

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092420\
 Data File : VX018574.D
 Acq On : 24 Sep 2020 15:54
 Operator : JC/SP
 Sample : L4118-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D2-20200919

Quant Time: Sep 25 01:07:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	440702	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	720613	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	699646	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	347020	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	324730	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
35) Dibromofluoromethane	5.47	113	250505	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
50) Toluene-d8	8.70	98	884376	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.12	95	331768	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	

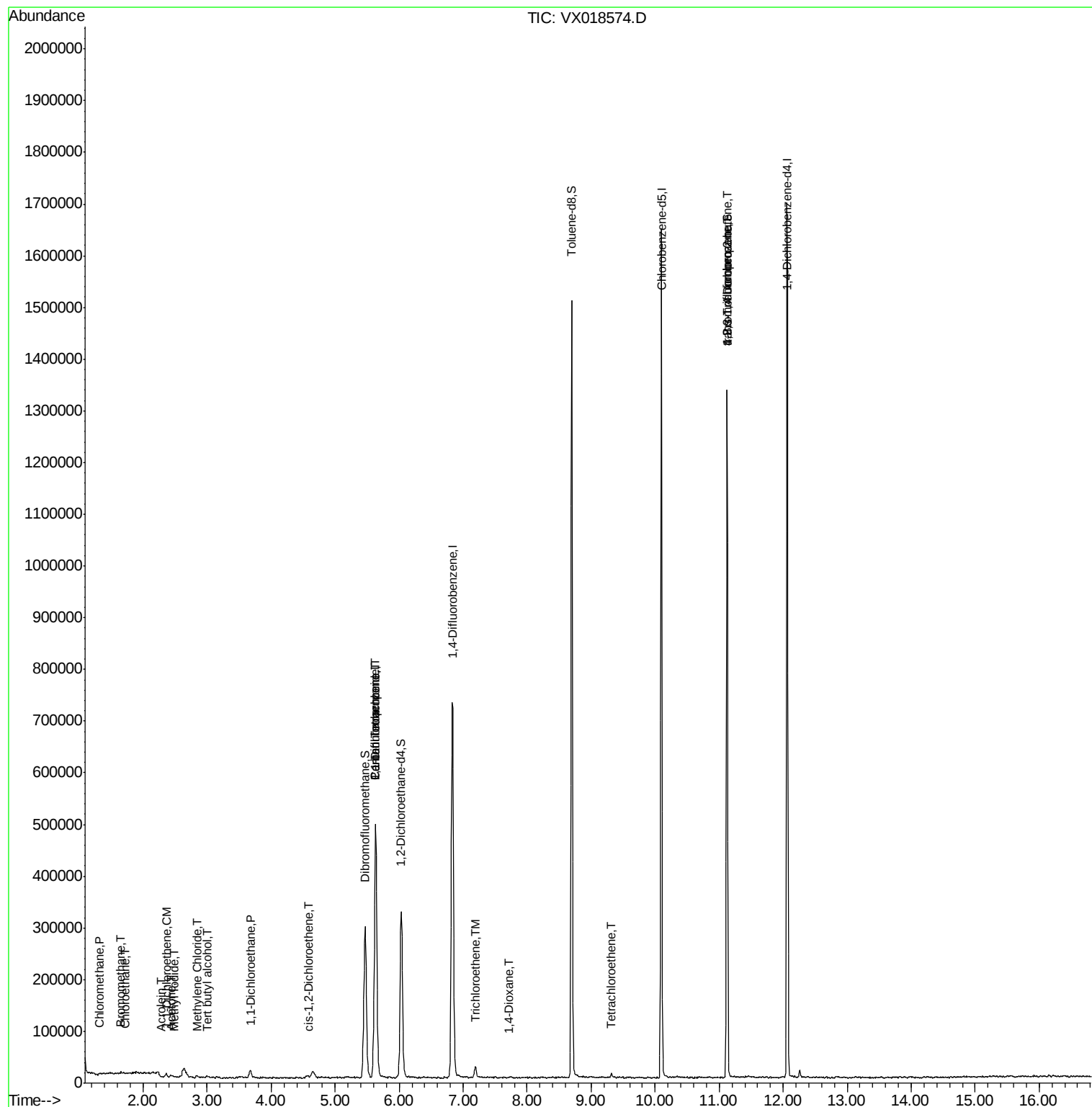
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1961	0.401	ug/l #	78
5) Bromomethane	1.65	94	705	0.222	ug/l #	15
6) Chloroethane	1.72	64	668	0.225	ug/l #	42
10) Methyl Iodide	2.48	142	62	4.925	ug/l #	1
11) Tert butyl alcohol	2.99	59	2032	1.873	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	2648	0.620	ug/l	93
13) Acrolein	2.29	56	373	0.543	ug/l #	73
16) Acetone	2.44	43	5902	2.475	ug/l	97
20) Methylene Chloride	2.84	84	2537	0.482	ug/l #	63
24) 1,1-Dichloroethane	3.67	63	17023	1.899	ug/l	97
27) cis-1,2-Dichloroethene	4.57	96	2986	0.537	ug/l	79
36) 1,1-Dichloropropene	5.63	75	35078	5.015	ug/l #	51
38) Carbon Tetrachloride	5.63	117	47195	6.093	ug/l #	20
44) Trichloroethene	7.19	130	8097	1.395	ug/l	85
49) 1,4-Dioxane	7.71	88	22	0.221	ug/l #	1
64) Tetrachloroethene	9.32	164	1145	0.208	ug/l #	74
76) 1,2,3-Trichloropropane	11.12	75	173413	23.780	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	173413	60.936	ug/l #	13

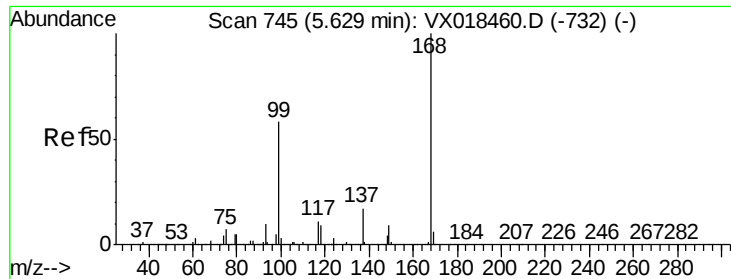
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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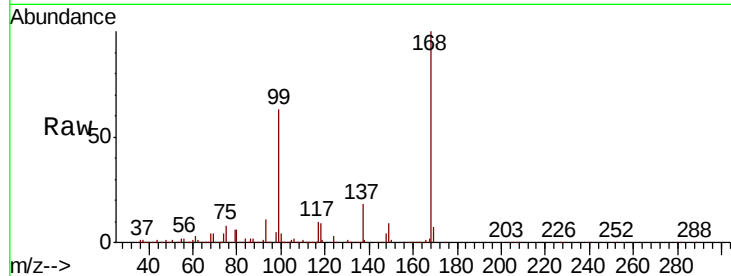


#1

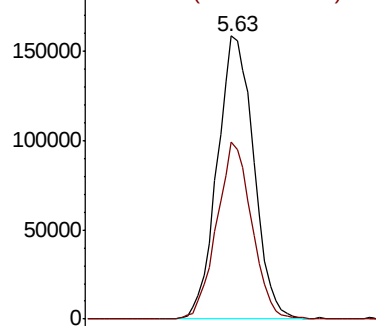
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VX018574.D
 Acq: 24 Sep 2020 15:54

Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D2-20200919

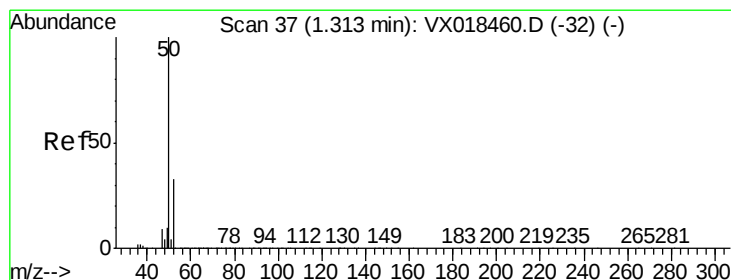
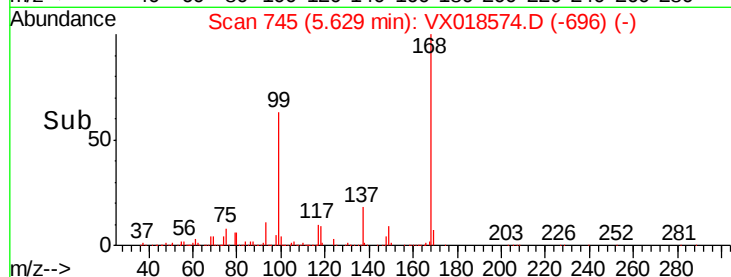
Tot Ion:168 Resp: 440702
 Ion Ratio Lower Upper
 168 100
 99 62.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



