

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061500.D
 Acq On : 20 May 2020 14:53
 Operator : JC/MD
 Sample : VN0520WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 21 01:08:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

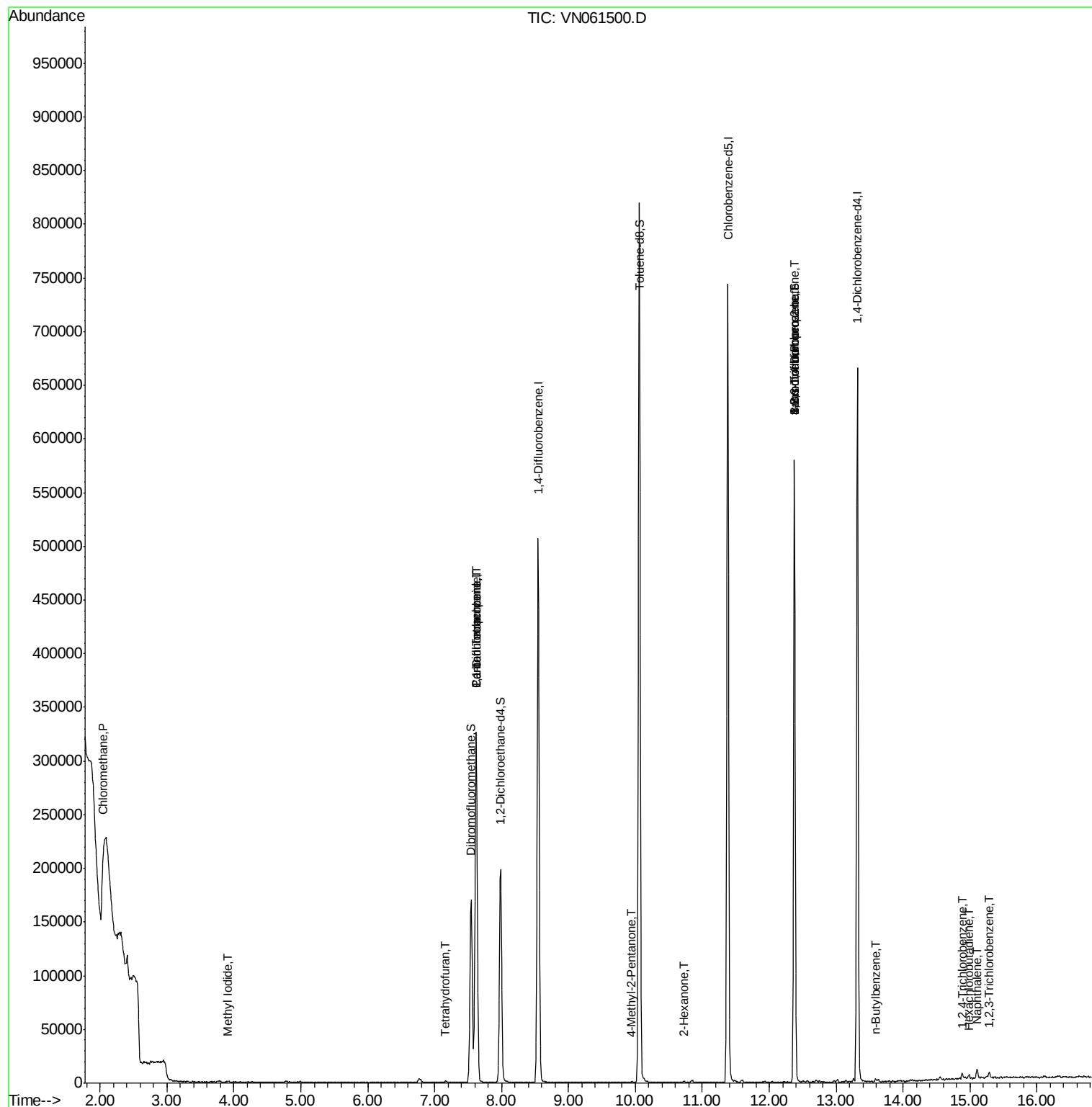
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	259928	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	470640	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	441363	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177163	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.98	65	176632	45.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.06%	
35) Dibromofluoromethane	7.54	113	131021	53.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.28%	
50) Toluene-d8	10.06	98	577121	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
62) 4-Bromofluorobenzene	12.37	95	208456	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	1609	0.456	ug/l	95
5) Bromomethane	2.54	94	1632	Below Cal	#	79
10) Methyl Iodide	3.91	142	1619	0.523	ug/l #	68
16) Acetone	3.76	43	767	Below Cal	#	43
17) Carbon Disulfide	4.00	76	1413	Below Cal	#	75
18) Methyl Acetate	4.27	43	392	Below Cal	#	49
29) Tetrahydrofuran	7.16	42	278	0.238	ug/l #	80
31) Cyclohexane	7.63	56	6069	Below Cal	#	31
36) 1,1-Dichloropropene	7.62	75	21066	4.787	ug/l #	50
38) Carbon Tetrachloride	7.62	117	27250	6.725	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	816	0.215	ug/l #	75
59) 2-Hexanone	10.72	43	1021	0.372	ug/l	80
71) Bromoform	12.38	173	1191	2.476	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	108418	28.520	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	108418	75.657	ug/l #	12
89) n-Butylbenzene	13.59	91	2195	0.202	ug/l	82
93) 1,2,4-Trichlorobenzene	14.88	180	1481	0.504	ug/l	95
94) Hexachlorobutadiene	14.98	225	740	0.567	ug/l	75
95) Naphthalene	15.10	128	8939	0.957	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	2179	0.745	ug/l	84

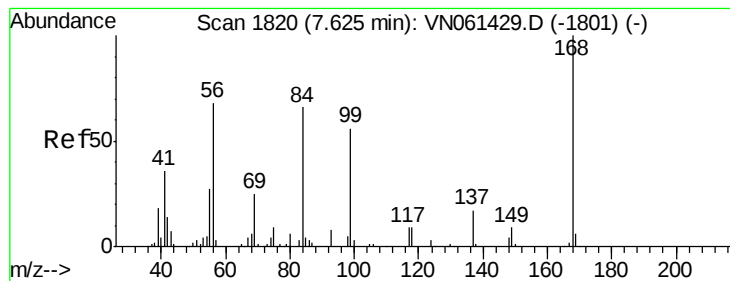
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

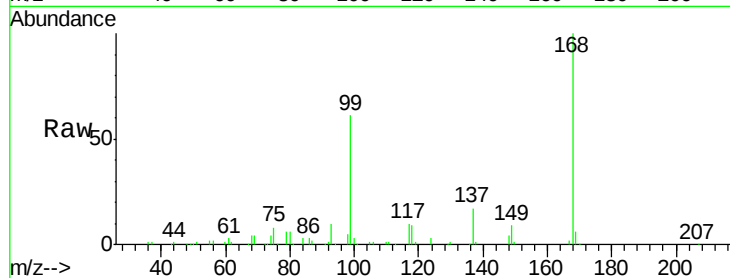
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 259928

Ion Ratio Lower Upper

168 100

99 61.1 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

120000

100000

80000

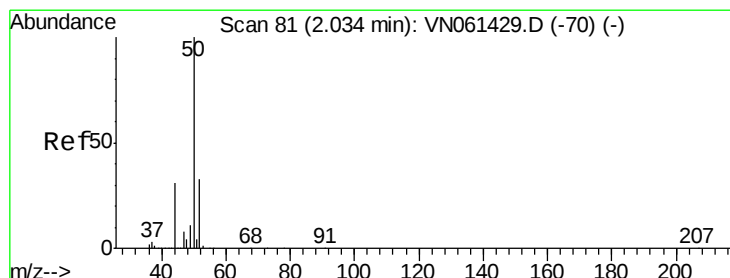
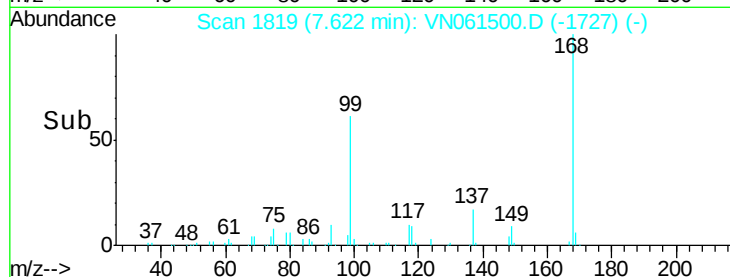
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.456 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN061500.D

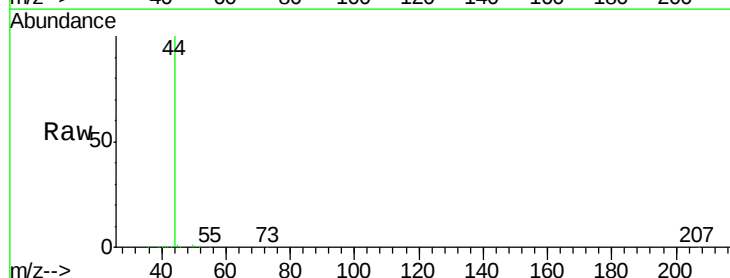
Acq: 20 May 2020 14:53

Tgt Ion: 50 Resp: 1609

Ion Ratio Lower Upper

50 100

52 36.0 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

1200

1000

800

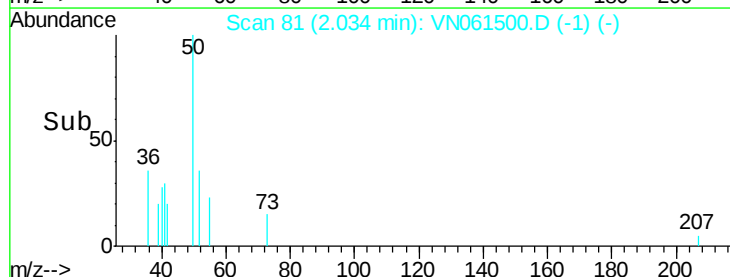
600

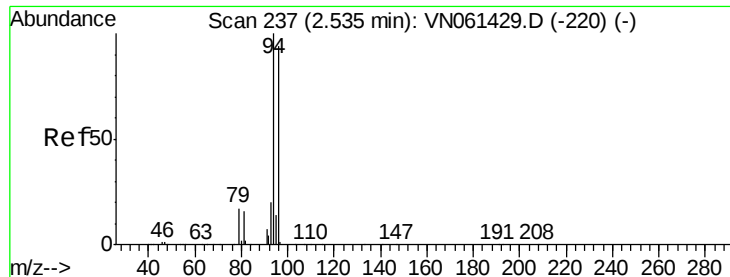
400

200

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

Instrument :

