

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062468.D
 Acq On : 9 Jul 2020 20:38
 Operator : JC/MD
 Sample : L3192-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-614-616RE

Quant Time: Jul 10 01:10:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	205566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	371091	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	357742	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	133761	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	157886	49.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.86%	
35) Dibromofluoromethane	7.55	113	116491	50.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.56%	
50) Toluene-d8	10.06	98	476610	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
62) 4-Bromofluorobenzene	12.38	95	175795	53.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.24%	

Target Compounds

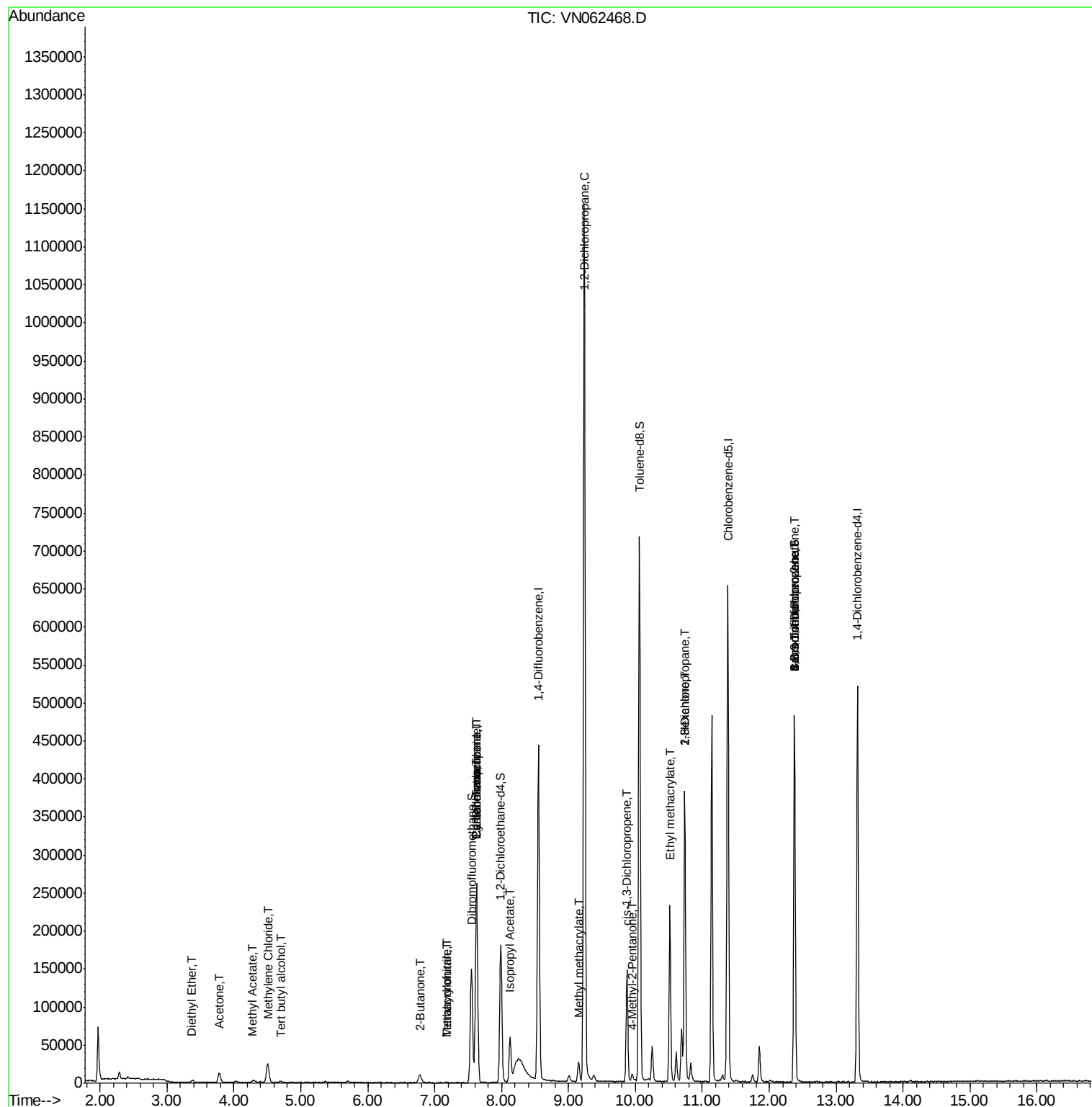
						Qvalue
8) Diethyl Ether	3.38	74	1153	0.738	ug/l	63
11) Tert butyl alcohol	4.70	59	2444	4.660	ug/l #	74
16) Acetone	3.78	43	21885	16.303	ug/l	99
