

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081920\NOT REVIEWED DATA\
 Data File : VN063012.D
 Acq On : 19 Aug 2020 14:39
 Operator : JC/MD
 Sample : L3718-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-GW-238-240

Quant Time: Aug 19 17:34:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

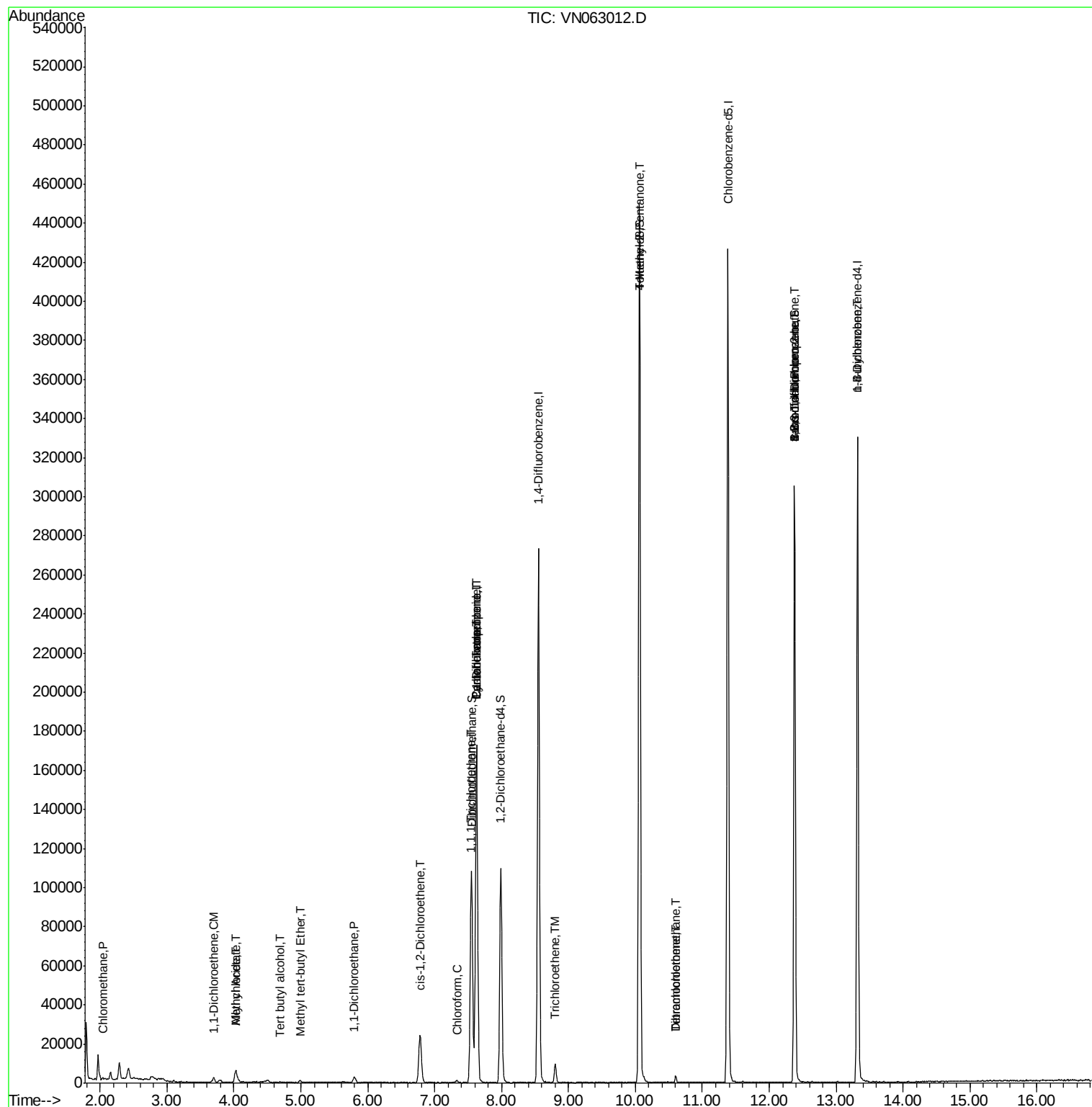
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	148859	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	247881	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	258898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	94446	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	94260	53.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.86%	
35) Dibromofluoromethane	7.55	113	84404	52.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.52%	
50) Toluene-d8	10.06	98	320075	51.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.18%	
62) 4-Bromofluorobenzene	12.38	95	108304	49.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.94%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	889	0.436	ug/l #	85
11) Tert butyl alcohol	4.69	59	154	0.616	ug/l #	74
12) 1,1-Dichloroethene	3.69	96	1329	1.052	ug/l #	80
14) Allyl chloride	4.02	41	771	0.346	ug/l #	63
16) Acetone	3.79	43	1454	Below Cal		98
18) Methyl Acetate	4.03	43	3080	1.757	ug/l #	52
19) Methyl tert-butyl Ether	4.99	73	1658	0.376	ug/l #	53
20) Methylene Chloride	4.50	84	513	Below Cal	#	60
24) 1,1-Dichloroethane	5.80	63	5627	1.992	ug/l #	85
27) cis-1,2-Dichloroethene	6.78	96	16188	9.767	ug/l	91
30) Chloroform	7.33	83	1638	0.576	ug/l	99
31) Cyclohexane	7.63	56	2661	1.023	ug/l #	1
32) 1,1,1-Trichloroethane	7.53	97	1419	0.611	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	10255	4.695	ug/l #	48
38) Carbon Tetrachloride	7.63	117	13131	5.954	ug/l #	17
44) Trichloroethene	8.81	130	4010	2.327	ug/l	92
51) 4-Methyl-2-Pentanone	10.06	43	1257	0.586	ug/l #	1
60) Dibromochloromethane	10.61	129	839	0.424	ug/l #	11
64) Tetrachloroethene	10.61	164	948	0.557	ug/l	95
71) Bromoform	12.38	173	962	0.598	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	51958	28.302	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	51958	77.731	ug/l #	15
89) n-Butylbenzene	13.32	91	124	2.793	ug/l #	34

(#) = 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: VN063012.D

Acq: 19 Aug 2020 14:39

Instrument :

MSVOA_N

ClientSampleId :

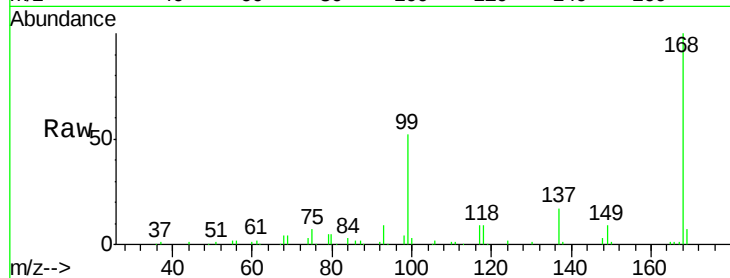
BP-VPB181-GW-238-240

Tgt Ion: 168 Resp: 148859

Ion Ratio Lower Upper

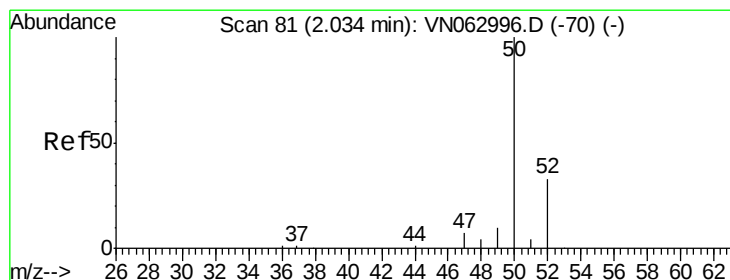
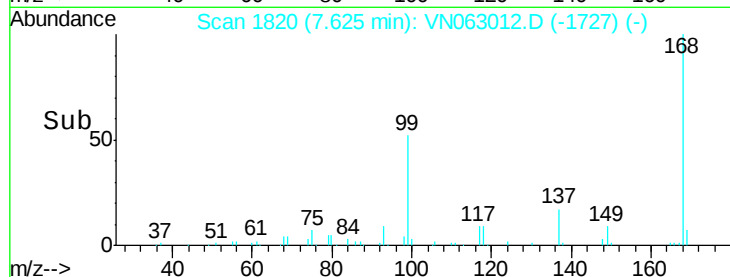
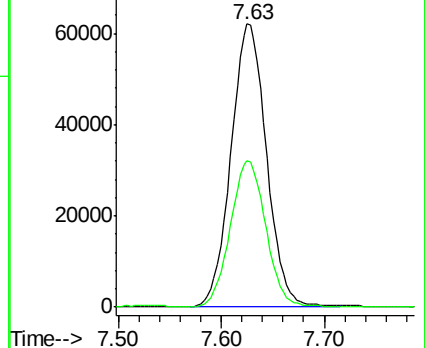
168 100

99 51.7 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.436 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN063012.D

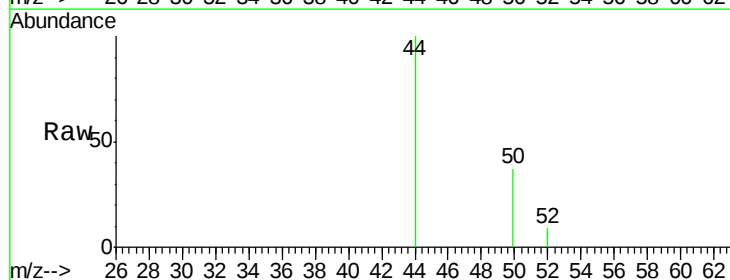
Acq: 19 Aug 2020 14:39

Tgt Ion: 50 Resp: 889

Ion Ratio Lower Upper

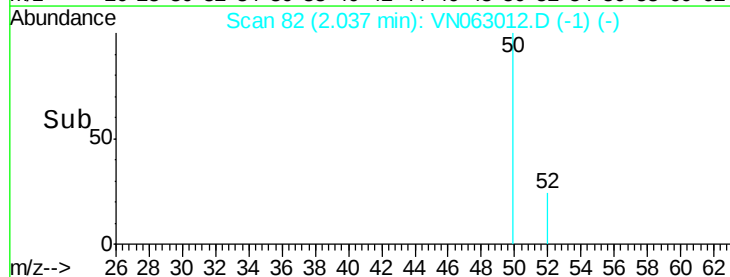
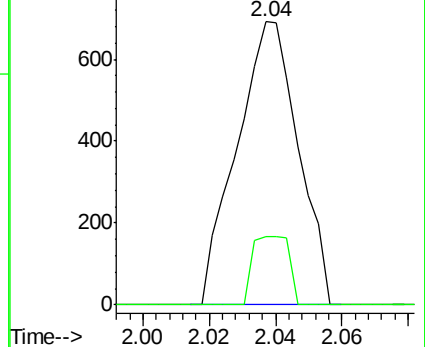
50 100

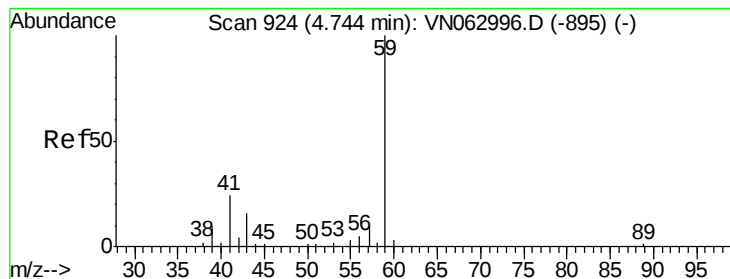
52 24.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