MSVOA_N

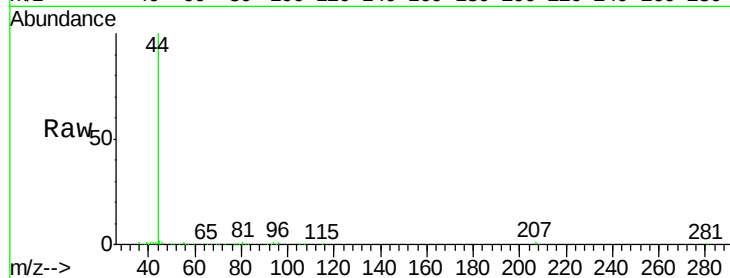
ClientSampled :

Tot Ion: 94 Resp: 1632

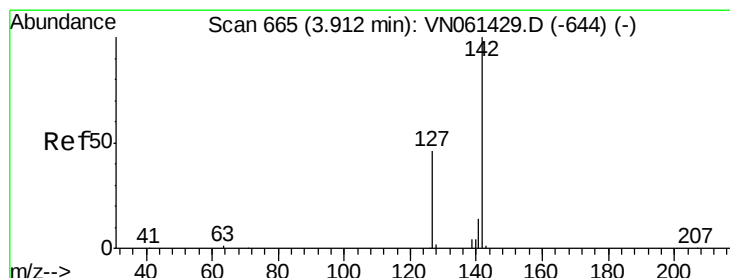
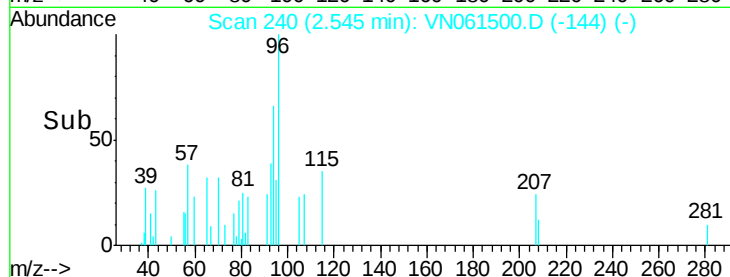
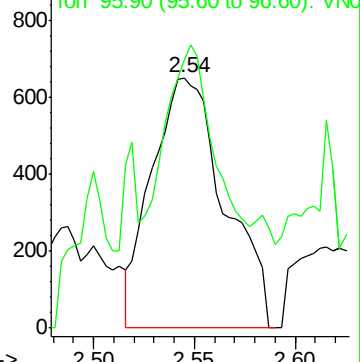
Ion Ratio Lower Upper

94 100

96 73.7 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN061429.D (-220) (-)



#10

Methyl Iodide

Concen: 0.523 ug/l

RT: 3.91 min Scan# 665

Delta R.T. -0.00 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

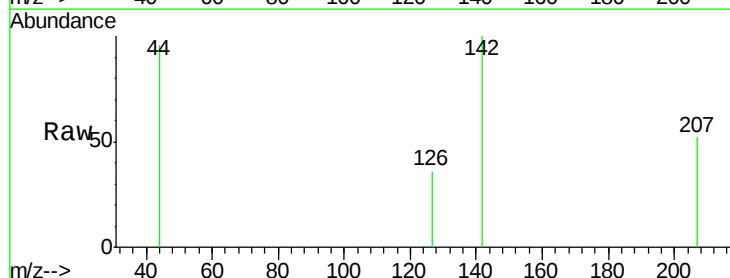
Tgt Ion: 142 Resp: 1619

Ion Ratio Lower Upper

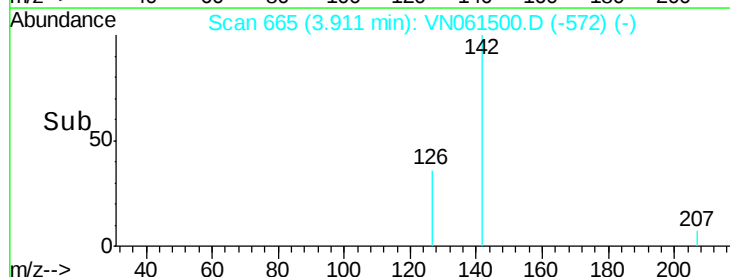
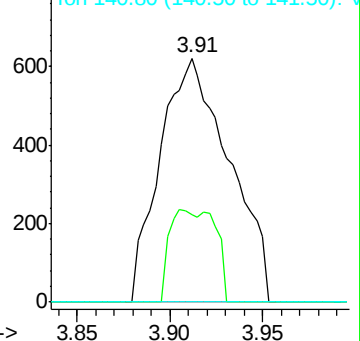
142 100

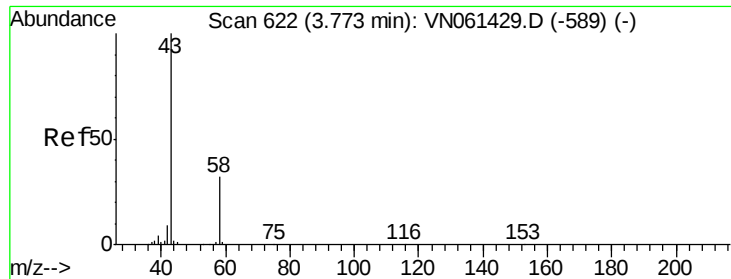
127 25.0 36.7 55.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN061429.D (-644) (-)

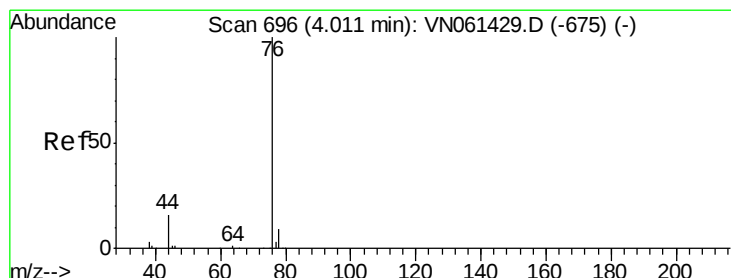
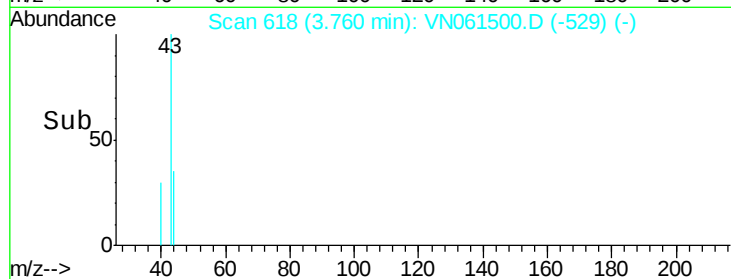
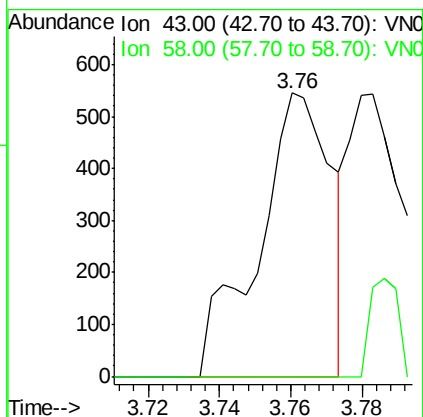
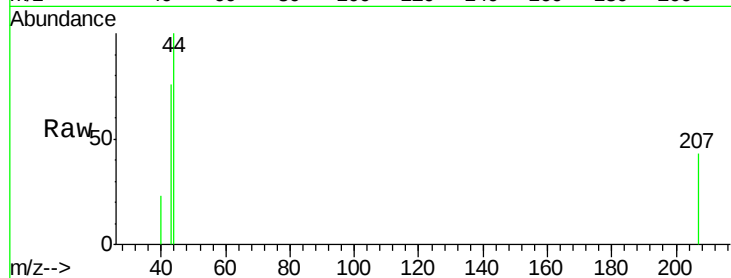




#16
Acetone
Concen: Below Cal
RT: 3.76 min Scan# 618
Delta R.T. -0.01 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

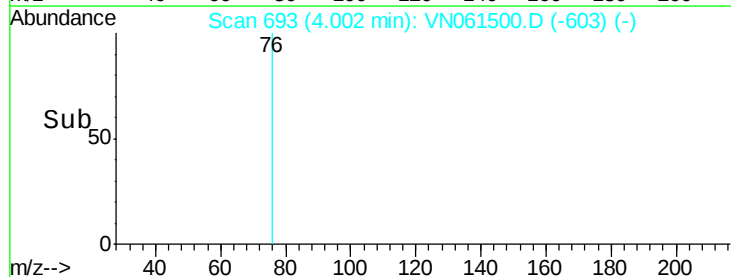
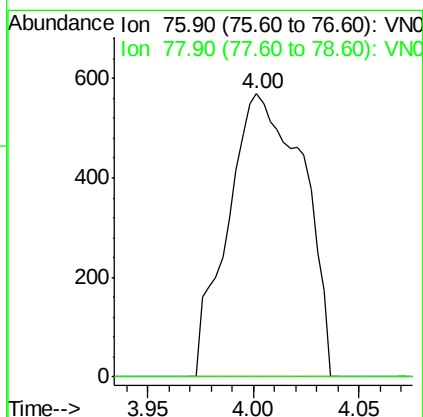
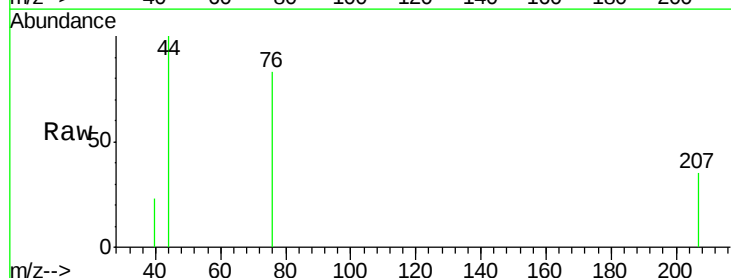
Instrument :
MSVOA_N
ClientSampled :

