

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\
 Data File : VN061978.D
 Acq On : 20 Jun 2020 5:39
 Operator : JC/MD
 Sample : L3043-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D-20200614

Quant Time: Jun 22 00:42:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

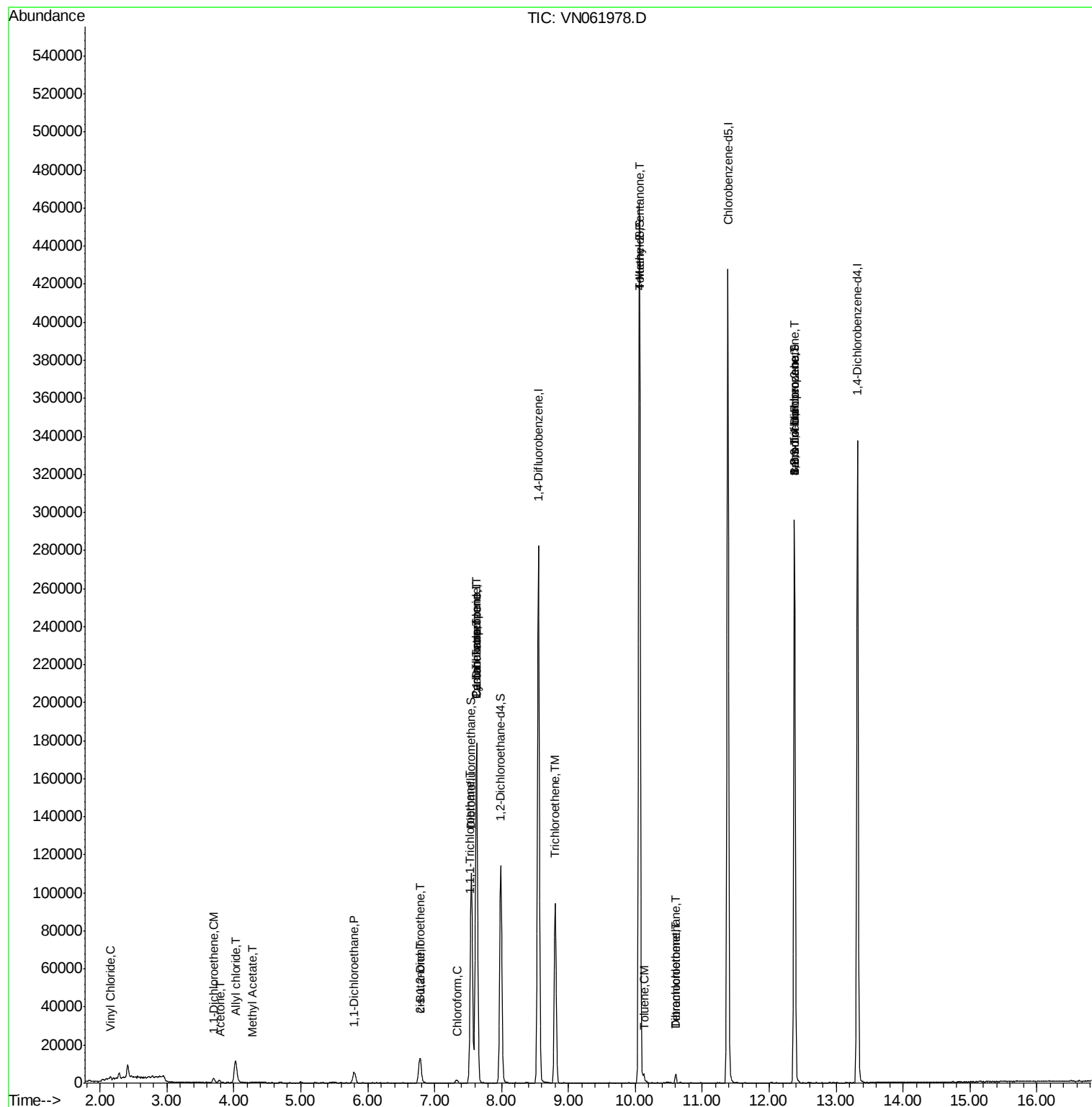
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	144264	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	260801	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	251553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	91702	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	95803	49.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.04%	
35) Dibromofluoromethane	7.55	113	83601	50.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.22%	
50) Toluene-d8	10.06	98	324844	49.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	12.38	95	105314	46.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.62%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.16	62	944	0.395	ug/l	97
12) 1,1-Dichloroethene	3.70	96	1371	0.935	ug/l	87
14) Allyl chloride	4.02	41	2057	1.057	ug/l #	67
16) Acetone	3.78	43	1947	3.407	ug/l #	82
18) Methyl Acetate	4.27	43	489	0.297	ug/l #	46
24) 1,1-Dichloroethane	5.79	63	9376	3.219	ug/l	99
25) 2-Butanone	6.79	43	198	0.237	ug/l #	44
27) cis-1,2-Dichloroethene	6.78	96	6773	3.486	ug/l	97
30) Chloroform	7.33	83	1320	0.424	ug/l	85
31) Cyclohexane	7.63	56	3033	1.190	ug/l #	16
32) 1,1,1-Trichloroethane	7.53	97	3008	1.135	ug/l #	51
36) 1,1-Dichloropropene	7.63	75	11482	4.827	ug/l #	49
38) Carbon Tetrachloride	7.63	117	14402	6.114	ug/l #	16
44) Trichloroethene	8.80	130	36173	19.074	ug/l	95
51) 4-Methyl-2-Pentanone	10.06	43	1271	0.687	ug/l #	1
52) Toluene	10.13	92	1764	0.390	ug/l	98
60) Dibromochloromethane	10.60	129	1104	0.556	ug/l #	11
64) Tetrachloroethene	10.61	164	1061	0.662	ug/l	86
71) Bromoform	12.38	173	1003	0.743	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	53579	29.761	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	53579	81.169	ug/l #	14

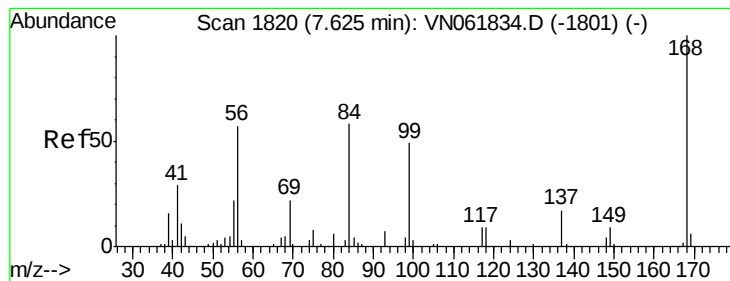
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

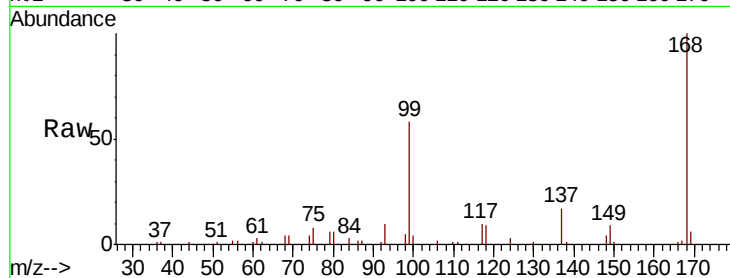
MW203D-20200614

Tot Ion:168 Resp: 144264

Ion Ratio Lower Upper

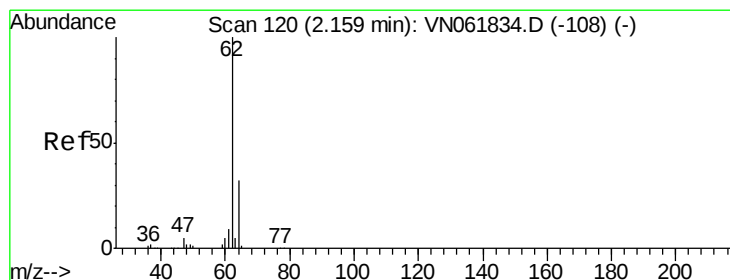
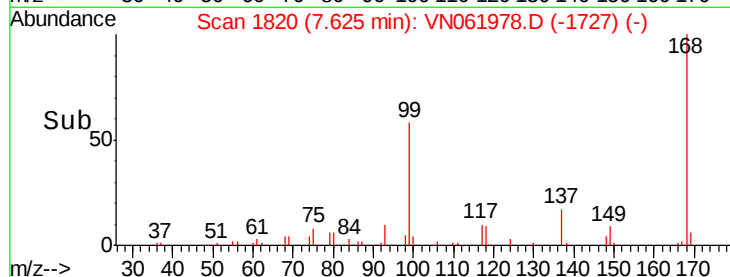
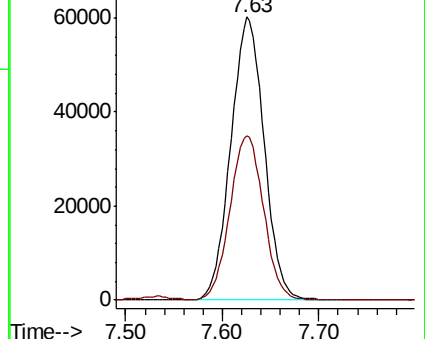
168 100

99 58.2 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#4

Vinyl Chloride

Concen: 0.395 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN061978.D

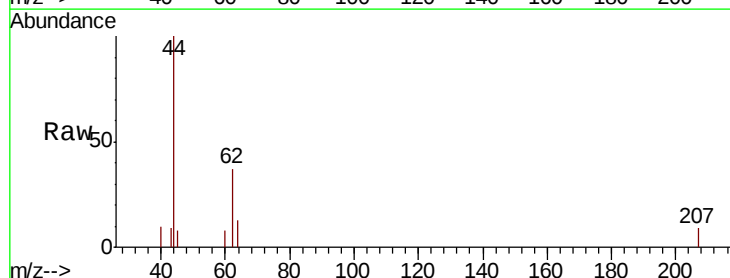
Acq: 20 Jun 2020 5:39

Tgt Ion: 62 Resp: 944

Ion Ratio Lower Upper

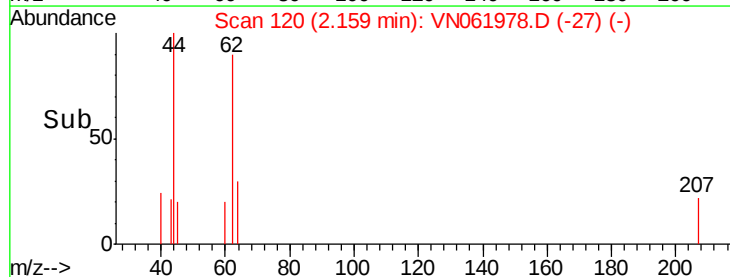
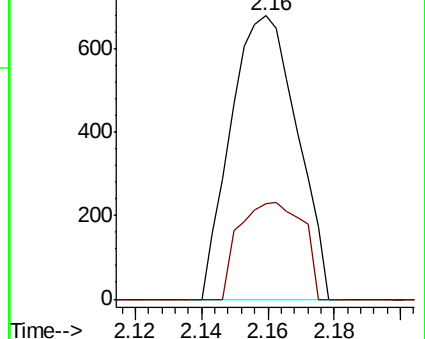
62 100

