

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\
 Data File : VN061981.D
 Acq On : 20 Jun 2020 6:52
 Operator : JC/MD
 Sample : L3043-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW202D1-20200613

Quant Time: Jun 22 00:43:26 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	143656	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	260393	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	248576	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	91620	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	96987	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
35) Dibromofluoromethane	7.55	113	85139	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
50) Toluene-d8	10.06	98	328644	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.38	95	105738	47.07	ug/l	0.00
Spiked Amount			Recovery	=	94.14%	

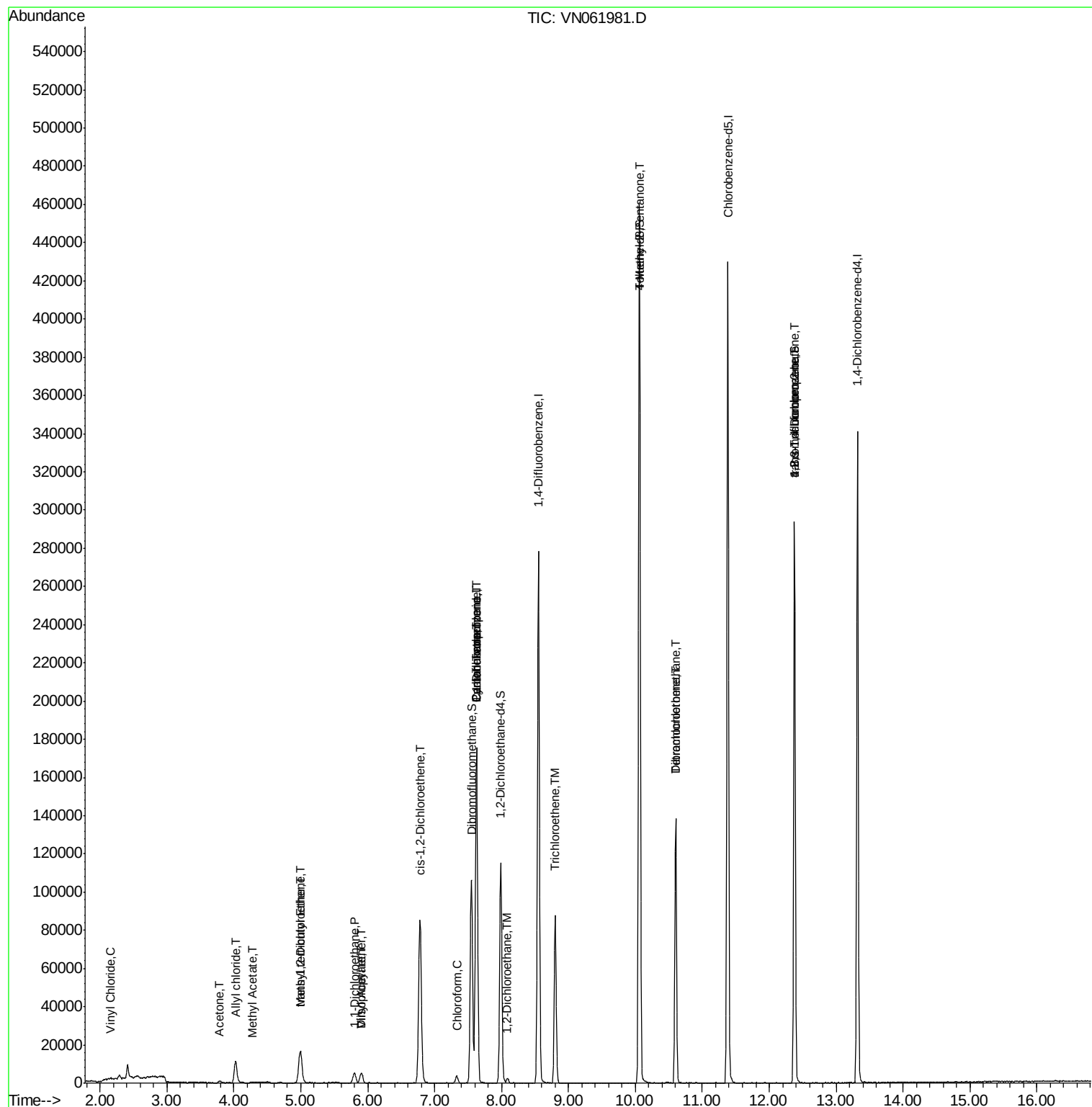
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.16	62	830	0.349	ug/l	97
14) Allyl chloride	4.02	41	956	0.493	ug/l #	1
16) Acetone	3.78	43	1095	1.924	ug/l	95
18) Methyl Acetate	4.28	43	367	0.224	ug/l #	46
19) Methyl tert-butyl Ether	5.00	73	26466	5.446	ug/l	99
21) trans-1,2-Dichloroethene	4.99	96	1331	0.794	ug/l #	84
22) Diisopropyl ether	5.90	45	6713	1.515	ug/l #	85
23) Vinyl Acetate	5.91	43	3648	1.047	ug/l #	66
24) 1,1-Dichloroethane	5.80	63	9266	3.195	ug/l #	93
27) cis-1,2-Dichloroethene	6.78	96	58506	30.244	ug/l	90
30) Chloroform	7.33	83	4165	1.344	ug/l	95
31) Cyclohexane	7.63	56	2978	1.173	ug/l #	4
36) 1,1-Dichloropropene	7.63	75	11515	4.848	ug/l #	47
38) Carbon Tetrachloride	7.63	117	14559	6.190	ug/l #	18
42) 1,2-Dichloroethane	8.09	62	2404	0.980	ug/l	80
44) Trichloroethene	8.80	130	32566	17.199	ug/l	100
51) 4-Methyl-2-Pentanone	10.06	43	1214	0.657	ug/l #	1
60) Dibromochloromethane	10.60	129	30173	15.210	ug/l #	11
64) Tetrachloroethene	10.60	164	31686	19.999	ug/l	100
76) 1,2,3-Trichloropropane	12.38	75	52040	28.932	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	52040	78.908	ug/l #	14

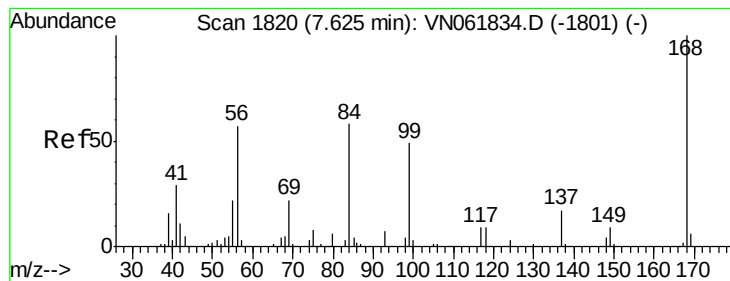
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061920\
Data File : VN061981.D
Acq On : 20 Jun 2020 6:52
Operator : JC/MD
Sample : L3043-14
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW202D1-20200613

Quant Time: Jun 22 00:43:26 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061981.D

Acq: 20 Jun 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

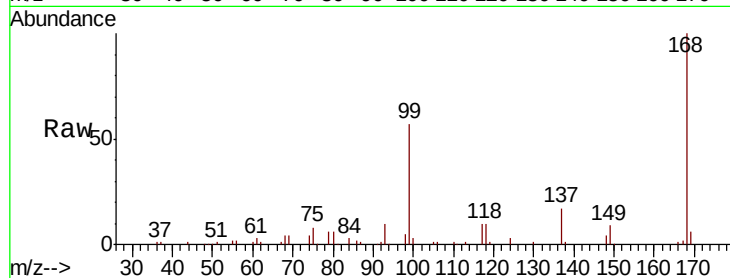
MW202D1-20200613

Tot Ion:168 Resp: 143656

Ion Ratio Lower Upper

168 100

99 57.5 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

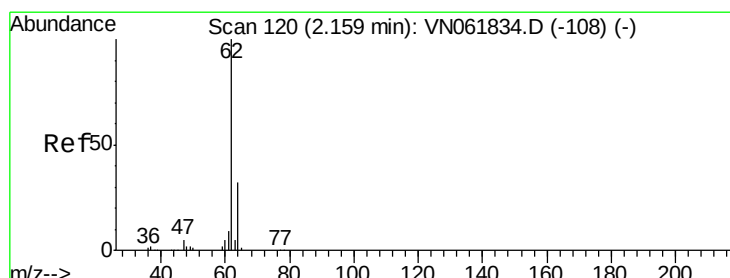
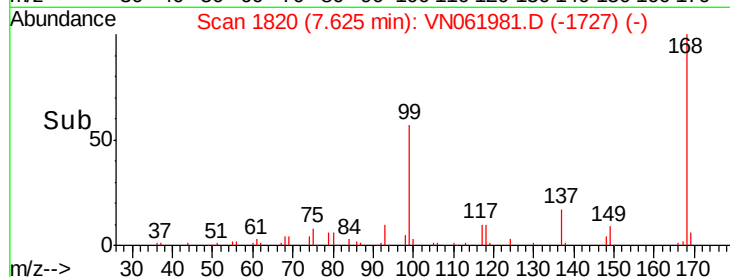
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#4