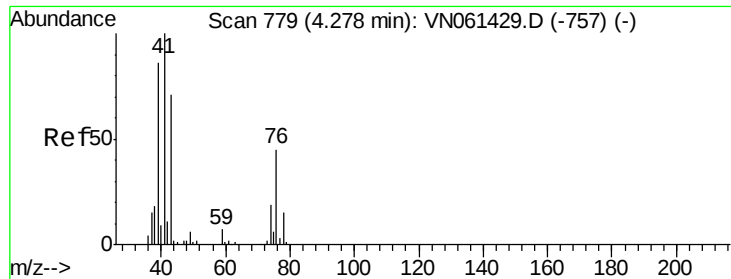
Tot Ion: 43 Resp: 767
Ion Ratio Lower Upper
43 100
58 0.0 25.6 38.4#



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.00 min Scan# 693
Delta R.T. -0.01 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

Tgt Ion: 76 Resp: 1413
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

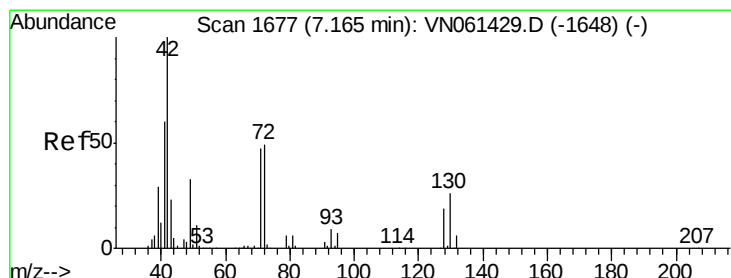
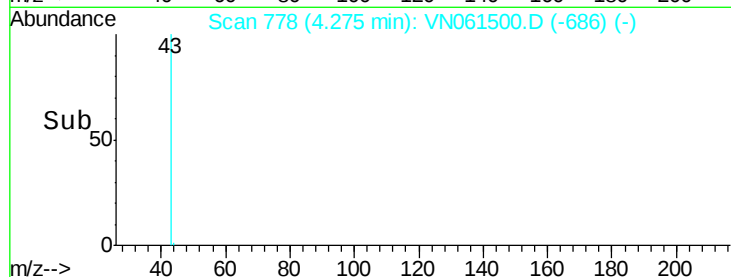
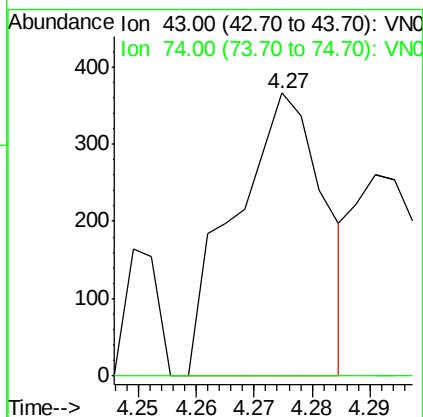
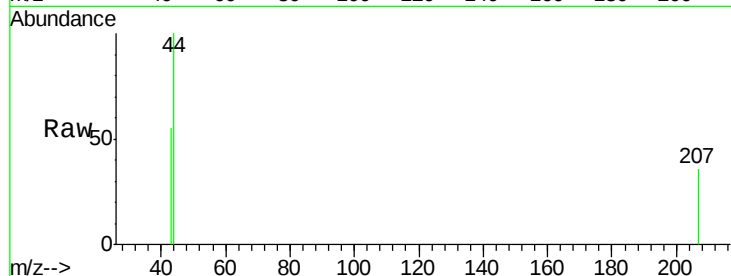




#18
Methvl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 778
Delta R.T. -0.00 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

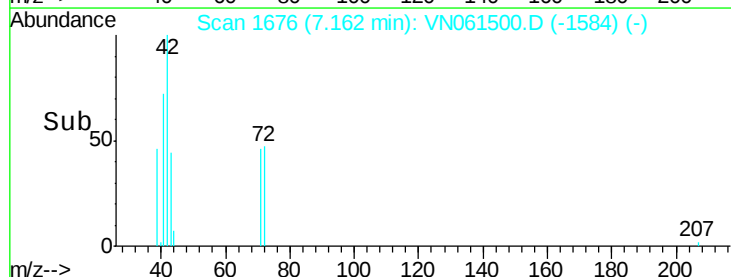
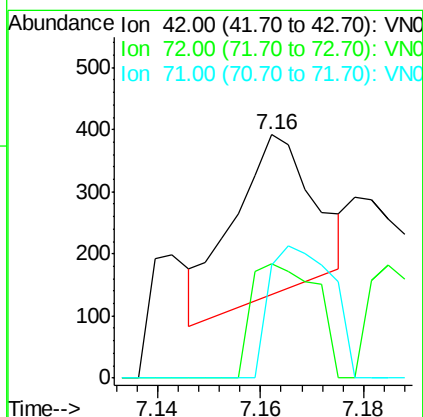
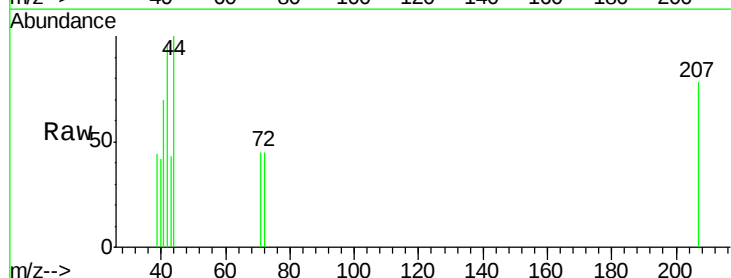
Instrument :
MSVOA_N
ClientSampled :

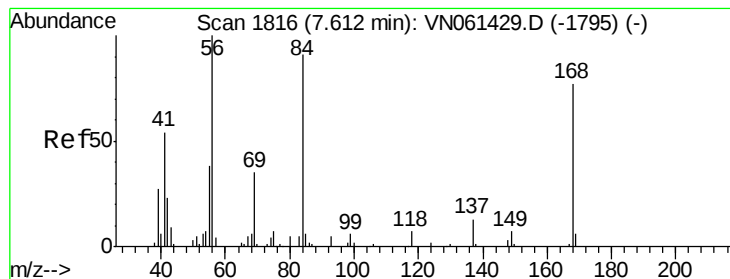
Tot Ion: 43 Resp: 392
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



#29
Tetrahydrofuran
Concen: 0.238 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.00 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

Tgt Ion: 42 Resp: 278
Ion Ratio Lower Upper
42 100
72 57.9 39.0 58.6
71 64.4 36.9 55.3#





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

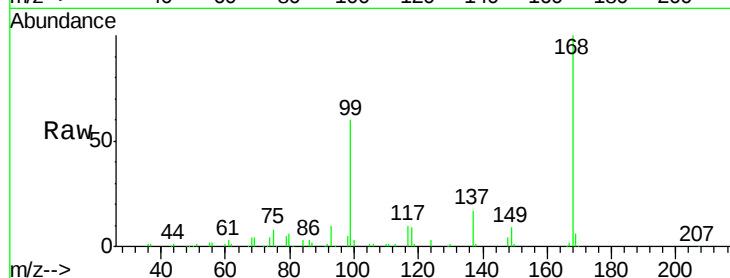
Lab File: VN061500.D

Acq: 20 May 2020 14:53

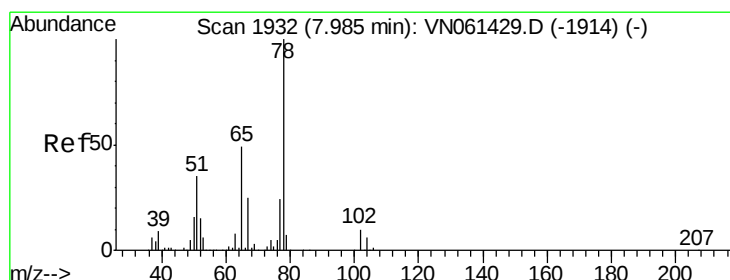
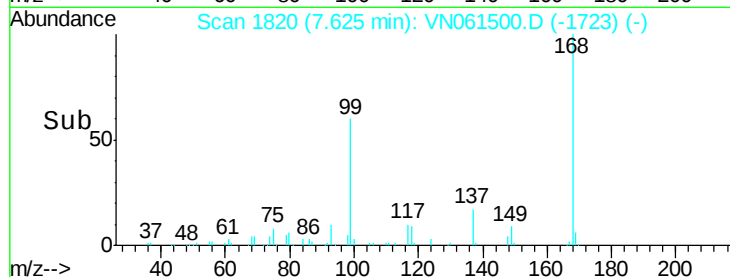
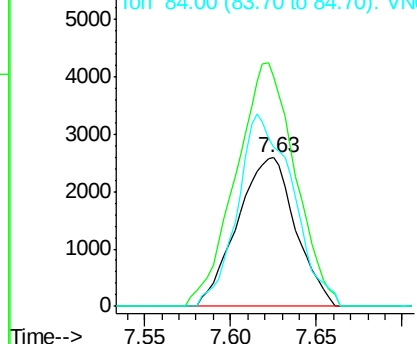
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 6069