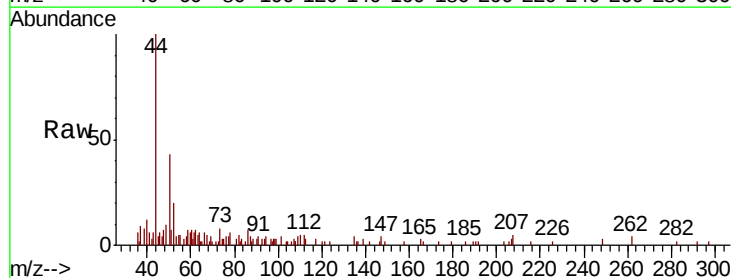
Time-->



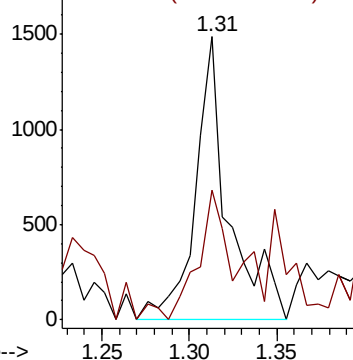
#3

Chloromethane
 Concen: 0.401 ug/l
 RT: 1.31 min Scan# 37
 Delta R.T. -0.00 min
 Lab File: VX018574.D
 Acq: 24 Sep 2020 15:54

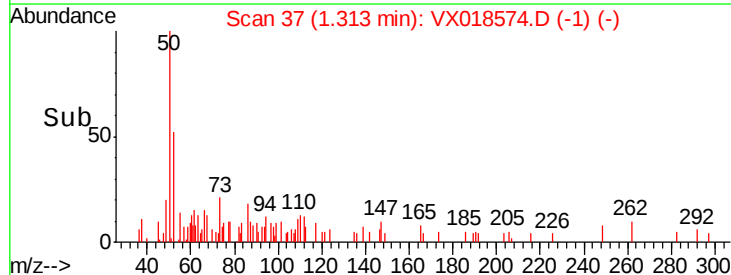
Tgt Ion: 50 Resp: 1961
 Ion Ratio Lower Upper
 50 100
 52 45.7 26.6 40.0#

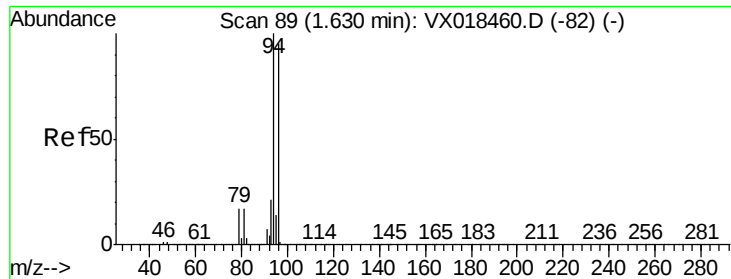


Abundance Ion 49.90 (49.60 to 50.60): VX0
 Ion 51.90 (51.60 to 52.60): VX0



Time-->





#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

MSVOA_X

ClientSampleId :

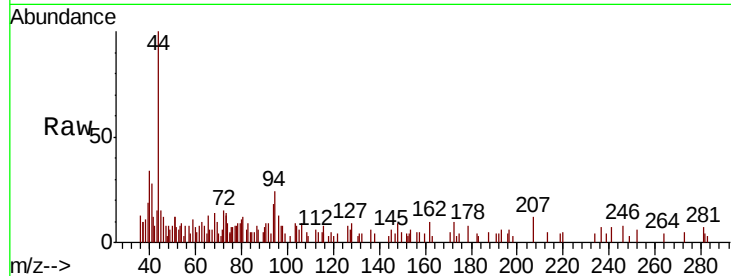
MW203D2-20200919

Tot Ion: 94 Resp: 705

Ion Ratio Lower Upper

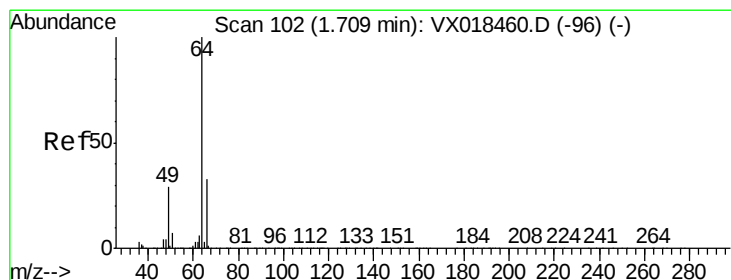
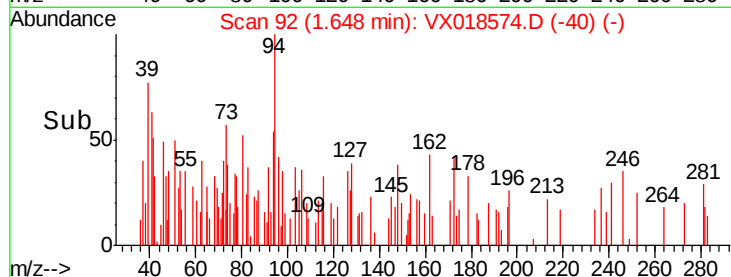
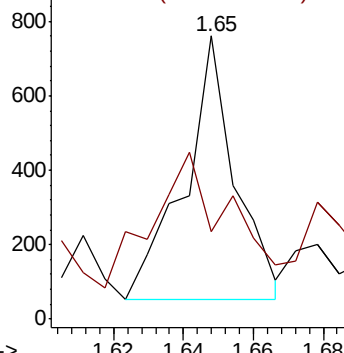
94 100

96 12.3 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.225 ug/l

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX018574.D

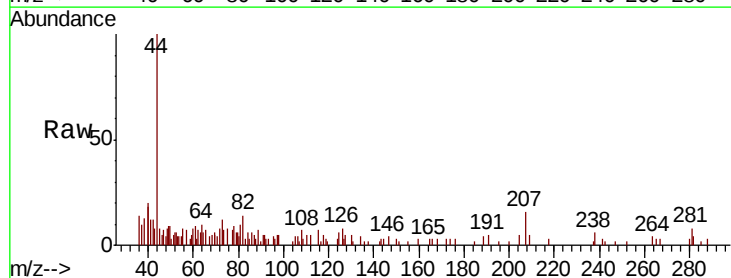
Acq: 24 Sep 2020 15:54

Tgt Ion: 64 Resp: 668

Ion Ratio Lower Upper

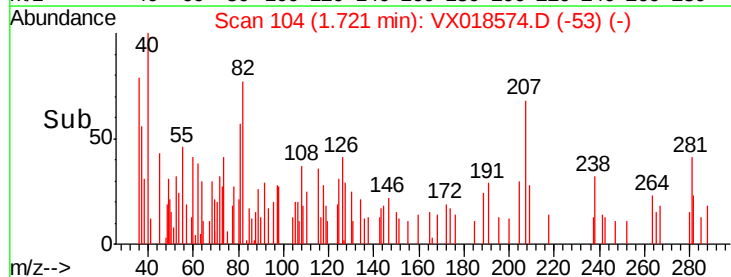
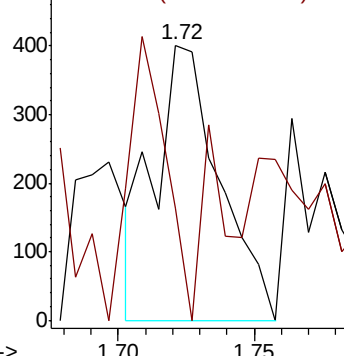
64 100

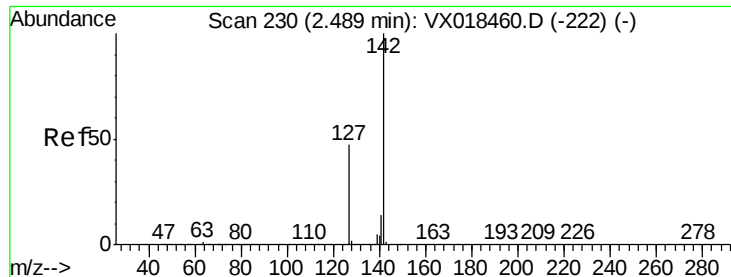
66 0.0 26.2 39.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

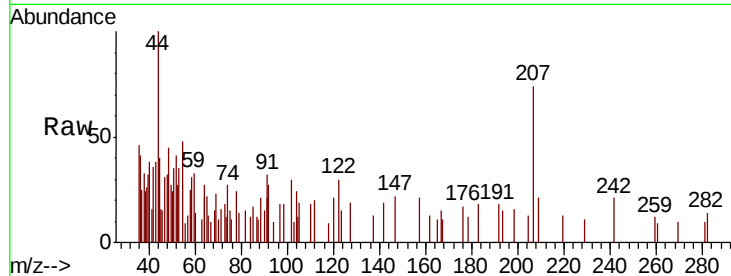




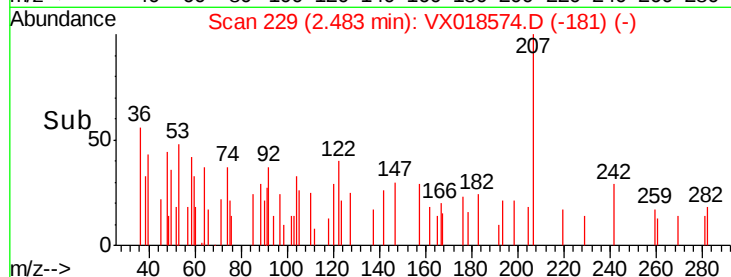
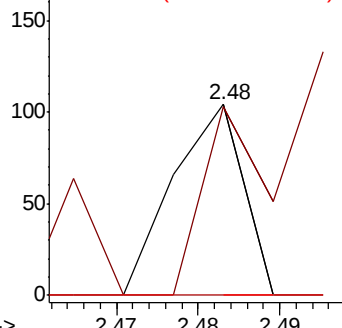
#10
Methyl Iodide
Concen: 4.925 ug/l
RT: 2.48 min Scan# 229
Delta R.T. -0.01 min
Lab File: VX018574.D
Acq: 24 Sep 2020 15:54