18) Methyl Acetate	4.28	43	3141	0.938	ug/l #	73
20) Methylene Chloride	4.50	84	17037	5.936	ug/l	93
25) 2-Butanone	6.79	43	2319	1.183	ug/l	97
29) Tetrahydrofuran	7.18	42	1315	0.996	ug/l #	44
31) Cyclohexane	7.63	56	5050	1.052	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	17320	4.633	ug/l #	52
38) Carbon Tetrachloride	7.63	117	20547	6.113	ug/l #	16
41) Methacrylonitrile	7.18	41	688	0.377	ug/l #	29
43) Isopropyl Acetate	8.13	43	73032	10.575	ug/l #	92
45) 1,2-Dichloropropane	9.24	63	1307	0.409	ug/l #	44
48) Methyl methacrylate	9.15	41	4924	1.454	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	6140	1.489	ug/l	88
54) cis-1,3-Dichloropropene	9.88	75	25366	5.317	ug/l #	58
56) Ethyl methacrylate	10.52	69	718	1.862	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3547	0.767	ug/l #	43
59) 2-Hexanone	10.74	43	59554	19.888	ug/l #	55
71) Bromoform	12.38	173	1143	0.608	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	92744	28.258	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	92744	75.635	ug/l #	10
95) Naphthalene	15.11	128	1131	Below Cal	#	70