Vinyl Chloride

Concen: 0.349 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN061981.D

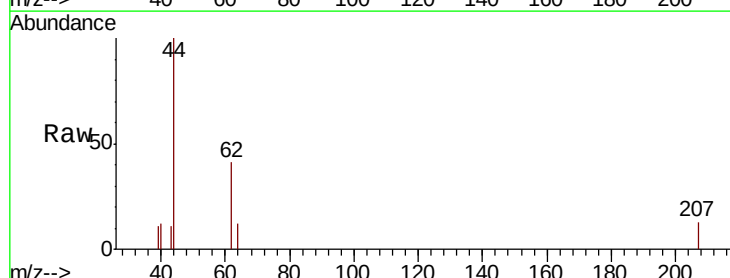
Acq: 20 Jun 2020 6:52

Tgt Ion: 62 Resp: 830

Ion Ratio Lower Upper

62 100

64 30.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

2.16

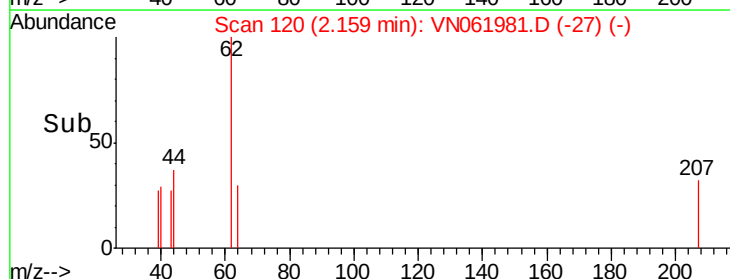
600

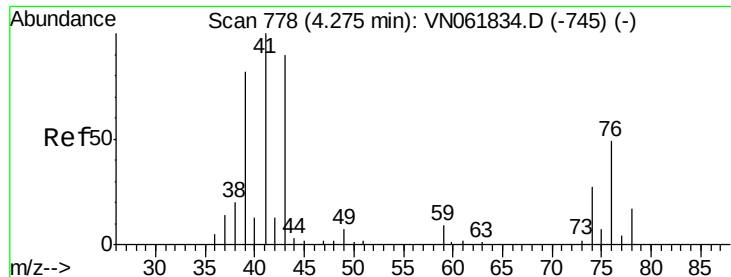
400

200

0

Time--> 2.12 2.14 2.16 2.18

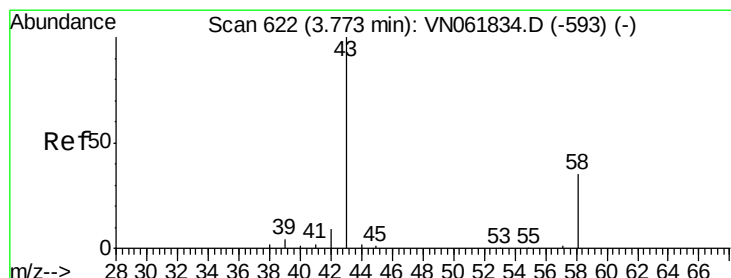
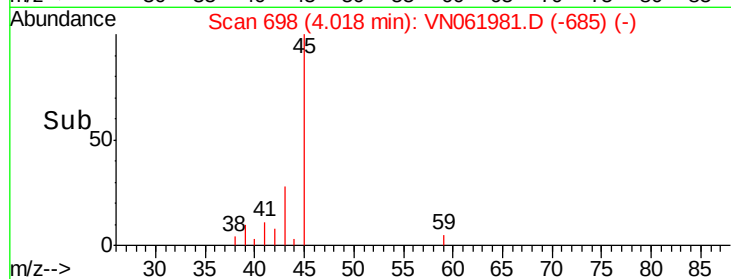
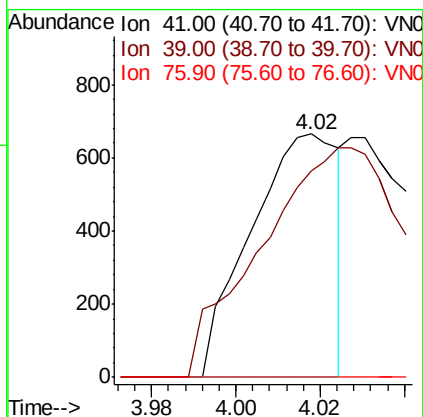
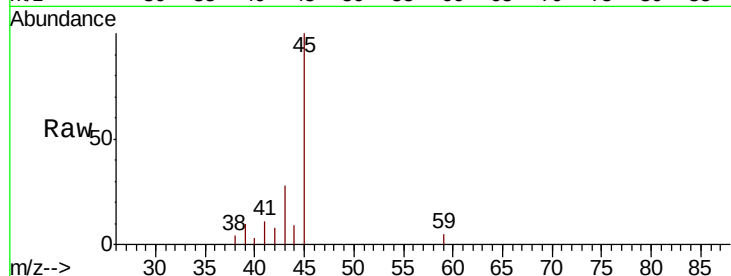




#14
Allvl chloride
Concen: 0.493 ug/l
RT: 4.02 min Scan# 698
Delta R.T. -0.26 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

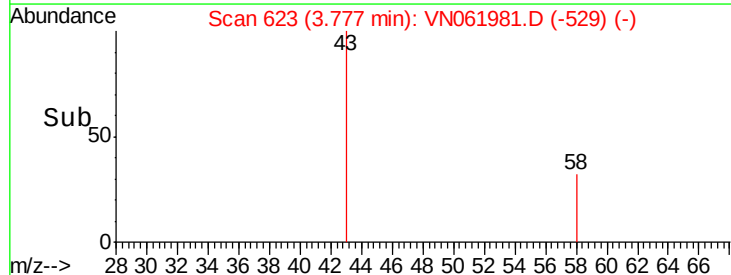
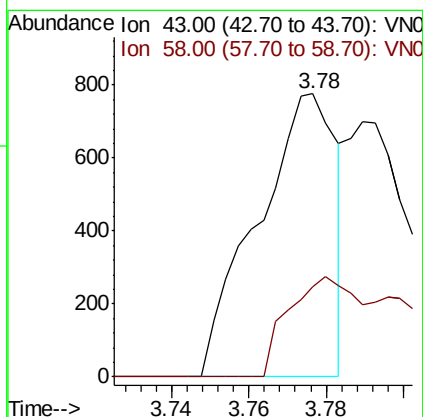
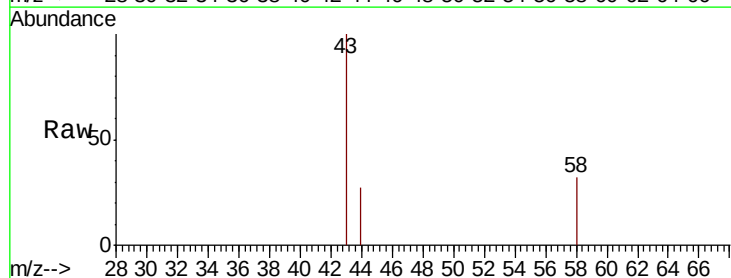
Instrument :
MSVOA_N
ClientSampleId :
MW202D1-20200613

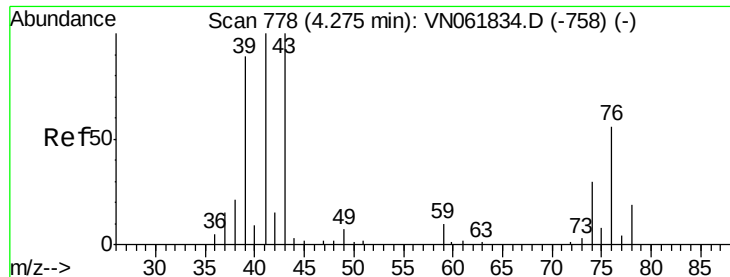
Tot Ion: 41 Resp: 956
Ion Ratio Lower Upper
41 100
39 180.0 60.2 90.2#
76 0.0 36.3 54.5#



#16
Acetone
Concen: 1.924 ug/l
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Tgt Ion: 43 Resp: 1095
Ion Ratio Lower Upper
43 100
58 32.0 27.8 41.8

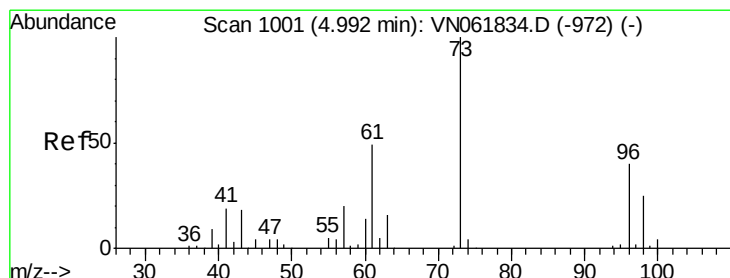
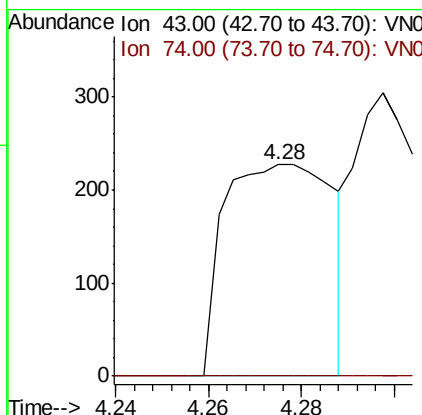
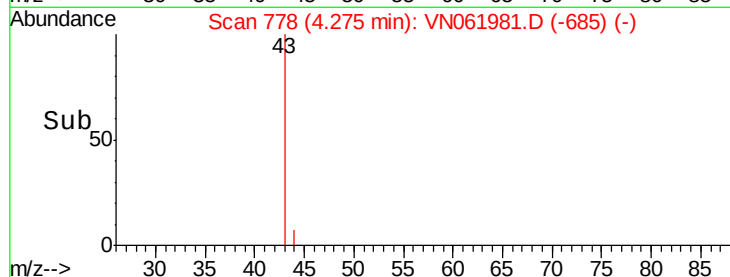
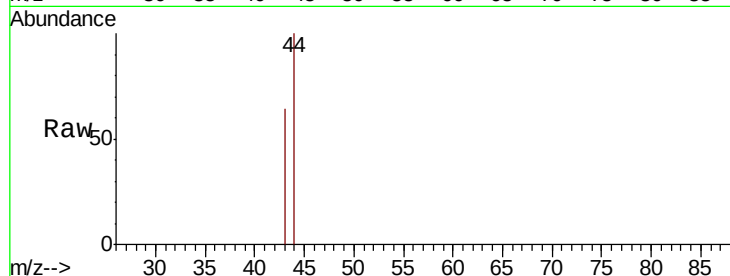




#18
Methyl Acetate
Concen: 0.224 ug/l
RT: 4.28 min Scan# 778
Delta R.T. 0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