Instrument :
MSVOA_X
ClientSampleId :
MW203D2-20200919

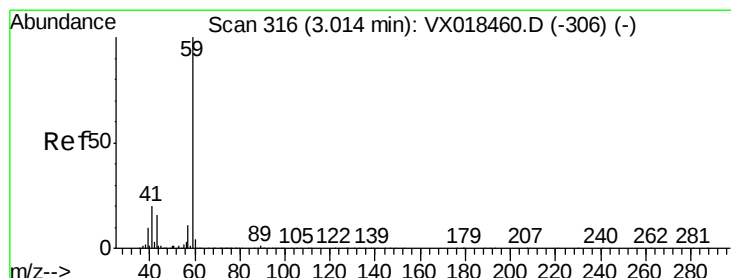
Tot Ion:142 Resp: 62
Ion Ratio Lower Upper
142 100
127 169.4 36.0 54.0#
141 46.8 11.9 17.9#



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

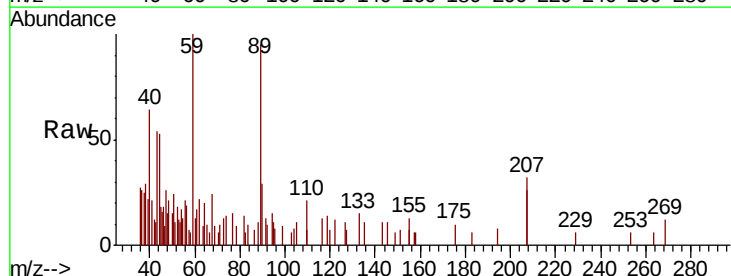


Time-->

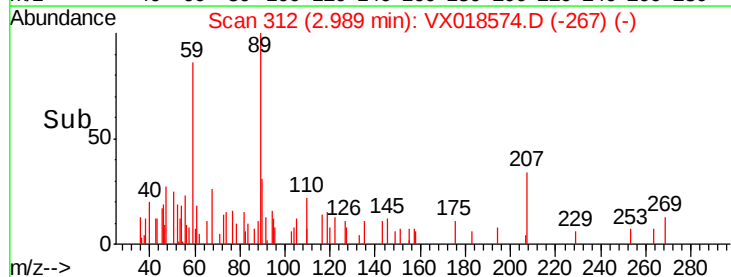
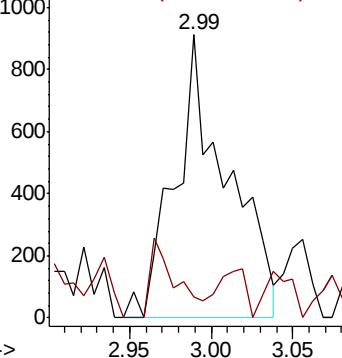


#11
Tert butyl alcohol
Concen: 1.873 ug/l
RT: 2.99 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX018574.D
Acq: 24 Sep 2020 15:54

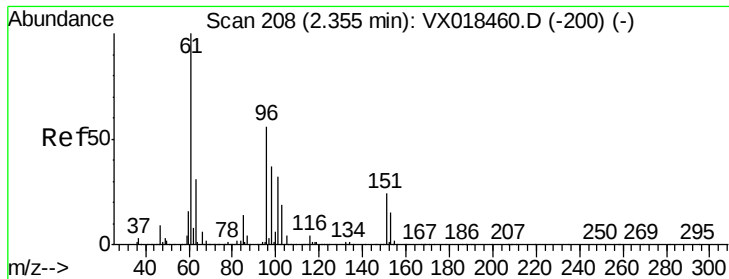
Tgt Ion: 59 Resp: 2032
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



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



Time-->



#12

1,1-Dichloroethene

Concen: 0.620 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20200919

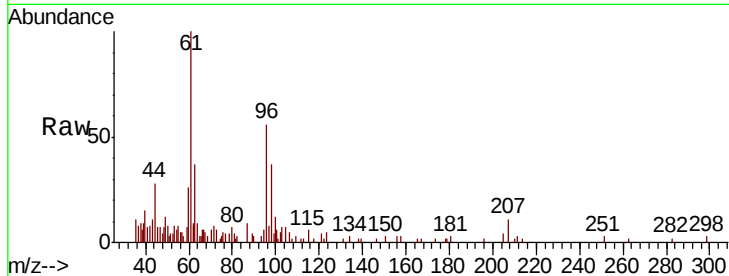
Tot Ion: 96 Resp: 2648

Ion Ratio Lower Upper

96 100

61 168.2 142.2 213.4

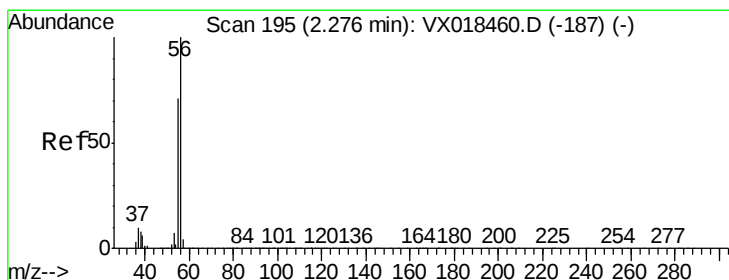
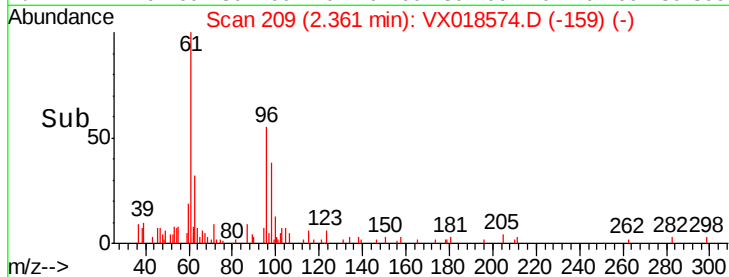
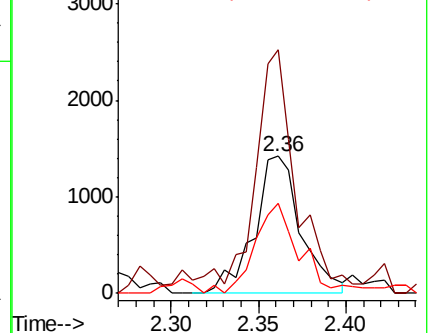
98 59.5 52.4 78.6



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: 0.543 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.01 min

Lab File: VX018574.D

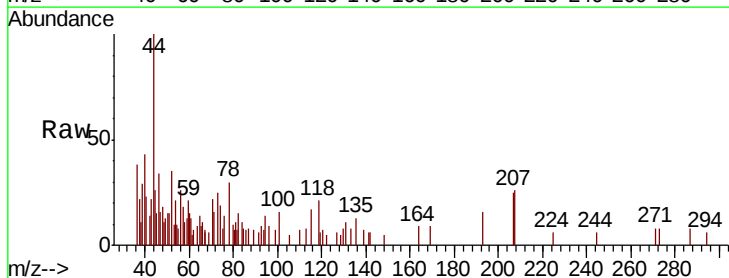
Acq: 24 Sep 2020 15:54

Tgt Ion: 56 Resp: 373

Ion Ratio Lower Upper

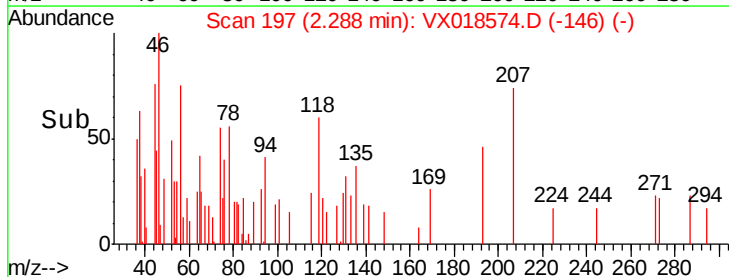
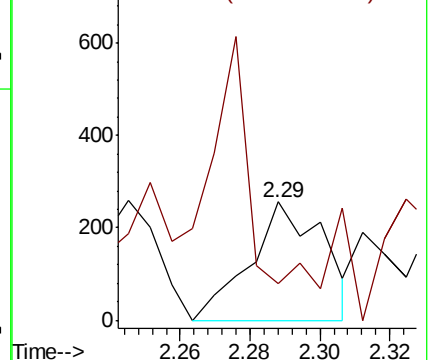
56 100

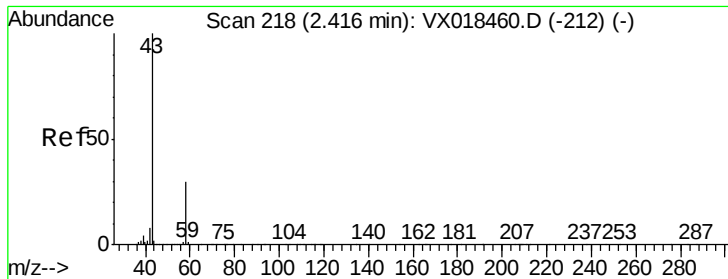
55 95.2 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.475 ug/l

RT: 2.44 min Scan# 222

Delta R.T. 0.02 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

MSVOA_X

ClientSampleId :