Ion	Ratio	Lower	Upper
56	100		
69	154.3	27.8	41.6#
84	106.8	72.7	109.1



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: 45.532 ug/l

RT: 7.98 min Scan# 1931

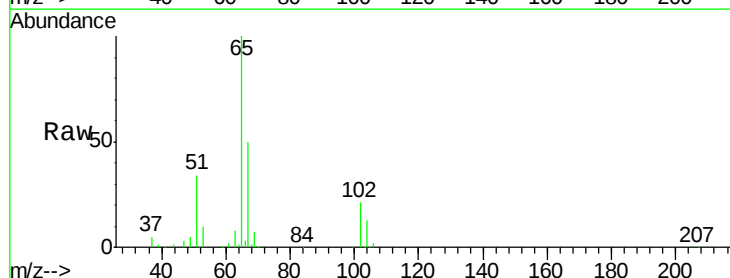
Delta R.T. -0.00 min

Lab File: VN061500.D

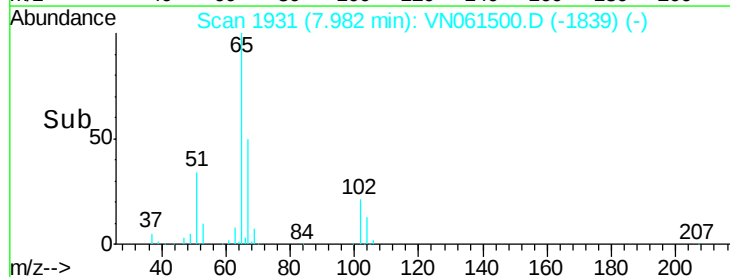
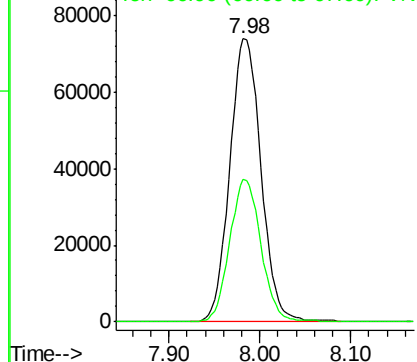
Acq: 20 May 2020 14:53

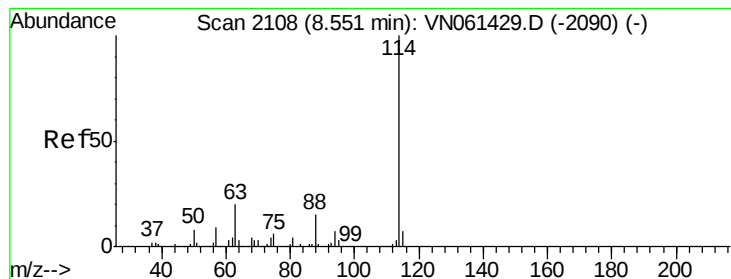
Tgt Ion: 65 Resp: 176632

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.4



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# 2107

Delta R.T. -0.00 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

Instrument :

MSVOA_N

ClientSampleId :

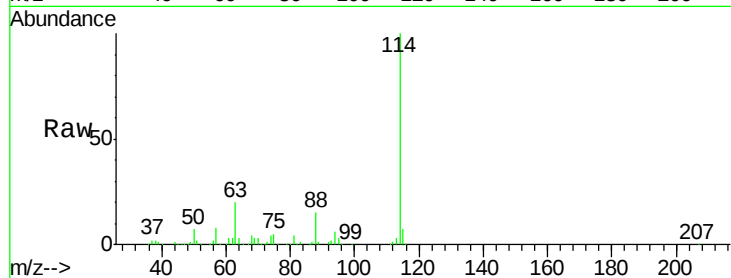
Tot Ion:114 Resp: 470640

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.8

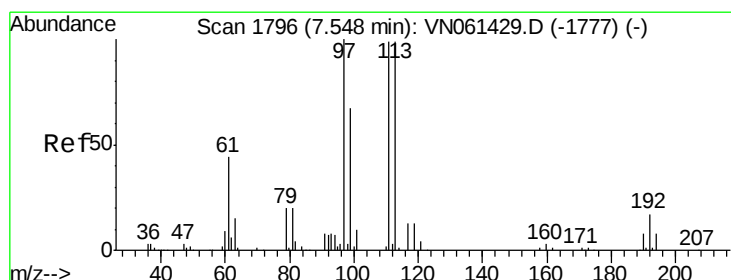
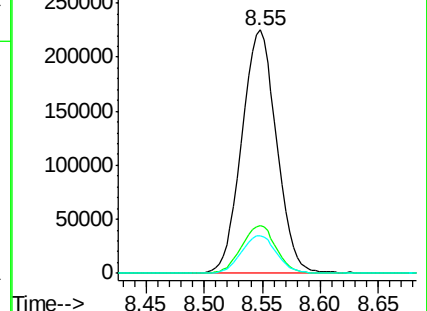
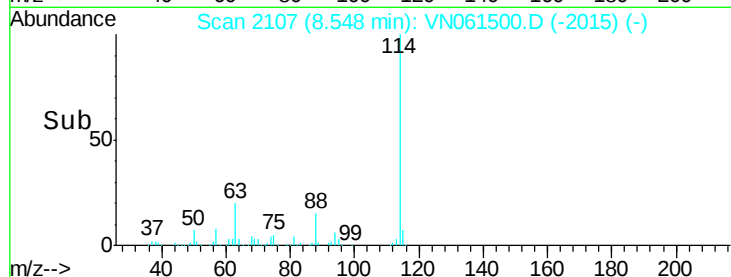
88 15.4 0.0 30.8



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: 53.141 ug/l

RT: 7.54 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

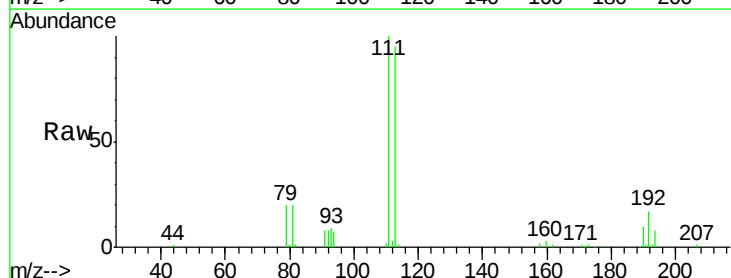
Tgt Ion:113 Resp: 131021

Ion Ratio Lower Upper

113 100

111 101.5 80.6 121.0

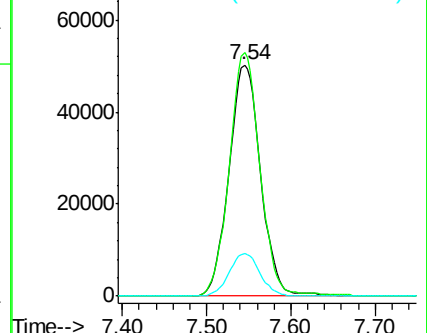
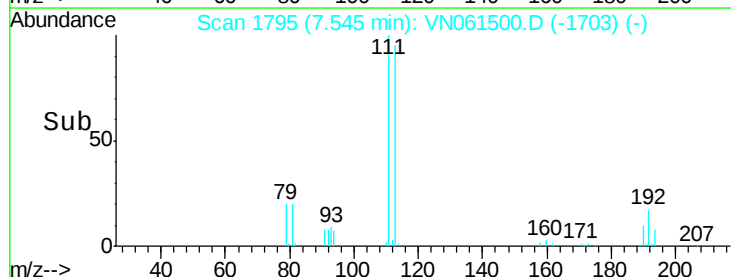
192 17.9 13.2 19.8

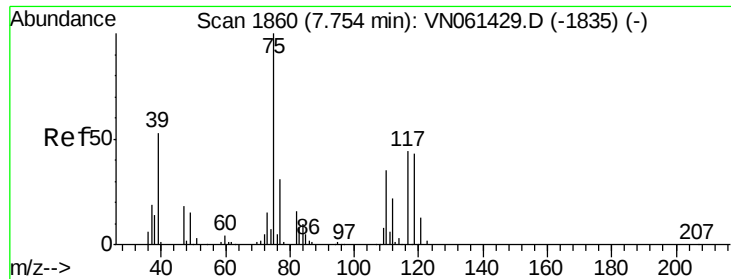


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

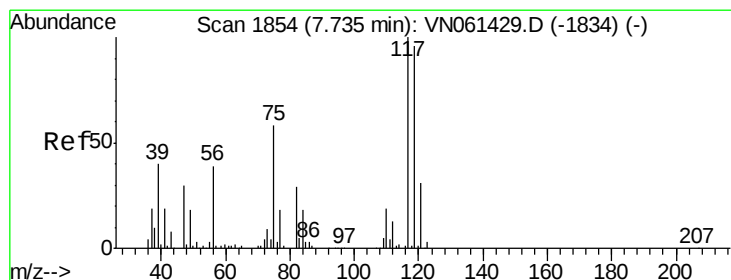
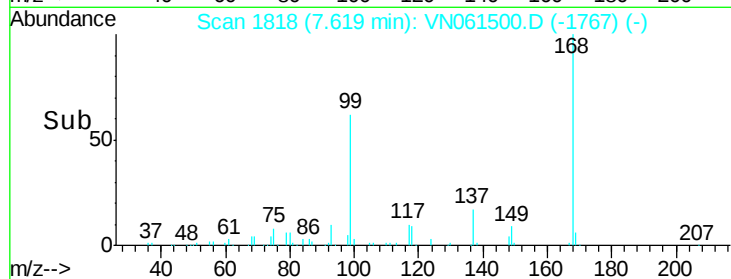
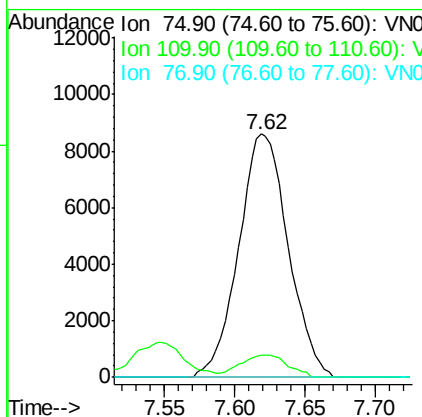
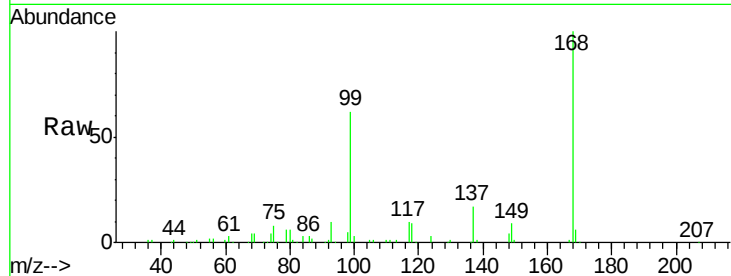




#36
 1,1-Dichloropropene
 Concen: 4.787 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.14 min
 Lab File: VN061500.D
 Acq: 20 May 2020 14:53