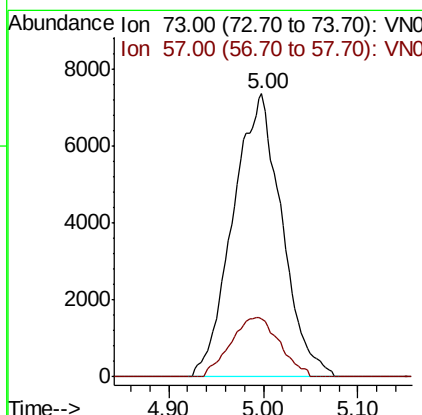
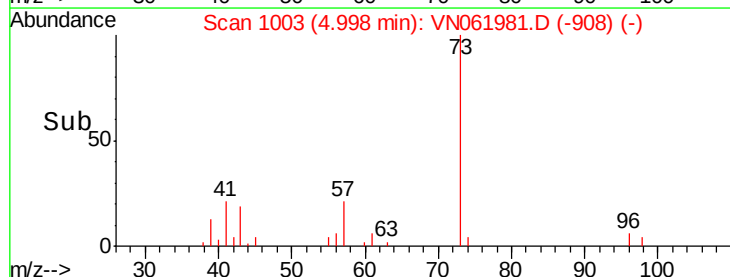
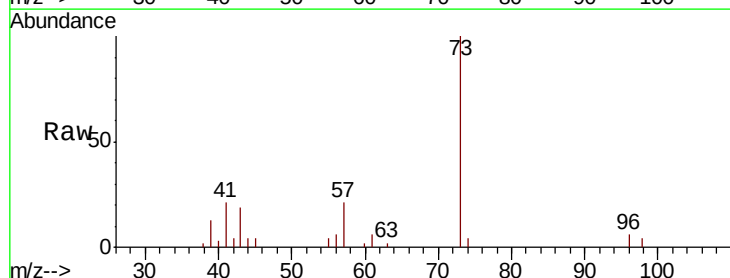
Instrument :
MSVOA_N
ClientSampleId :
MW202D1-20200613

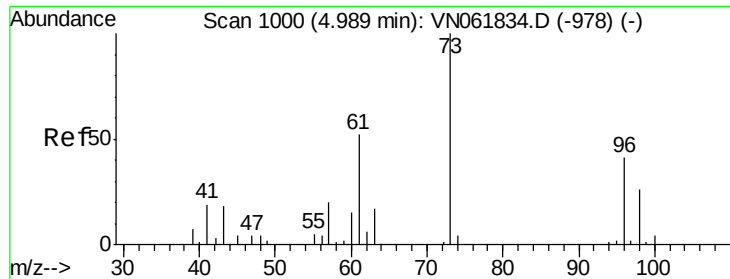
Tot Ion: 43 Resp: 367
Ion Ratio Lower Upper
43 100
74 0.0 23.0 34.4#



#19
Methyl tert-butyl Ether
Concen: 5.446 ug/l
RT: 5.00 min Scan# 1003
Delta R.T. 0.01 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Tgt Ion: 73 Resp: 26466
Ion Ratio Lower Upper
73 100
57 20.6 16.2 24.4

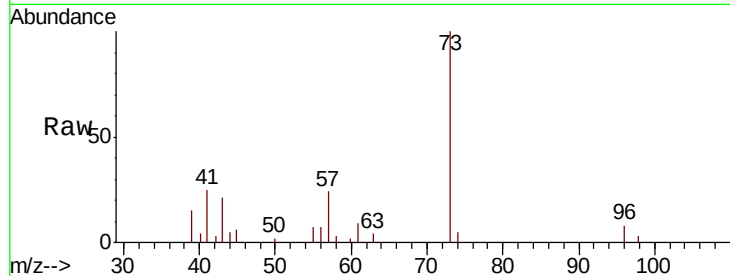




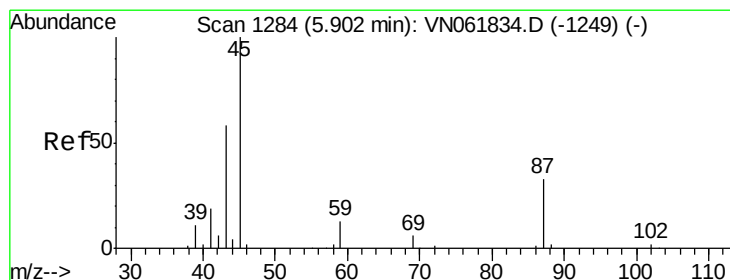
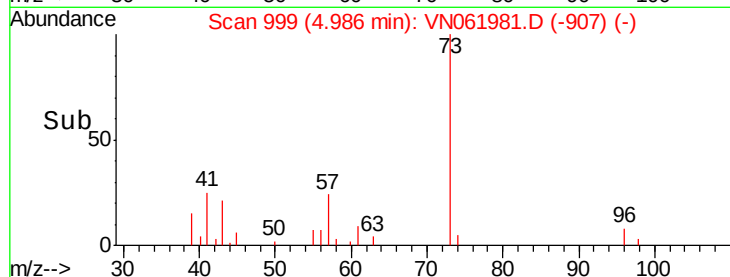
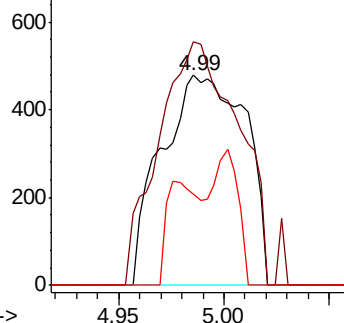
#21
trans-1,2-Dichloroethene
Concen: 0.794 ug/l
RT: 4.99 min Scan# 999
Delta R.T. -0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Instrument :
MSVOA_N
ClientSampleId :
MW202D1-20200613

Tot Ion: 96 Resp: 1331
Ion Ratio Lower Upper
96 100
61 115.9 102.2 153.4
98 43.4 51.2 76.8#

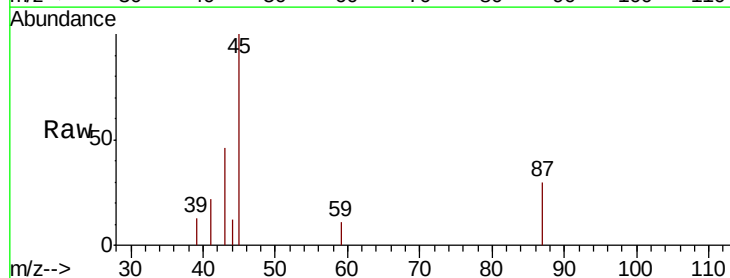


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

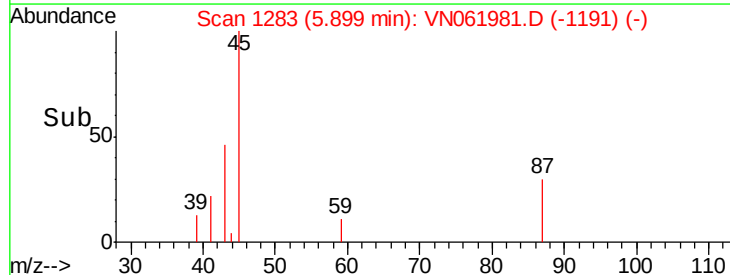
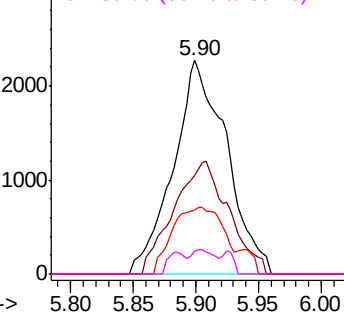


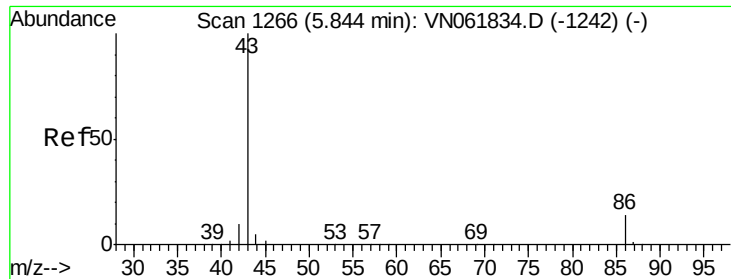
#22
Diisopropyl ether
Concen: 1.515 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Tgt Ion: 45 Resp: 6713
Ion Ratio Lower Upper
45 100
43 46.0 49.4 74.2#
87 30.1 27.4 41.0
59 10.7 10.6 15.8



Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0

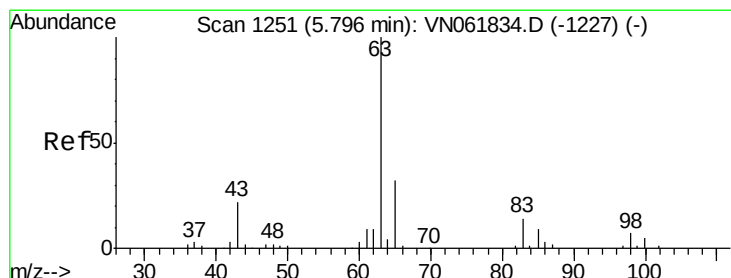
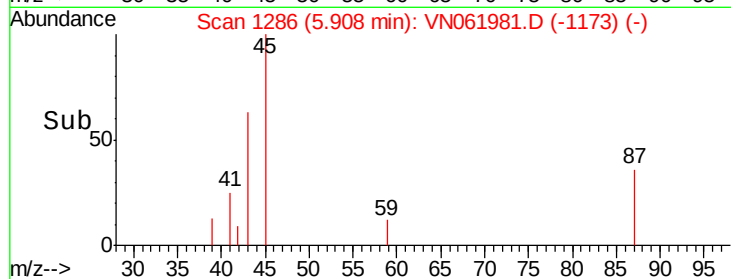
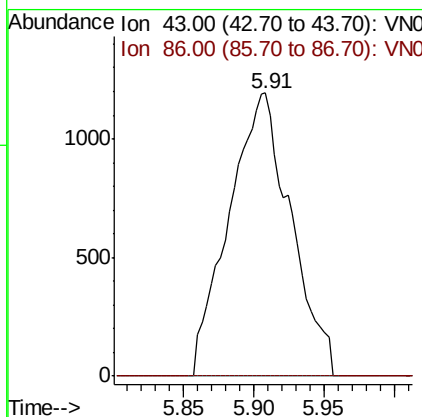
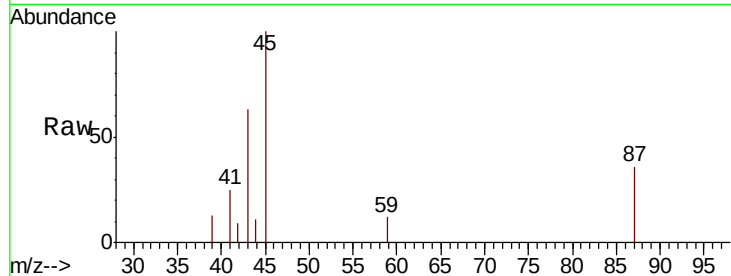