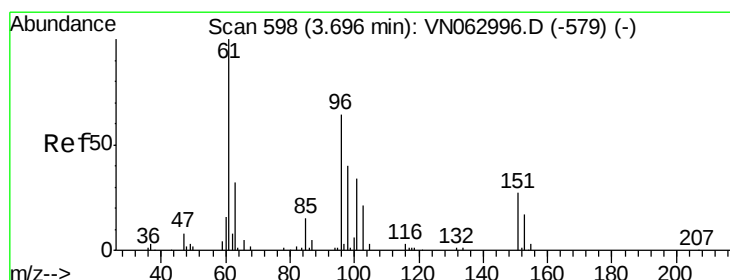
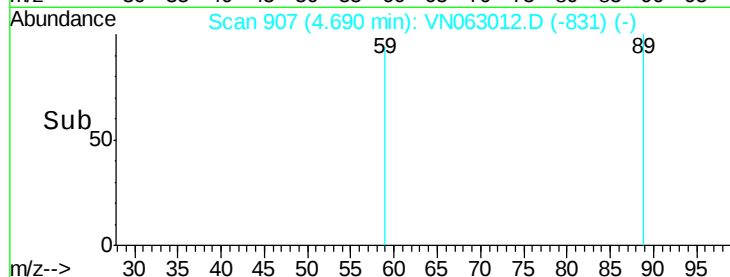
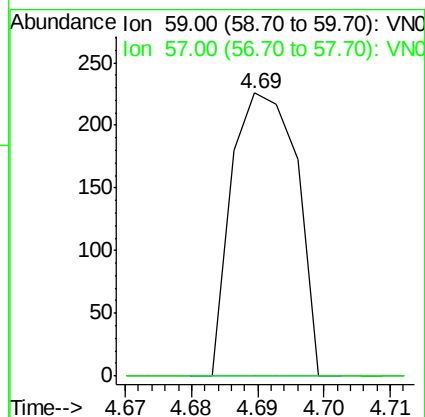
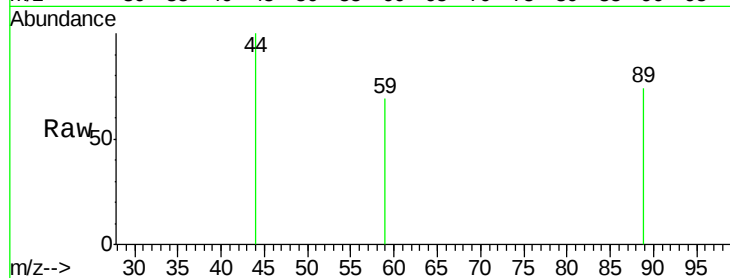


#11

Tert butyl alcohol
 Concen: 0.616 ug/l
 RT: 4.69 min Scan# 907
 Delta R.T. -0.05 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

Instrument :
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 BP-VPB181-GW-238-240

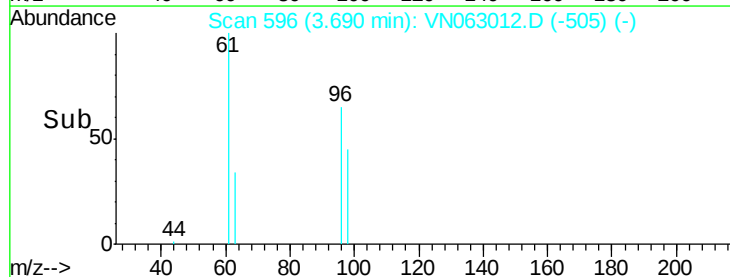
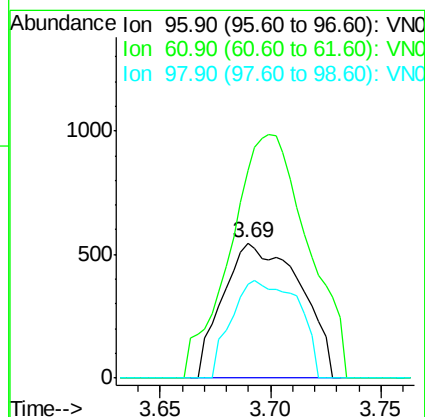
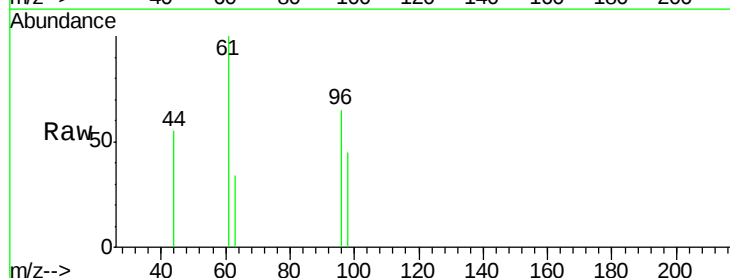
Tgt Ion: 59 Resp: 154
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

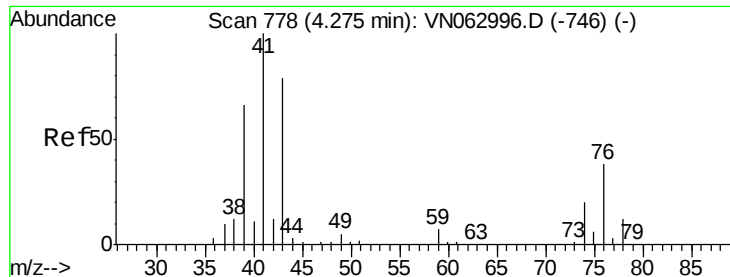


#12

1,1-Dichloroethene
 Concen: 1.052 ug/l
 RT: 3.69 min Scan# 596
 Delta R.T. -0.01 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

Tgt Ion: 96 Resp: 1329
 Ion Ratio Lower Upper
 96 100
 61 124.6 125.5 188.3#
 98 69.7 50.4 75.6

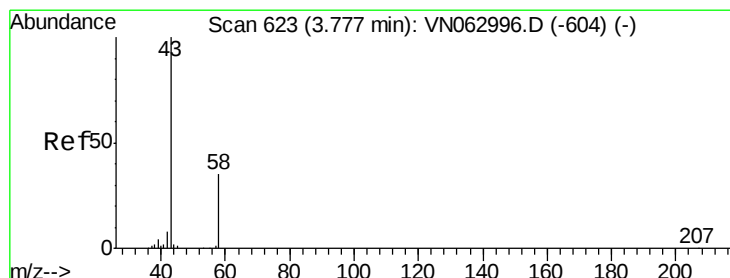
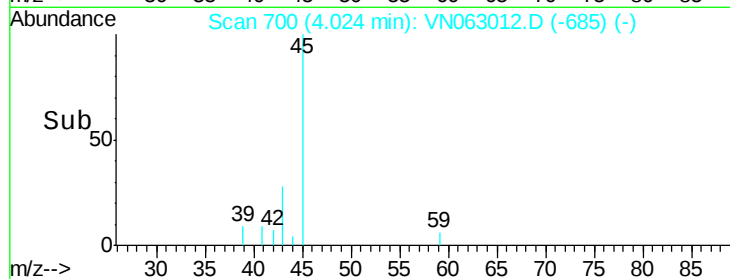
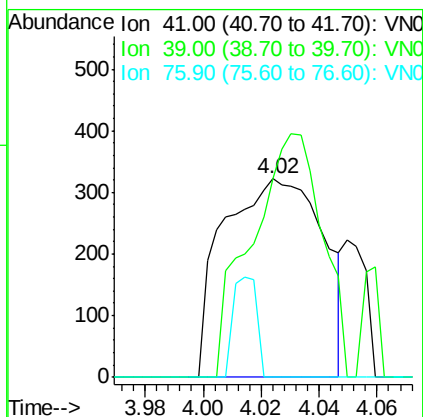
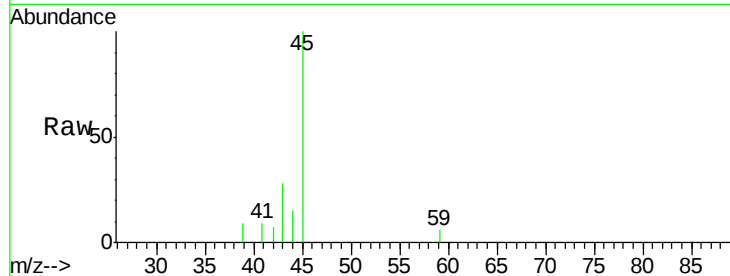




#14
 Allyl chloride
 Concen: 0.346 ug/l
 RT: 4.02 min Scan# 700
 Delta R.T. -0.25 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

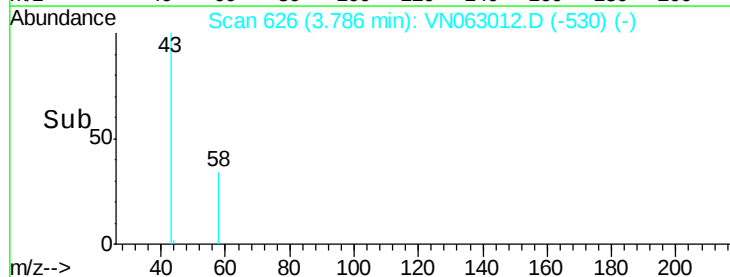
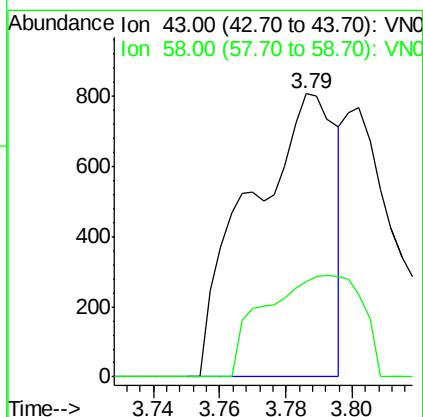
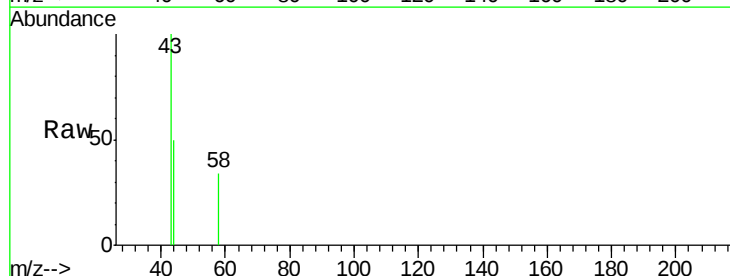
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-GW-238-240

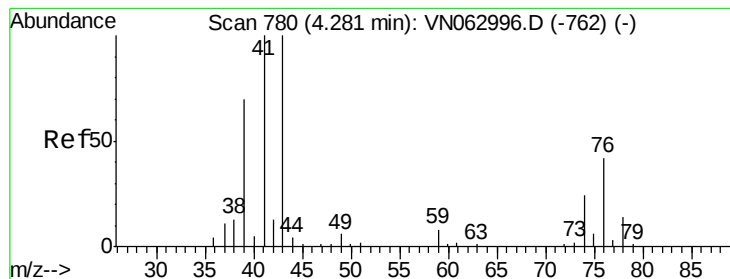
Tgt Ion: 41 Resp: 771
 Ion Ratio Lower Upper
 41 100
 39 86.8 47.9 71.9#
 76 11.8 27.0 40.6#