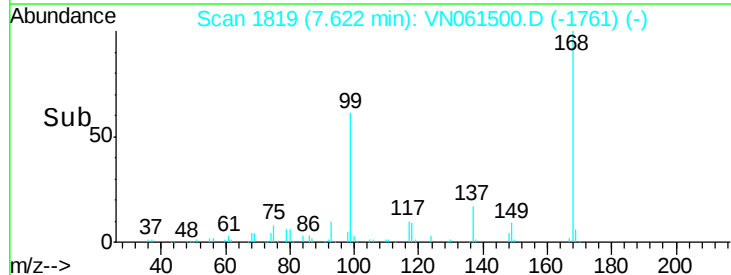
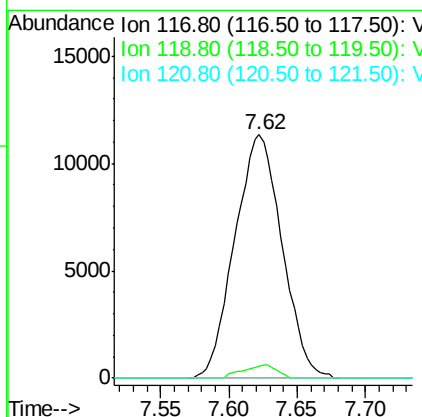
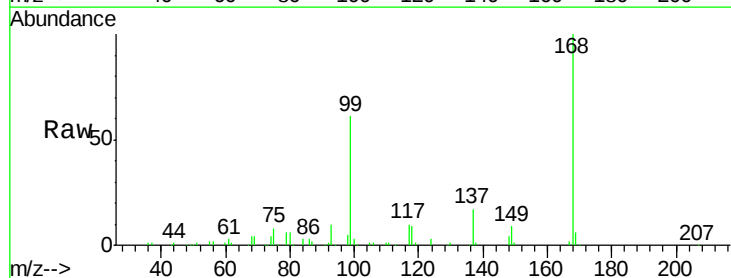
Instrument :
 MSVOA_N
 ClientSampleId :

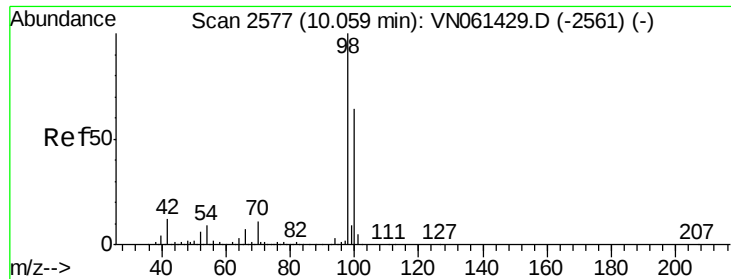
Tot Ion	75	Resp	21066
Ion Ratio	100	Lower	Upper
75	100		
110	8.7	17.3	51.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.725 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN061500.D
 Acq: 20 May 2020 14:53

Tgt Ion	117	Resp	27250
Ion Ratio	100	Lower	Upper
117	100		
119	4.9	77.0	115.6#
121	0.0	24.7	37.1#





#50

Toluene-d8

Concen: 50.466 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

Instrument :

MSVOA_N

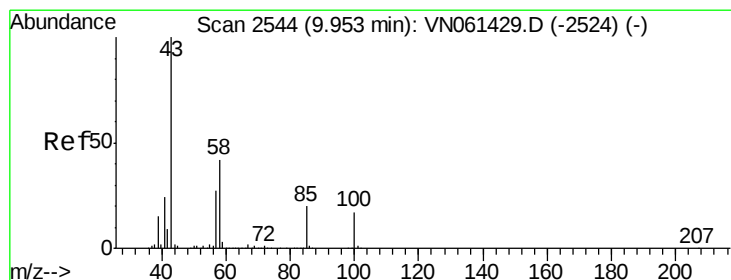
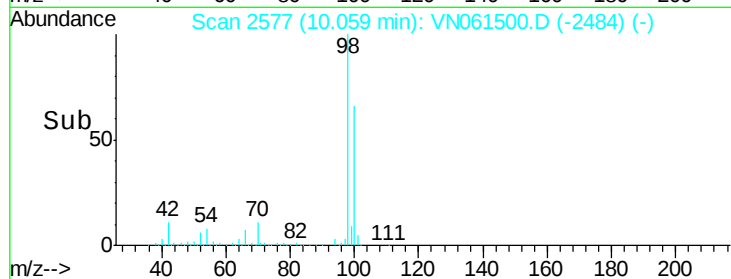
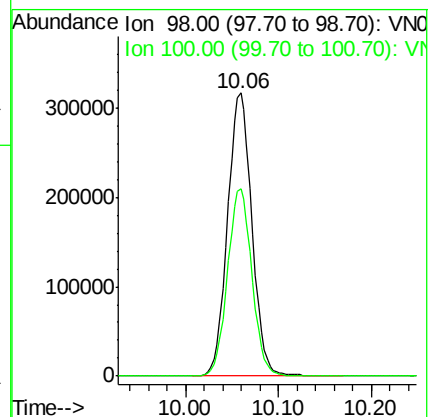
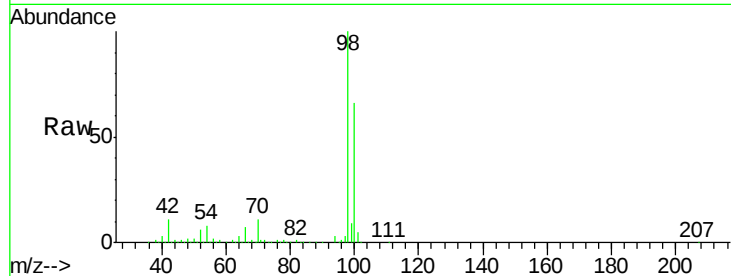
ClientSampleId :

Tot Ion: 98 Resp: 577121

Ion Ratio Lower Upper

98 100

100 66.2 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 0.215 ug/l

RT: 9.95 min Scan# 2542

Delta R.T. -0.01 min

Lab File: VN061500.D

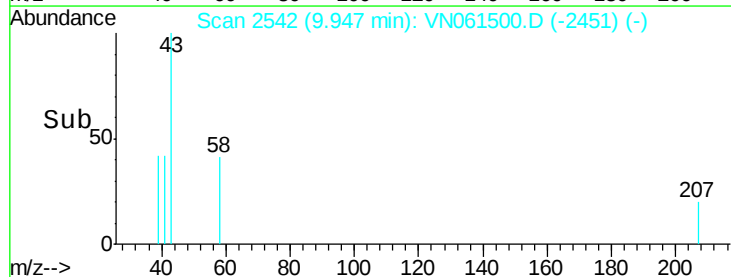
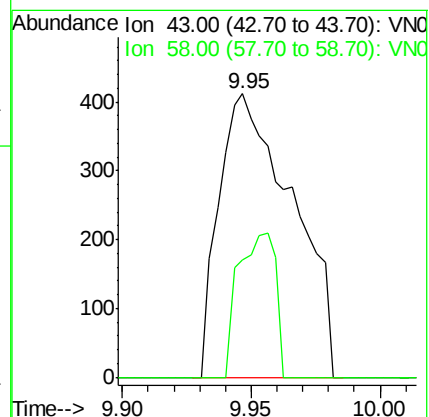
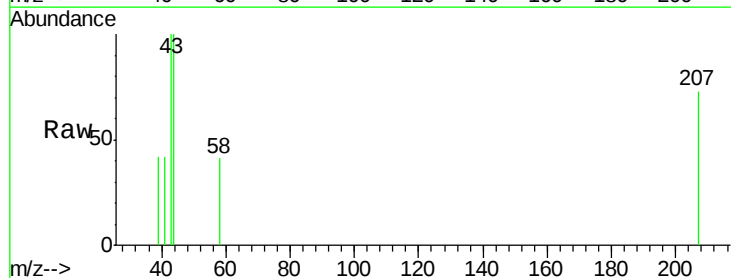
Acq: 20 May 2020 14:53

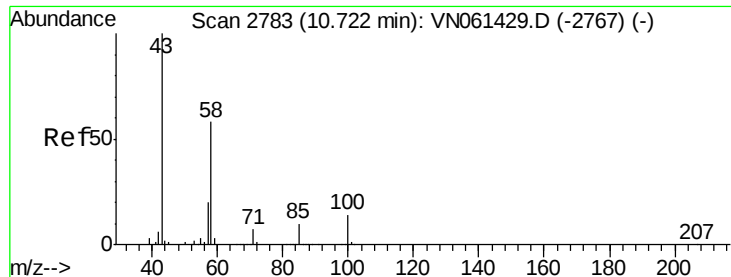
Tgt Ion: 43 Resp: 816

Ion Ratio Lower Upper

43 100

58 26.0 33.4 50.2#

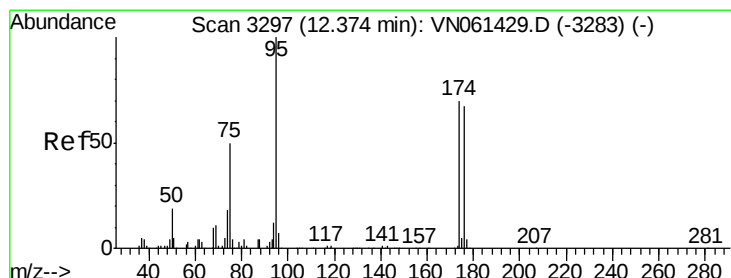
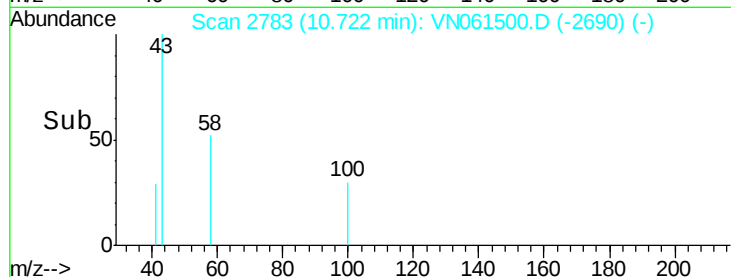
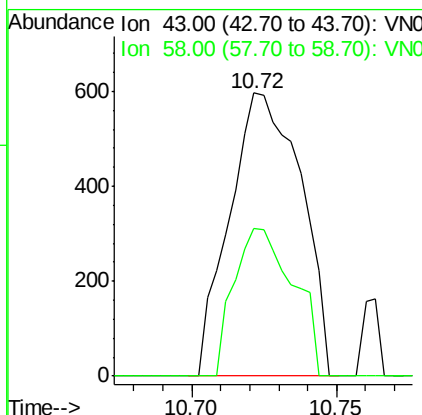
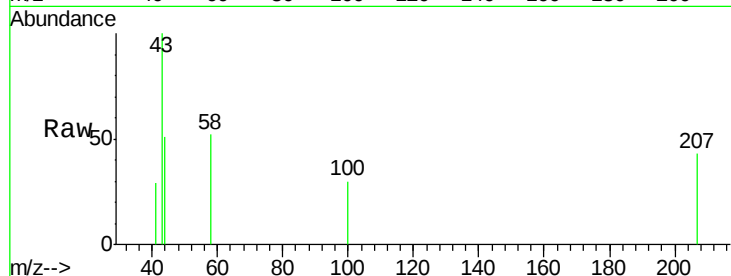