#23
 Vinyl Acetate
 Concen: 1.047 ug/l
 RT: 5.91 min Scan# 1286
 Delta R.T. 0.06 min
 Lab File: VN061981.D
 Acq: 20 Jun 2020 6:52

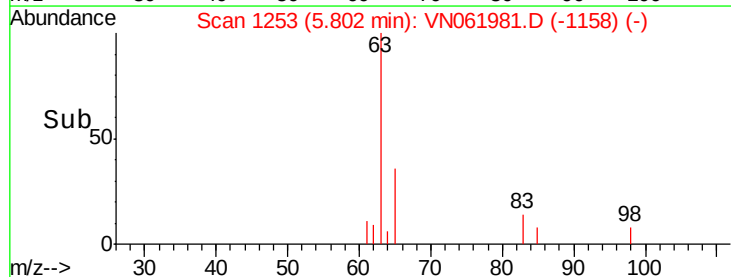
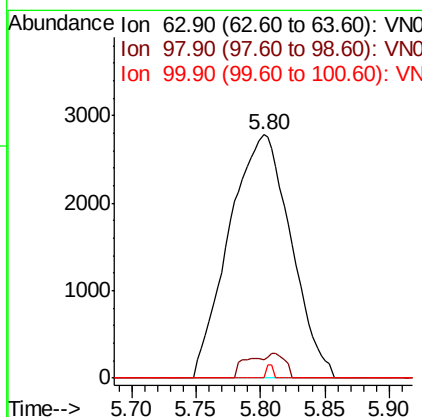
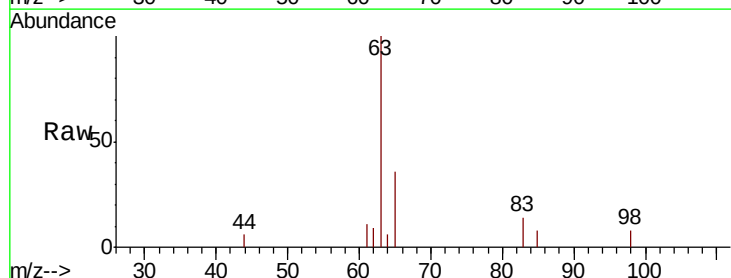
Instrument :
 MSVOA_N
 ClientSampleId :
 MW202D1-20200613

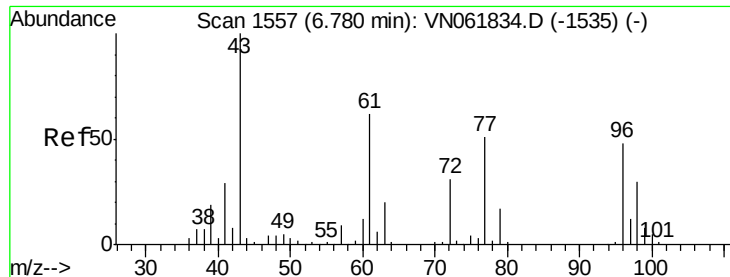
Tot Ion: 43 Resp: 3648
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.9 16.3#



#24
 1,1-Dichloroethane
 Concen: 3.195 ug/l
 RT: 5.80 min Scan# 1253
 Delta R.T. 0.01 min
 Lab File: VN061981.D
 Acq: 20 Jun 2020 6:52

Tgt Ion: 63 Resp: 9266
 Ion Ratio Lower Upper
 63 100
 98 7.7 3.5 10.4
 100 0.0 2.5 7.4#





#27

cis-1,2-Dichloroethene

Concen: 30.244 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN061981.D

Acq: 20 Jun 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

MW202D1-20200613

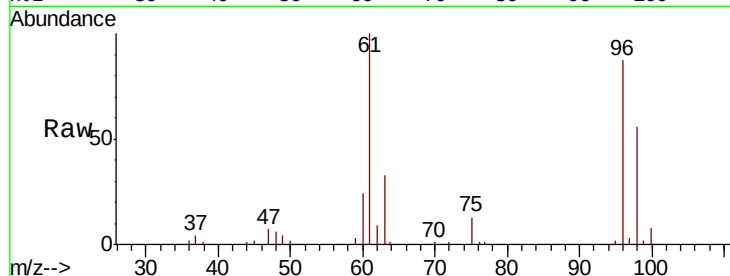
Tot Ion: 96 Resp: 58506

Ion Ratio Lower Upper

96 100

61 115.6 0.0 265.6

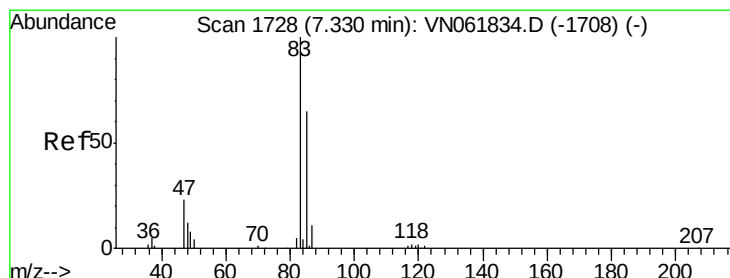
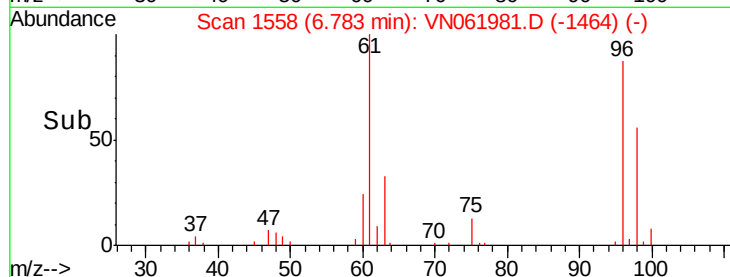
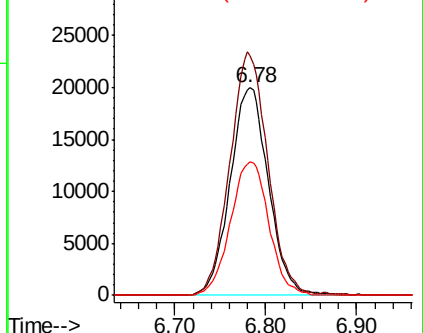
98 64.1 0.0 128.2



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



#30

Chloroform

Concen: 1.344 ug/l

RT: 7.33 min Scan# 1729

Delta R.T. 0.00 min

Lab File: VN061981.D

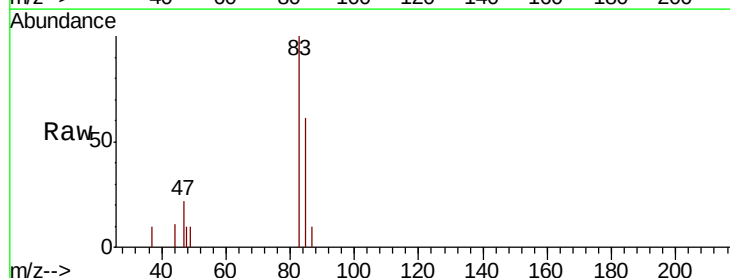
Acq: 20 Jun 2020 6:52

Tgt Ion: 83 Resp: 4165

Ion Ratio Lower Upper

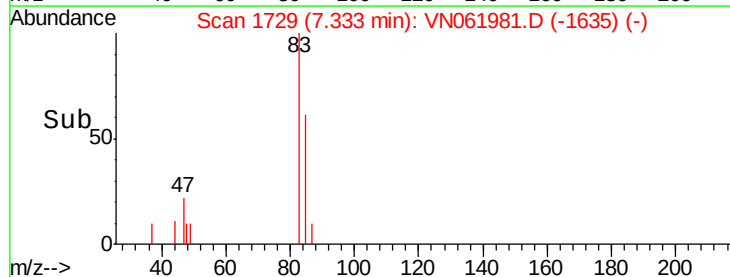
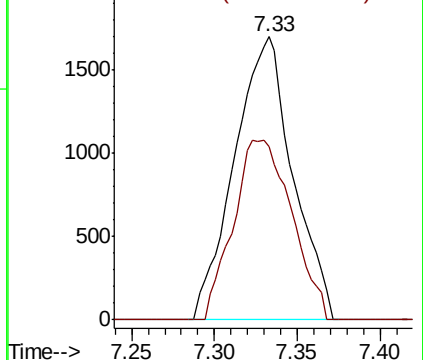
83 100

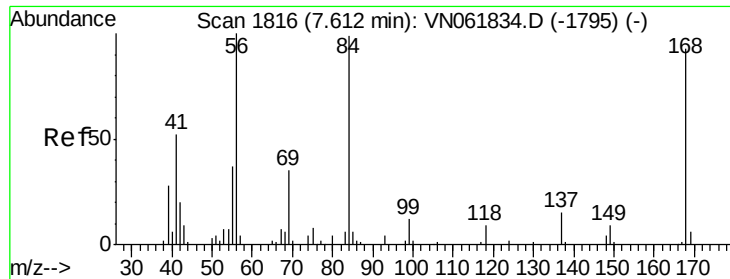
85 61.0 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