#16
 Acetone
 Concen: Below Cal
 RT: 3.79 min Scan# 626
 Delta R.T. 0.01 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

Tgt Ion: 43 Resp: 1454
 Ion Ratio Lower Upper
 43 100
 58 33.8 27.8 41.6





#18

Methyl Acetate

Concen: 1.757 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.25 min

Lab File: VN063012.D

Acq: 19 Aug 2020 14:39

Instrument :

MSVOA_N

ClientSampleId :

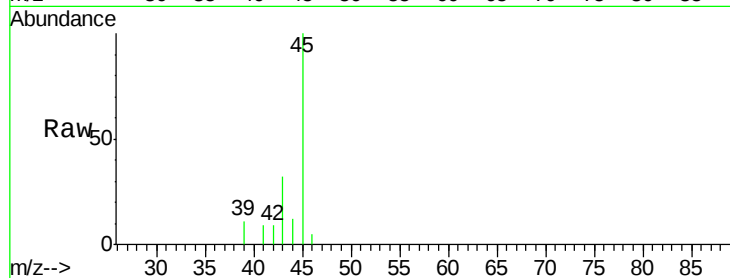
BP-VPB181-GW-238-240

Tgt Ion: 43 Resp: 3080

Ion Ratio Lower Upper

43 100

74 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VN063012.D (-687) (-)

Ion 74.00 (73.70 to 74.70): VN063012.D (-687) (-)

4.03

1200

1000

800

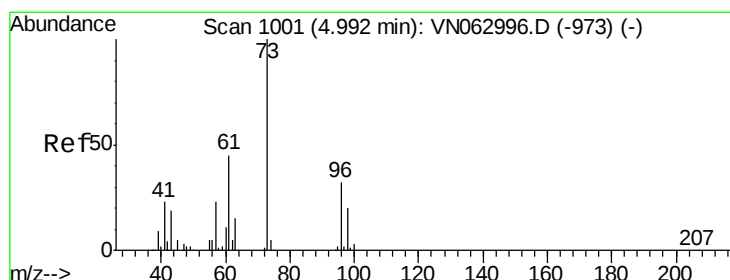
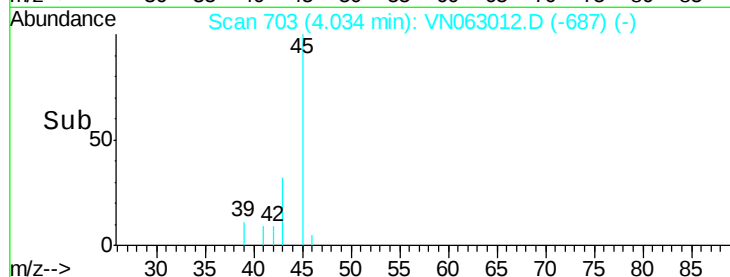
600

400

200

0

Time--> 3.95 4.00 4.05 4.10



#19

Methyl tert-butyl Ether

Concen: 0.376 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN063012.D

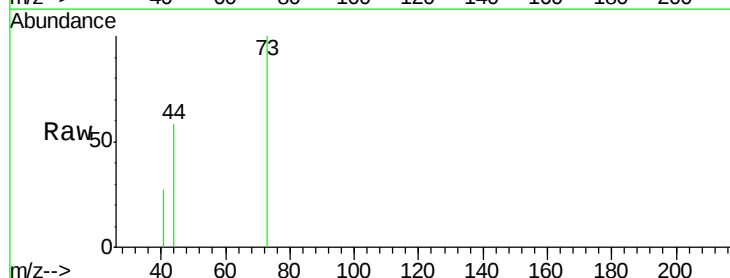
Acq: 19 Aug 2020 14:39

Tgt Ion: 73 Resp: 1658

Ion Ratio Lower Upper

73 100

57 0.0 18.1 27.1#



Abundance Ion 73.00 (72.70 to 73.70): VN063012.D (-908) (-)

Ion 57.00 (56.70 to 57.70): VN063012.D (-908) (-)

4.99

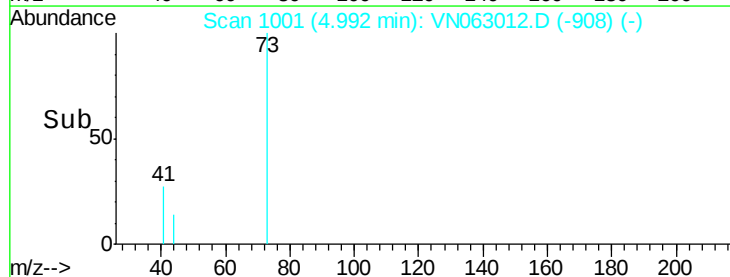
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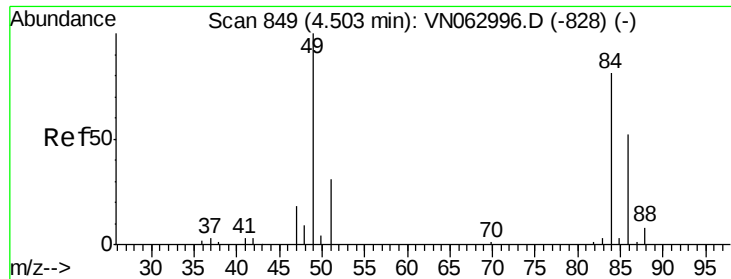
400

200

0

Time--> 4.95 5.00 5.05

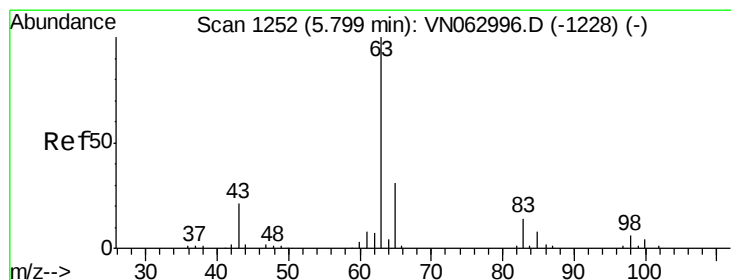
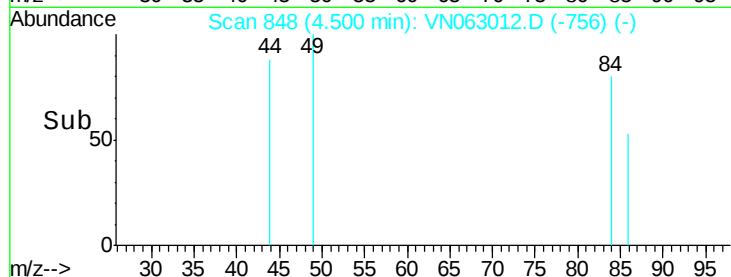
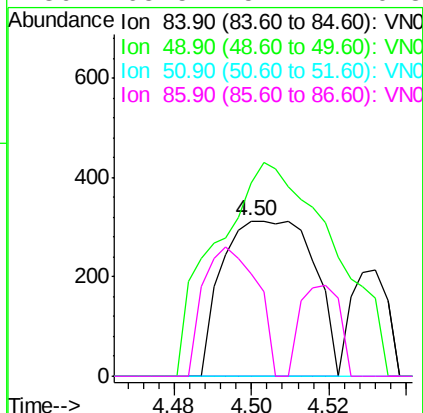
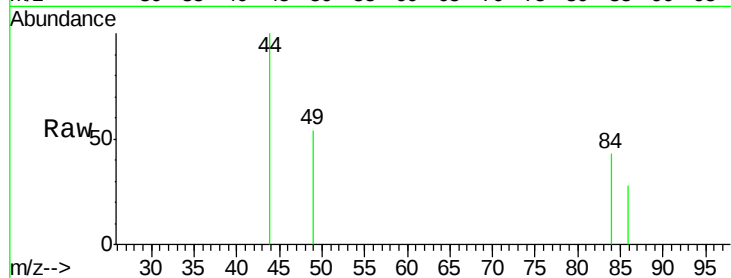




#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

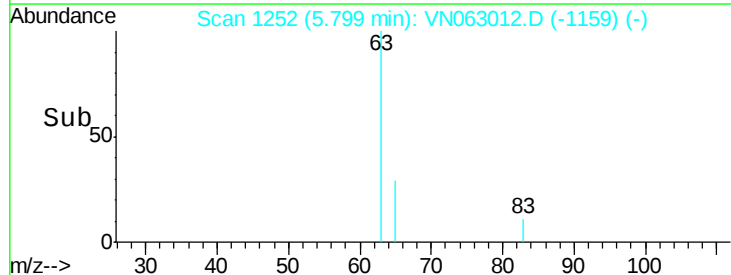
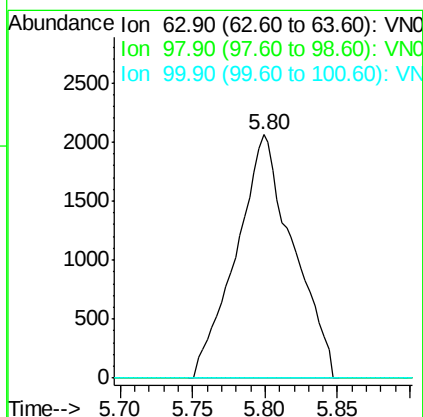
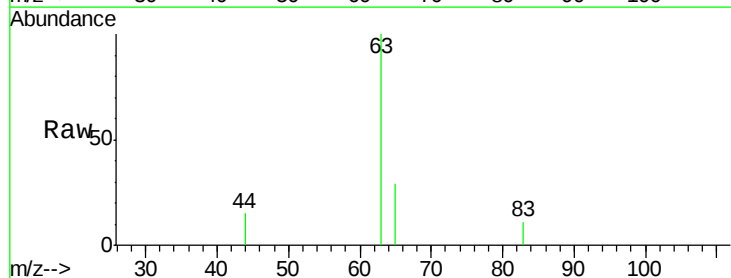
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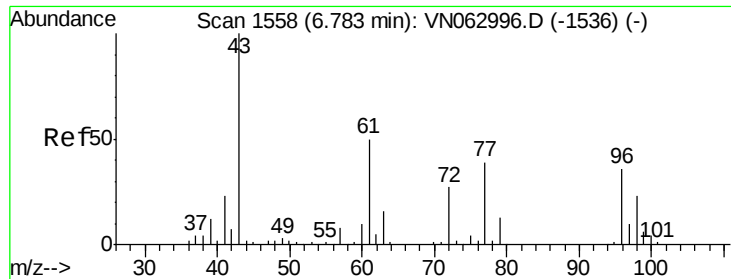
Tgt Ion: 84 Resp: 513
Ion Ratio Lower Upper
84 100
49 63.6 98.7 148.1#
51 0.0 30.8 46.2#
86 65.5 51.2 76.8



#24
1,1-Dichloroethane
Concen: 1.992 ug/l
RT: 5.80 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Tgt Ion: 63 Resp: 5627
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.7#
100 0.0 2.0 5.8#