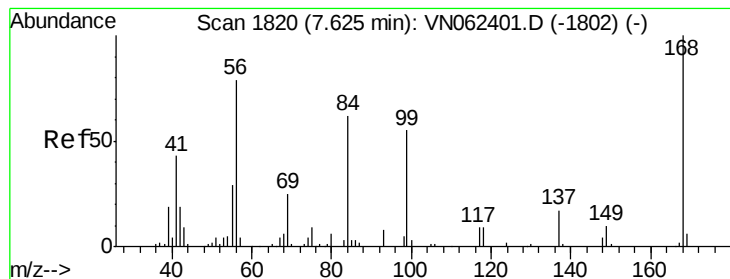
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN070920\
Data File : VN062468.D
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BP-MW180-SOIL-614-616RE

Quant Time: Jul 10 01:10:12 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 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: VN062468.D

Acq: 9 Jul 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

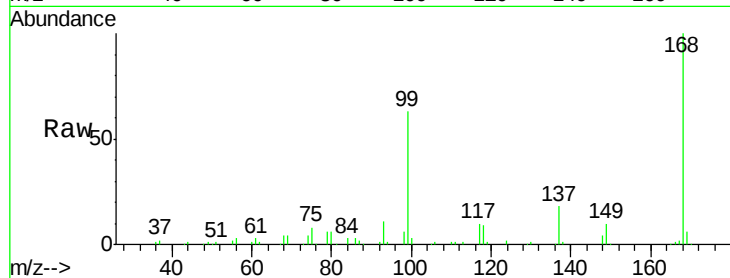
BP-MW180-SOIL-614-616RE

Tot Ion:168 Resp: 205566

Ion Ratio Lower Upper

168 100

99 62.9 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

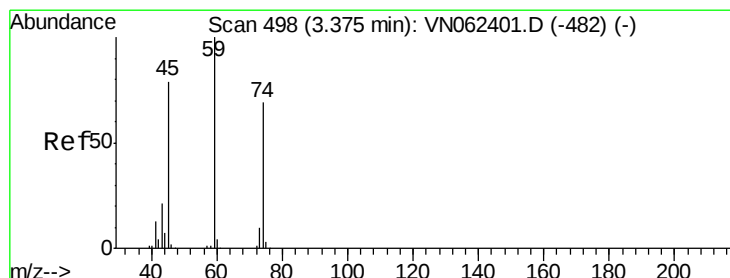
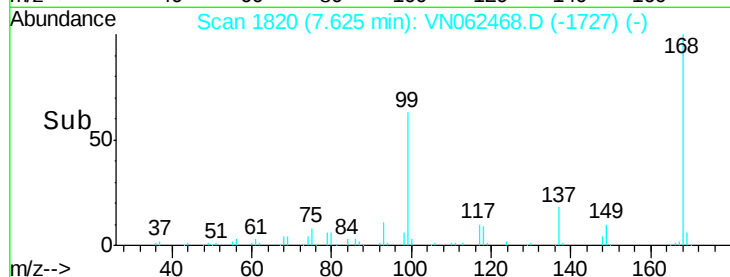
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.738 ug/l

RT: 3.38 min Scan# 501

Delta R.T. 0.01 min

Lab File: VN062468.D

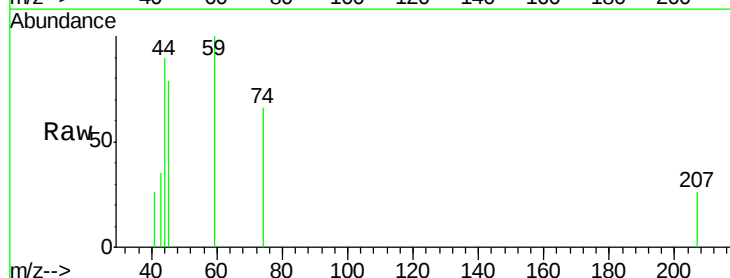
Acq: 9 Jul 2020 20:38

Tgt Ion: 74 Resp: 1153

Ion Ratio Lower Upper

74 100

45 76.3 58.5 175.3



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

800

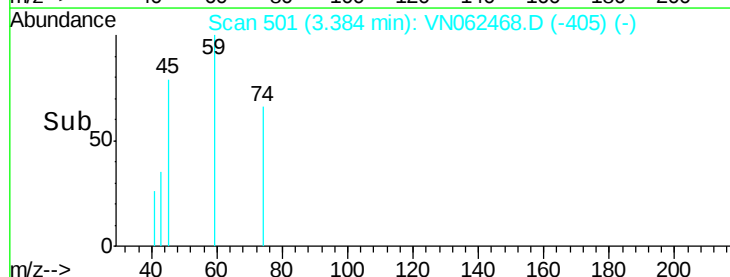
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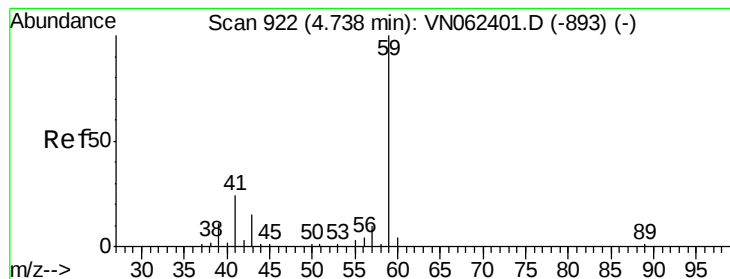
400