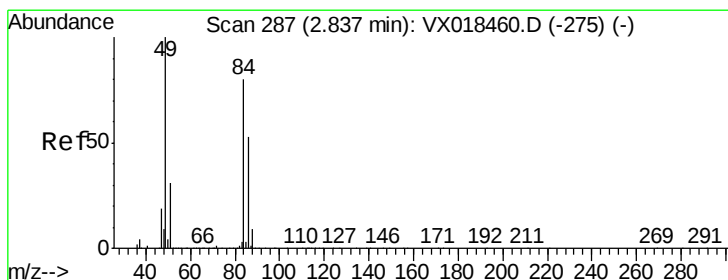
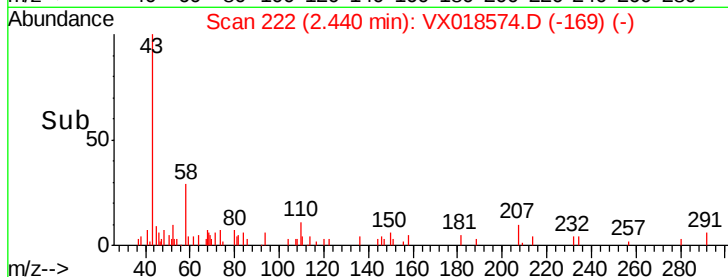
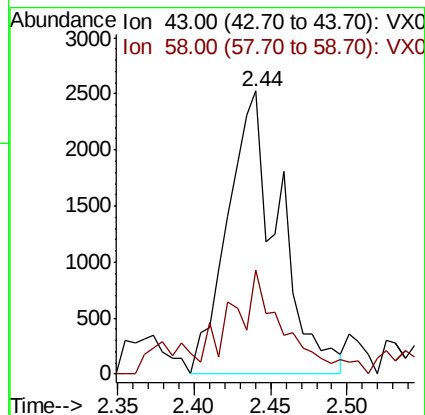
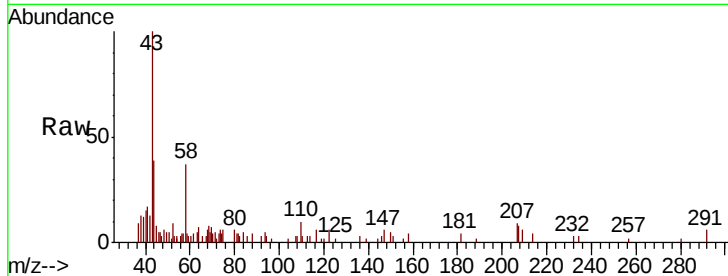
MW203D2-20200919

Tot Ion: 43 Resp: 5902

Ion Ratio Lower Upper

43 100

58 31.5 24.0 36.0



#20

Methylene Chloride

Concen: 0.482 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Tgt Ion: 84 Resp: 2537

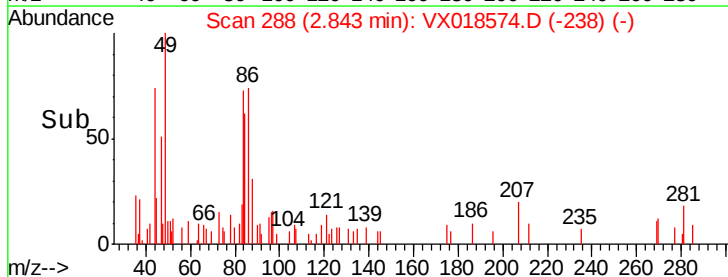
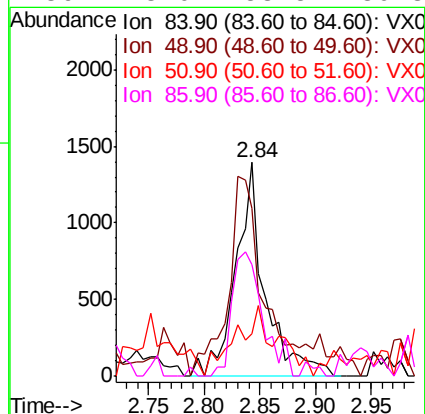
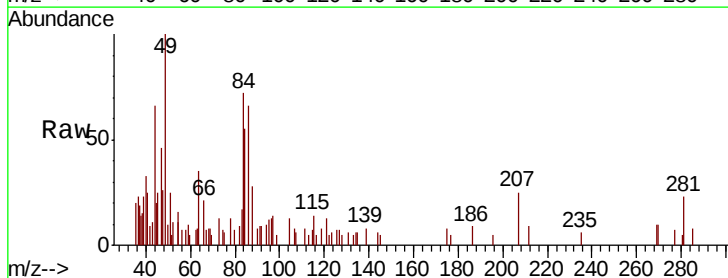
Ion Ratio Lower Upper

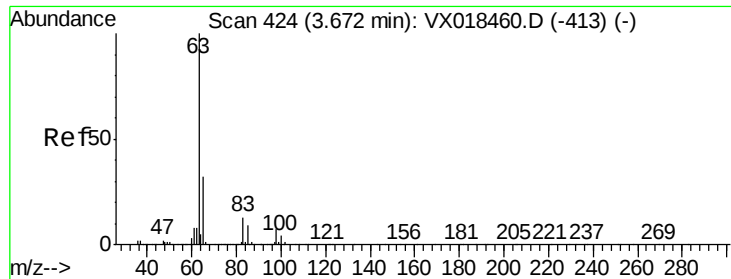
84 100

49 78.6 100.6 151.0#

51 11.9 30.9 46.3#

86 48.0 53.5 80.3#





#24

1,1-Dichloroethane

Concen: 1.899 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

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ClientSampleId :

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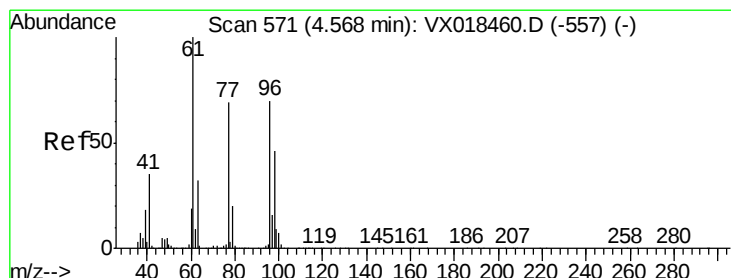
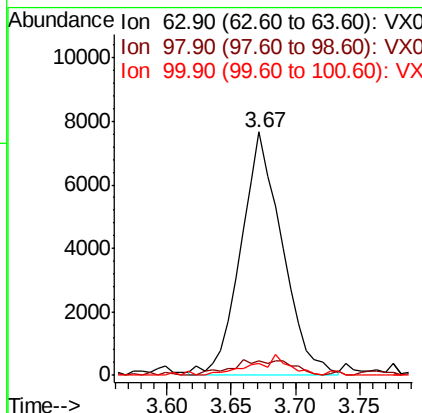
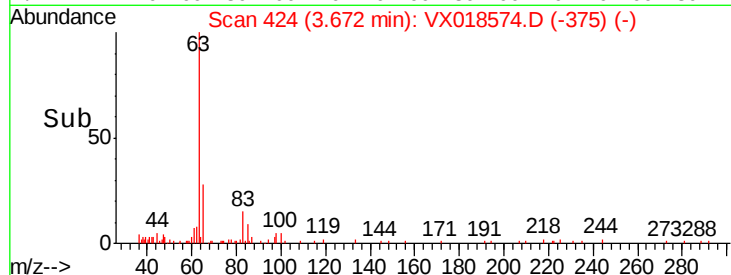
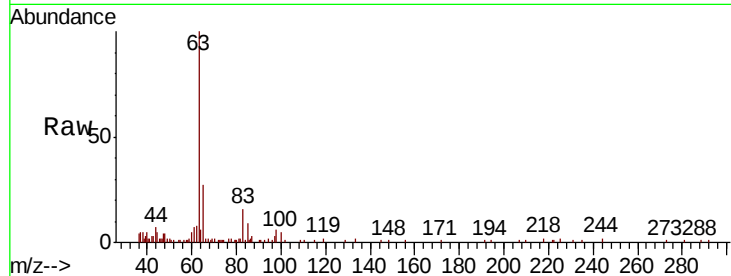
Tot Ion: 63 Resp: 17023

Ion Ratio Lower Upper

63 100

98 5.8 3.5 10.6

100 3.2 1.9 5.7



#27

cis-1,2-Dichloroethene

Concen: 0.537 ug/l

RT: 4.57 min Scan# 572

Delta R.T. 0.01 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

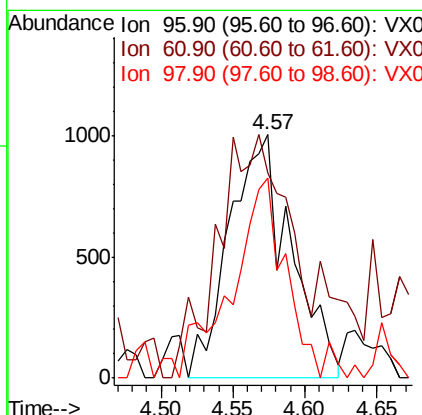
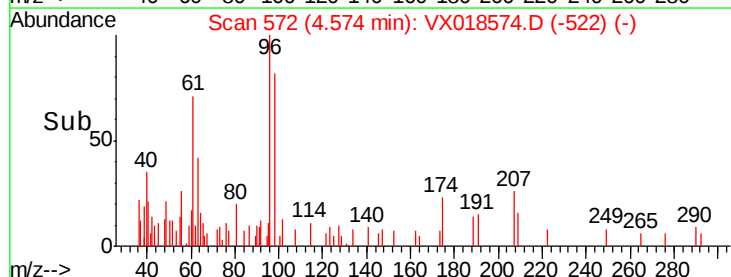
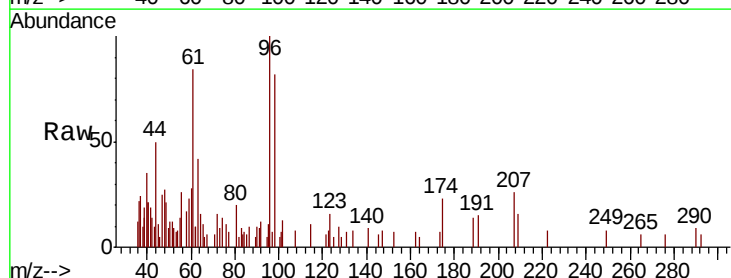
Tgt Ion: 96 Resp: 2986