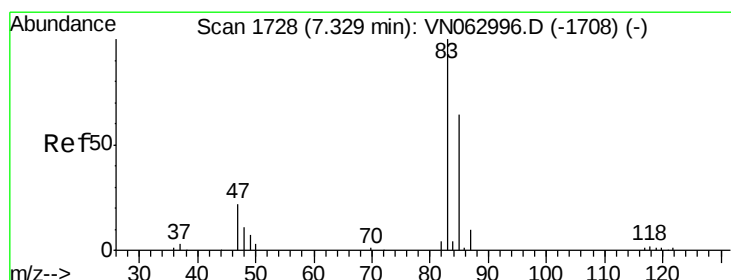
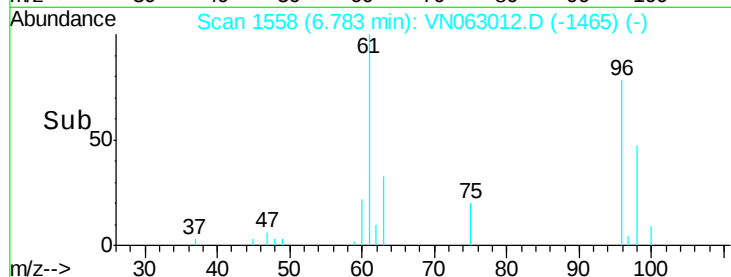
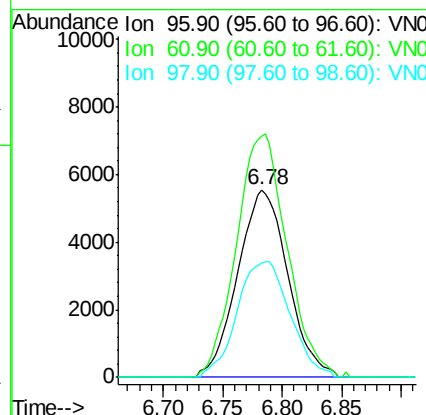
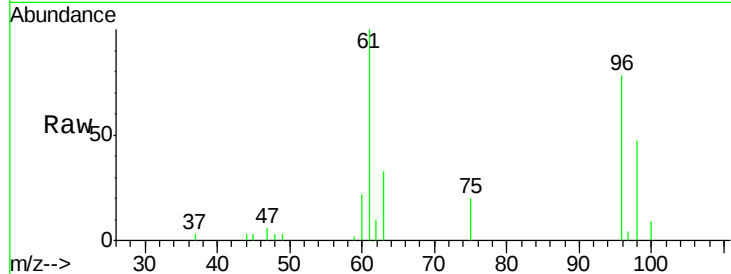




#27
 cis-1,2-Dichloroethene
 Concen: 9.767 ug/l
 RT: 6.78 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

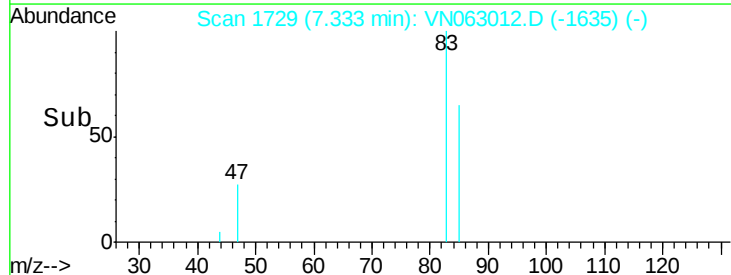
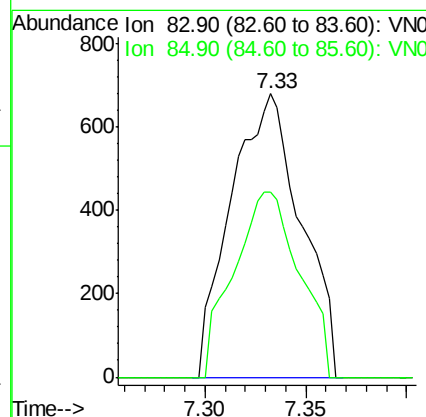
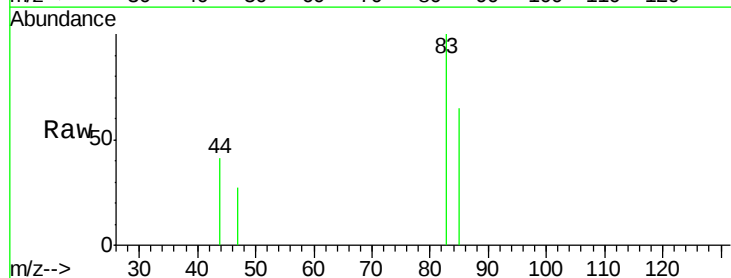
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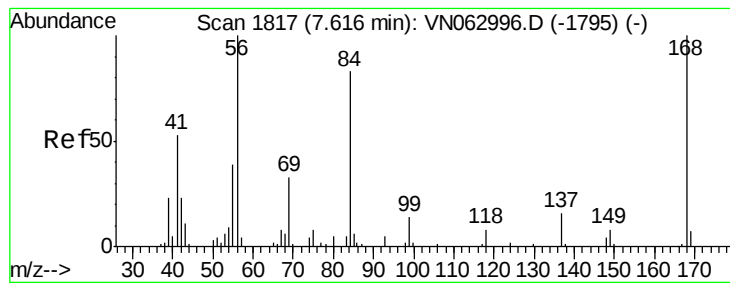
Tgt Ion: 96 Resp: 16188
 Ion Ratio Lower Upper
 96 100
 61 130.5 0.0 292.8
 98 65.3 0.0 130.6



#30
 Chloroform
 Concen: 0.576 ug/l
 RT: 7.33 min Scan# 1729
 Delta R.T. 0.00 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

Tgt Ion: 83 Resp: 1638
 Ion Ratio Lower Upper
 83 100
 85 65.5 51.5 77.3





#31

Cyclohexane

Concen: 1.023 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN063012.D

Acq: 19 Aug 2020 14:39

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-238-240

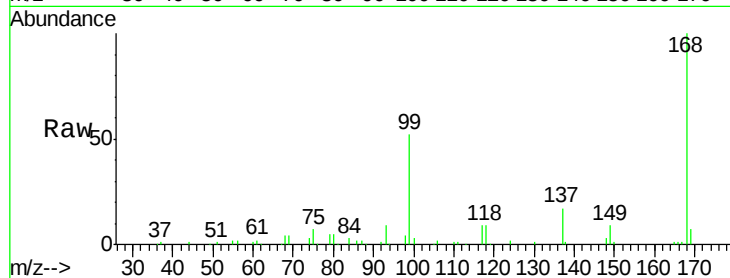
Tgt Ion: 56 Resp: 2661

Ion Ratio Lower Upper

56 100

69 195.5 26.6 40.0#

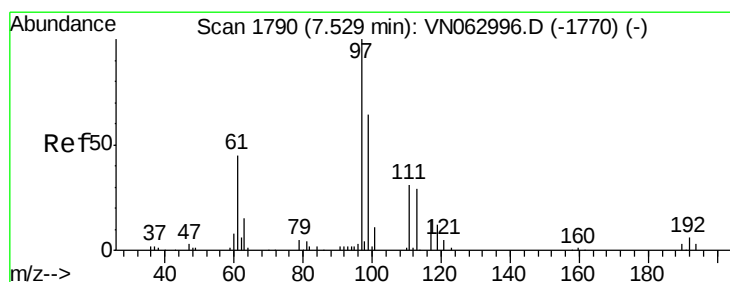
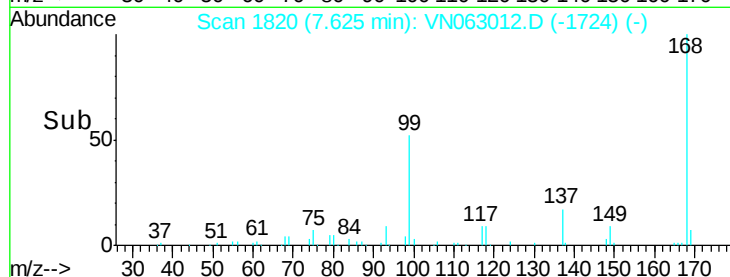
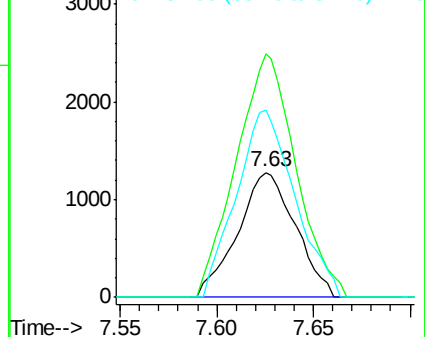
84 150.4 66.4 99.6#



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: 0.611 ug/l

RT: 7.53 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VN063012.D

Acq: 19 Aug 2020 14:39

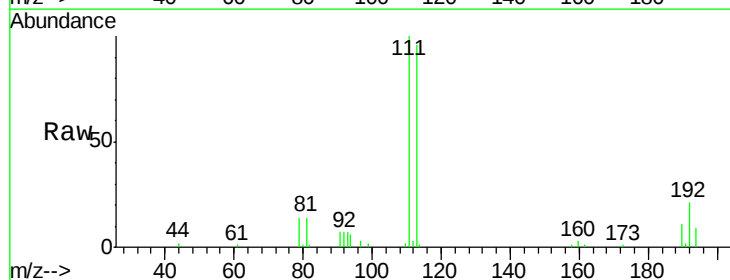
Tgt Ion: 97 Resp: 1419

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0#

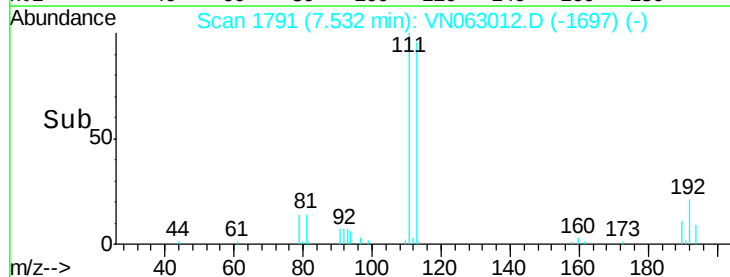
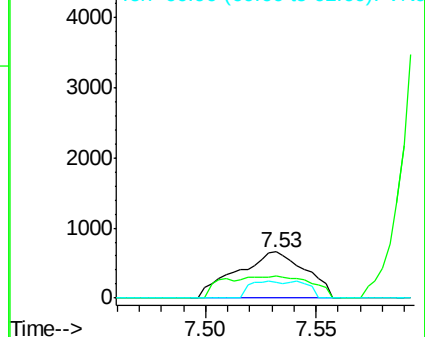
61 17.8 36.2 54.4#