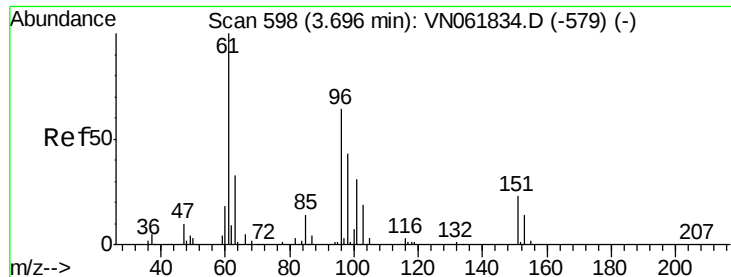
64 33.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN





#12

1,1-Dichloroethene

Concen: 0.935 ug/l

RT: 3.70 min Scan# 598

Delta R.T. -0.00 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20200614

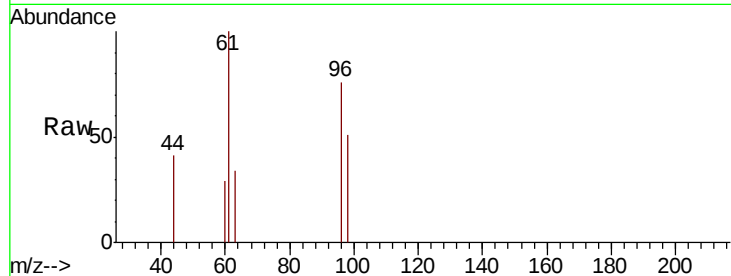
Tot Ion: 96 Resp: 1371

Ion Ratio Lower Upper

96 100

61 132.4 124.3 186.5

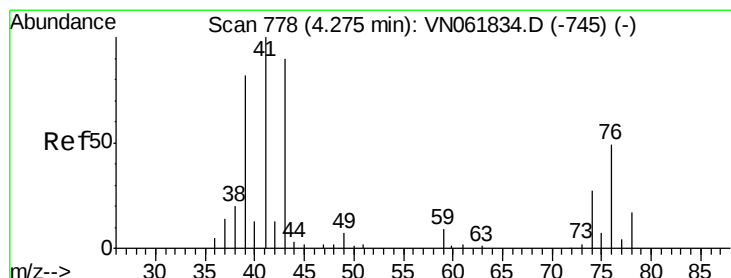
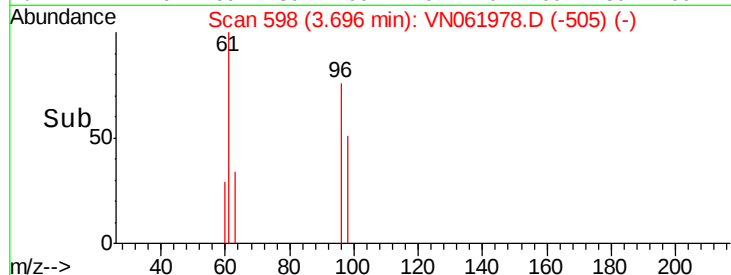
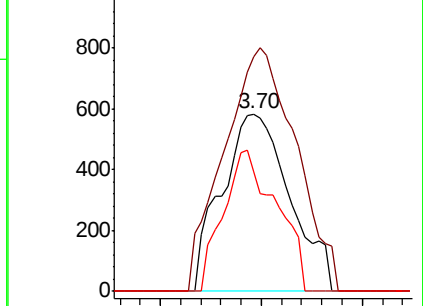
98 67.0 53.1 79.7



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#14

Allyl chloride

Concen: 1.057 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.25 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

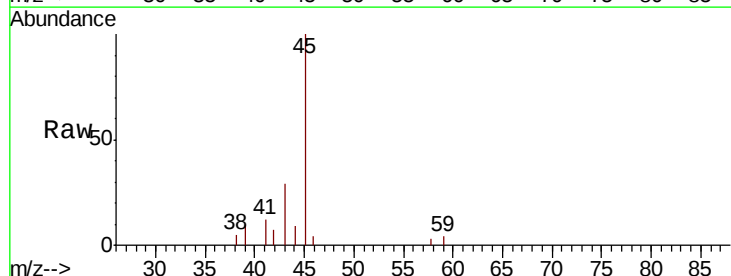
Tgt Ion: 41 Resp: 2057

Ion Ratio Lower Upper

41 100

39 85.4 60.2 90.2

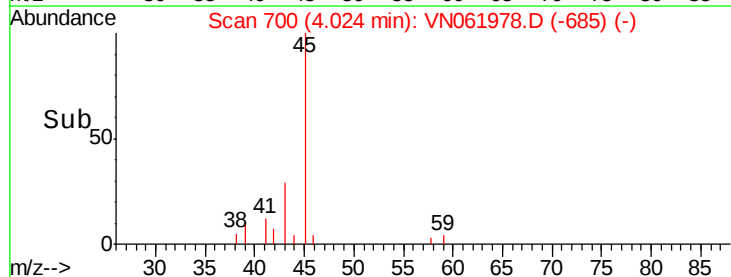
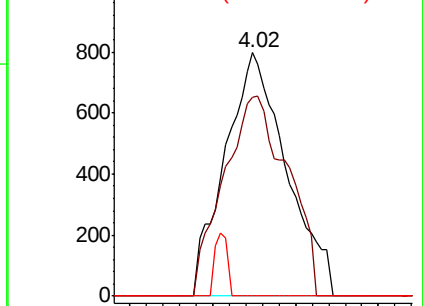
76 0.0 36.3 54.5#

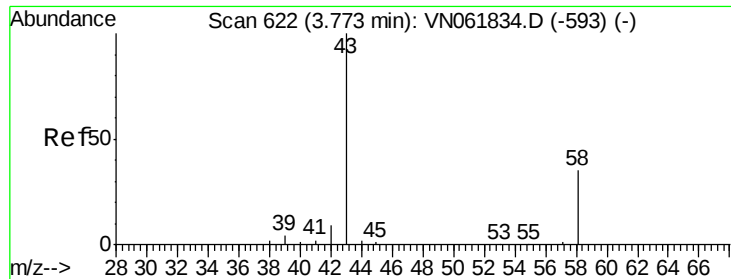


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 3.407 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

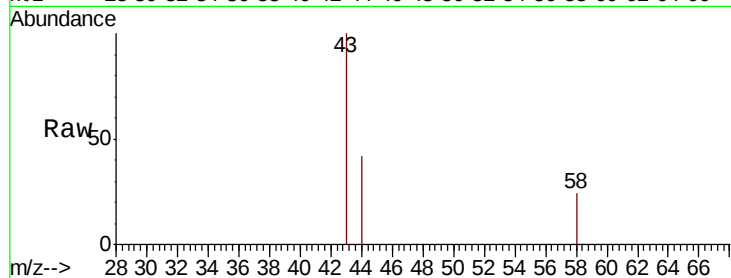
MW203D-20200614

Tot Ion: 43 Resp: 1947

Ion Ratio Lower Upper

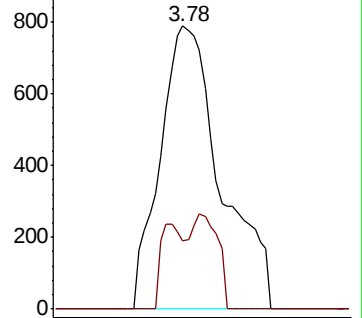
43 100

58 24.2 27.8 41.8#

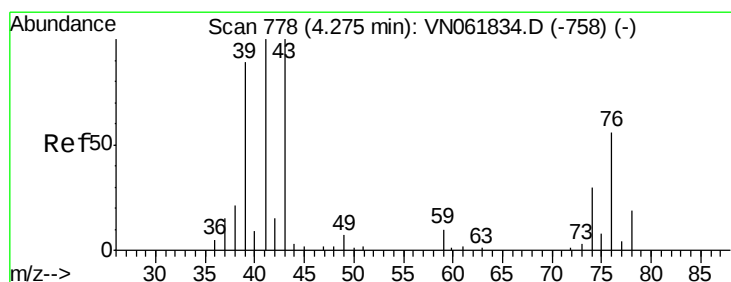
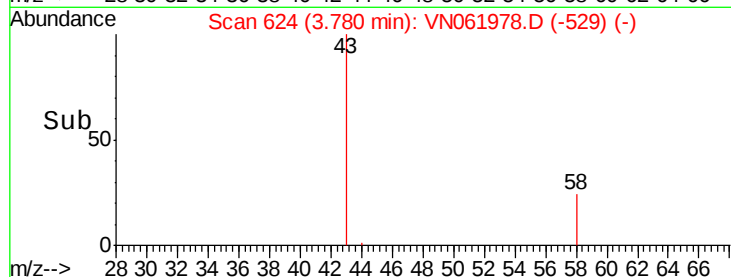