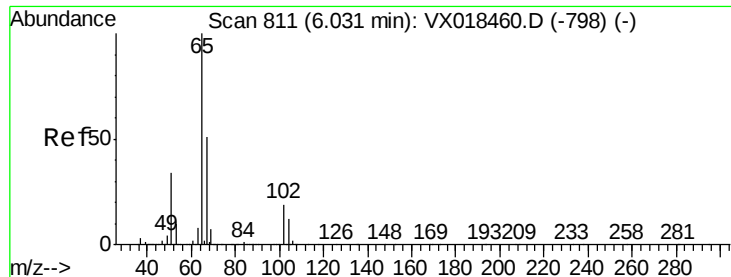
Ion Ratio Lower Upper

96 100

61 114.6 0.0 300.0

98 70.1 0.0 130.4

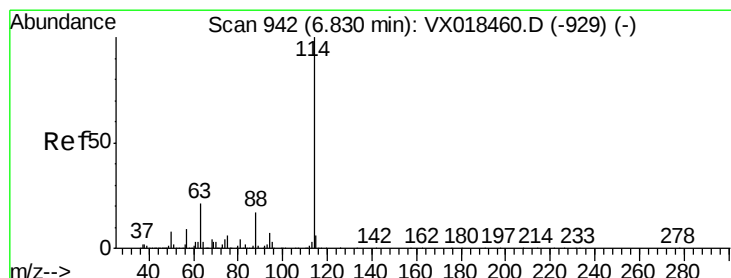
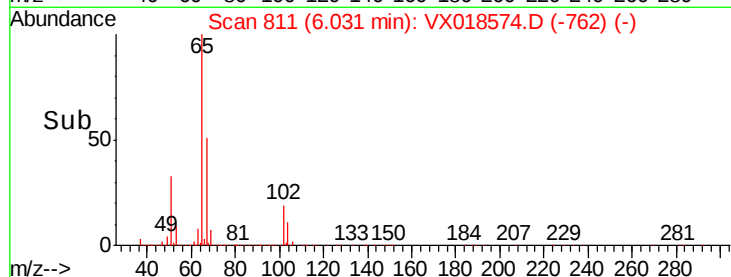
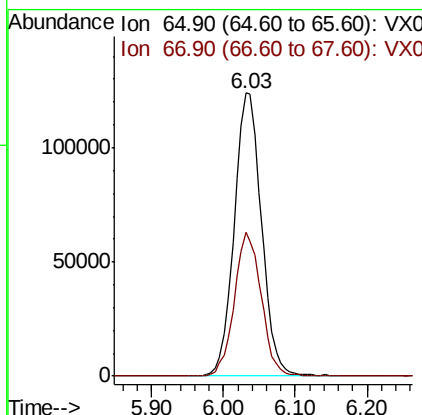
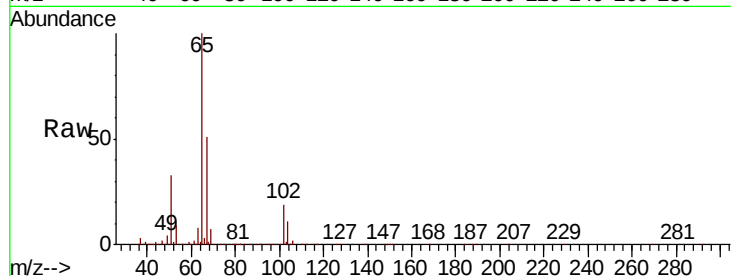




#33
 1,2-Dichloroethane-d4
 Concen: 52.087 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX018574.D
 Acq: 24 Sep 2020 15:54

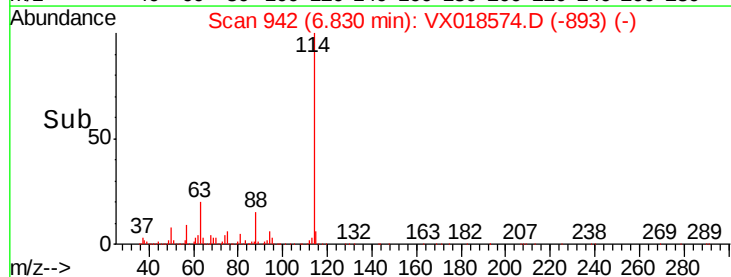
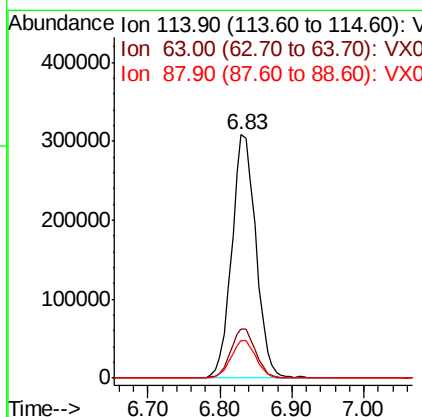
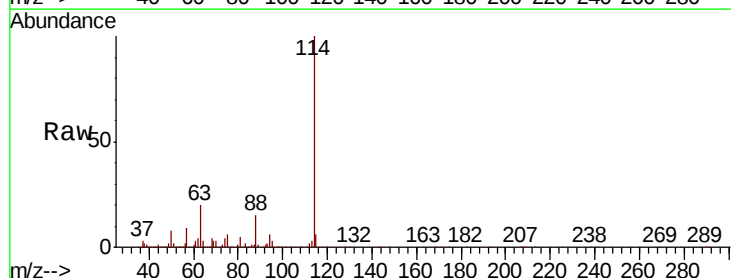
Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D2-20200919

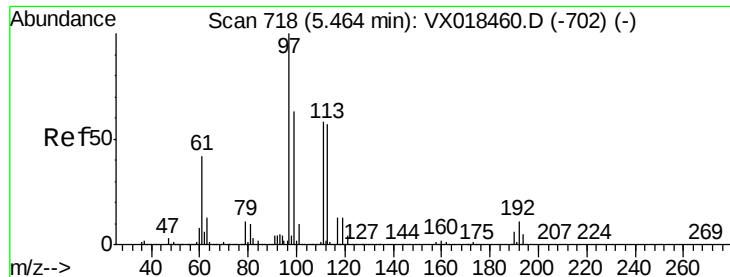
Tot Ion: 65 Resp: 324730
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX018574.D
 Acq: 24 Sep 2020 15:54

Tgt Ion: 114 Resp: 720613
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 42.8
 88 15.3 0.0 33.6

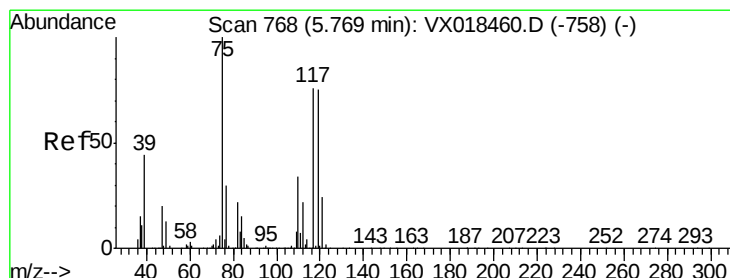
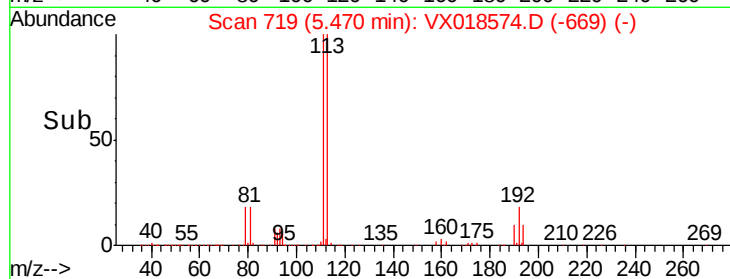
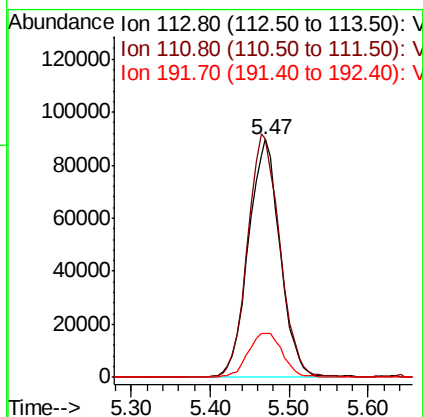
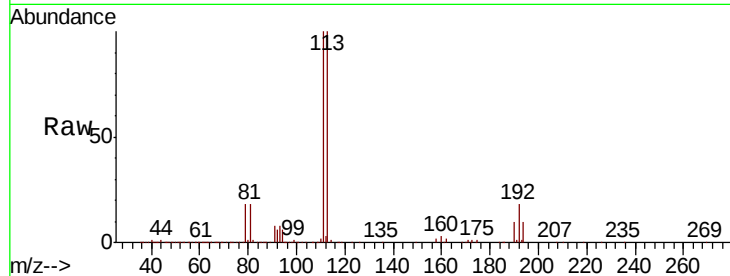




