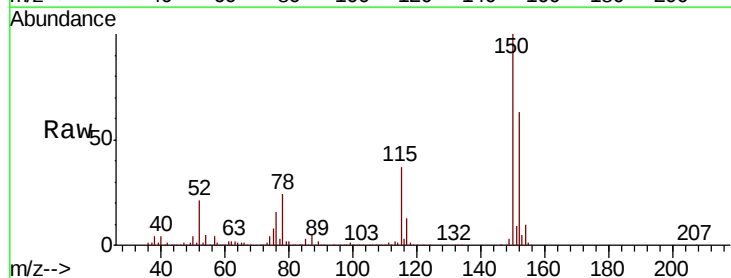
Instrument :
MSVOA_X
ClientSampleId :
MW-4

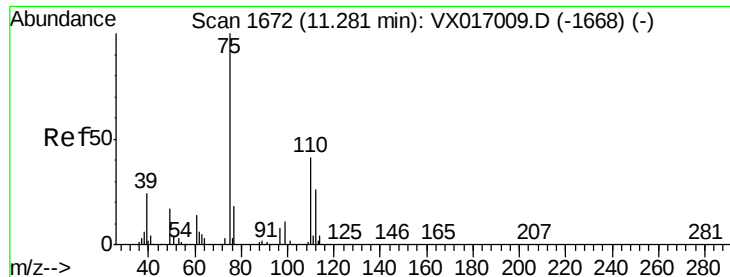
Tot Ion:117 Resp: 411351
Ion Ratio Lower Upper
117 100
82 52.1 42.6 63.8
119 33.4 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017053.D
Acq: 30 Jun 2020 18:18

Tgt Ion:152 Resp: 212796
Ion Ratio Lower Upper
152 100
115 57.8 40.9 122.7
150 157.0 0.0 351.6





#76

1,2,3-Trichloropropane

Concen: 23.797 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Instrument :

MSVOA_X

ClientSampled :

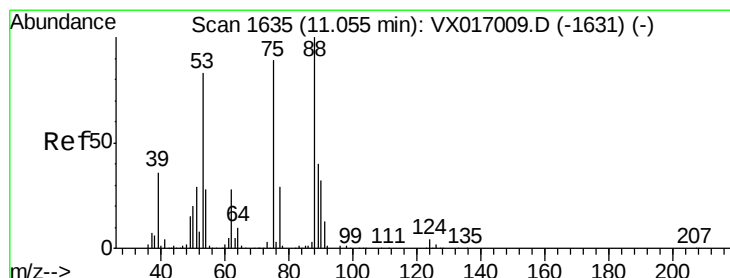
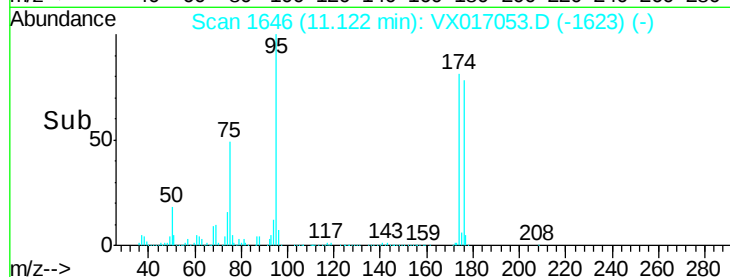
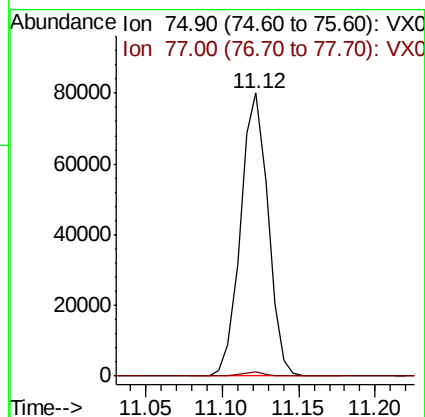
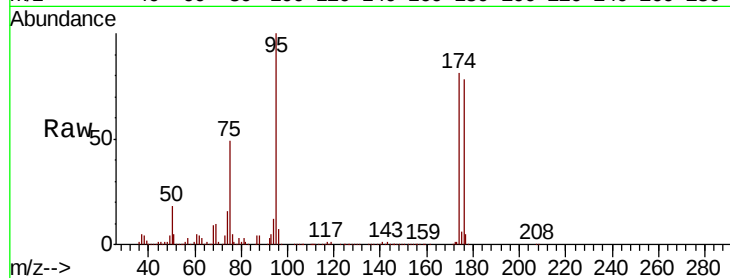
MW-4

Tot Ion: 75 Resp: 99577

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.625 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017053.D

Acq: 30 Jun 2020 18:18

Tgt Ion: 75 Resp: 99577

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#