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time--> 3.75 3.80 3.85



#18

Methyl Acetate

Concen: 0.297 ug/l

RT: 4.27 min Scan# 778

Delta R.T. -0.00 min

Lab File: VN061978.D

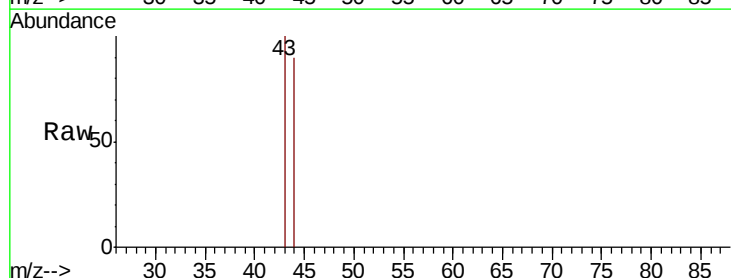
Acq: 20 Jun 2020 5:39

Tgt Ion: 43 Resp: 489

Ion Ratio Lower Upper

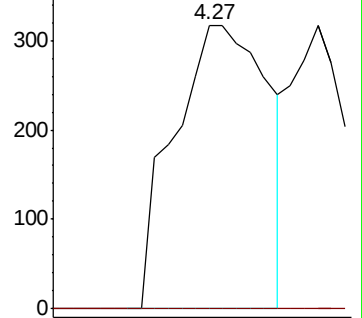
43 100

74 0.0 23.0 34.4#

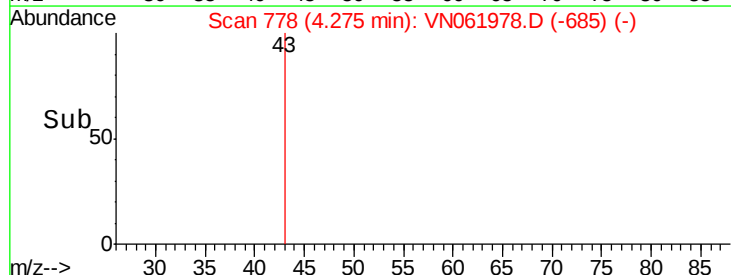


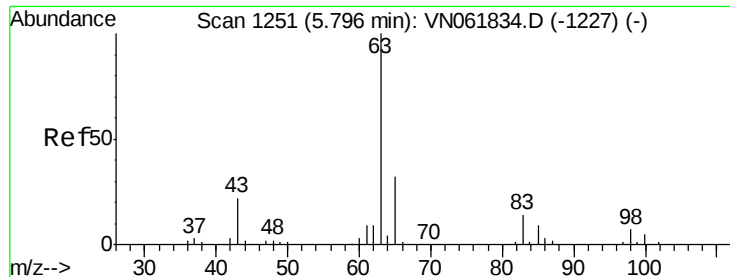
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



Time--> 4.24 4.26 4.28 4.30

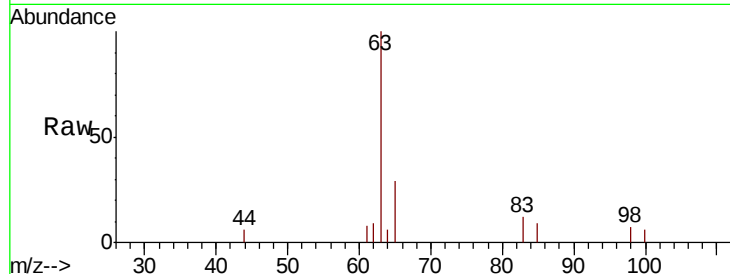




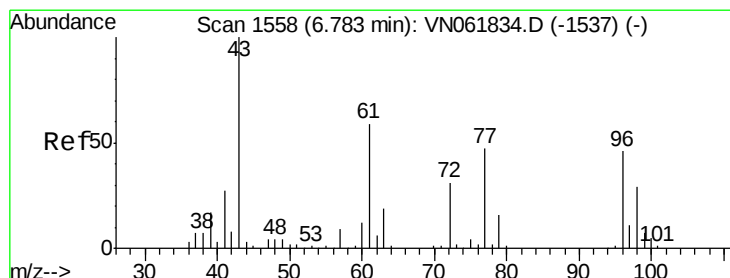
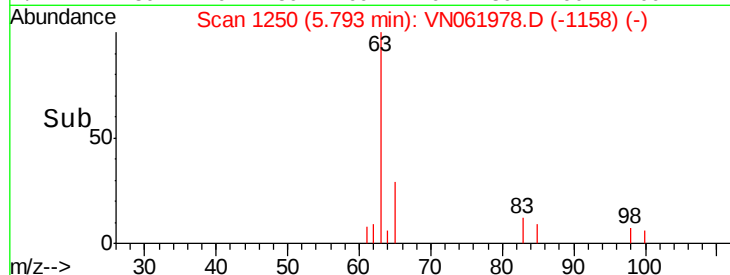
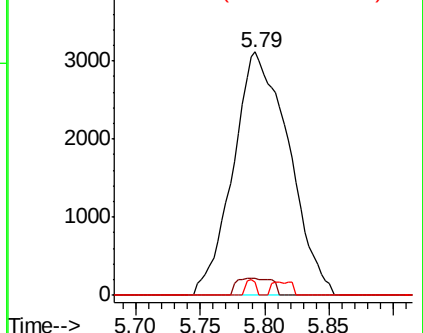
#24
 1,1-Dichloroethane
 Concen: 3.219 ug/l
 RT: 5.79 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VN061978.D
 Acq: 20 Jun 2020 5:39

Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D-20200614

Tot Ion: 63 Resp: 9376
 Ion Ratio Lower Upper
 63 100
 98 7.0 3.5 10.4
 100 5.6 2.5 7.4

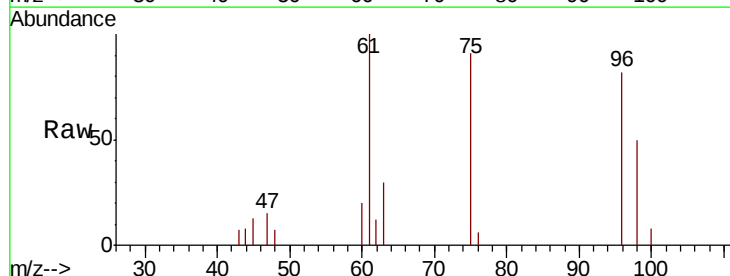


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

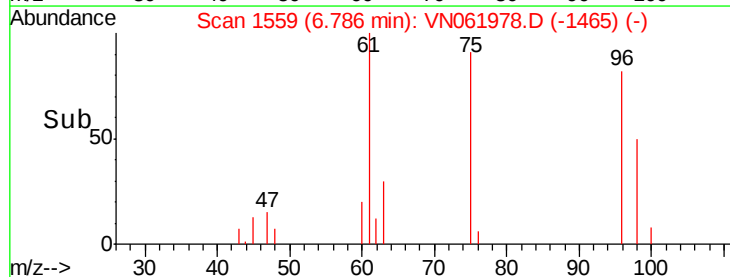
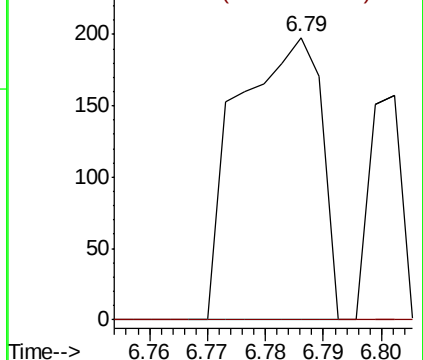


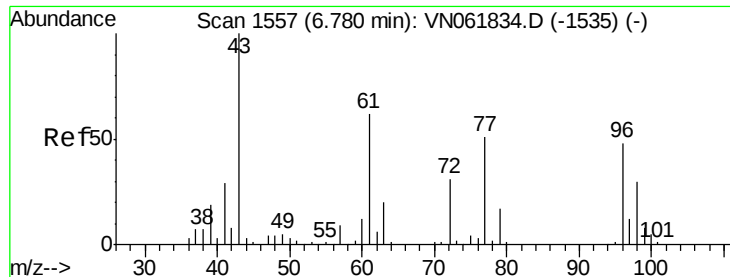
#25
 2-Butanone
 Concen: 0.237 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. 0.00 min
 Lab File: VN061978.D
 Acq: 20 Jun 2020 5:39

Tgt Ion: 43 Resp: 198
 Ion Ratio Lower Upper
 43 100
 72 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 3.486 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20200614

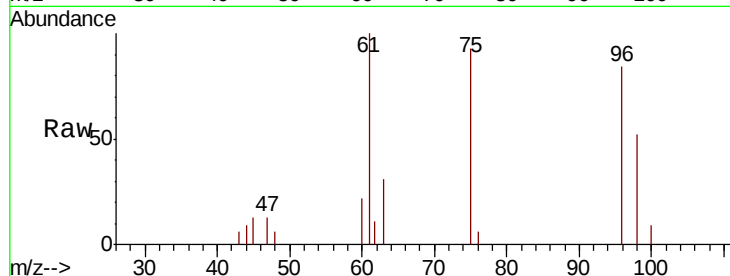
Tot Ion: 96 Resp: 6773

Ion Ratio Lower Upper

96 100

61 128.2 0.0 265.6

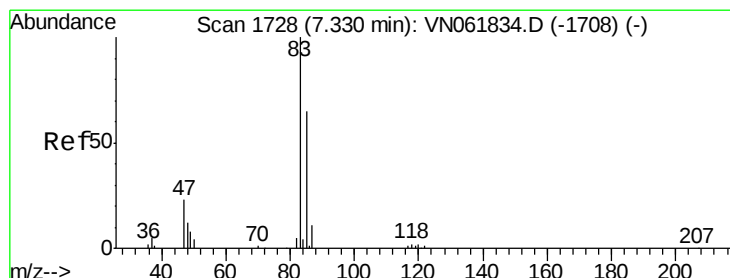
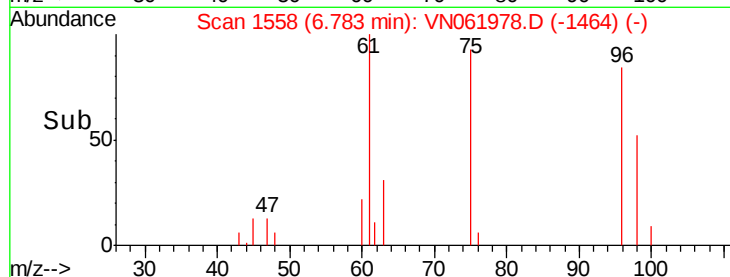
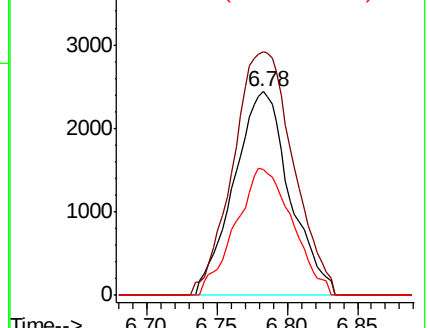
98 63.1 0.0 128.2