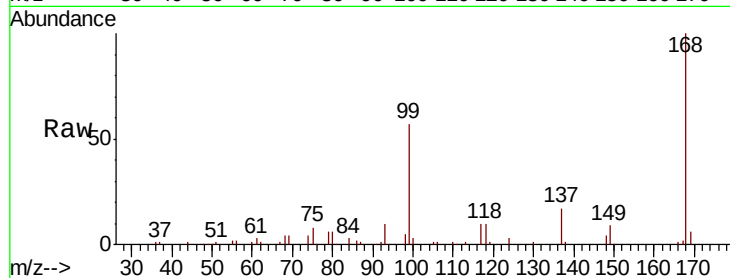




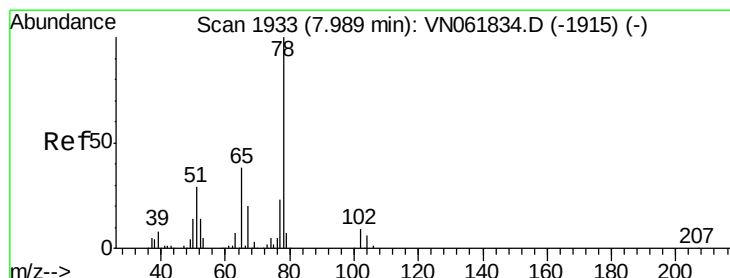
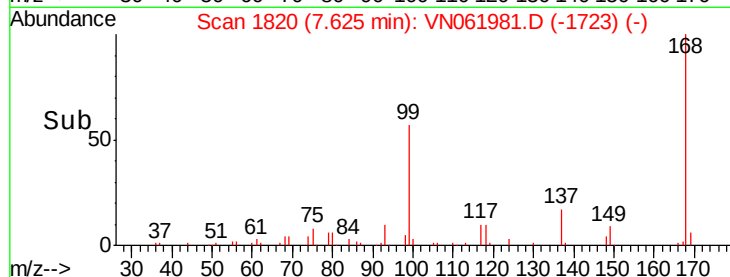
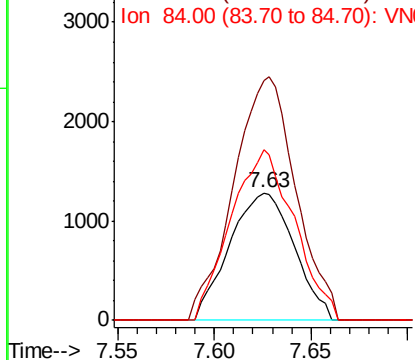
#31
Cyclohexane
Concen: 1.173 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Instrument :
MSVOA_N
ClientSampleId :
MW202D1-20200613

Tot Ion: 56 Resp: 2978
Ion Ratio Lower Upper
56 100
69 188.8 27.7 41.5#
84 134.7 79.1 118.7#

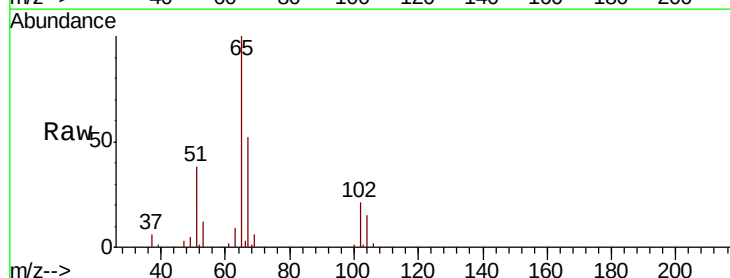


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

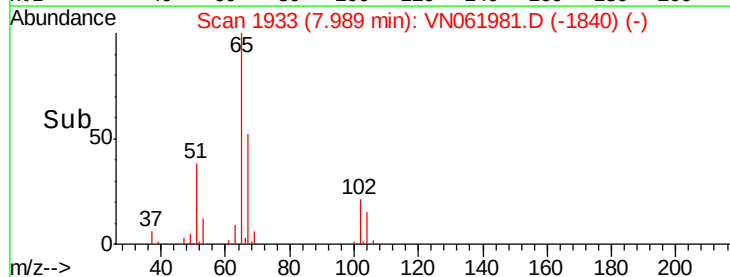
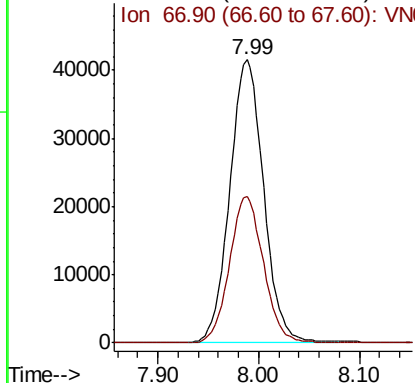


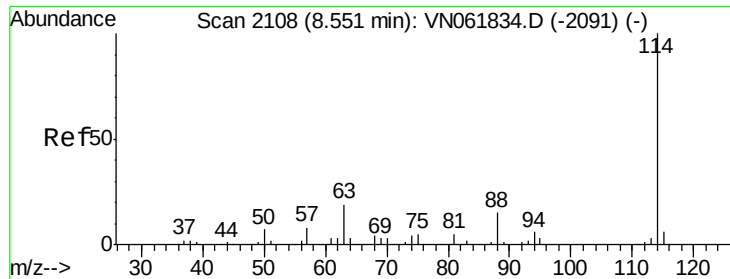
#33
1,2-Dichloroethane-d4
Concen: 50.340 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Tgt Ion: 65 Resp: 96987
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

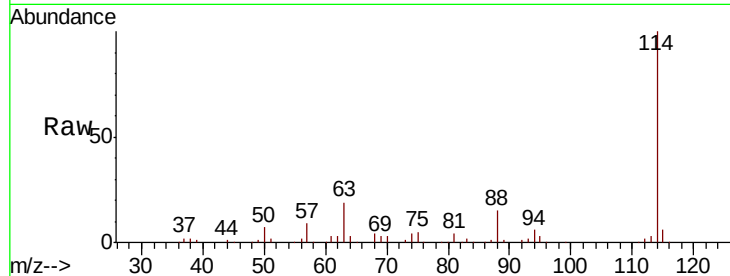




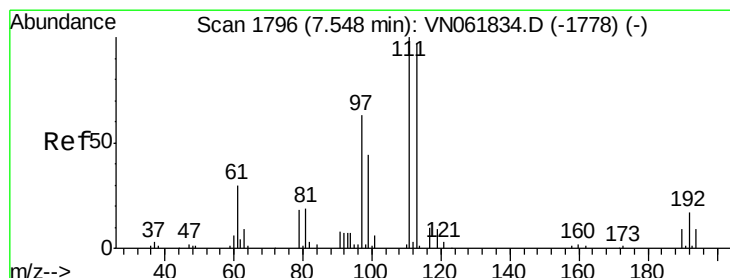
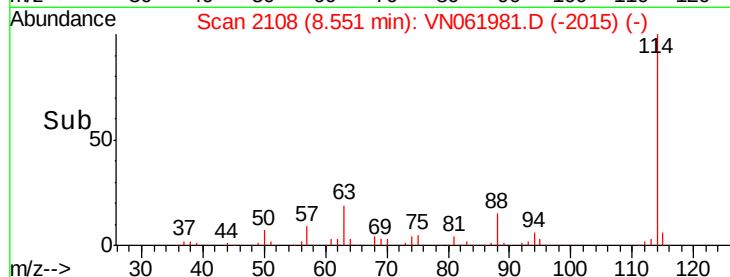
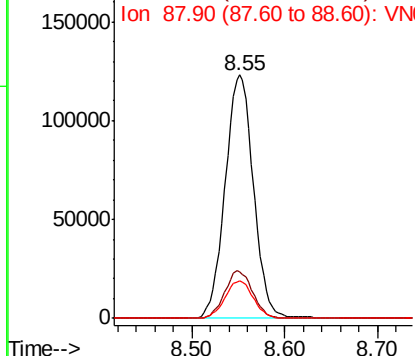
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Instrument :
MSVOA_N
ClientSampleId :
MW202D1-20200613

Tot Ion:114 Resp: 260393
Ion Ratio Lower Upper
114 100
63 19.1 0.0 37.6
88 15.2 0.0 31.0

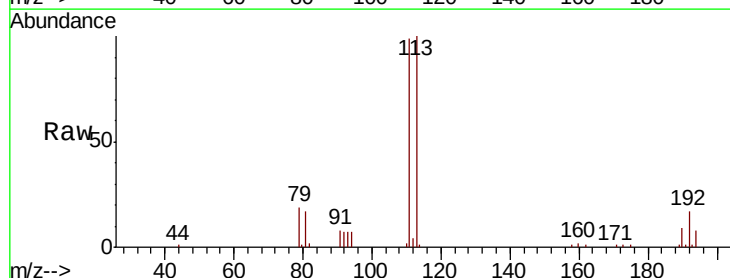


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

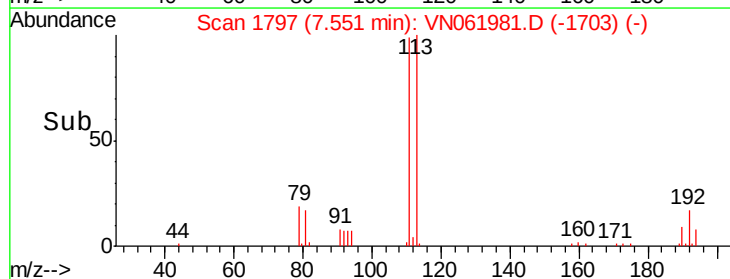
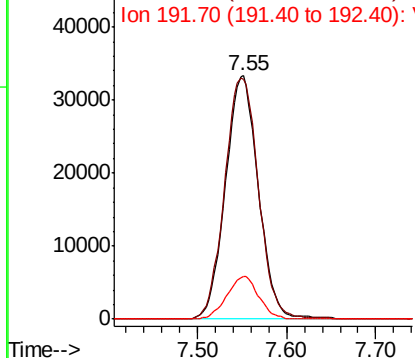


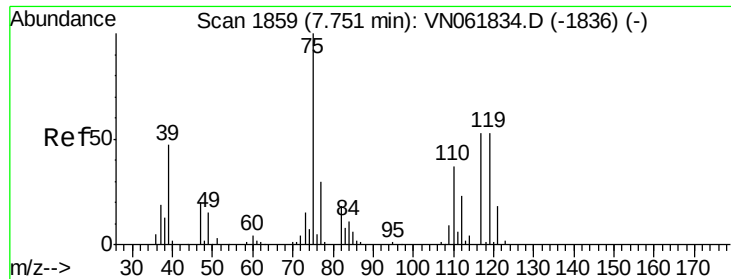
#35
Dibromofluoromethane
Concen: 51.108 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Tgt Ion:113 Resp: 85139
Ion Ratio Lower Upper
113 100
111 101.6 83.7 125.5
192 16.9 13.9 20.9