#35
 Dibromofluoromethane
 Concen: 50.285 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX018574.D
 Acq: 24 Sep 2020 15:54

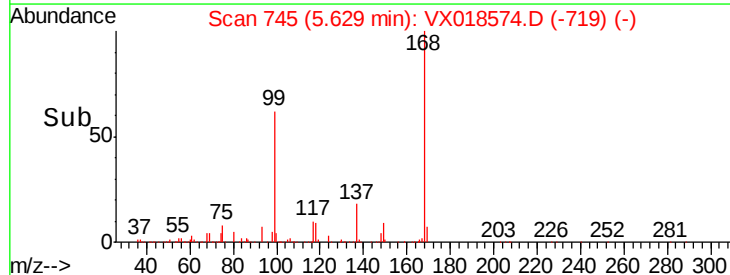
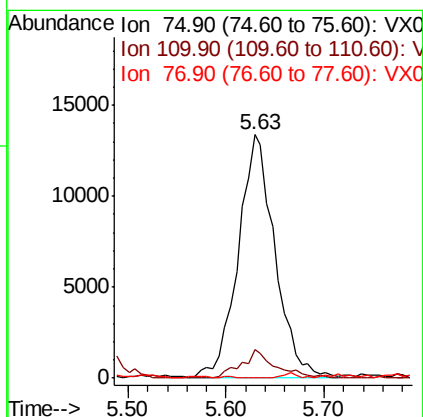
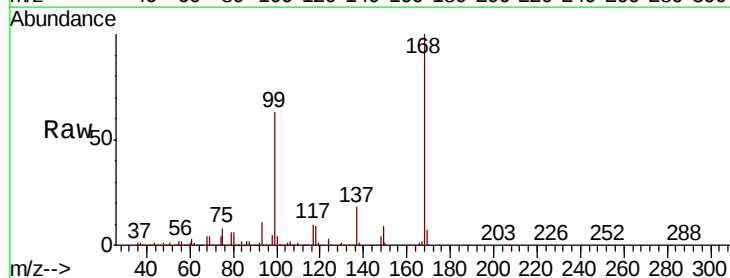
Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D2-20200919

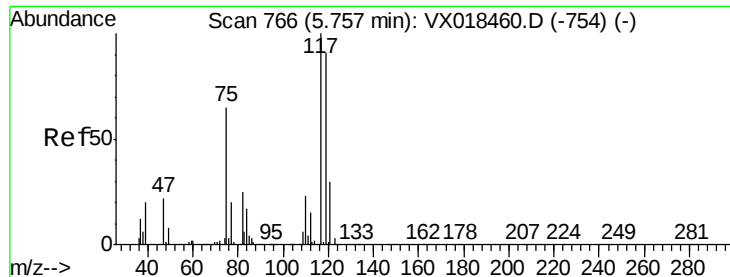
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.4	122.2
192	20.2	16.6	24.8



#36
 1,1-Dichloropropene
 Concen: 5.015 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018574.D
 Acq: 24 Sep 2020 15:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.9	17.6	52.8#
77	0.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 6.093 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20200919

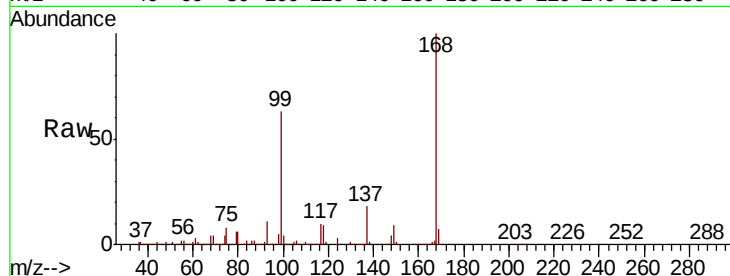
Tot Ion:117 Resp: 47195

Ion Ratio Lower Upper

117 100

119 6.5 72.3 108.5#

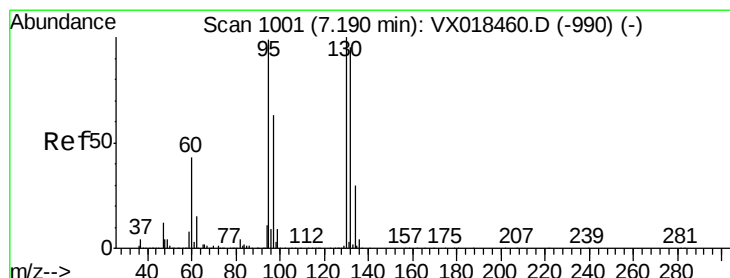
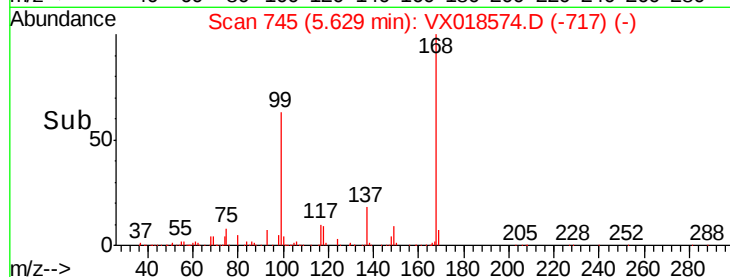
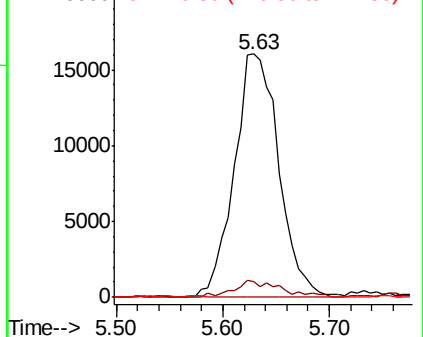
121 0.0 23.8 35.8#



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



#44

Trichloroethene

Concen: 1.395 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX018574.D

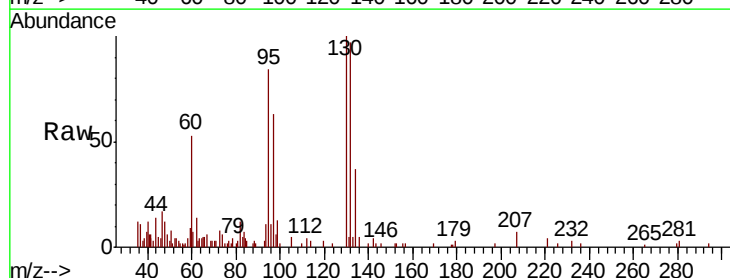
Acq: 24 Sep 2020 15:54

Tgt Ion:130 Resp: 8097

Ion Ratio Lower Upper

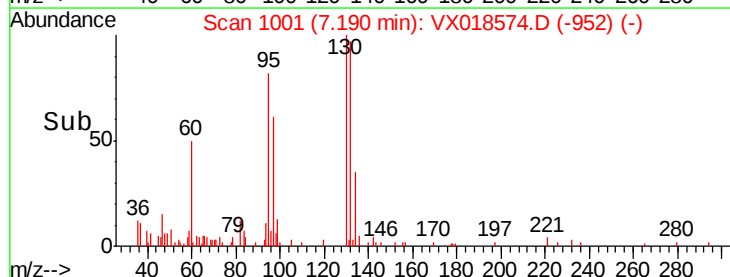
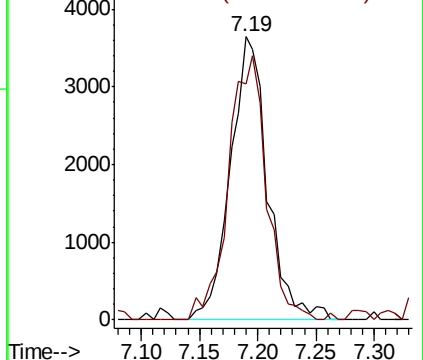
130 100

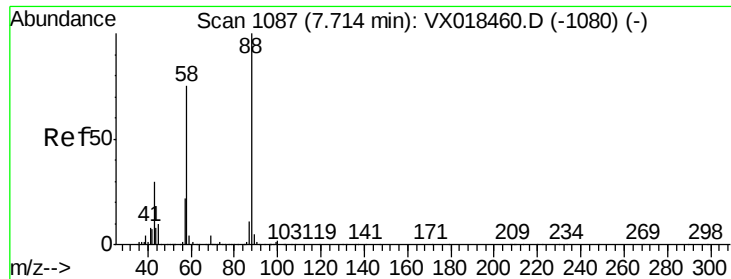
95 83.6 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.221 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20200919