Abundance Ion 95.90 (95.60 to 96.60): VN061834.D (-1535) (-)

Ion 60.90 (60.60 to 61.60): VN061834.D (-1535) (-)

Ion 97.90 (97.60 to 98.60): VN061834.D (-1535) (-)



#30

Chloroform

Concen: 0.424 ug/l

RT: 7.33 min Scan# 1728

Delta R.T. -0.00 min

Lab File: VN061978.D

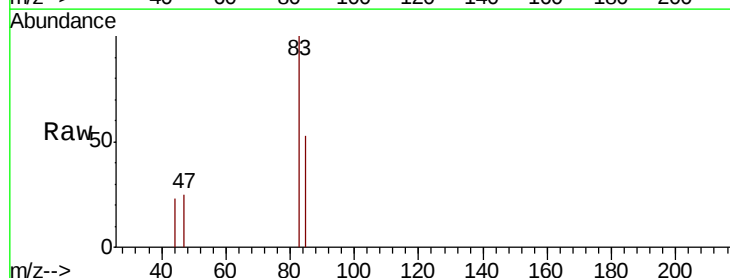
Acq: 20 Jun 2020 5:39

Tgt Ion: 83 Resp: 1320

Ion Ratio Lower Upper

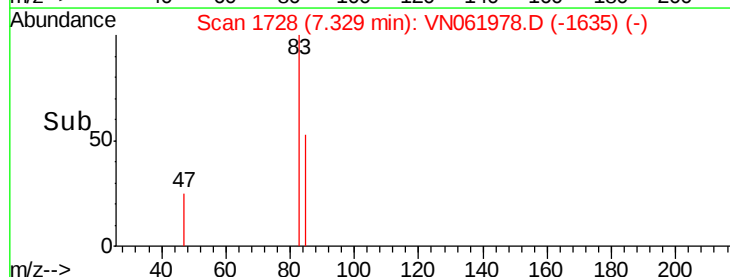
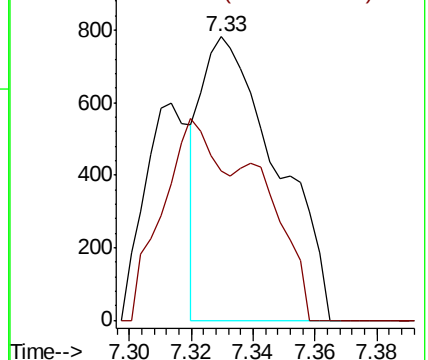
83 100

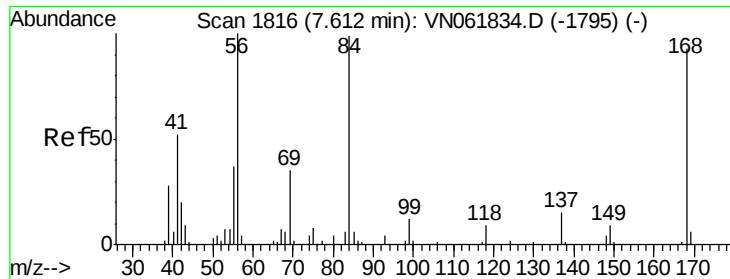
85 52.8 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VN061834.D (-1708) (-)

Ion 84.90 (84.60 to 85.60): VN061834.D (-1708) (-)

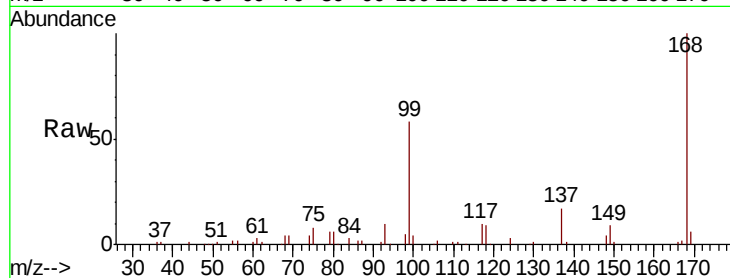




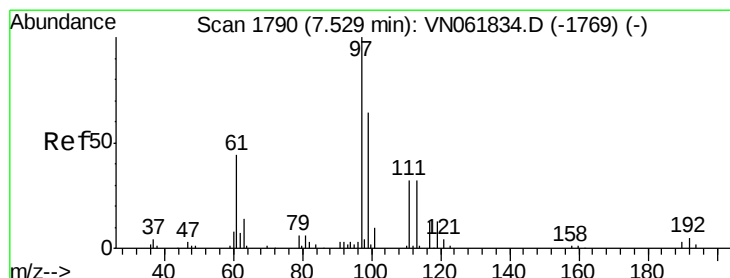
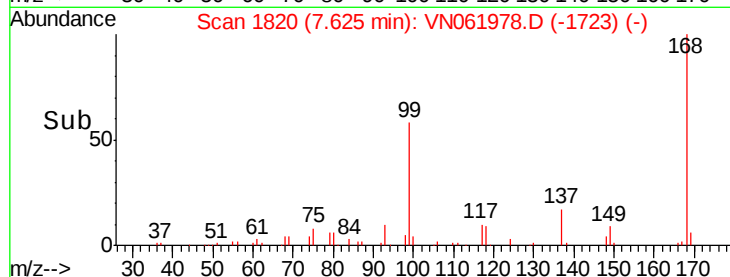
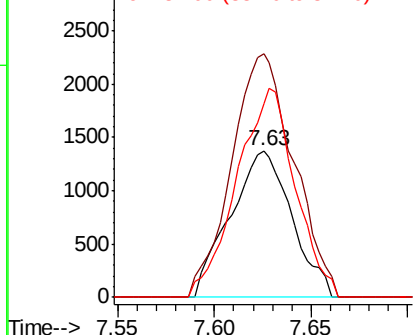
#31
Cyclohexane
Concen: 1.190 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061978.D
Acq: 20 Jun 2020 5:39

Instrument :
MSVOA_N
ClientSampleId :
MW203D-20200614

Tot Ion: 56 Resp: 3033
Ion Ratio Lower Upper
56 100
69 166.2 27.7 41.5#
84 132.0 79.1 118.7#

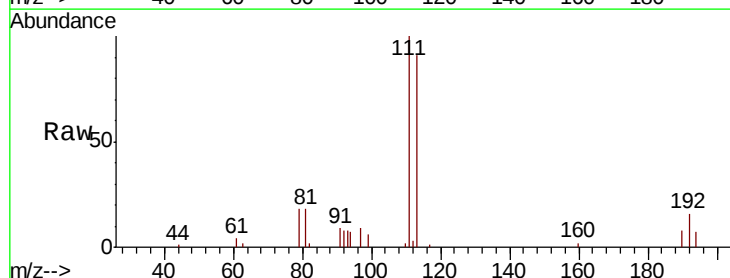


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

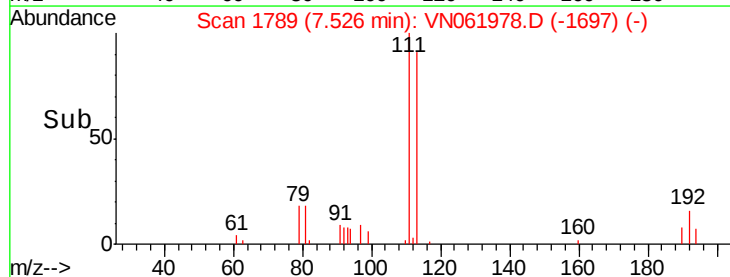
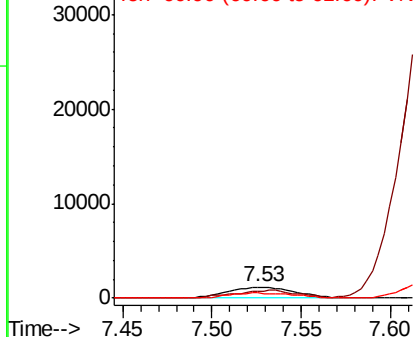


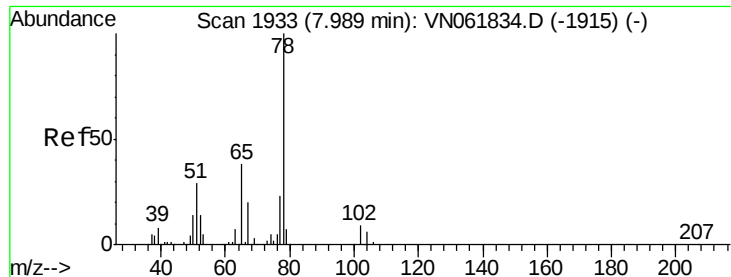
#32
1,1,1-Trichloroethane
Concen: 1.135 ug/l
RT: 7.53 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VN061978.D
Acq: 20 Jun 2020 5:39

Tgt Ion: 97 Resp: 3008
Ion Ratio Lower Upper
97 100
99 0.0 51.5 77.3#
61 44.1 35.1 52.7