#59
2-Hexanone
Concen: 0.372 ug/l
RT: 10.72 min Scan# 2783
Delta R.T. -0.00 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

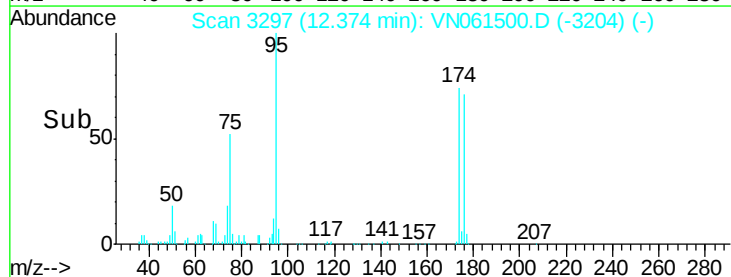
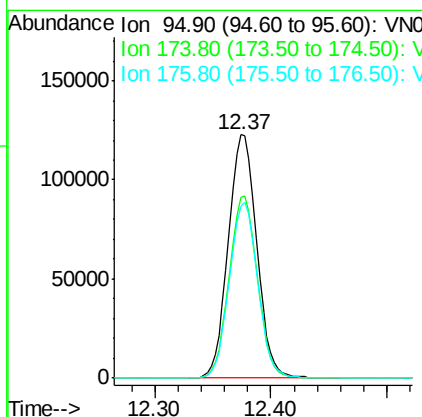
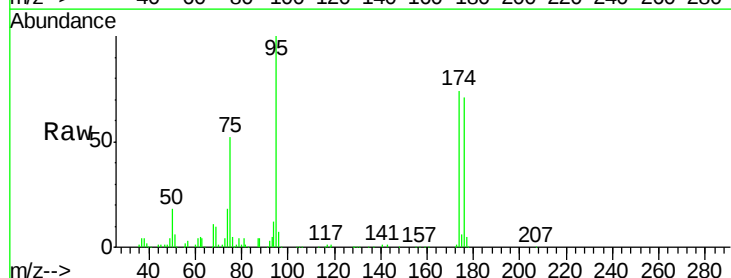
Instrument :
MSVOA_N
ClientSampled :

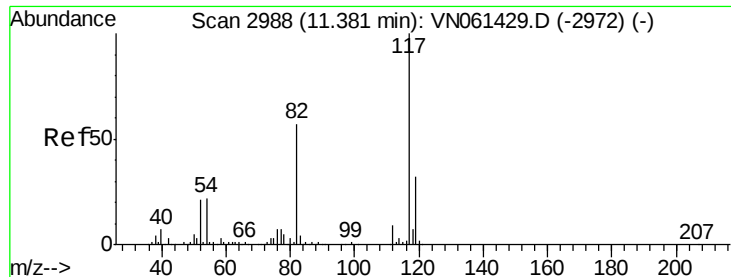
Tot Ion: 43 Resp: 1021
Ion Ratio Lower Upper
43 100
58 43.3 29.2 87.6



#62
4-Bromofluorobenzene
Concen: 48.790 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.00 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

Tgt Ion: 95 Resp: 208456
Ion Ratio Lower Upper
95 100
174 74.4 0.0 141.2
176 71.5 0.0 137.6

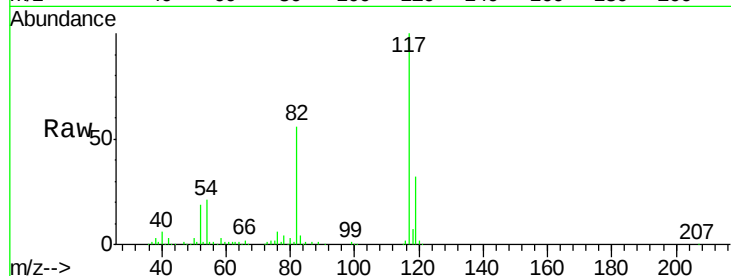




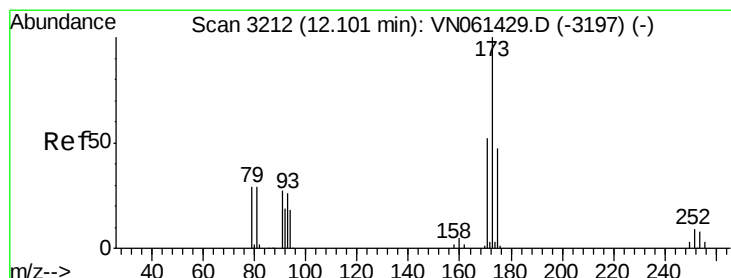
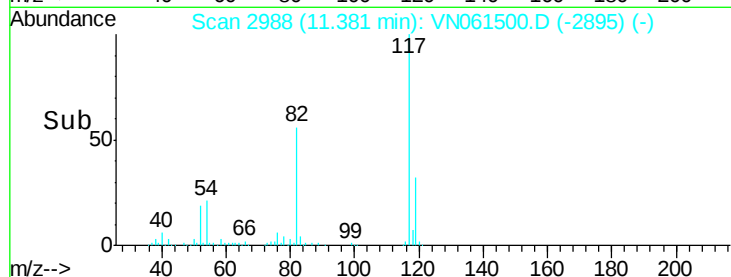
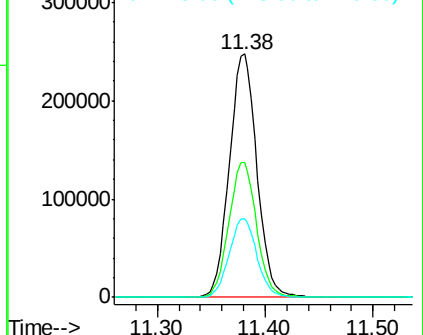
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 441363
Ion Ratio Lower Upper
117 100
82 55.6 45.2 67.8
119 32.4 25.3 37.9

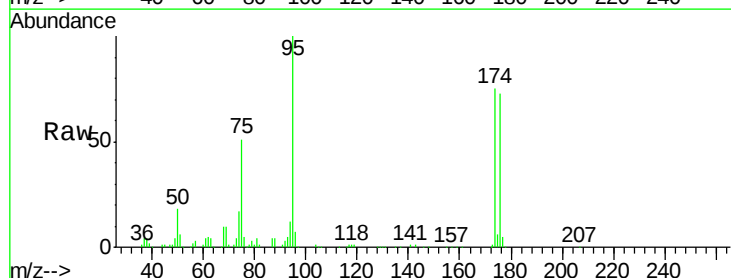


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

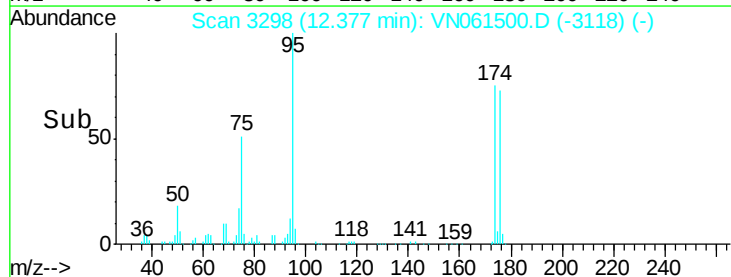
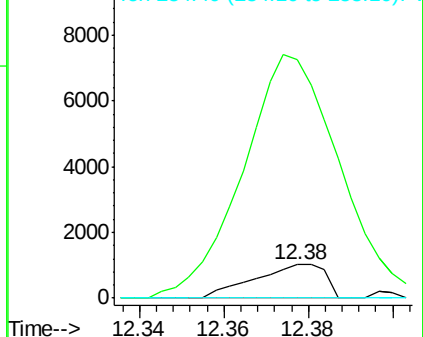


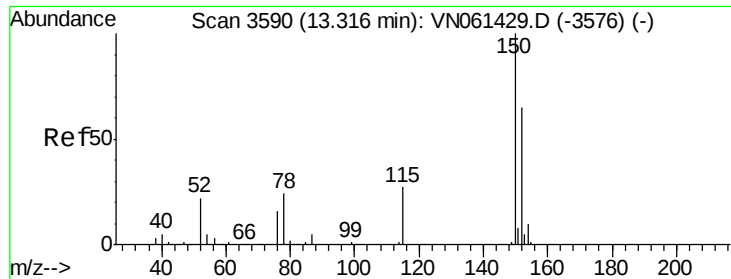
#71
Bromoform
Concen: 2.476 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

Tgt Ion:173 Resp: 1191
Ion Ratio Lower Upper
173 100
175 864.3 23.9 71.8#
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# 3590

Delta R.T. -0.00 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

Instrument :

MSVOA_N

ClientSampled :