200

0

Time--> 3.35 3.40



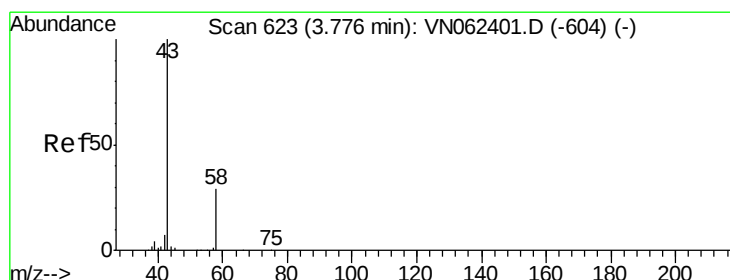
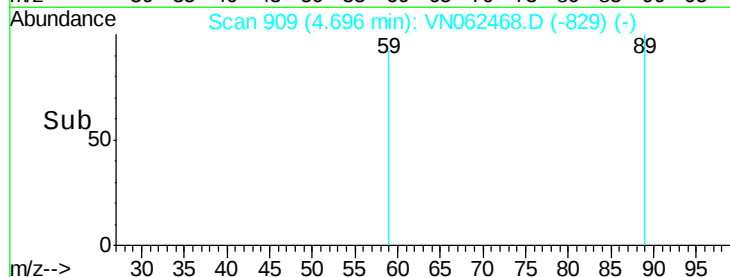
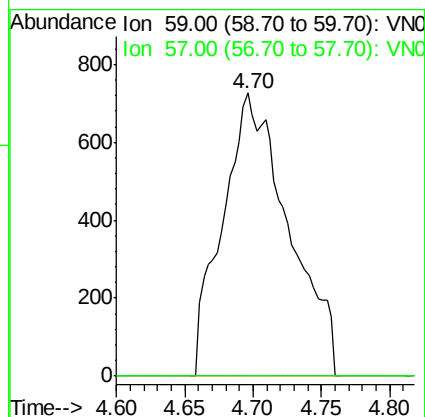
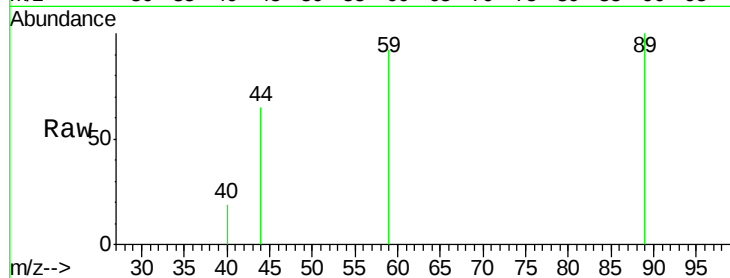


#11

Tert butyl alcohol
 Concen: 4.660 ug/l
 RT: 4.70 min Scan# 909
 Delta R.T. -0.04 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

Instrument :
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 ClientSampleId :
 BP-MW180-SOIL-614-616RE

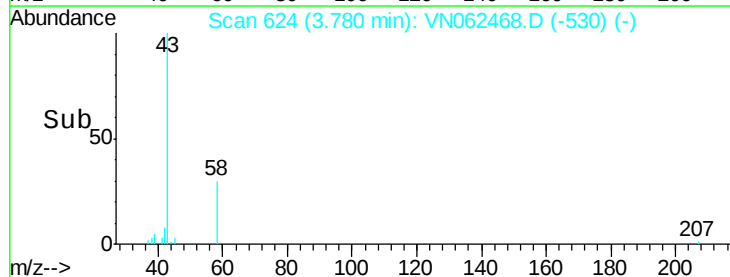
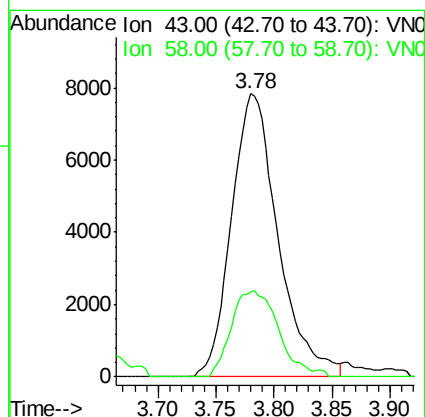
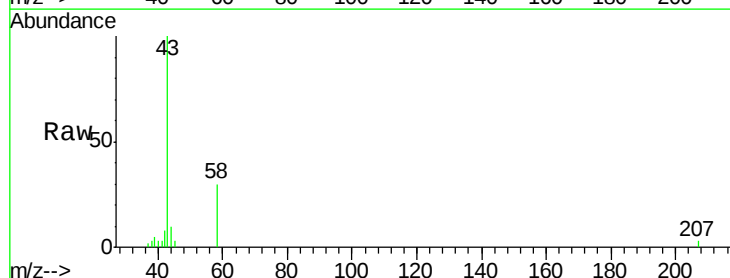
Tot Ion: 59 Resp: 2444
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