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0

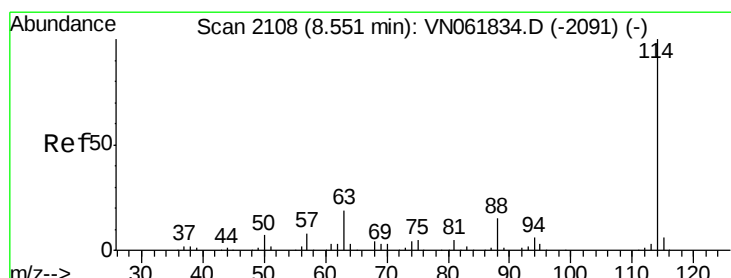
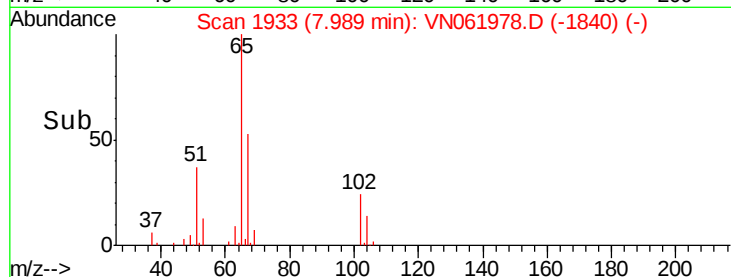
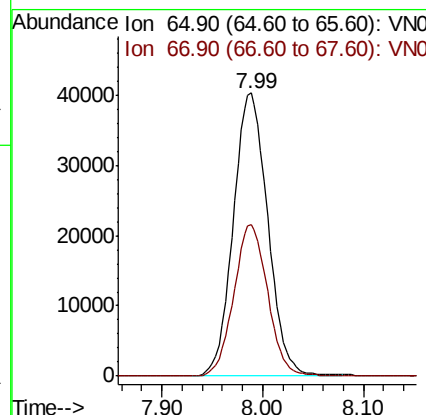
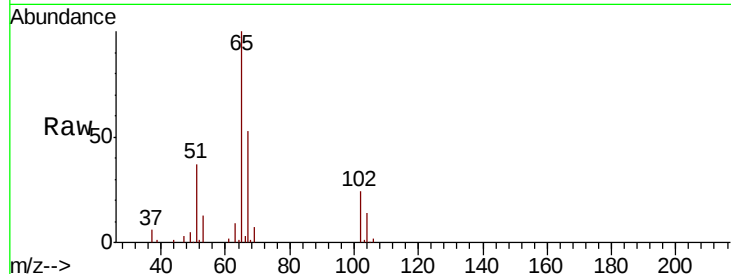




#33
 1,2-Dichloroethane-d4
 Concen: 49.516 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061978.D
 Acq: 20 Jun 2020 5:39

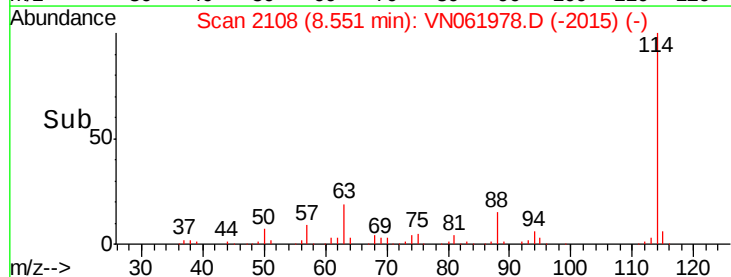
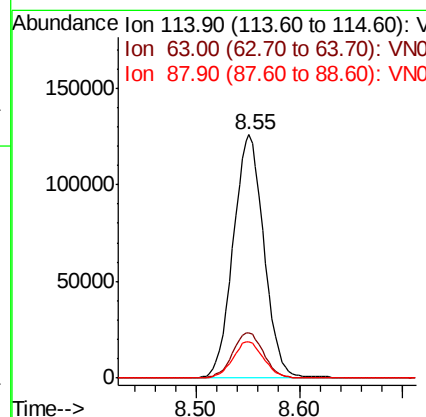
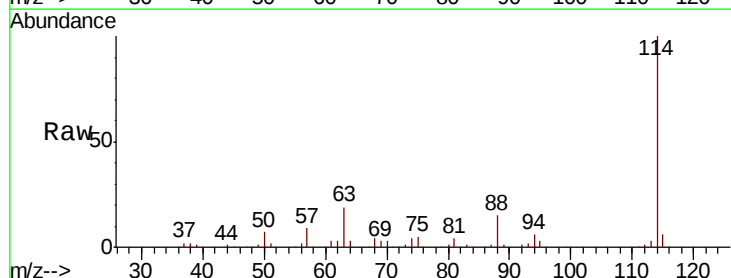
Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D-20200614

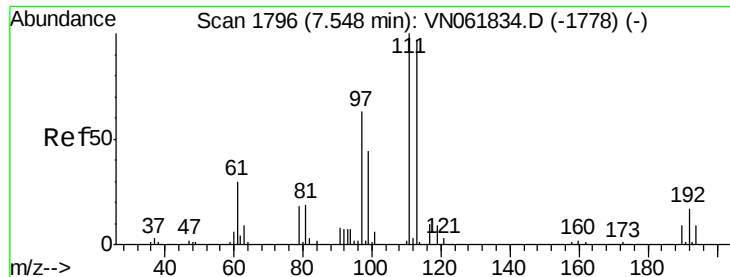
Tot Ion: 65 Resp: 95803
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061978.D
 Acq: 20 Jun 2020 5:39

Tgt Ion: 114 Resp: 260801
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 37.6
 88 14.9 0.0 31.0

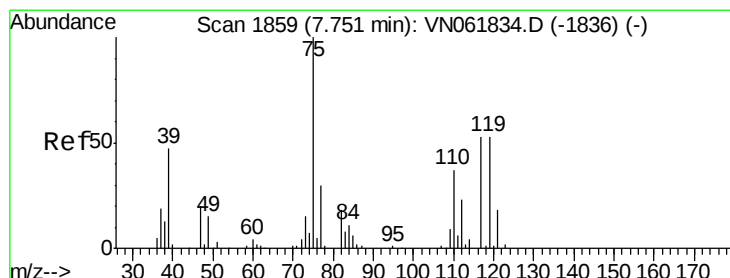
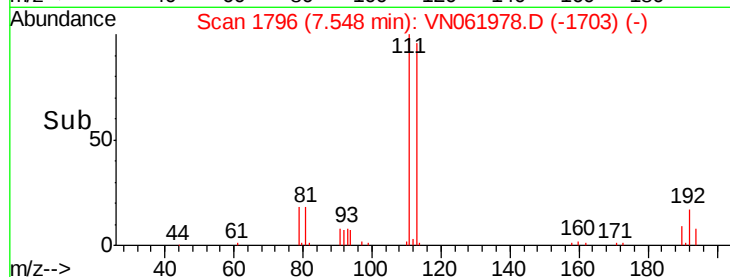
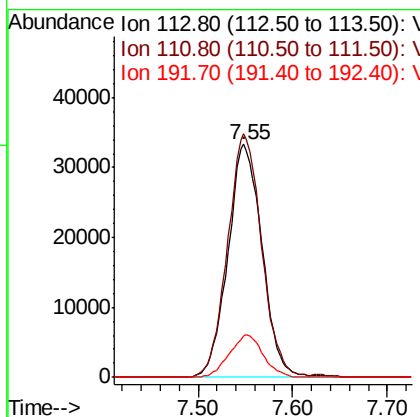
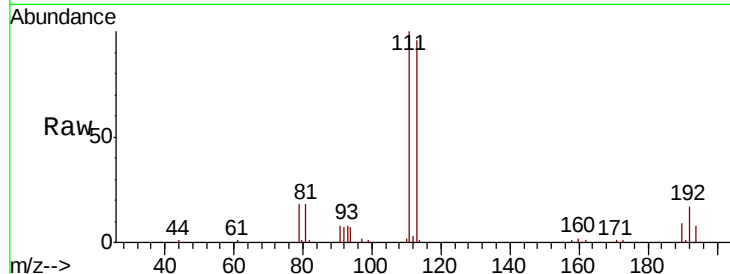




#35
 Dibromofluoromethane
 Concen: 50.106 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061978.D
 Acq: 20 Jun 2020 5:39

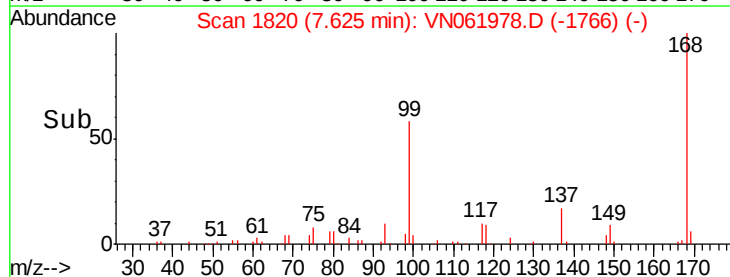
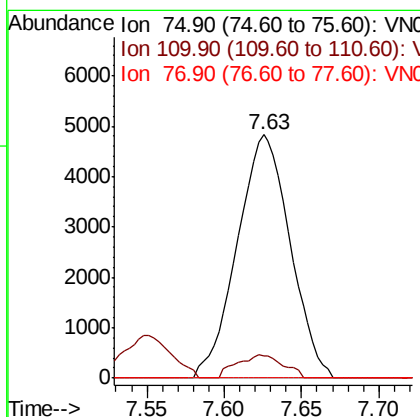
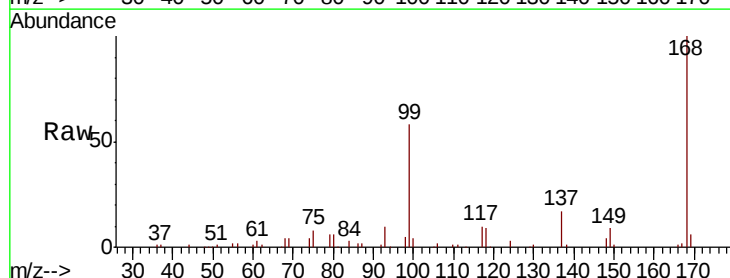
Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D-20200614

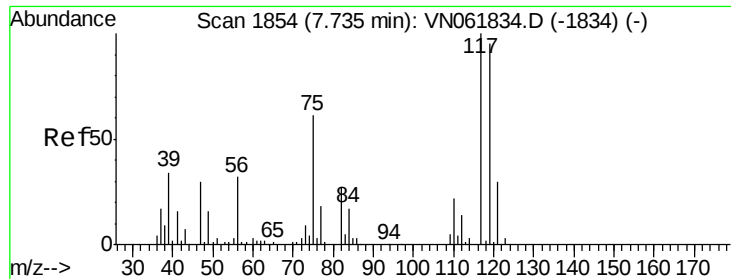
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.7	125.5
192	17.9	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.827 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061978.D
 Acq: 20 Jun 2020 5:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.2	54.6#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 6.114 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20200614