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

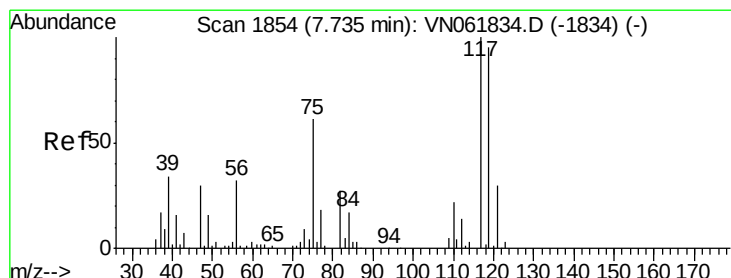
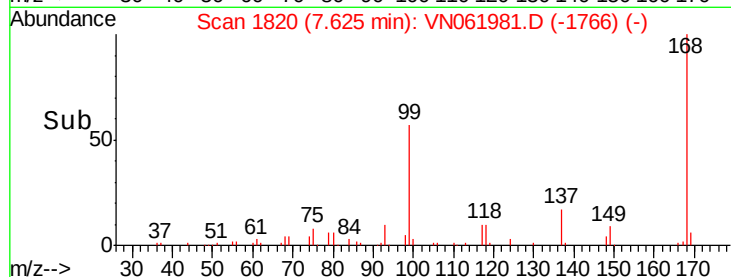
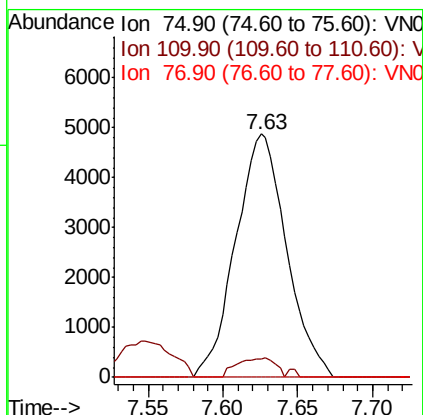
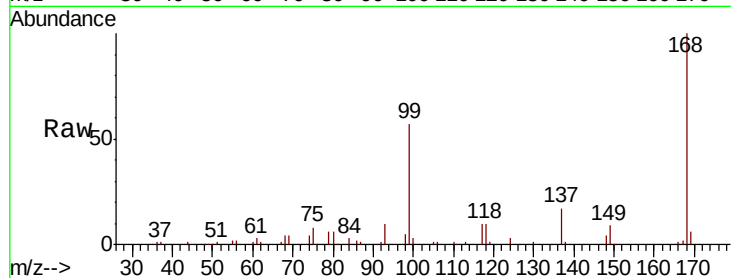




#36
 1,1-Dichloropropene
 Concen: 4.848 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061981.D
 Acq: 20 Jun 2020 6:52

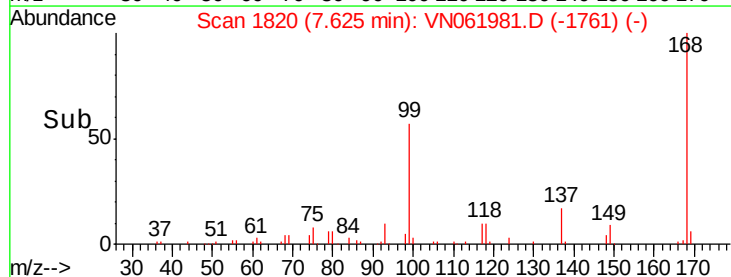
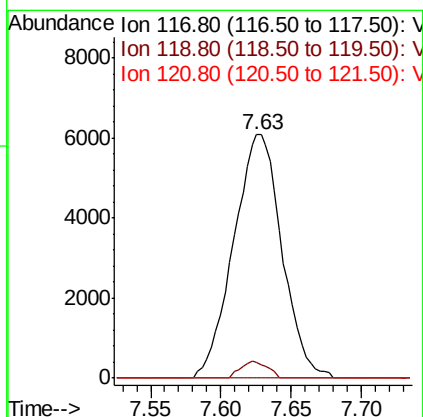
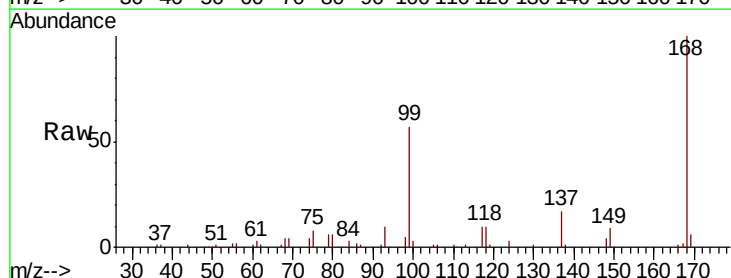
Instrument :
 MSVOA_N
 ClientSampleId :
 MW202D1-20200613

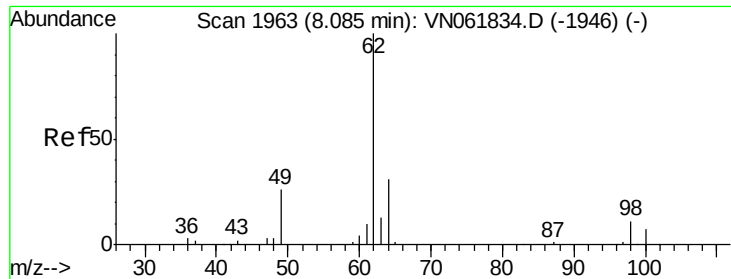
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.0	18.2	54.6#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 6.190 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061981.D
 Acq: 20 Jun 2020 6:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	75.8	113.6#
121	0.0	23.8	35.6#





#42

1,2-Dichloroethane

Concen: 0.980 ug/l

RT: 8.09 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VN061981.D

Acq: 20 Jun 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

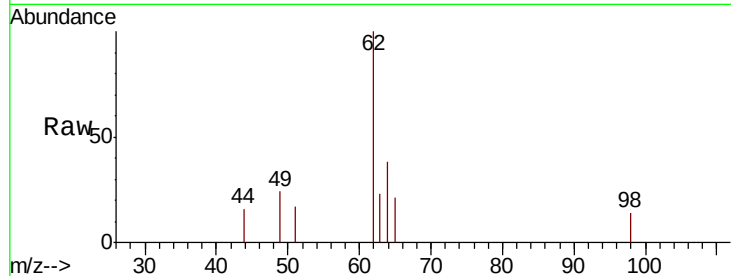
MW202D1-20200613

Tot Ion: 62 Resp: 2404

Ion Ratio Lower Upper

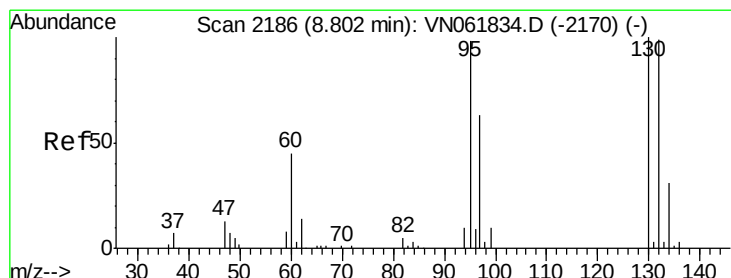
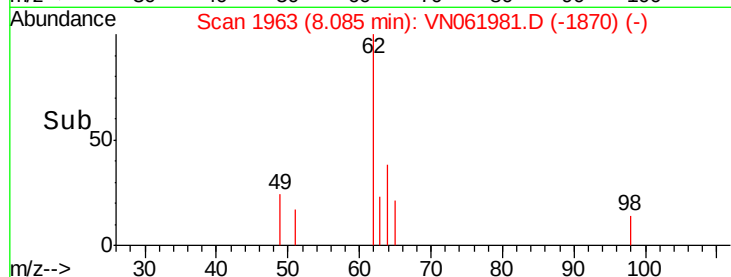
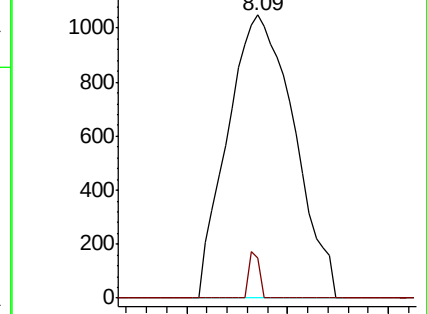
62 100

98 2.6 0.0 20.4



Abundance Ion 61.90 (61.60 to 62.60): VN061834.D (-1946) (-)

Ion 97.90 (97.60 to 98.60): VN061834.D (-1946) (-)



#44

Trichloroethene

Concen: 17.199 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061981.D

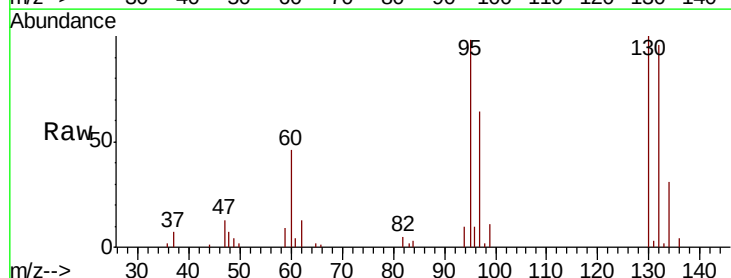
Acq: 20 Jun 2020 6:52

Tgt Ion:130 Resp: 32566

Ion Ratio Lower Upper

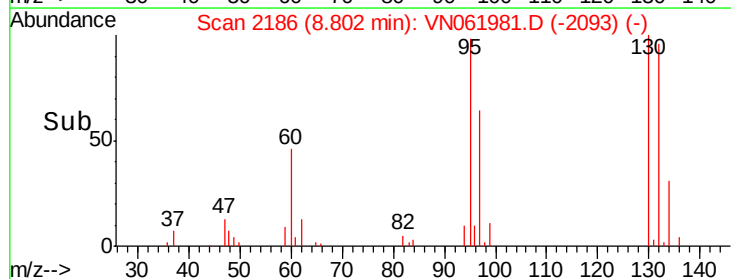
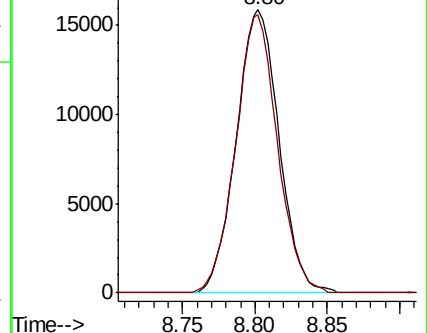
130 100