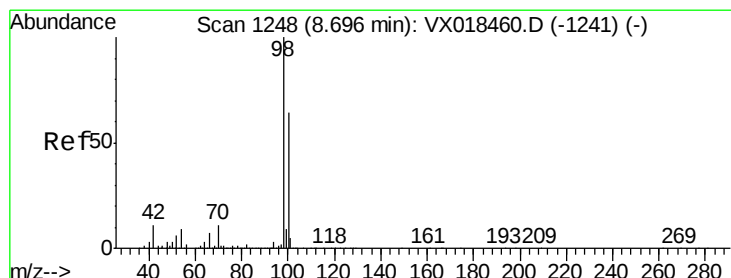
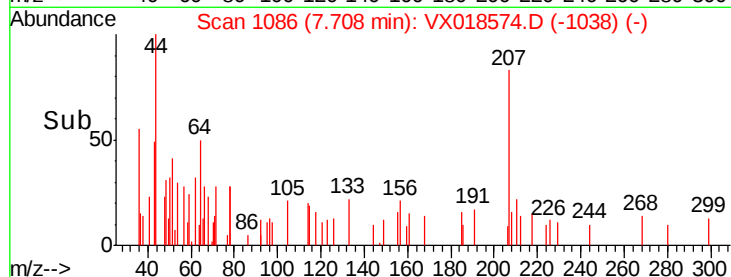
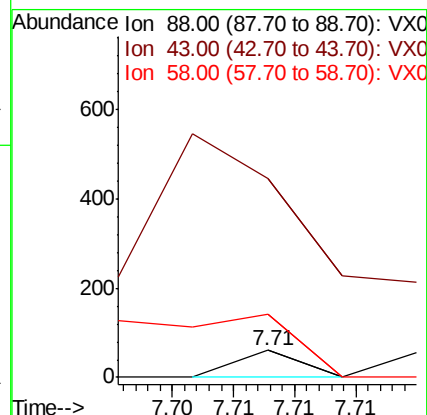
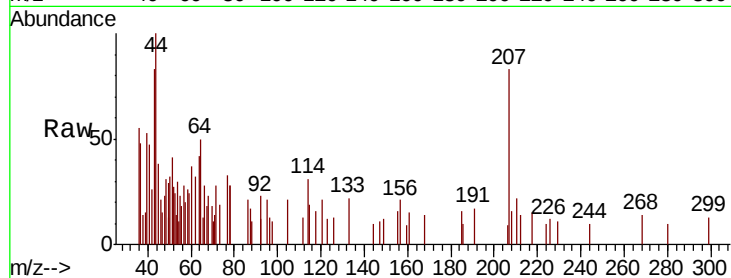
Tot Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 1436.4 29.9 44.9#

58 1004.5 59.0 88.6#



#50

Toluene-d8

Concen: 48.860 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018574.D

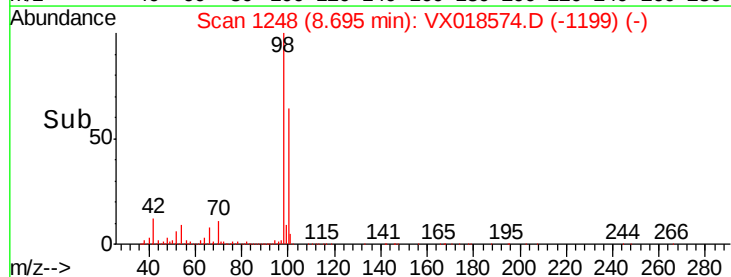
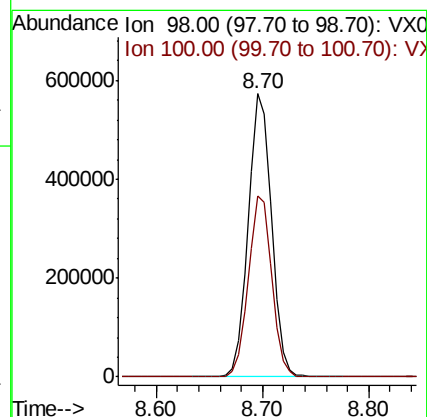
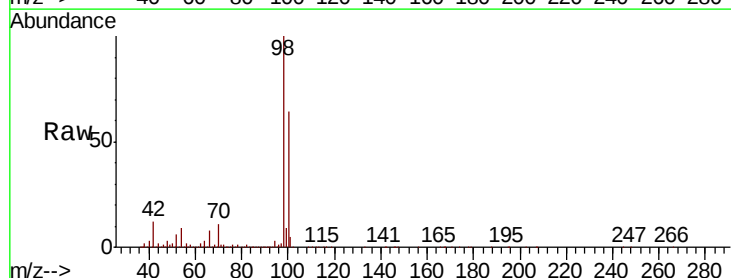
Acq: 24 Sep 2020 15:54

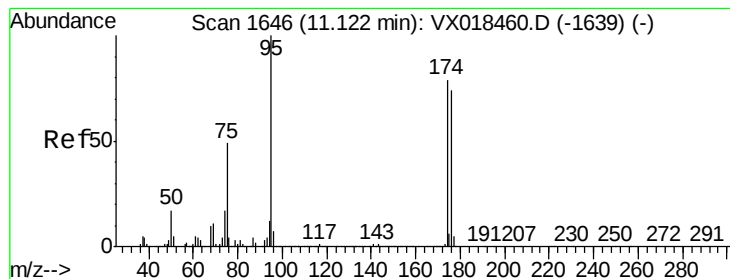
Tgt Ion: 98 Resp: 884376

Ion Ratio Lower Upper

98 100

100 64.2 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 46.080 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20200919

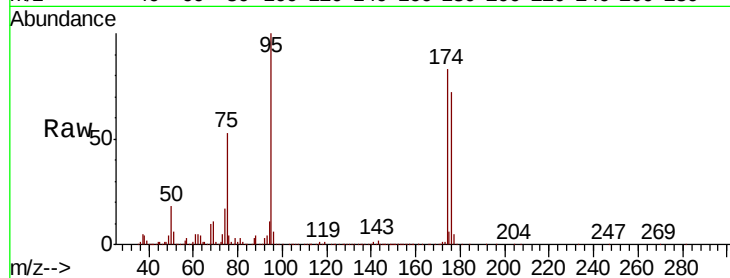
Tot Ion: 95 Resp: 331768

Ion Ratio Lower Upper

95 100

174 81.1 0.0 161.4

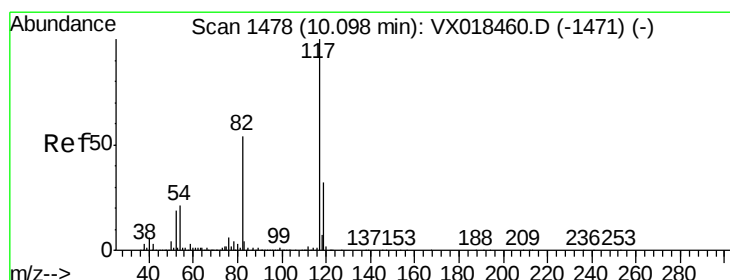
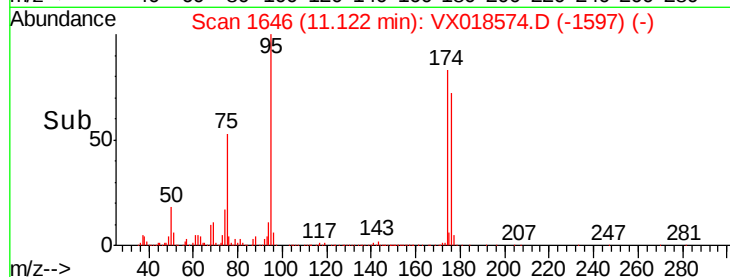
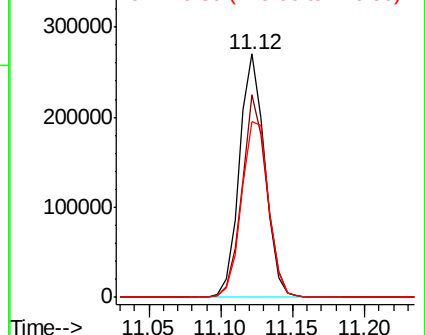
176 77.3 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX018460.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018460.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018460.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

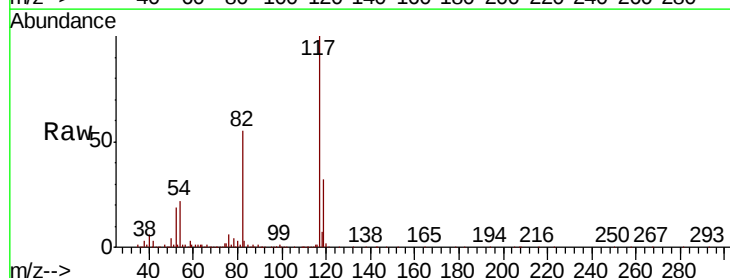
Tgt Ion: 117 Resp: 699646

Ion Ratio Lower Upper

117 100

82 54.8 43.3 64.9

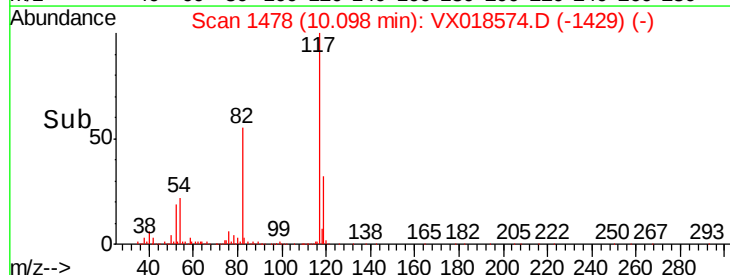
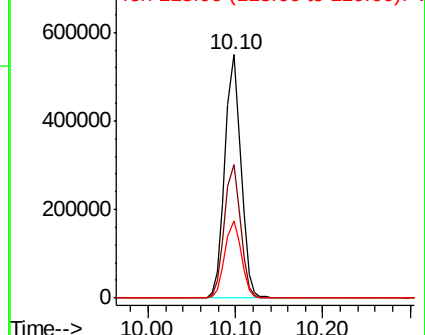
119 31.8 25.9 38.9