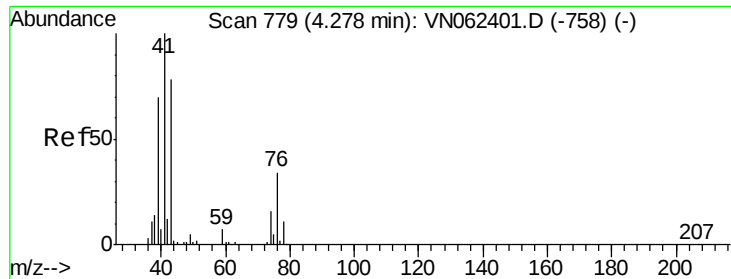


#16

Acetone
 Concen: 16.303 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.00 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

Tgt Ion: 43 Resp: 21885
 Ion Ratio Lower Upper
 43 100
 58 30.1 23.5 35.3

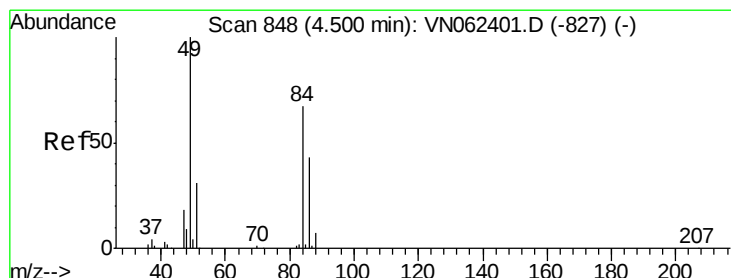
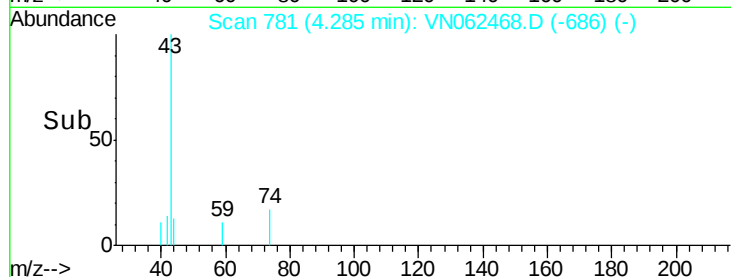
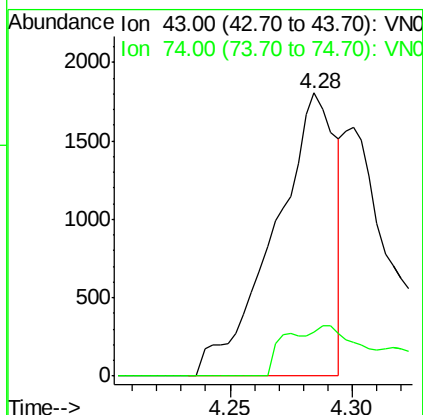
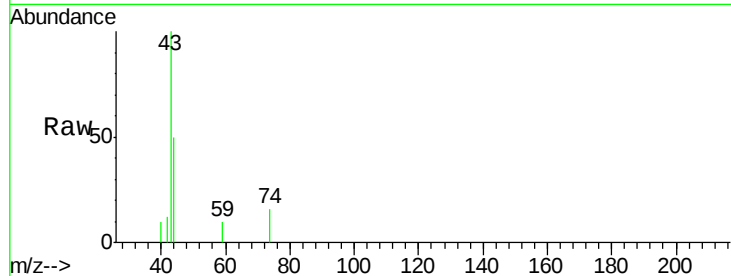