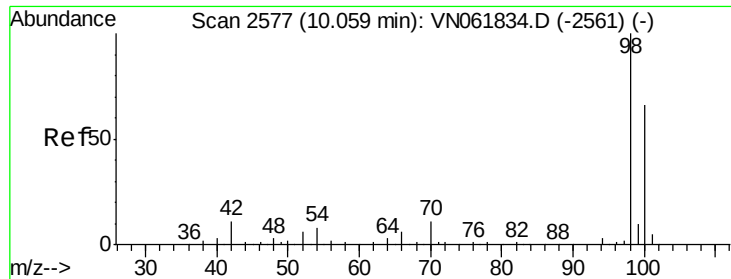
95 98.2 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): VN061834.D (-2170) (-)

Ion 94.90 (94.60 to 95.60): VN061834.D (-2170) (-)





#50

Toluene-d8

Concen: 50.181 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061981.D

Acq: 20 Jun 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

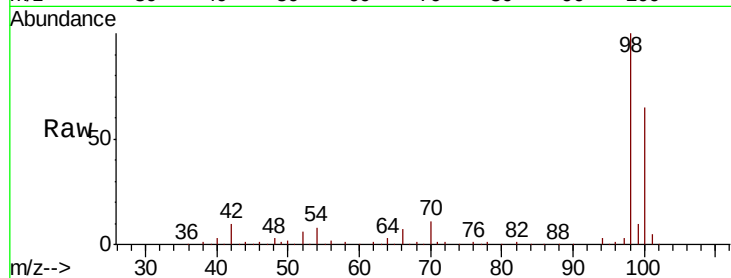
MW202D1-20200613

Tot Ion: 98 Resp: 328644

Ion Ratio Lower Upper

98 100

100 64.2 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

200000

150000

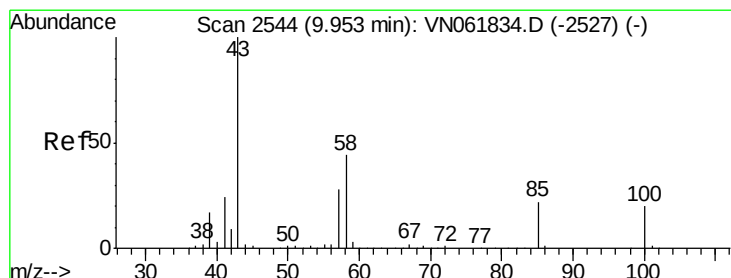
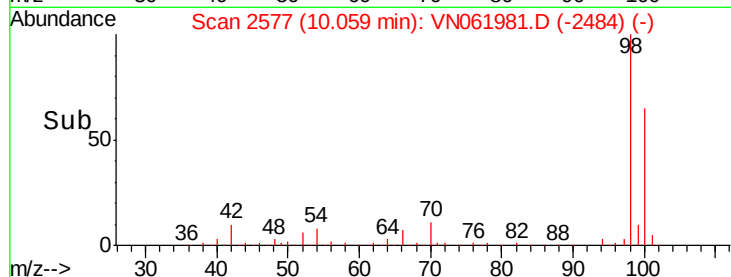
100000

50000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.657 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061981.D