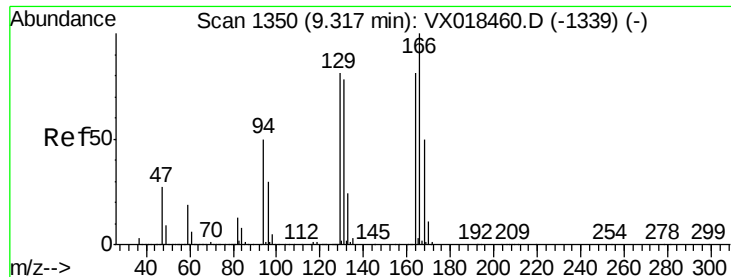


Abundance Ion 116.90 (116.60 to 117.60): VX018460.D (-1471) (-)

Ion 82.00 (81.70 to 82.70): VX018460.D (-1471) (-)

Ion 118.90 (118.60 to 119.60): VX018460.D (-1471) (-)





#64

Tetrachloroethene

Concen: 0.208 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

MSVOA_X

ClientSampleId :

MW203D2-20200919

Tot Ion:164 Resp: 1145

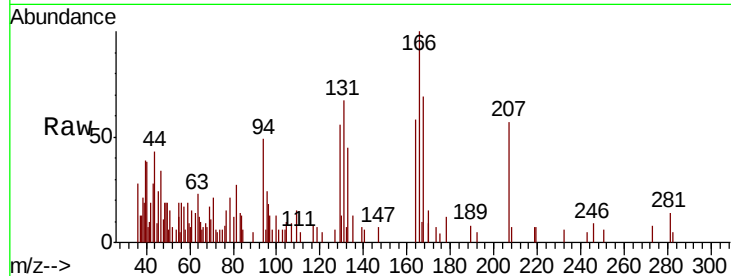
Ion Ratio Lower Upper

164 100

166 171.5 99.3 148.9#

129 87.5 80.7 121.1

131 114.9 77.2 115.8

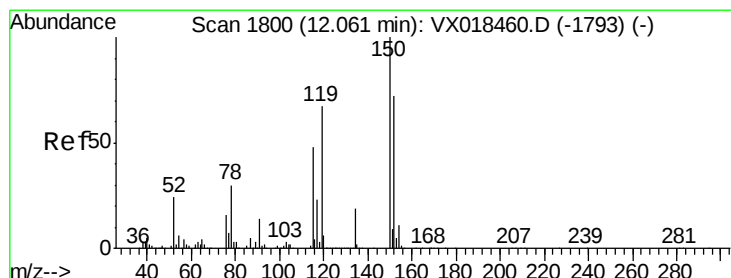
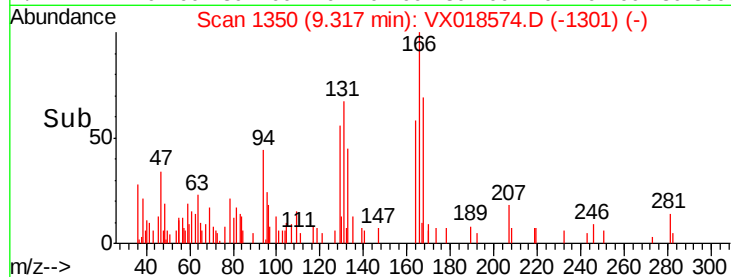
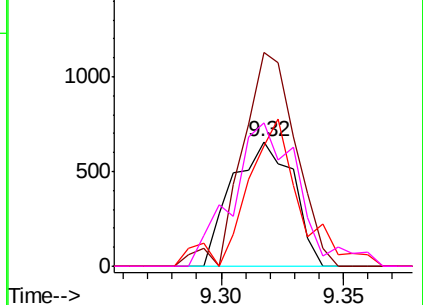


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX018574.D

Acq: 24 Sep 2020 15:54

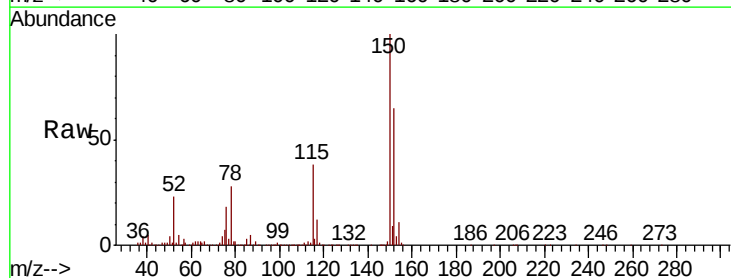
Tgt Ion:152 Resp: 347020

Ion Ratio Lower Upper

152 100

115 59.7 41.8 125.4

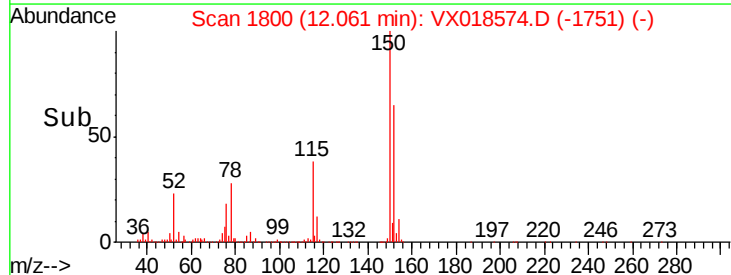
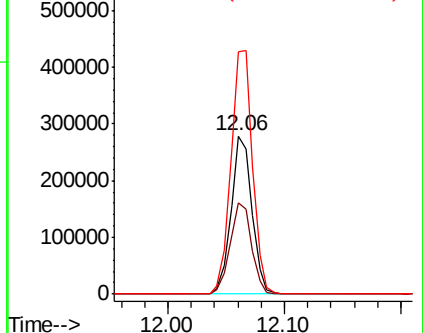
150 160.1 0.0 342.4

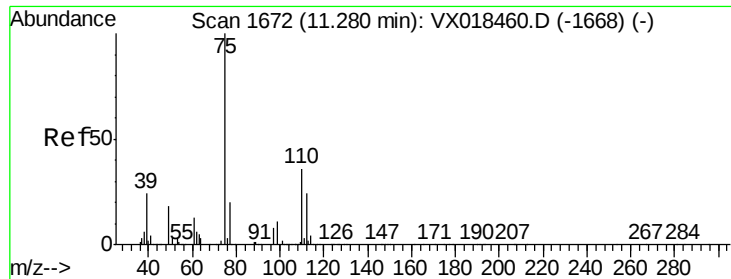


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.780 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Instrument :

MSVOA_X

ClientSampleId :

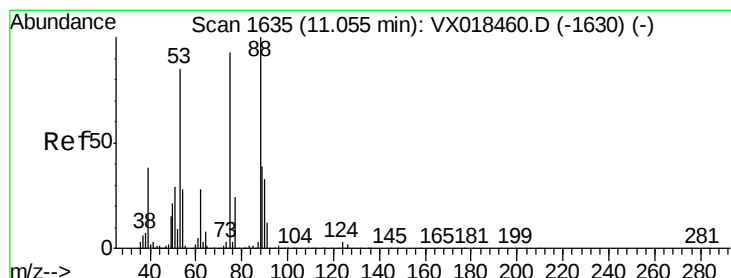
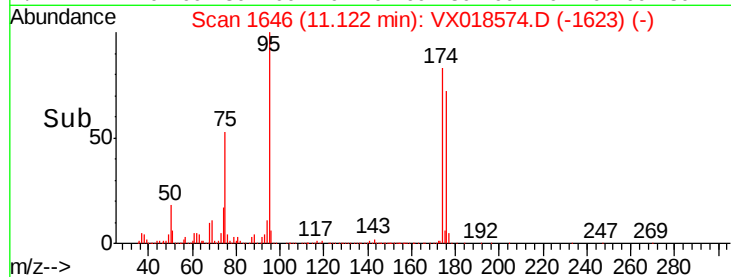
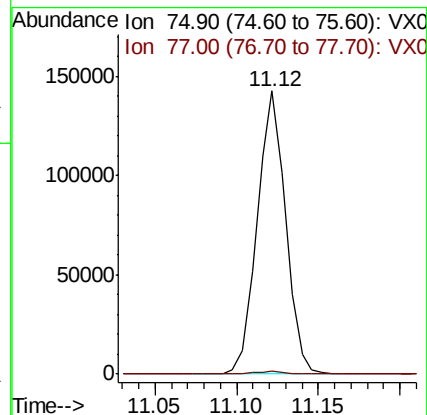
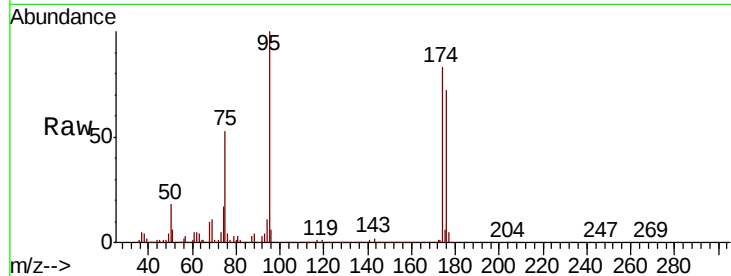
MW203D2-20200919

Tot Ion: 75 Resp: 173413

Ion Ratio Lower Upper

75 100

77 1.4 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.936 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018574.D

Acq: 24 Sep 2020 15:54

Tgt Ion: 75 Resp: 173413

Ion Ratio Lower Upper

75 100

53 0.5 74.6 111.8#

89 0.2 36.2 54.4#