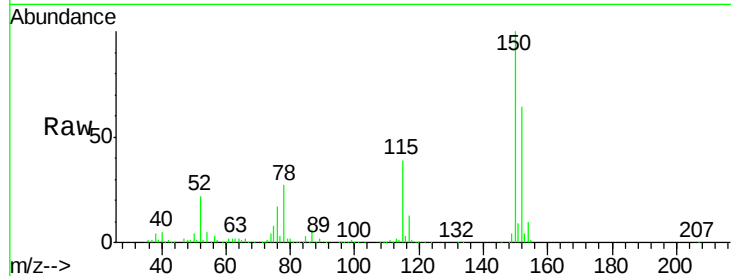
Tot Ion:152 Resp: 177163

Ion Ratio Lower Upper

152 100

115 61.7 30.9 92.5

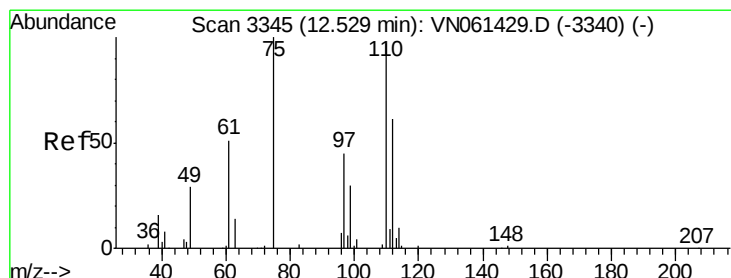
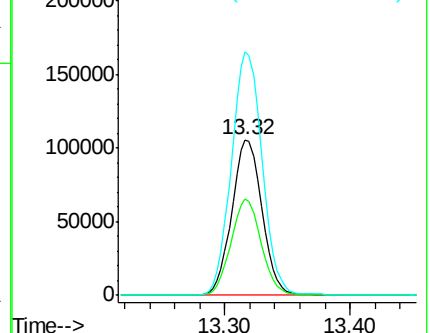
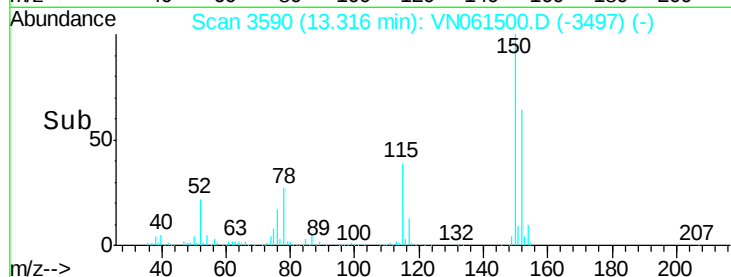
150 159.3 0.0 349.2



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: 28.520 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061500.D

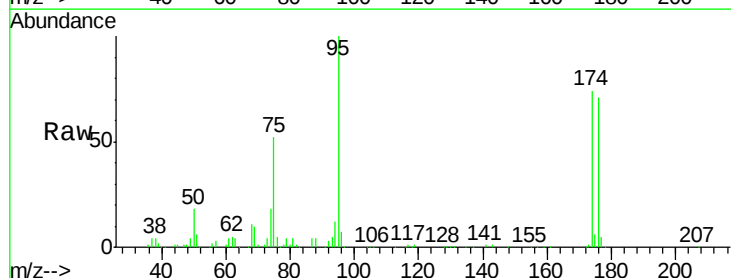
Acq: 20 May 2020 14:53

Tgt Ion: 75 Resp: 108418

Ion Ratio Lower Upper

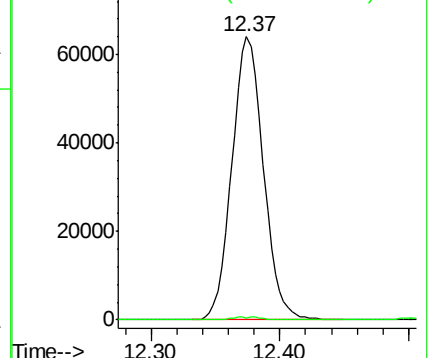
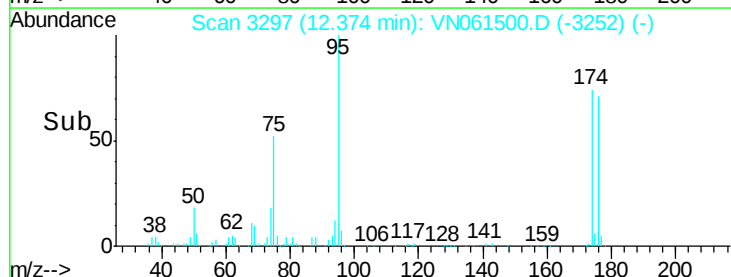
75 100

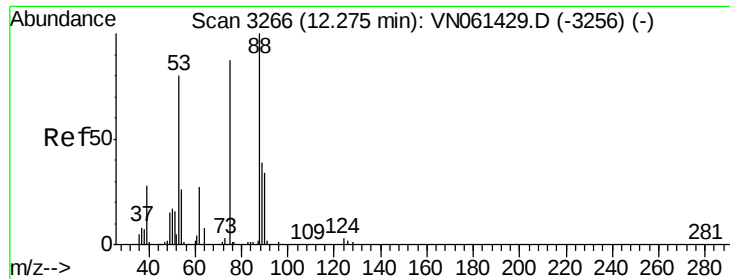
77 0.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

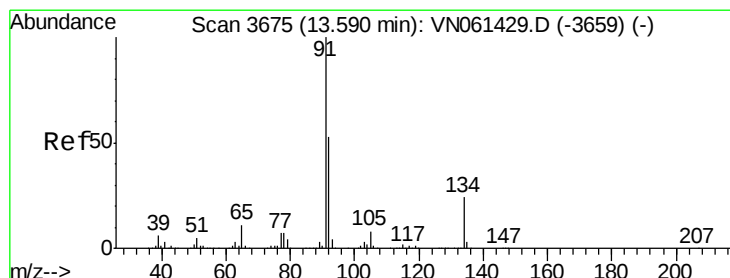
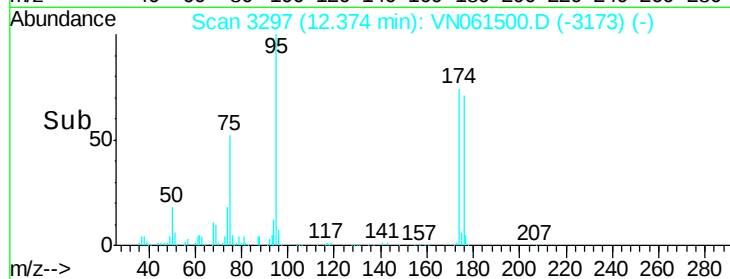
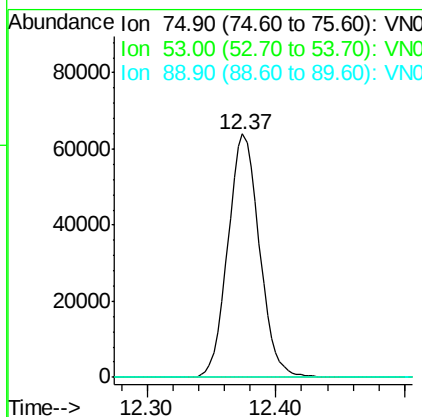
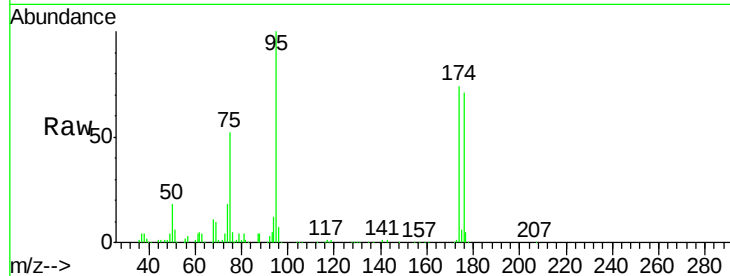




#81
trans-1,4-Dichloro-2-butene
Concen: 75.657 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.10 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

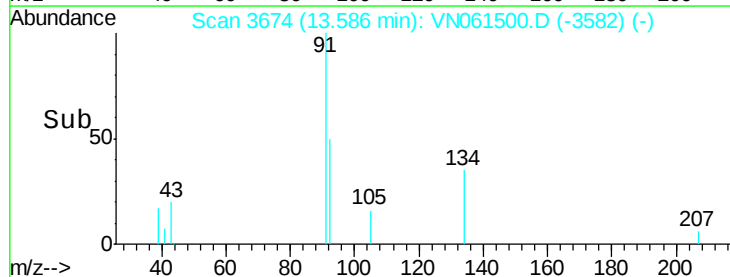
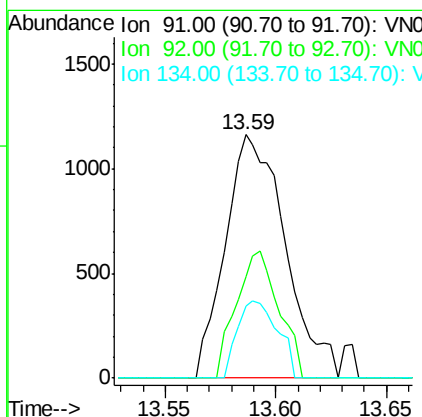
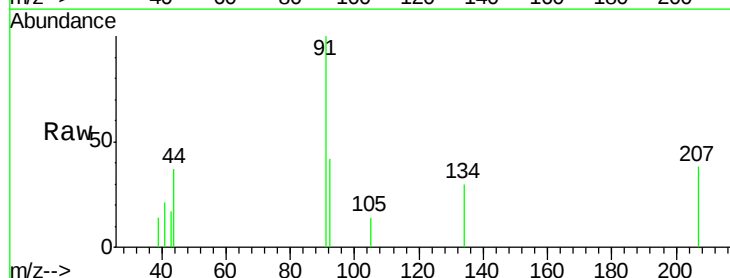
Instrument :
MSVOA_N
ClientSampleId :

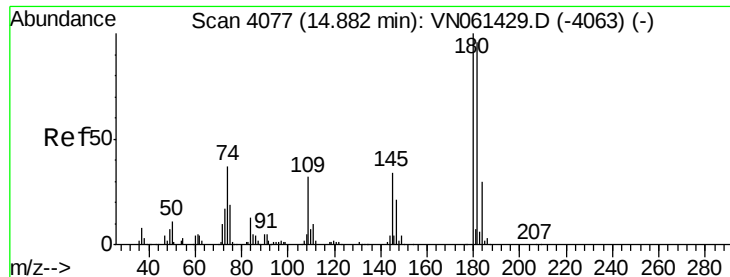
Tot Ion: 75 Resp: 108418
Ion Ratio Lower Upper
75 100
53 0.0 75.2 112.8#
89 0.0 38.2 57.4#