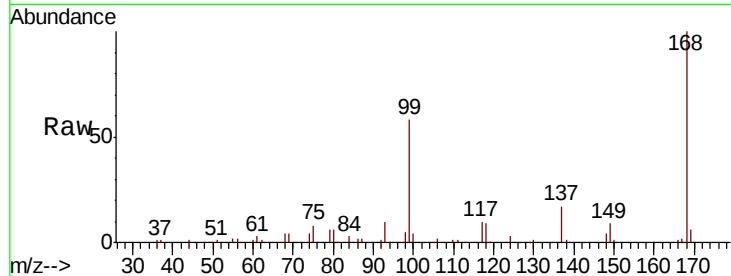
Tot Ion:117 Resp: 14402

Ion Ratio Lower Upper

117 100

119 4.1 75.8 113.6#

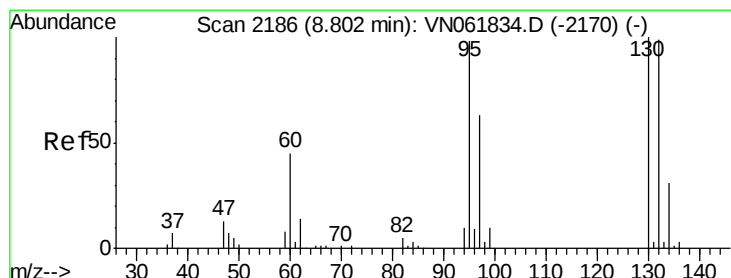
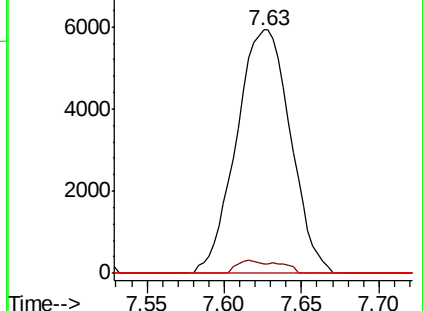
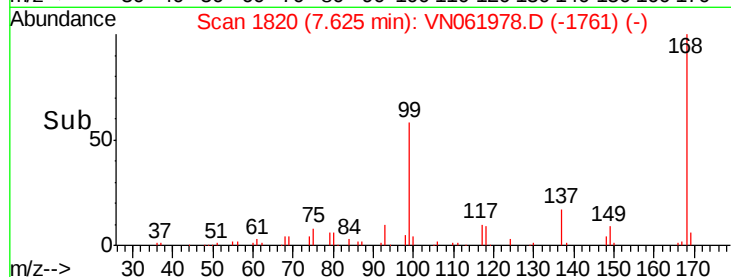
121 0.0 23.8 35.6#



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



#44

Trichloroethene

Concen: 19.074 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061978.D

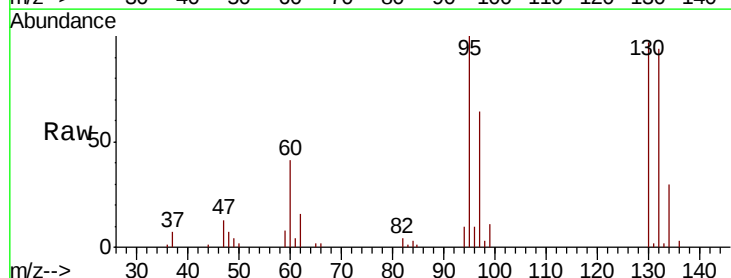
Acq: 20 Jun 2020 5:39

Tgt Ion:130 Resp: 36173

Ion Ratio Lower Upper

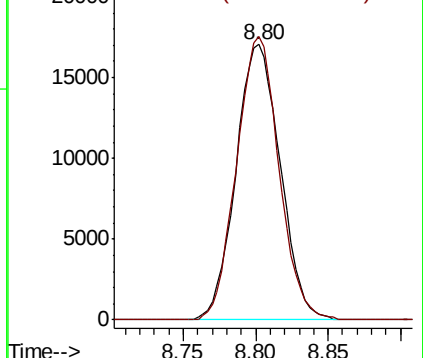
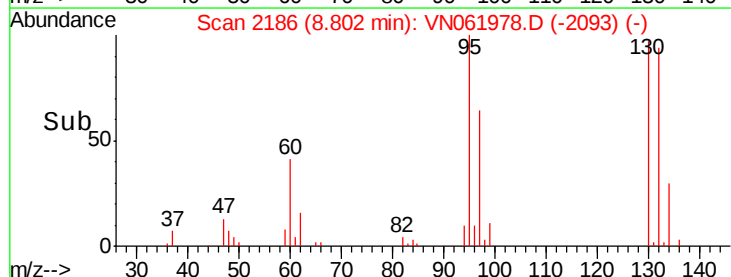
130 100

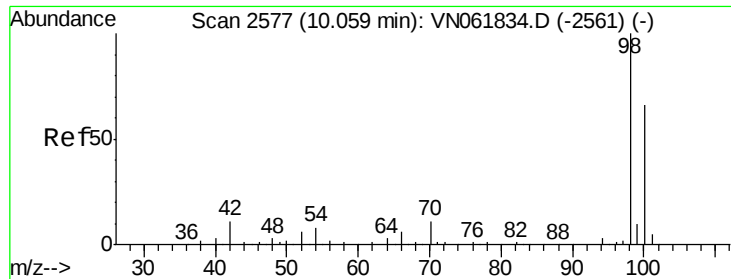
95 102.8 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 49.523 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

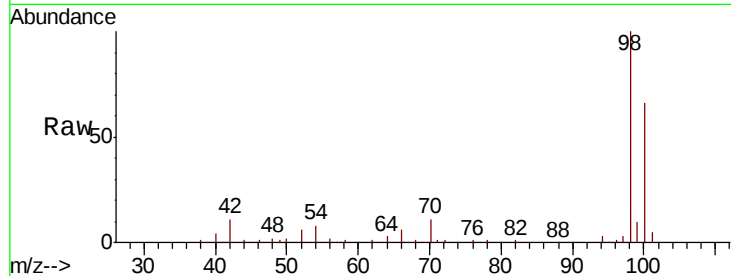
MW203D-20200614

Tot Ion: 98 Resp: 324844

Ion Ratio Lower Upper

98 100

100 65.8 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

10.06

150000

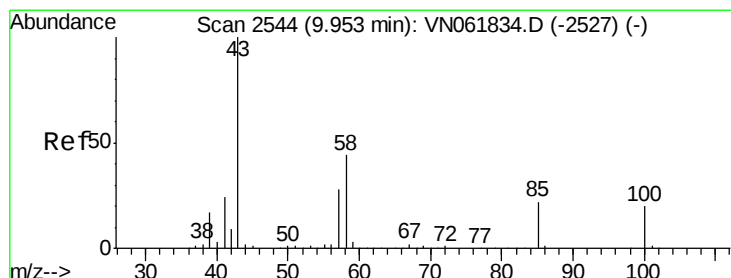
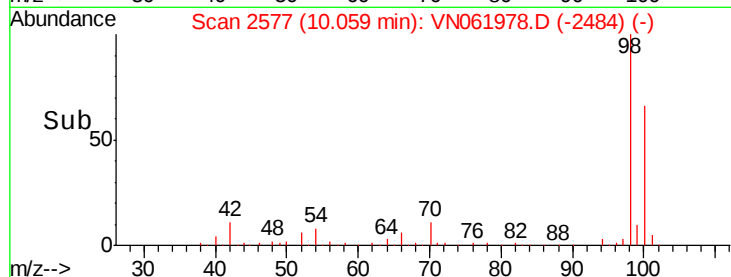
100000

50000

0

10.00 10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.687 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061978.D

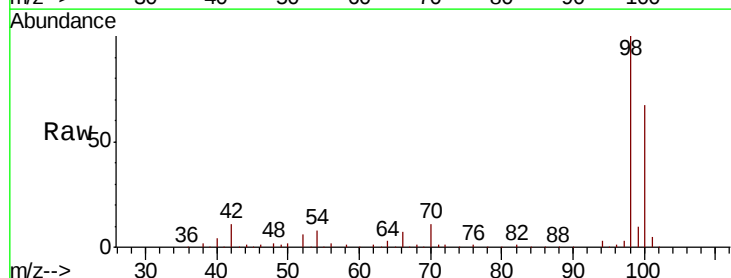
Acq: 20 Jun 2020 5:39

Tgt Ion: 43 Resp: 1271

Ion Ratio Lower Upper

43 100

58 193.9 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

1500

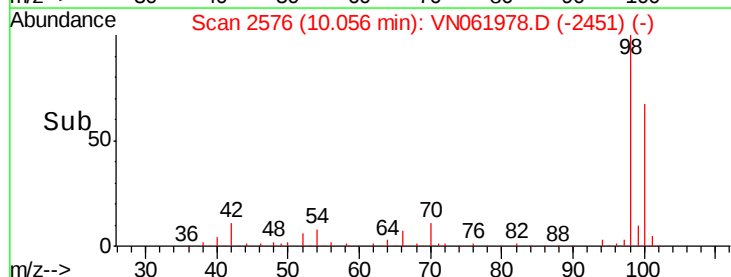
1000

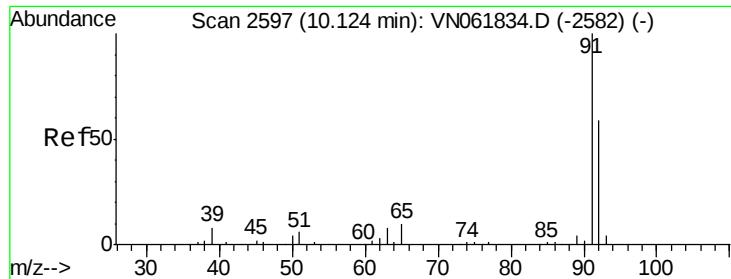
500

0

10.05 10.10

Time-->





#52

Toluene

Concen: 0.390 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

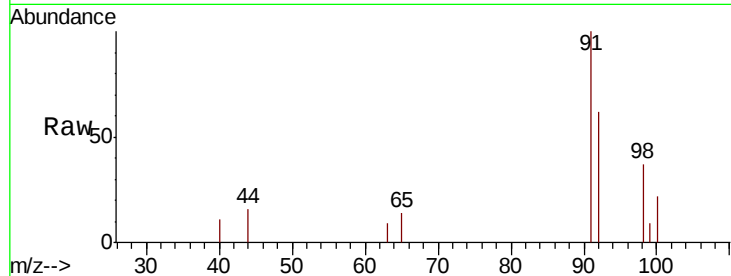
MW203D-20200614

Tot Ion: 92 Resp: 1764

Ion Ratio Lower Upper

92 100

91 174.1 137.1 205.7



Abundance Ion 92.00 (91.70 to 92.70): VN061834.D (-2582) (-)