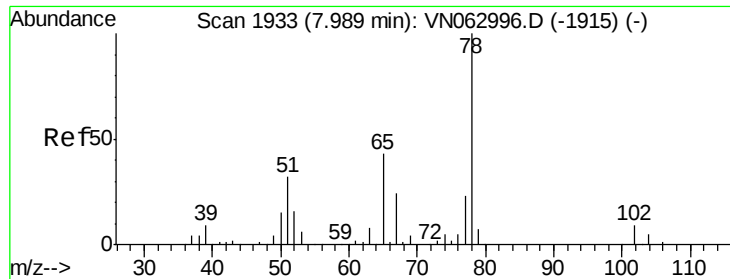


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

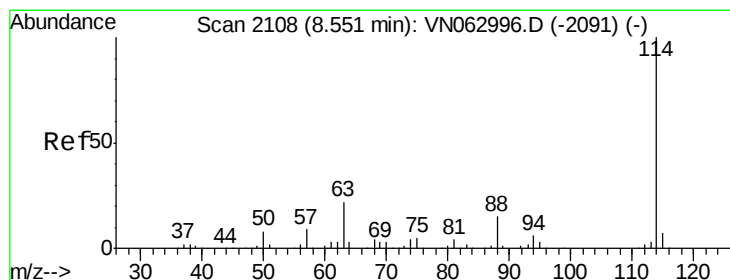
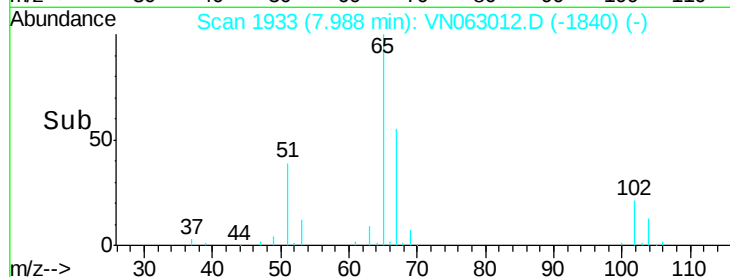
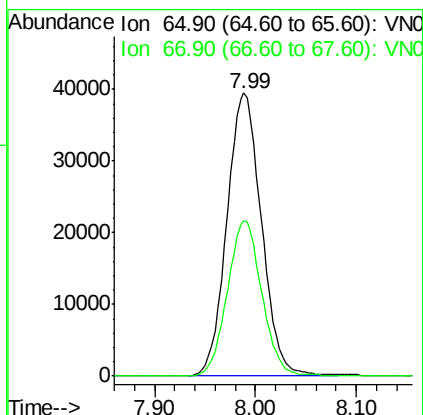
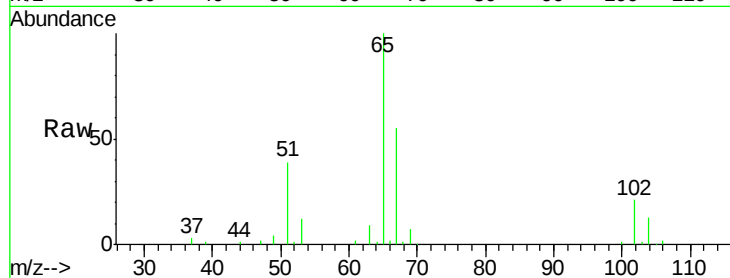




#33
 1,2-Dichloroethane-d4
 Concen: 53.428 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

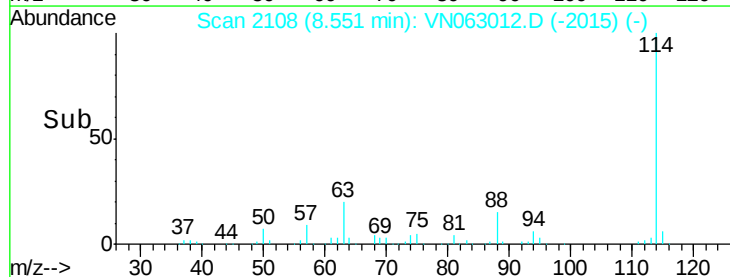
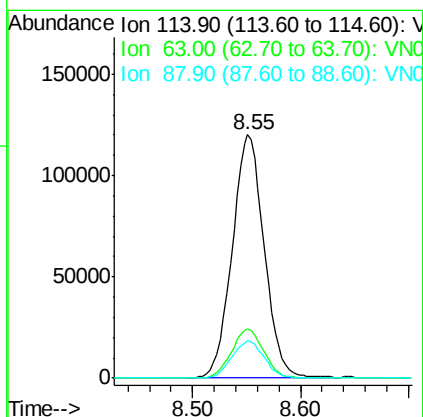
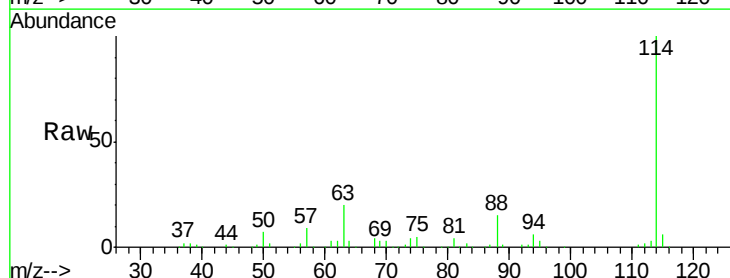
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-GW-238-240

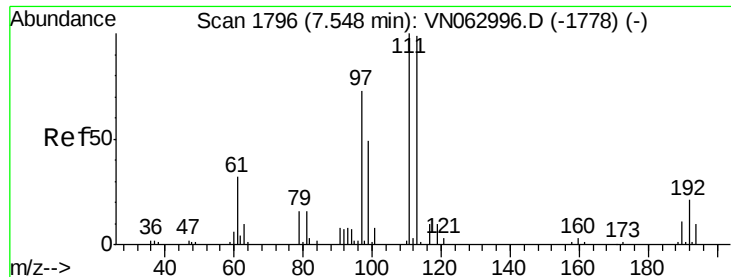
Tgt Ion: 65 Resp: 94260
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

Tgt Ion: 114 Resp: 247881
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 43.2
 88 15.2 0.0 30.6

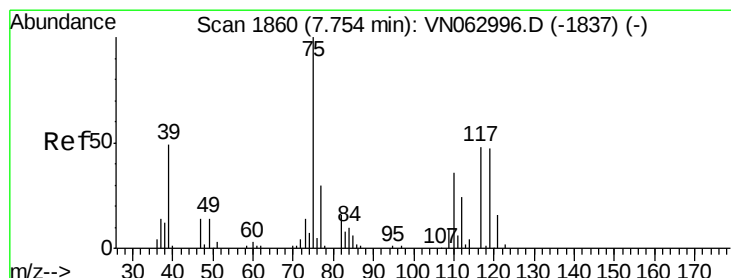
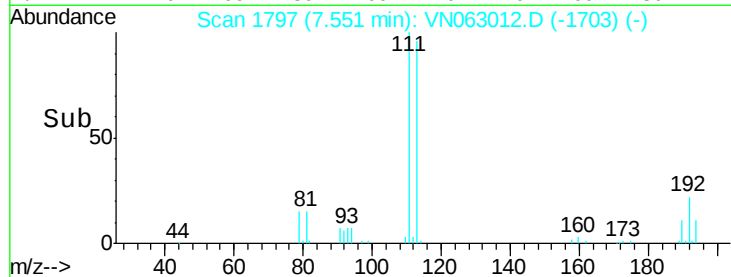
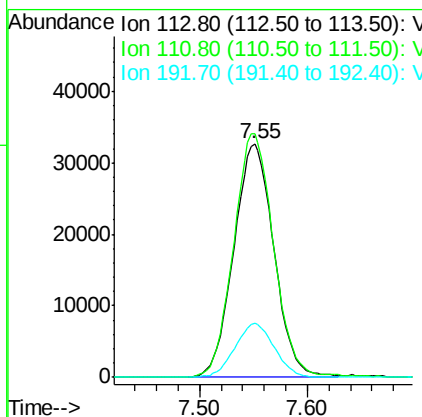
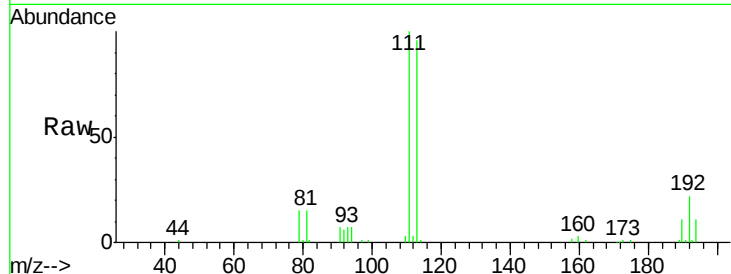




#35
 Dibromofluoromethane
 Concen: 52.257 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

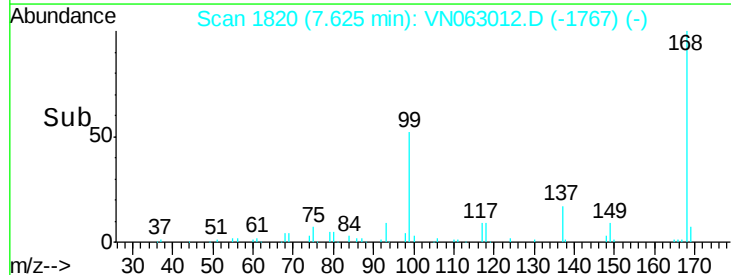
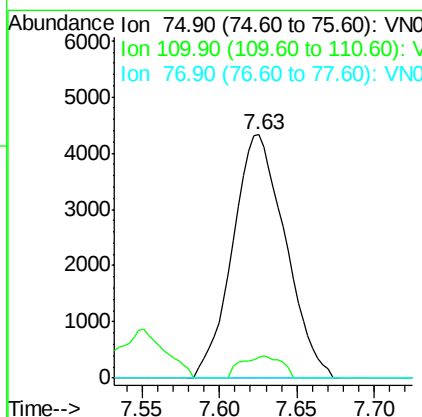
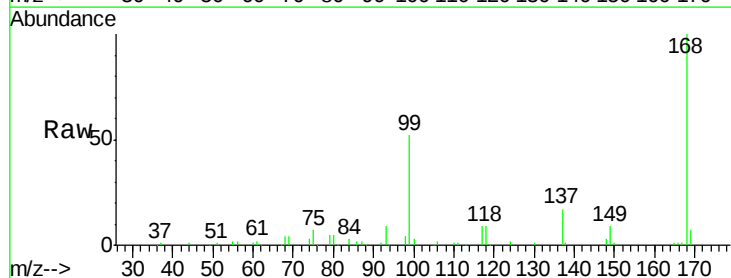
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-GW-238-240

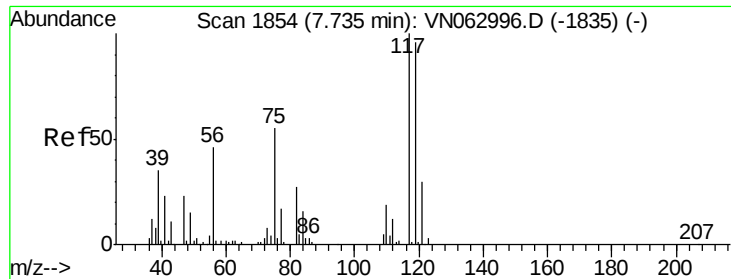
Tgt Ion:113 Resp: 84404
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.7 122.5
 192 22.6 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 4.695 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

Tgt Ion: 75 Resp: 10255
 Ion Ratio Lower Upper
 75 100
 110 6.9 17.5 52.6#
 77 0.0 24.2 36.4#