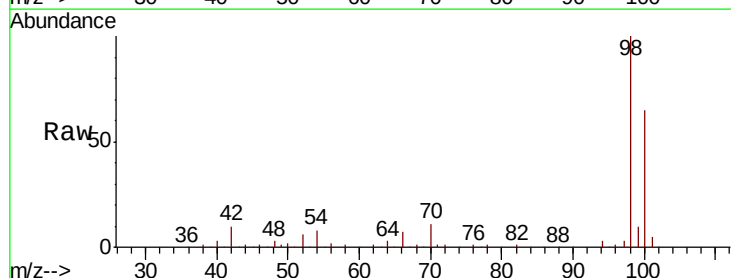
Acq: 20 Jun 2020 6:52

Tgt Ion: 43 Resp: 1214

Ion Ratio Lower Upper

43 100

58 195.2 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

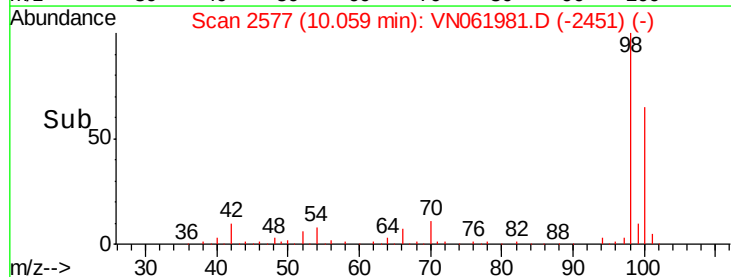
1000

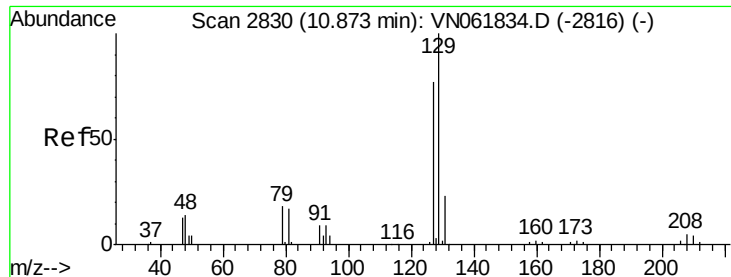
500

0

Time-->

10.05 10.10





#60

Dibromochloromethane

Concen: 15.210 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061981.D

Acq: 20 Jun 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

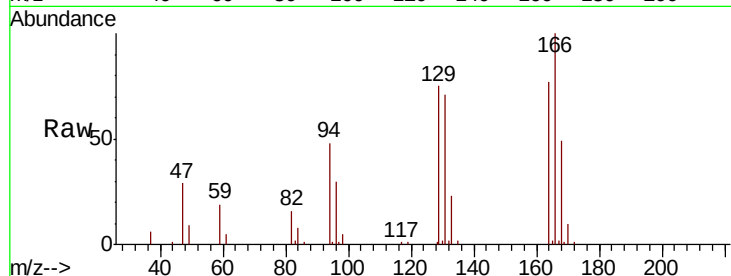
MW202D1-20200613

Tot Ion:129 Resp: 30173

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

20000

15000

10000

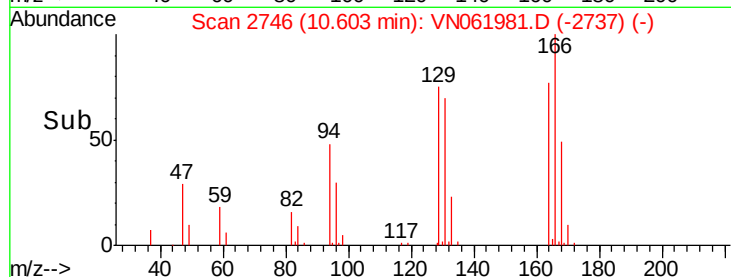
5000

0

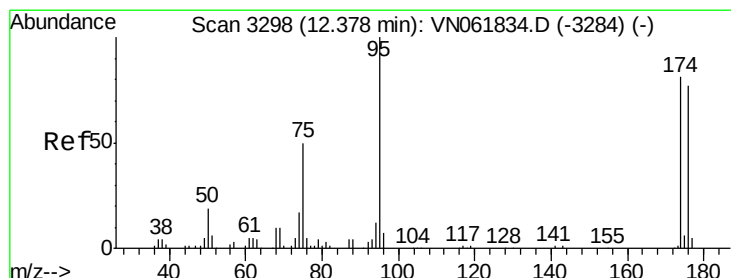
10.55

10.60

10.65



Time-->



#62

4-Bromofluorobenzene

Concen: 47.069 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061981.D

Acq: 20 Jun 2020 6:52

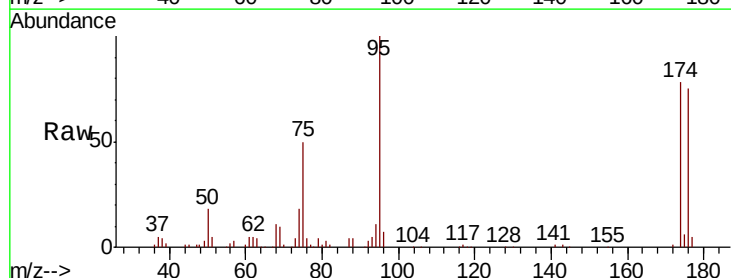
Tgt Ion: 95 Resp: 105738

Ion Ratio Lower Upper

95 100

174 78.0 0.0 158.6

176 75.8 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

80000

60000

40000

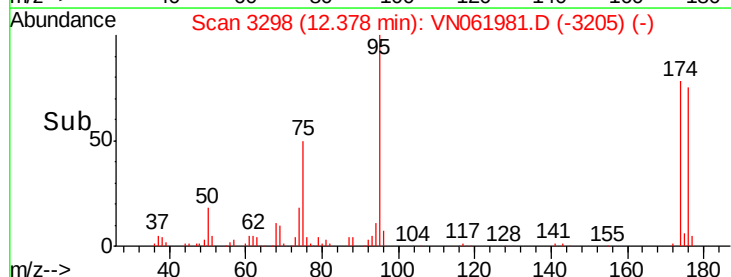
20000

0

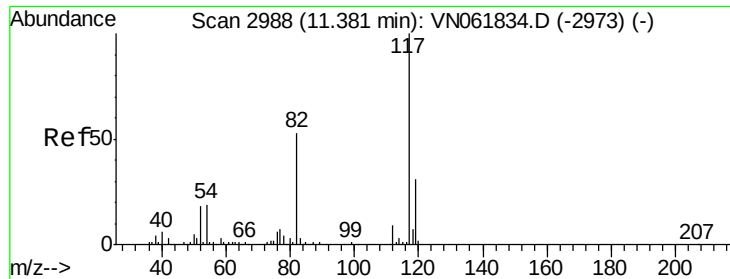
12.30

12.38

12.40



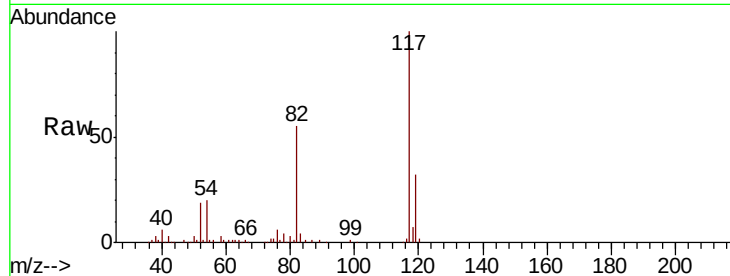
Time-->



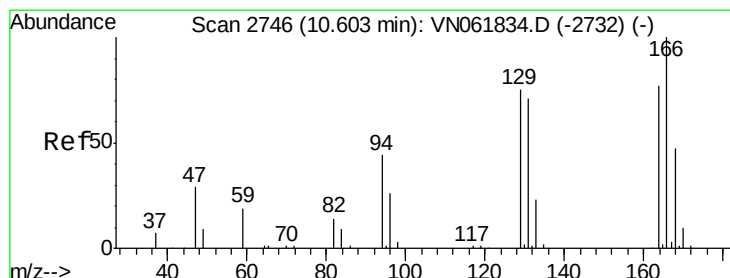
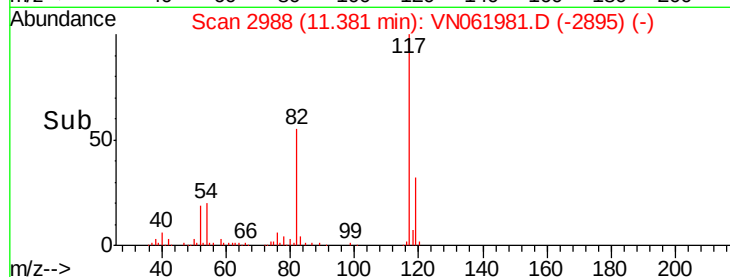
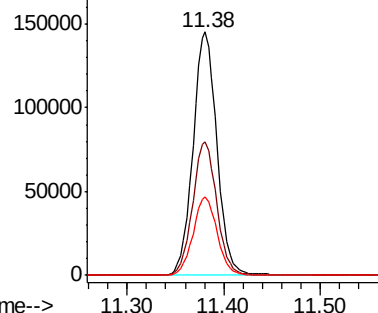
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Instrument :
MSVOA_N
ClientSampleId :
MW202D1-20200613

Tot Ion:117 Resp: 248576
Ion Ratio Lower Upper
117 100
82 54.8 42.6 64.0
119 32.0 24.7 37.1

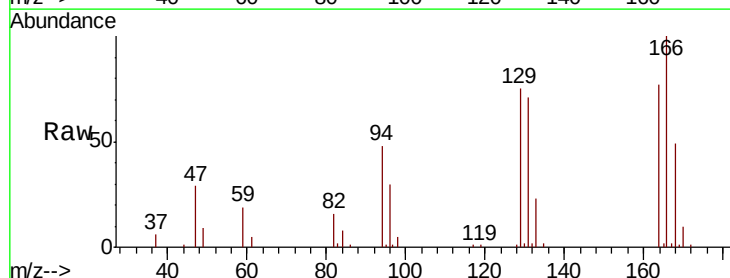


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

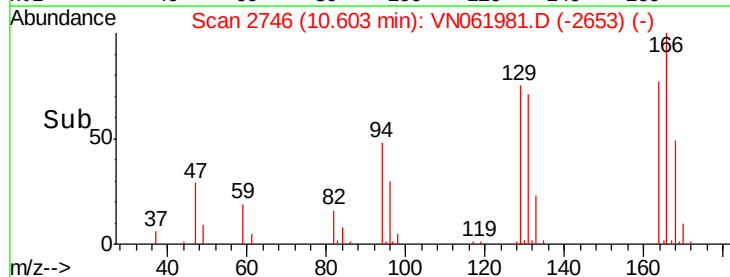
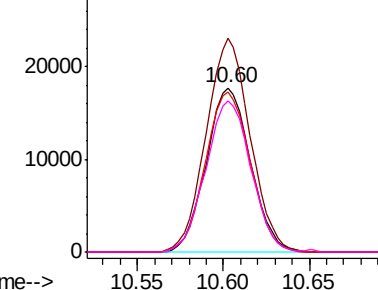


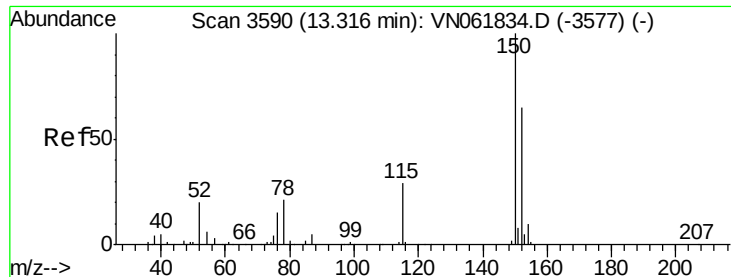
#64
Tetrachloroethene
Concen: 19.999 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061981.D
Acq: 20 Jun 2020 6:52

Tgt Ion:164 Resp: 31686
Ion Ratio Lower Upper
164 100
166 129.9 103.5 155.3
129 97.5 77.5 116.3
131 91.8 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061981.D

Acq: 20 Jun 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

MW202D1-20200613

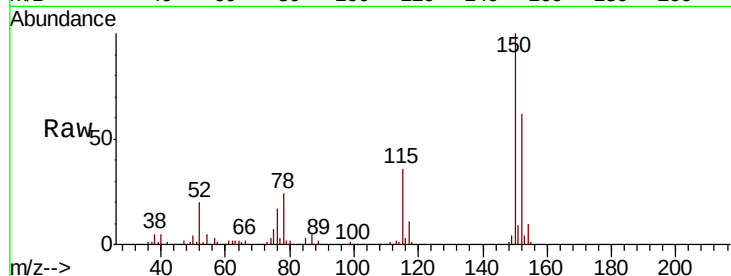
Tot Ion:152 Resp: 91620

Ion Ratio Lower Upper

152 100

115 59.2 29.1 87.3

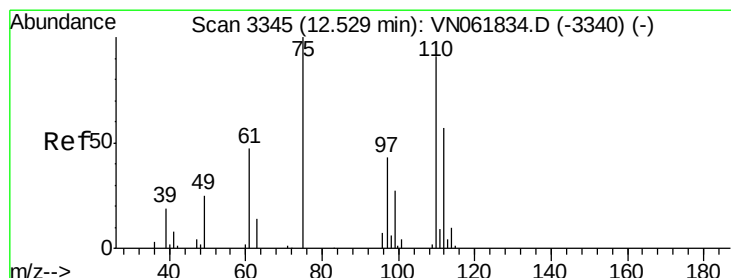
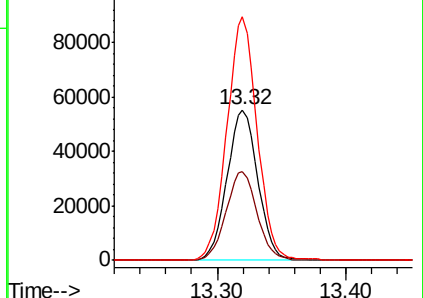
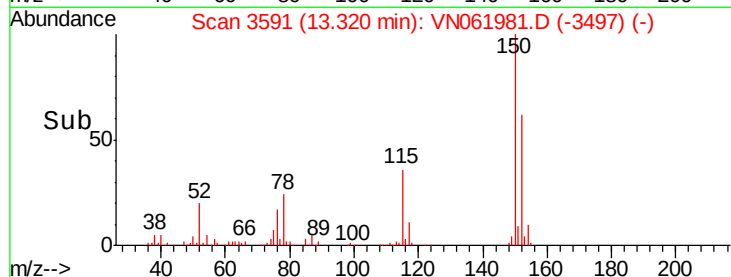
150 158.5 0.0 347.6



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: 28.932 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061981.D

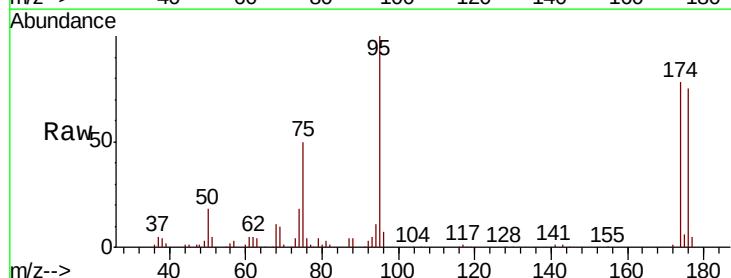
Acq: 20 Jun 2020 6:52

Tgt Ion: 75 Resp: 52040

Ion Ratio Lower Upper

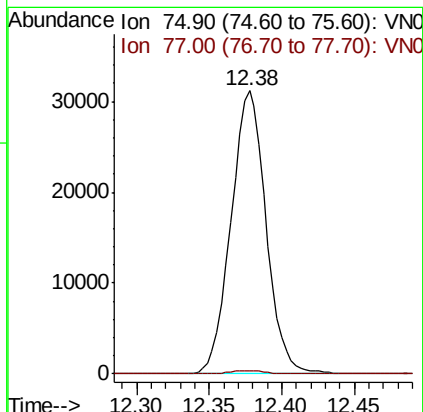
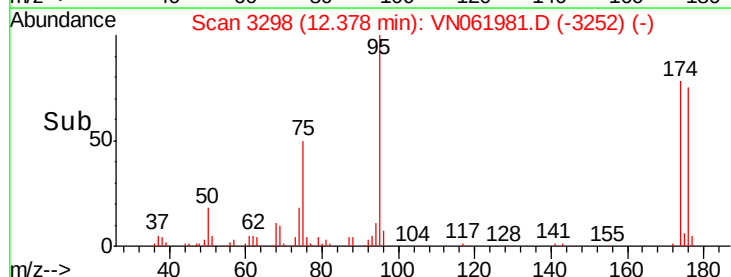
75 100

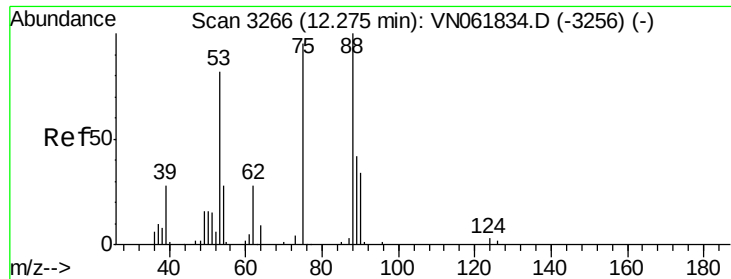
77 1.0 0.0 0.0#



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: 78.908 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061981.D

Acq: 20 Jun 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

MW202D1-20200613

Tot Ion: 75 Resp: 52040

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#