Ion 91.00 (90.70 to 91.70): VN061834.D (-2582) (-)

2000

1500

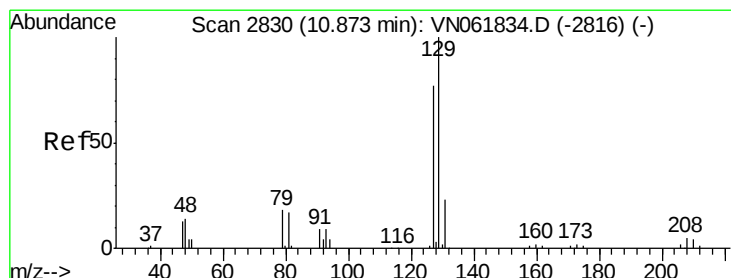
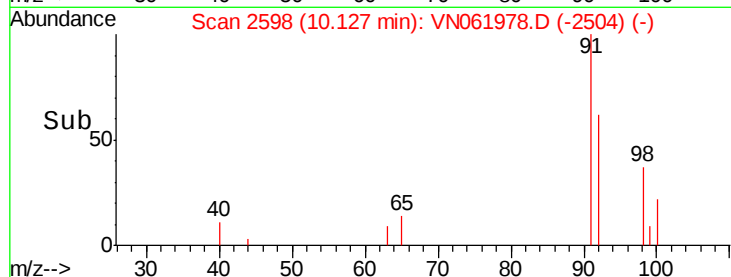
1000

500

0

10.10 10.13 10.15

Time-->



#60

Dibromochloromethane

Concen: 0.556 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061978.D

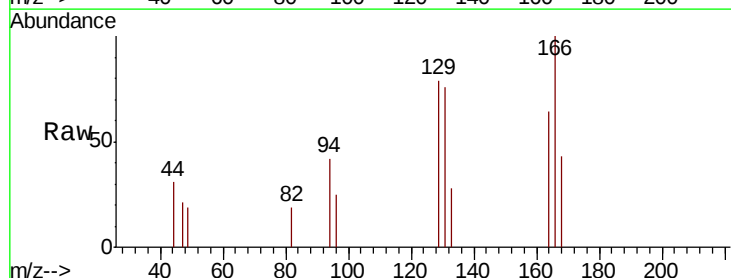
Acq: 20 Jun 2020 5:39

Tgt Ion: 129 Resp: 1104

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VN061834.D (-2816) (-)

Ion 126.80 (126.50 to 127.50): VN061834.D (-2816) (-)

800

600

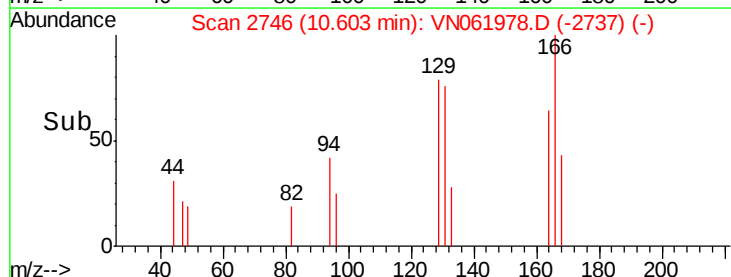
400

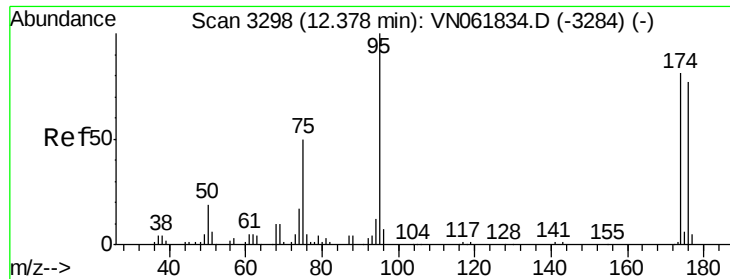
200

0

10.60

Time-->

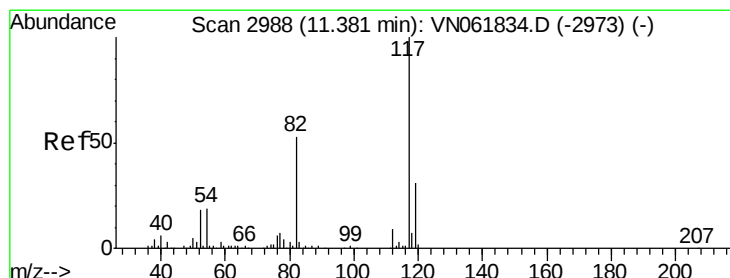
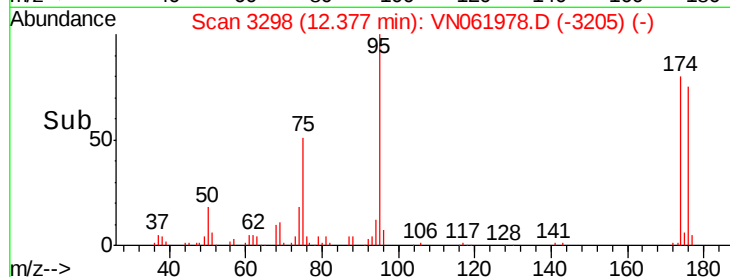
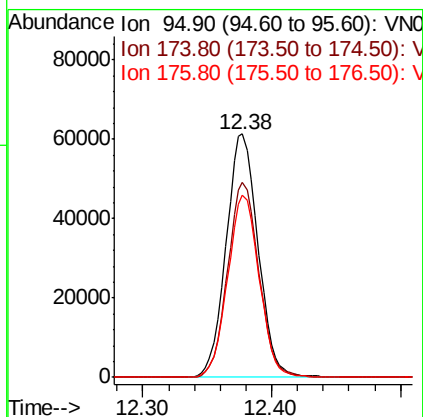
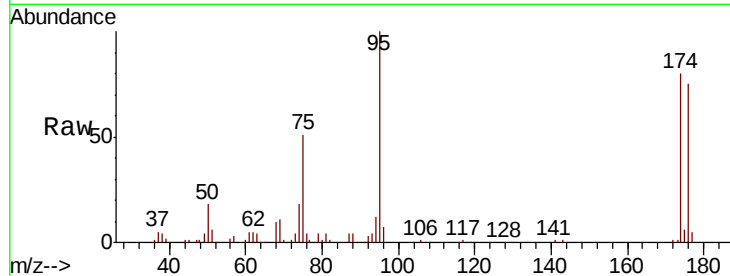




#62
4-Bromofluorobenzene
Concen: 46.807 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061978.D
Acq: 20 Jun 2020 5:39

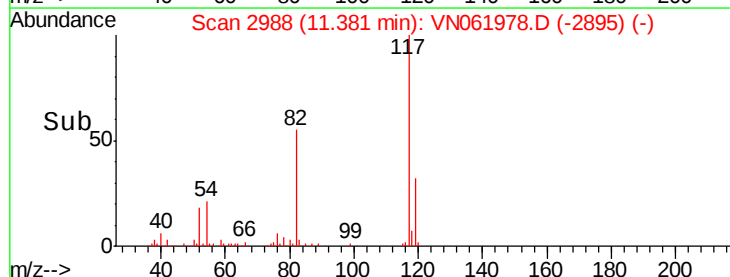
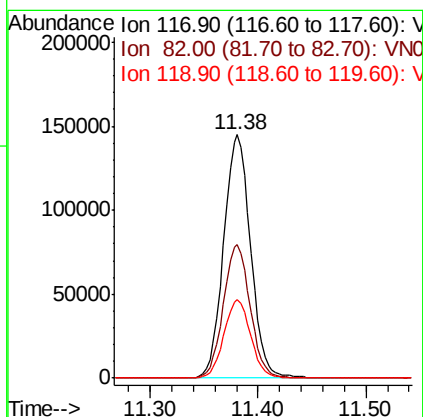
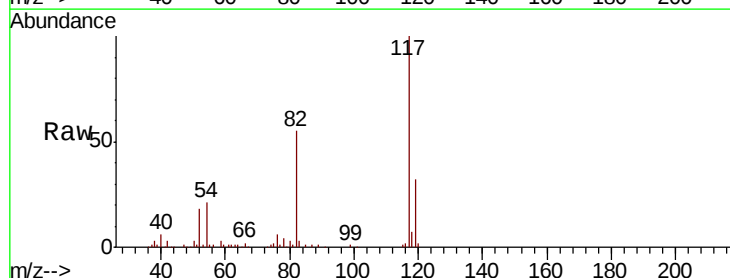
Instrument :
MSVOA_N
ClientSampleId :
MW203D-20200614

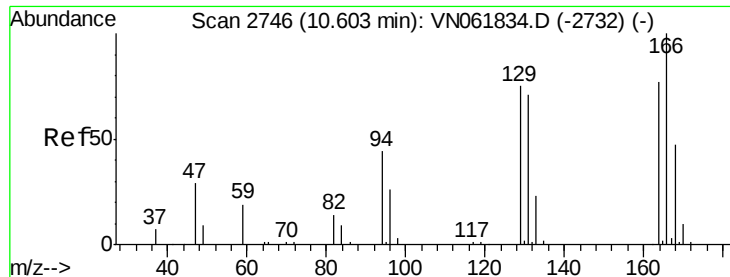
Tot Ion: 95 Resp: 105314
Ion Ratio Lower Upper
95 100
174 78.5 0.0 158.6
176 74.1 0.0 152.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061978.D
Acq: 20 Jun 2020 5:39

Tgt Ion: 117 Resp: 251553
Ion Ratio Lower Upper
117 100
82 54.7 42.6 64.0
119 32.1 24.7 37.1