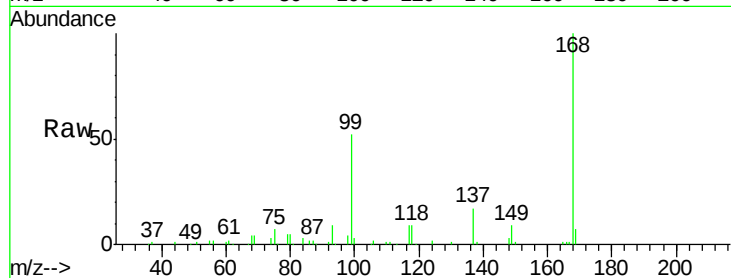




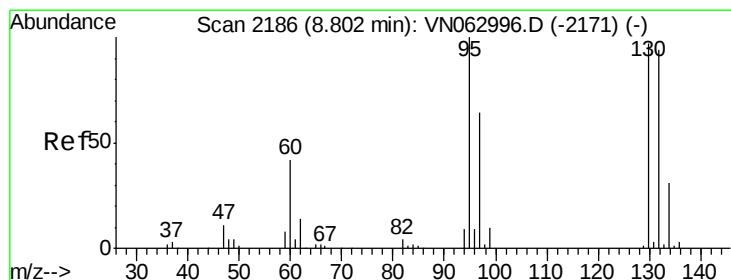
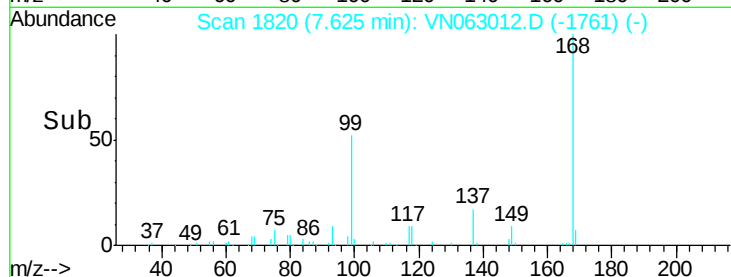
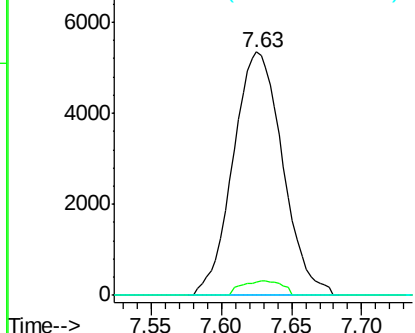
#38
Carbon Tetrachloride
Concen: 5.954 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-GW-238-240

Tgt Ion:117 Resp: 13131
Ion Ratio Lower Upper
117 100
119 5.5 76.2 114.4#
121 0.0 24.2 36.2#

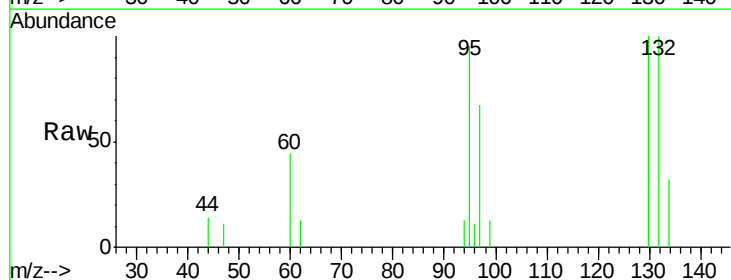


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

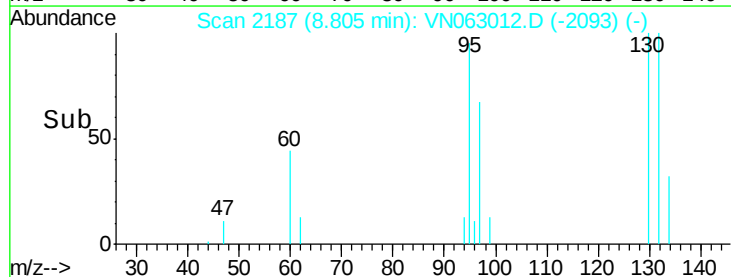
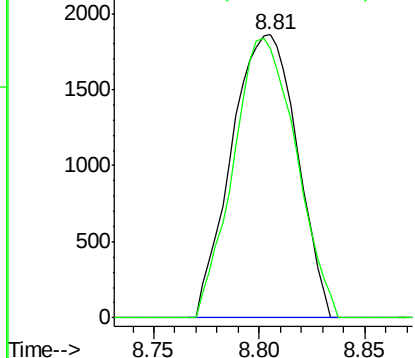


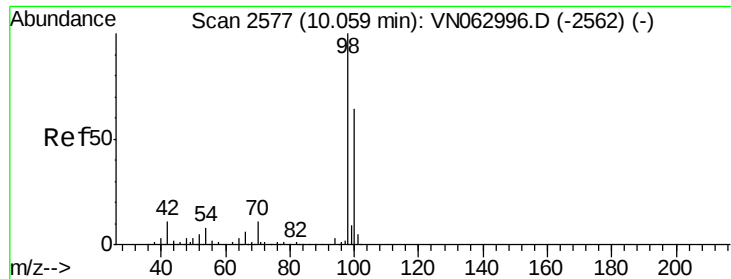
#44
Trichloroethene
Concen: 2.327 ug/l
RT: 8.81 min Scan# 2187
Delta R.T. 0.00 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Tgt Ion:130 Resp: 4010
Ion Ratio Lower Upper
130 100
95 94.9 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V

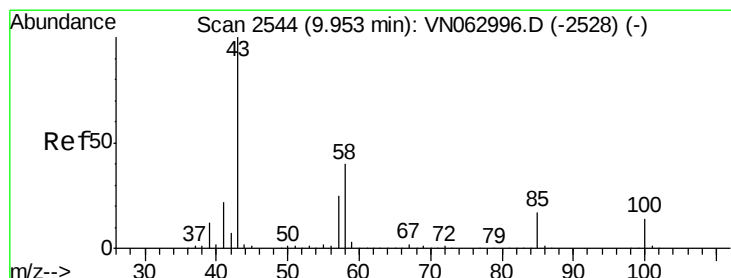
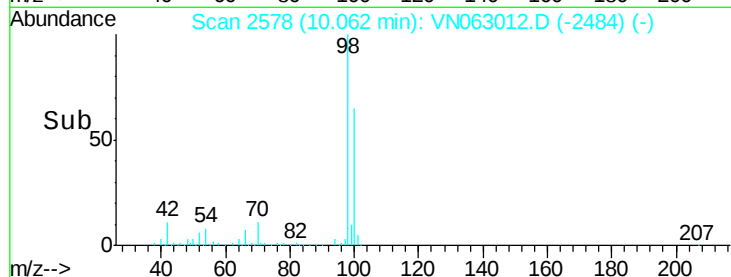
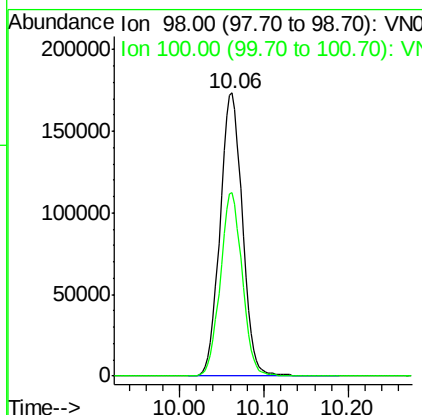
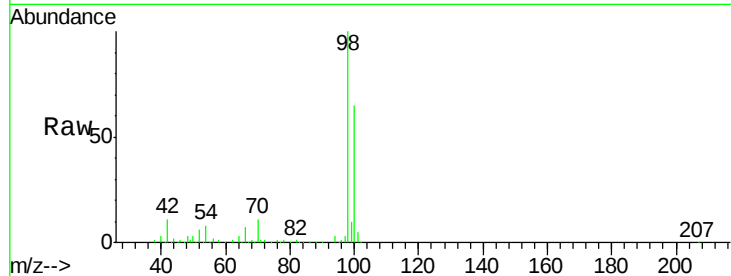




#50
Toluene-d8
Concen: 51.592 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.00 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

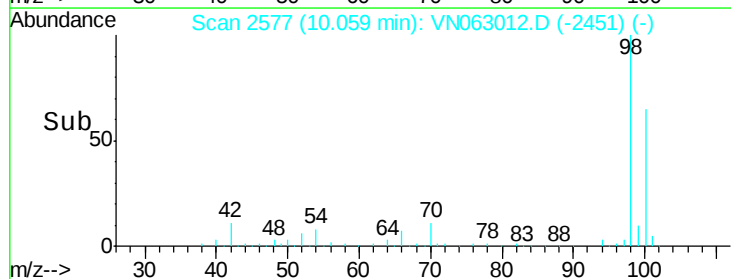
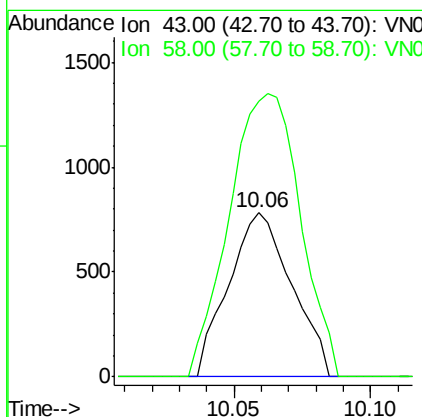
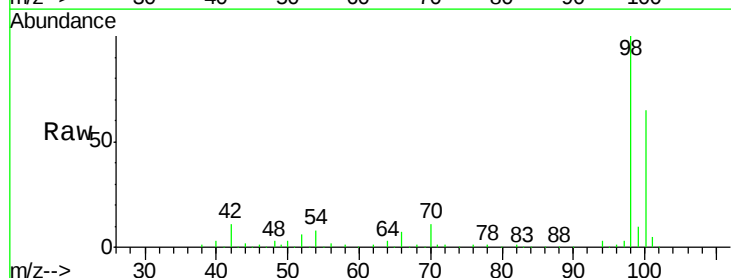
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-GW-238-240

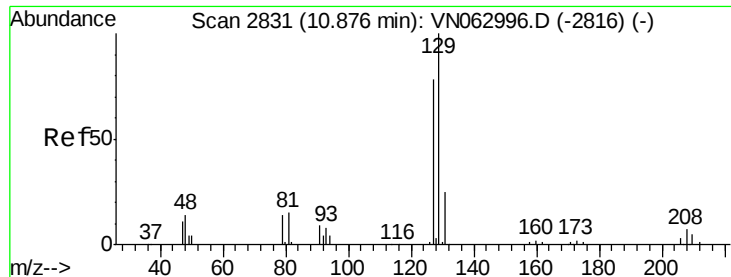
Tgt Ion: 98 Resp: 320075
Ion Ratio Lower Upper
98 100
100 63.5 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.586 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.11 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Tgt Ion: 43 Resp: 1257
Ion Ratio Lower Upper
43 100
58 194.1 32.2 48.2#