#18
Methvl Acetate
Concen: 0.938 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

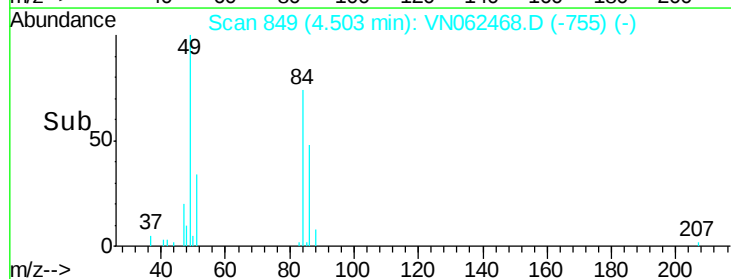
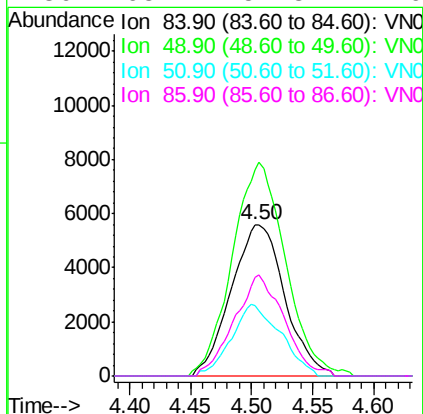
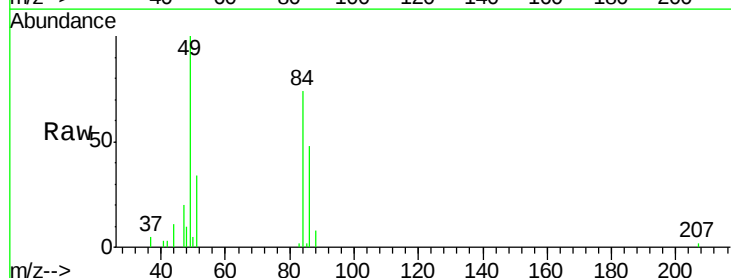
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-614-616RE

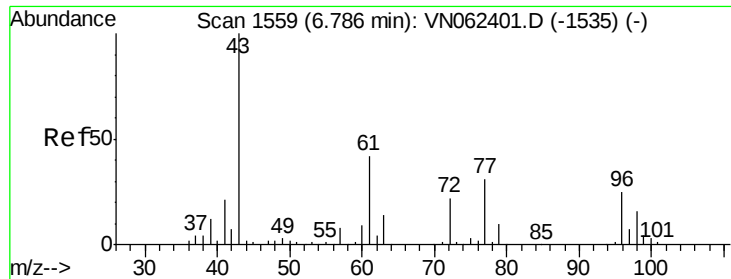
Tot Ion: 43 Resp: 3141
Ion Ratio Lower Upper
43 100
74 7.8 16.0 24.0#



#20
Methylene Chloride
Concen: 5.936 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Tgt Ion: 84 Resp: 17037
Ion Ratio Lower Upper
84 100
49 135.9 120.0 180.0
51 46.9 37.0 55.6
86 65.4 51.8 77.6