#64

Tetrachloroethene

Concen: 0.662 ug/l

RT: 10.61 min Scan# 2747

Delta R.T. 0.00 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20200614

Tot Ion:164 Resp: 1061

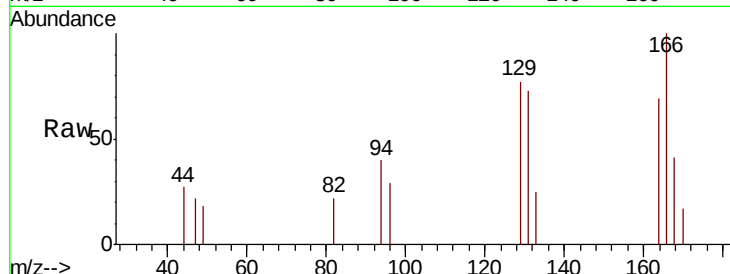
Ion Ratio Lower Upper

164 100

166 145.0 103.5 155.3

129 111.4 77.5 116.3

131 105.8 73.8 110.8

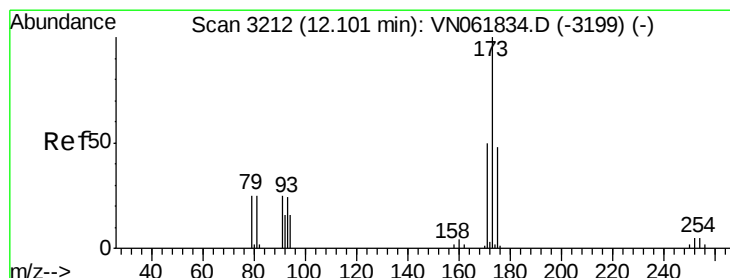
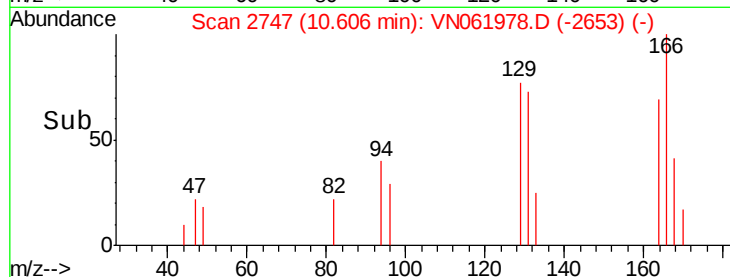
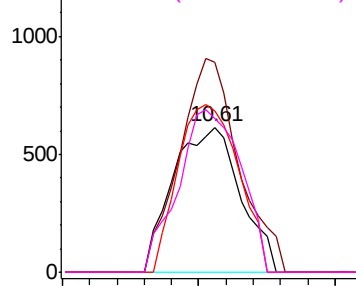


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 0.743 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

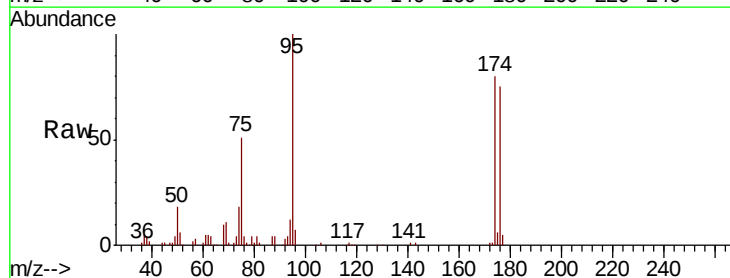
Tgt Ion:173 Resp: 1003

Ion Ratio Lower Upper

173 100

175 519.1 23.9 71.7#

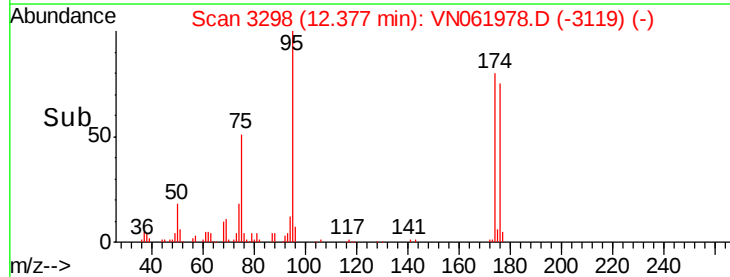
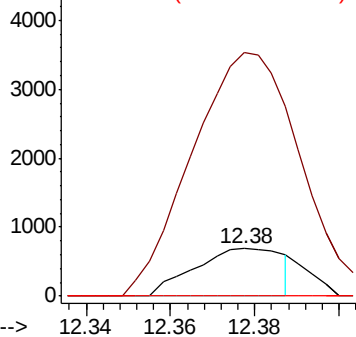
254 0.0 0.0 0.0

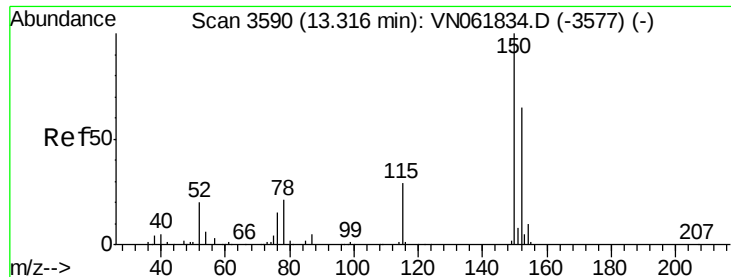


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20200614

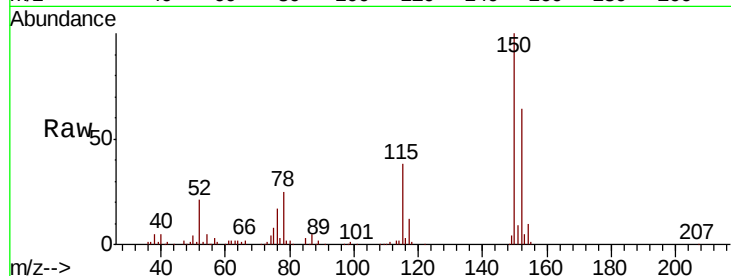
Tot Ion:152 Resp: 91702

Ion Ratio Lower Upper

152 100

115 59.2 29.1 87.3

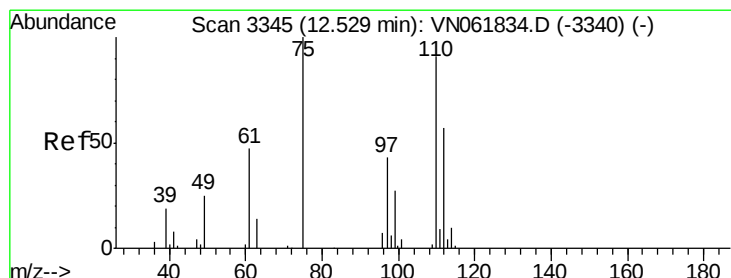
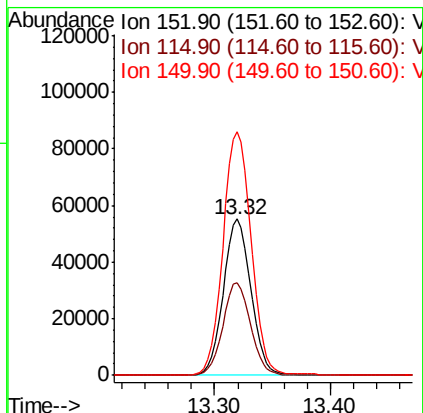
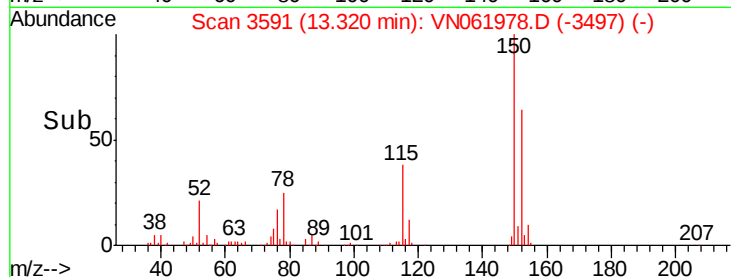
150 158.9 0.0 347.6



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: 29.761 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061978.D

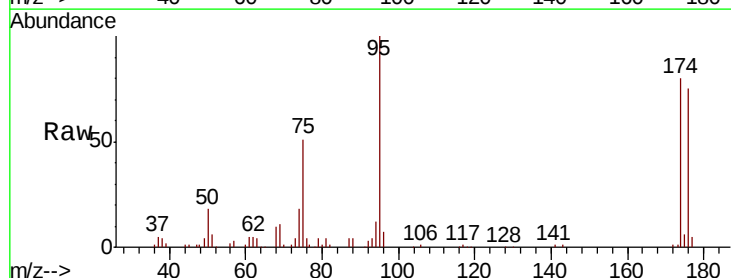
Acq: 20 Jun 2020 5:39

Tgt Ion: 75 Resp: 53579

Ion Ratio Lower Upper

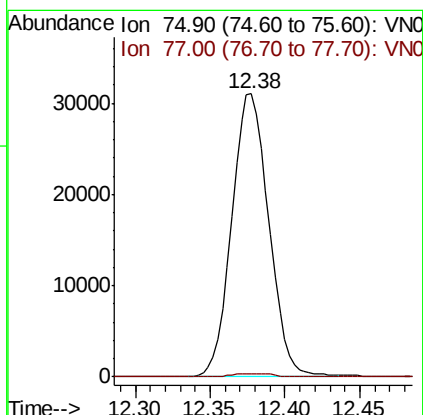
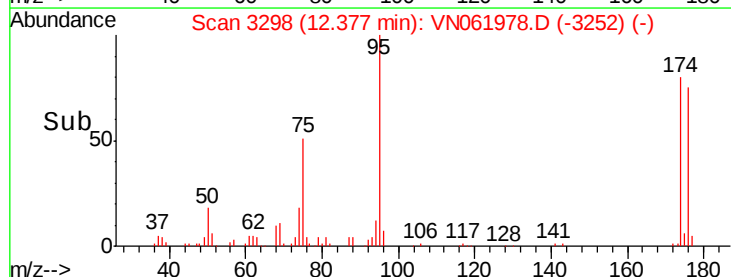
75 100

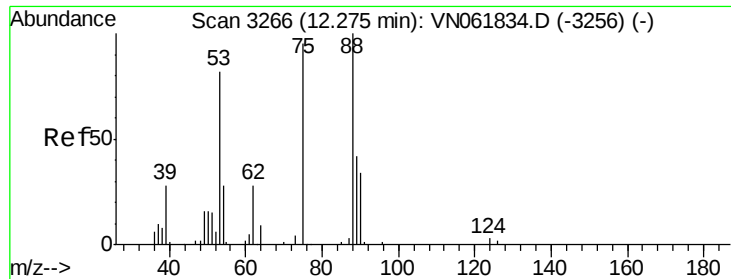
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 81.169 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061978.D

Acq: 20 Jun 2020 5:39

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20200614

Tot Ion: 75 Resp: 53579

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#