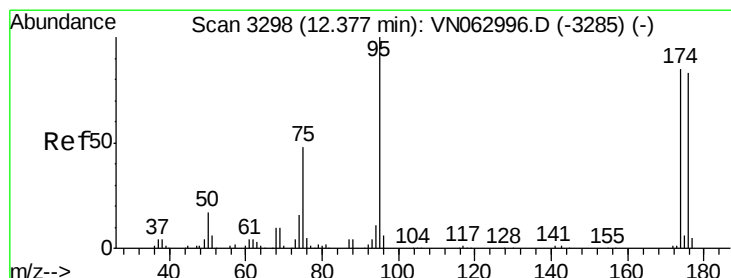
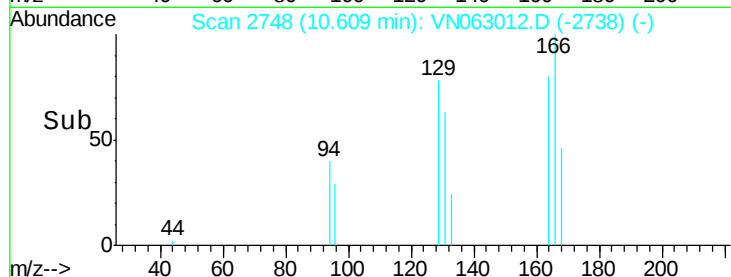
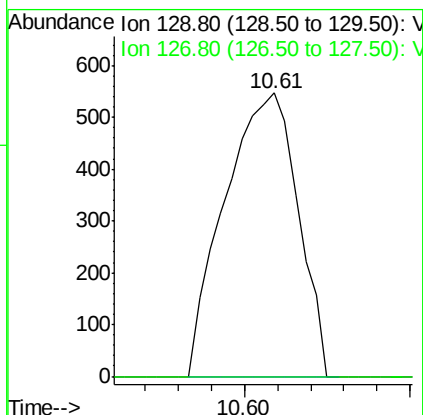
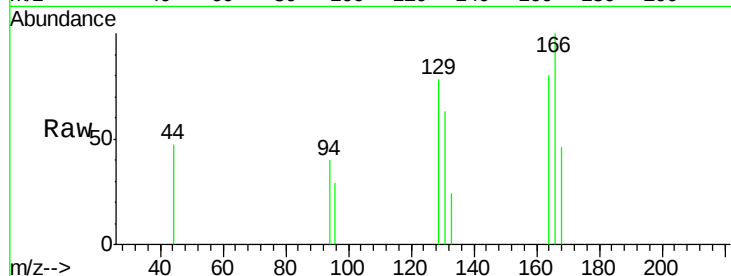




#60
Dibromochloromethane
Concen: 0.424 ug/l
RT: 10.61 min Scan# 2748
Delta R.T. -0.27 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

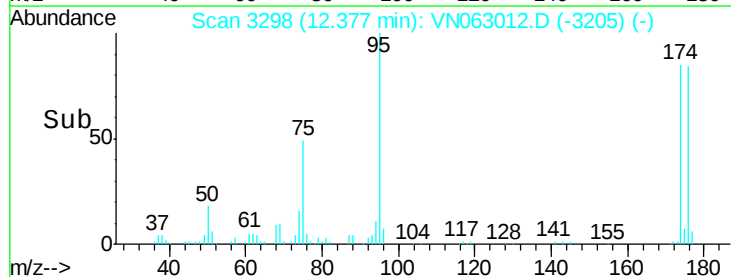
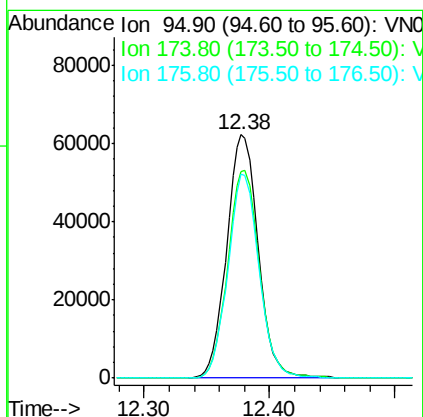
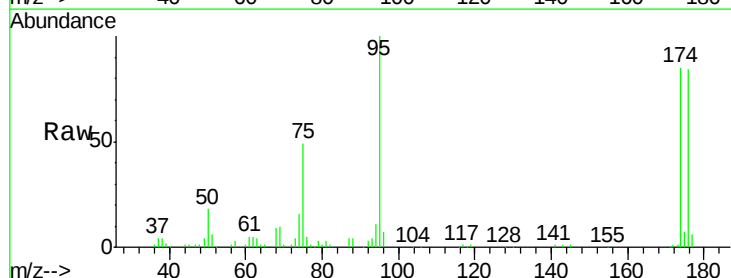
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-GW-238-240

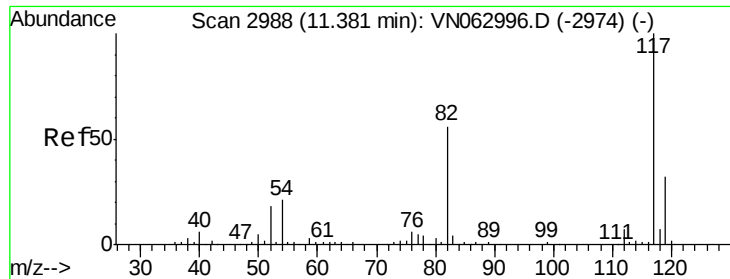
Tgt Ion: 129 Resp: 839
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 49.470 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Tgt Ion: 95 Resp: 108304
Ion Ratio Lower Upper
95 100
174 86.5 0.0 170.8
176 82.9 0.0 164.8

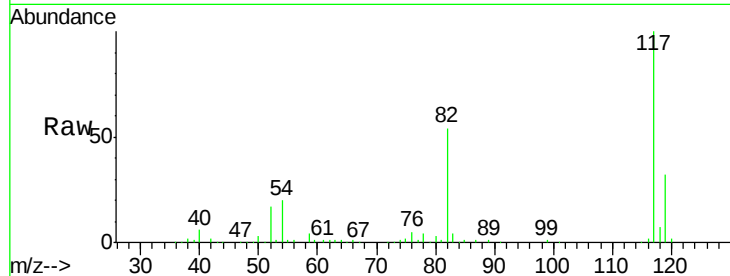




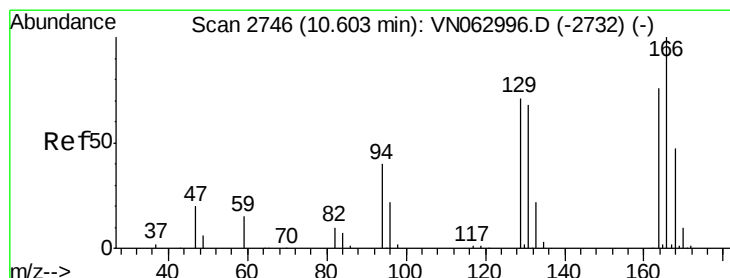
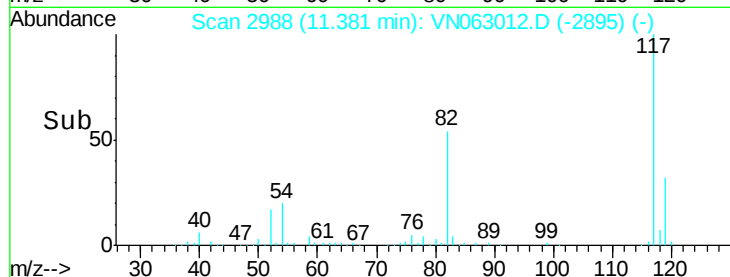
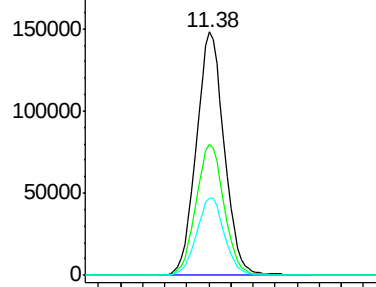
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-GW-238-240

Tgt Ion:117 Resp: 258898
Ion Ratio Lower Upper
117 100
82 53.6 44.5 66.7
119 31.9 25.5 38.3

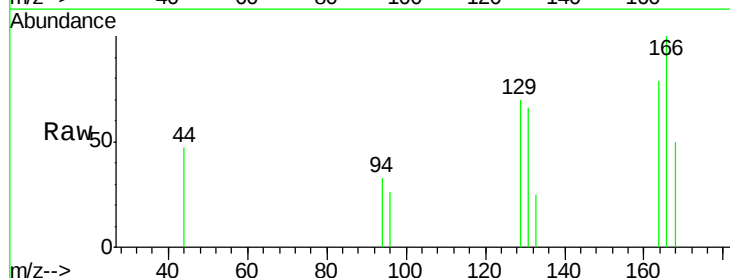


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

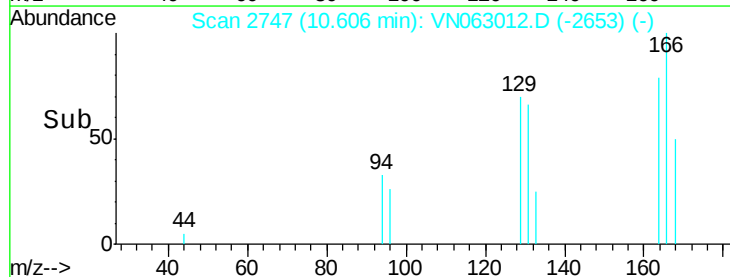
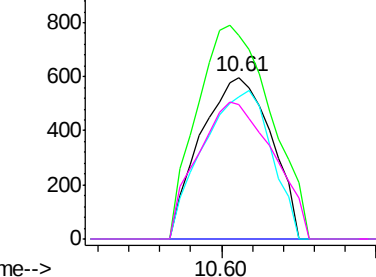


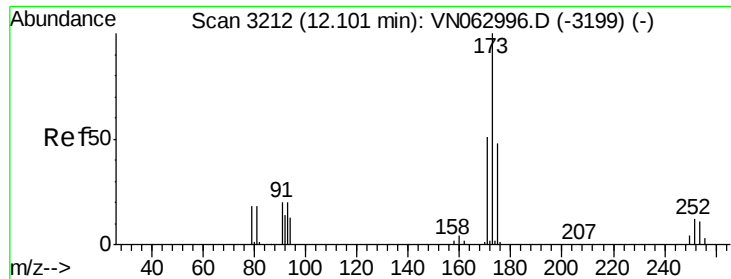
#64
Tetrachloroethene
Concen: 0.557 ug/l
RT: 10.61 min Scan# 2747
Delta R.T. 0.00 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Tgt Ion:164 Resp: 948
Ion Ratio Lower Upper
164 100
166 125.8 105.0 157.6
129 87.9 74.7 112.1
131 83.1 71.0 106.4