#89
n-Butylbenzene
Concen: 0.202 ug/l
RT: 13.59 min Scan# 3674
Delta R.T. -0.00 min
Lab File: VN061500.D
Acq: 20 May 2020 14:53

Tgt Ion: 91 Resp: 2195
Ion Ratio Lower Upper
91 100
92 37.0 26.8 80.3
134 21.4 12.4 37.4

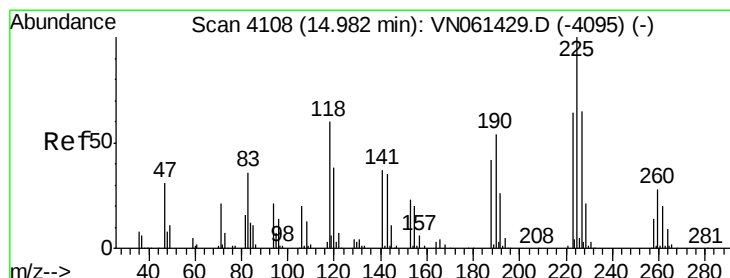
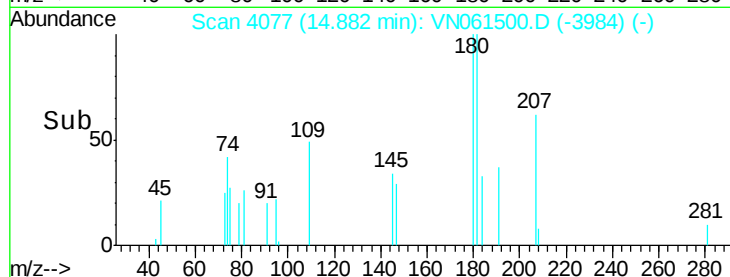
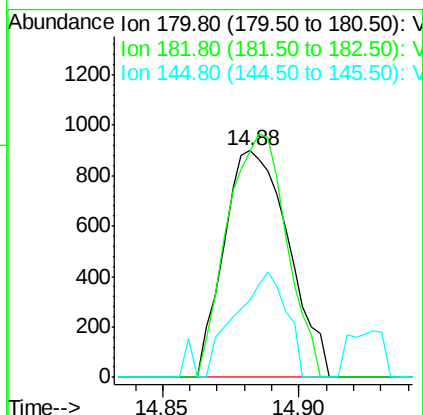
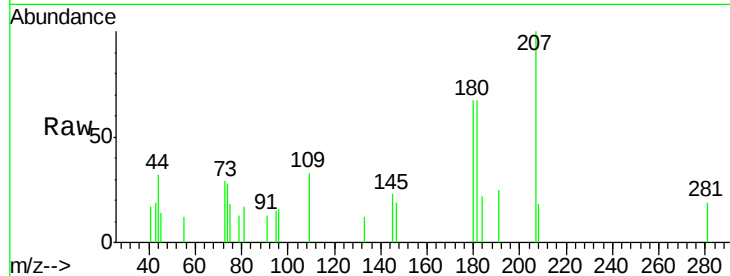




#93
 1,2,4-Trichlorobenzene
 Concen: 0.504 ug/l
 RT: 14.88 min Scan# 4077
 Delta R.T. -0.00 min
 Lab File: VN061500.D
 Acq: 20 May 2020 14:53

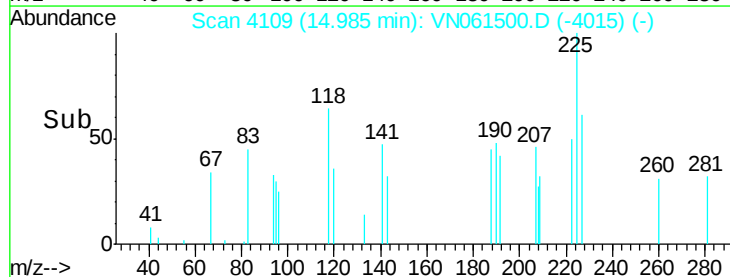
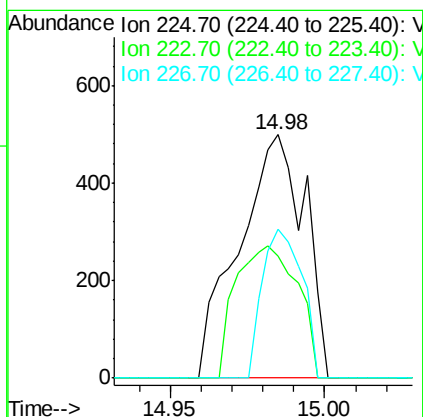
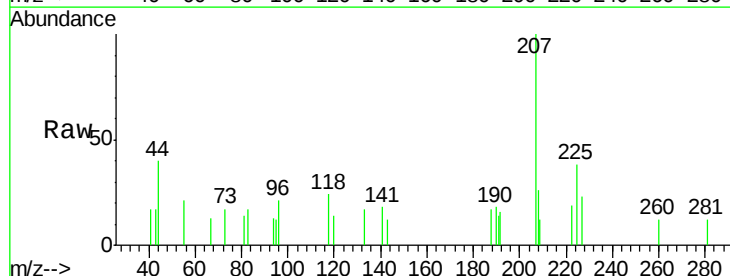
Instrument :
 MSVOA_N
 ClientSampleId :

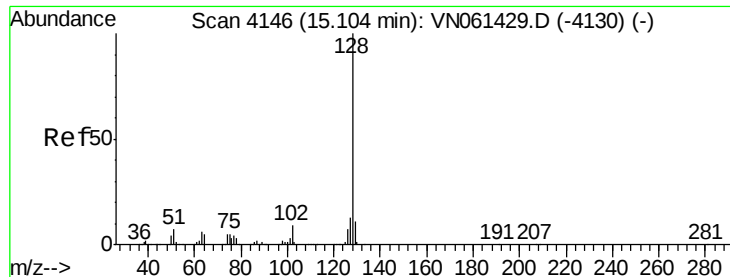
Tot Ion:180 Resp: 1481
 Ion Ratio Lower Upper
 180 100
 182 98.2 47.0 141.0
 145 36.3 16.7 50.0



#94
 Hexachlorobutadiene
 Concen: 0.567 ug/l
 RT: 14.98 min Scan# 4109
 Delta R.T. 0.00 min
 Lab File: VN061500.D
 Acq: 20 May 2020 14:53

Tgt Ion:225 Resp: 740
 Ion Ratio Lower Upper
 225 100
 223 50.9 31.9 95.7
 227 37.0 31.5 94.5





#95

Naphthalene

Concen: 0.957 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. -0.00 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

Instrument :

MSVOA_N

ClientSampleId :

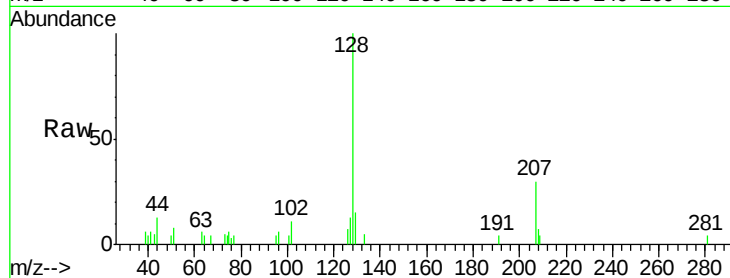
Tot Ion:128 Resp: 8939

Ion Ratio Lower Upper

128 100

127 13.6 10.1 15.1

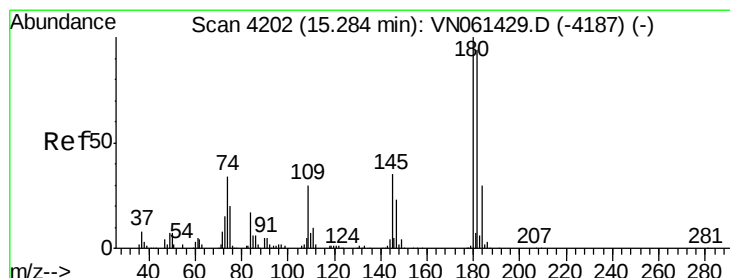
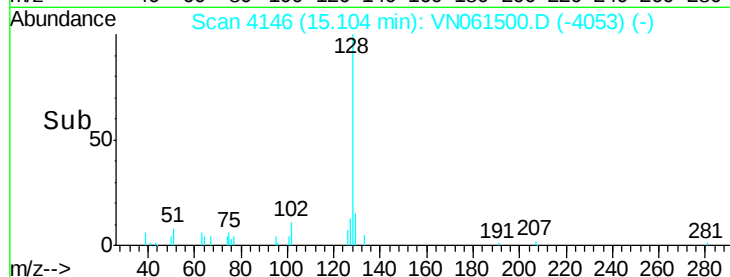
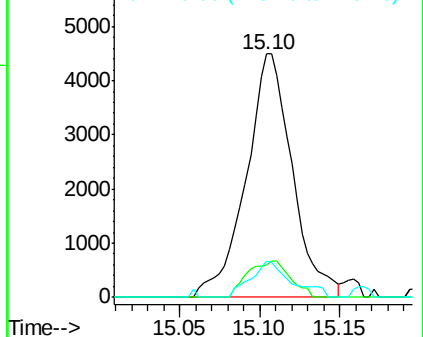
129 11.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.745 ug/l

RT: 15.29 min Scan# 4203

Delta R.T. 0.00 min

Lab File: VN061500.D

Acq: 20 May 2020 14:53

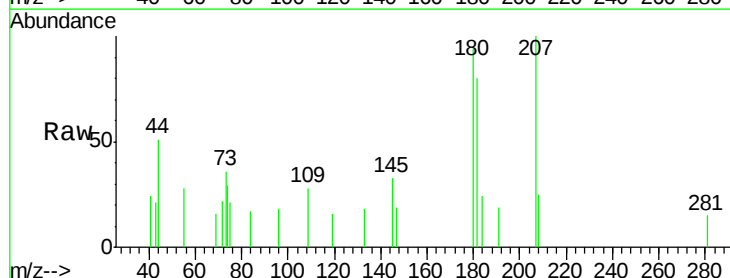
Tgt Ion:180 Resp: 2179

Ion Ratio Lower Upper

180 100

182 77.5 47.8 143.3

145 39.2 17.3 51.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