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

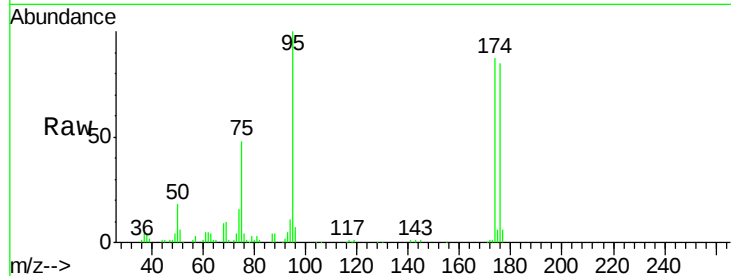




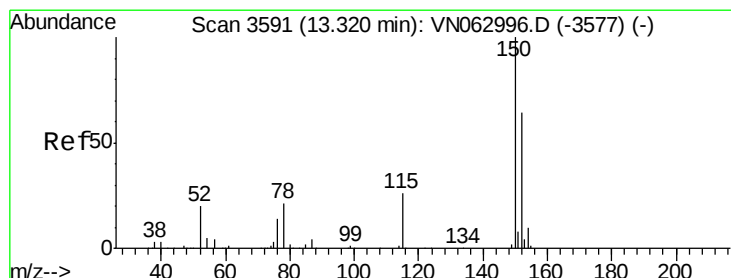
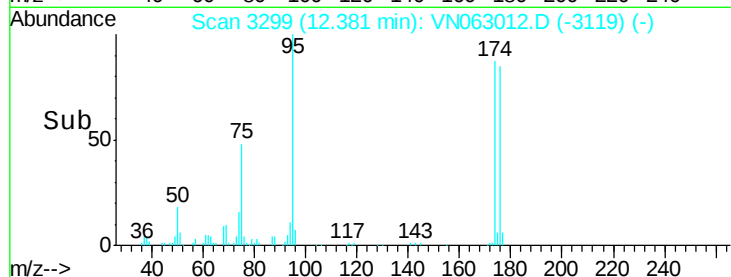
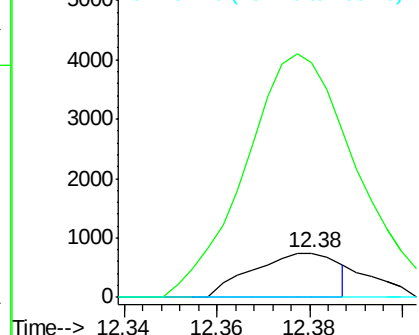
#71
Bromoform
Concen: 0.598 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-GW-238-240

Tgt Ion:173 Resp: 962
Ion Ratio Lower Upper
173 100
175 577.8 24.3 72.8#
254 0.0 0.0 0.0

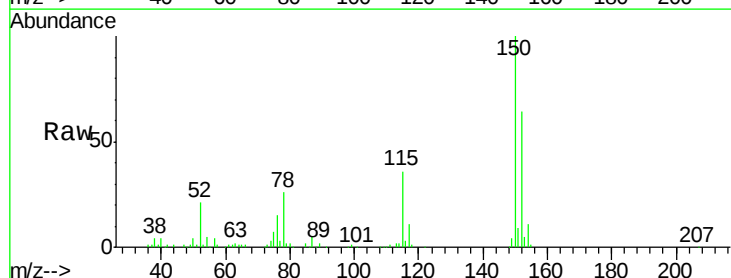


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

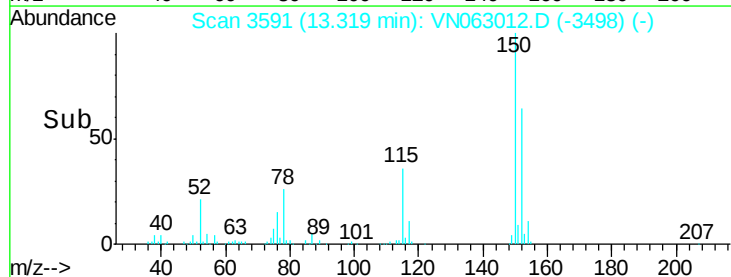
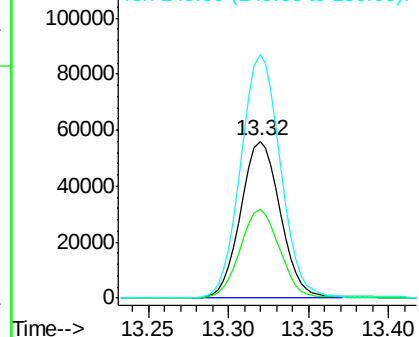


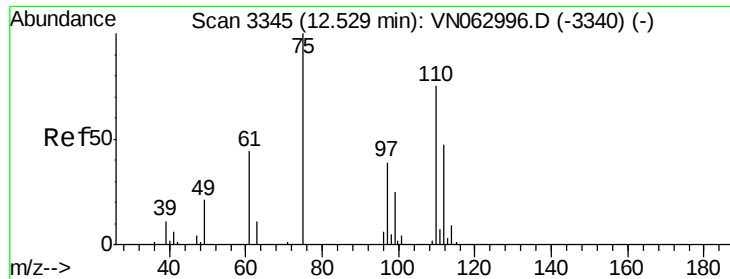
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. -0.00 min
Lab File: VN063012.D
Acq: 19 Aug 2020 14:39

Tgt Ion:152 Resp: 94446
Ion Ratio Lower Upper
152 100
115 56.7 28.7 86.3
150 157.1 0.0 348.8



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

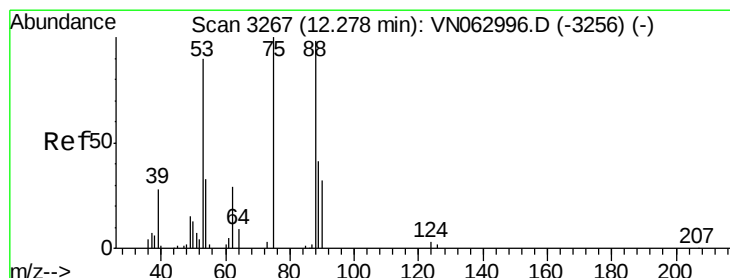
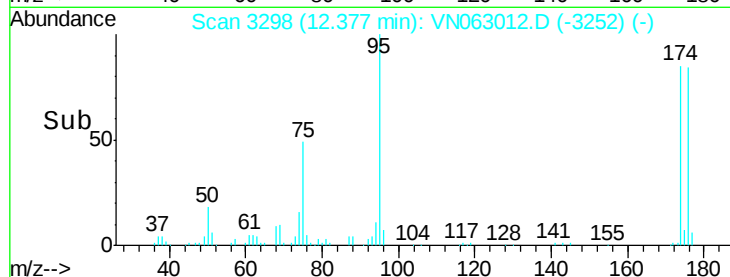
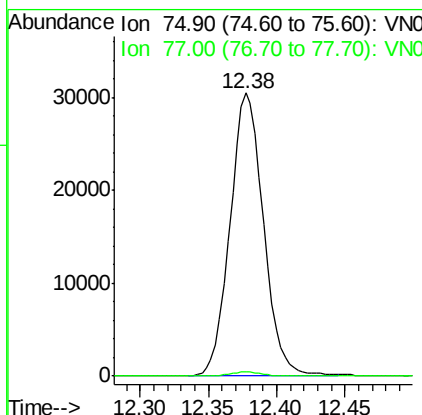
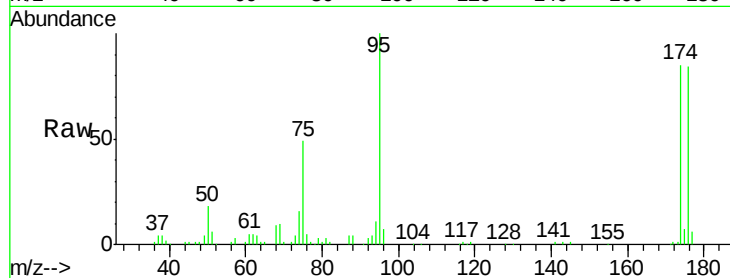




#76
 1,2,3-Trichloropropane
 Concen: 28.302 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

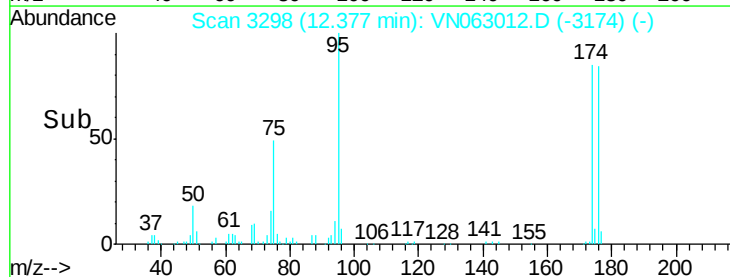
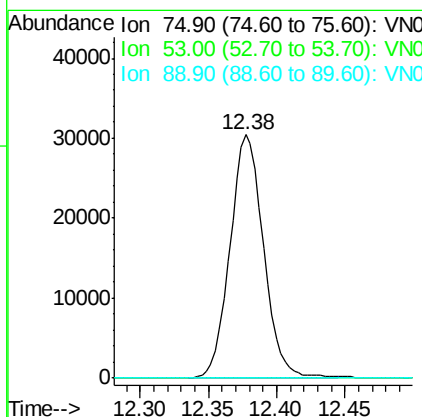
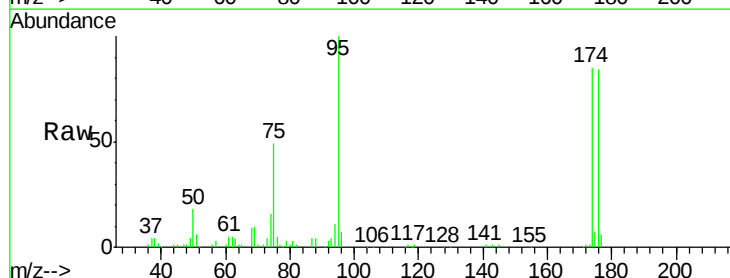
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-GW-238-240

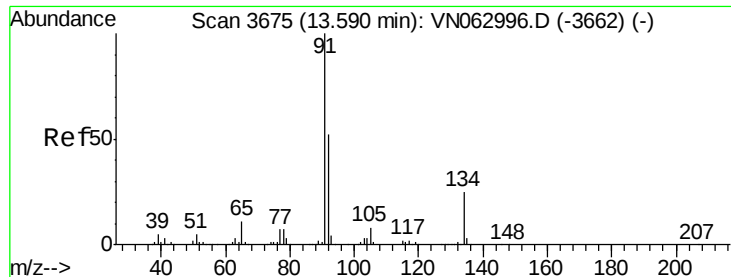
Tgt Ion: 75 Resp: 51958
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.731 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN063012.D
 Acq: 19 Aug 2020 14:39

Tgt Ion: 75 Resp: 51958
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.2 103.8#
 89 0.0 34.2 51.4#





#89

n-Butylbenzene

Concen: 2.793 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.27 min

Lab File: VN063012.D

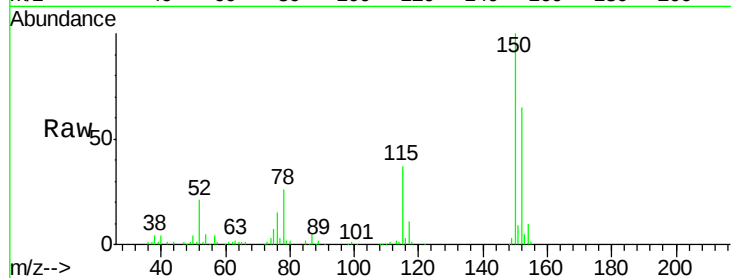
Acq: 19 Aug 2020 14:39

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-238-240



Tgt Ion:	91	Resp:	124
Ion	Ratio	Lower	Upper
91	100		
92	0.0	25.9	77.6#
134	0.0	12.4	37.0#