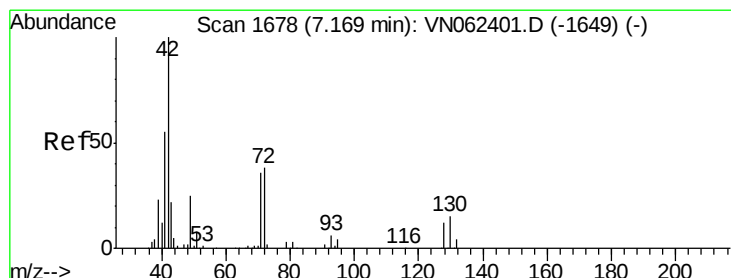
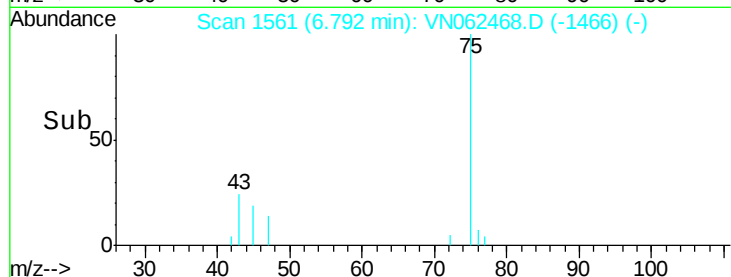
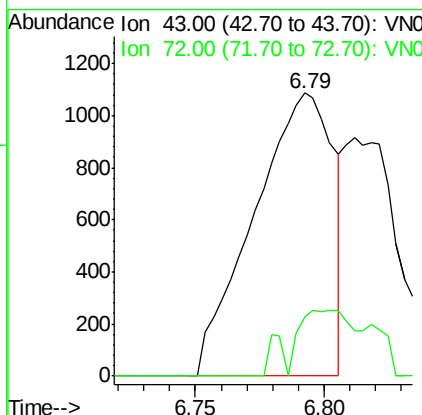
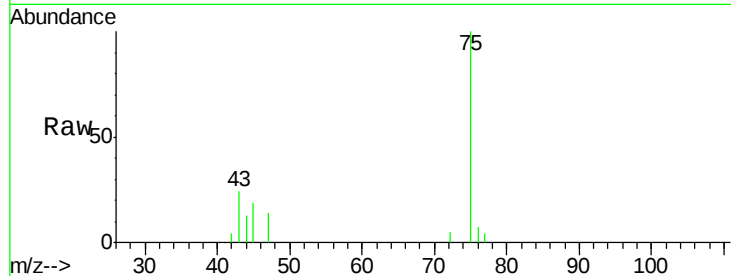




#25
2-Butanone
Concen: 1.183 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

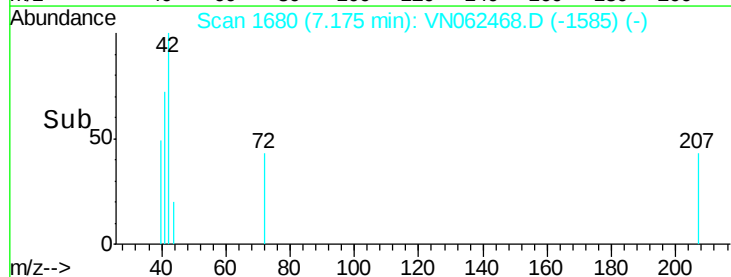
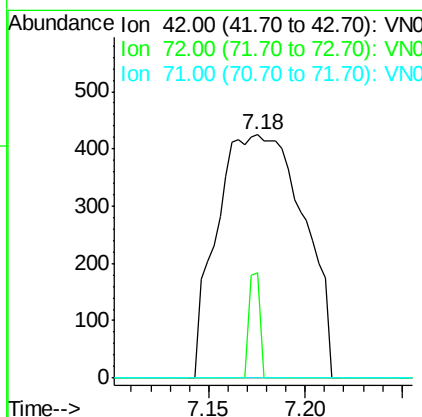
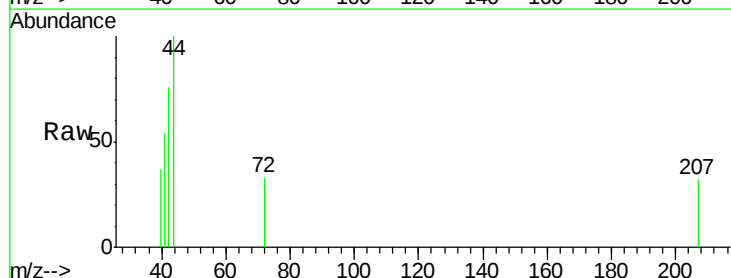
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-614-616RE

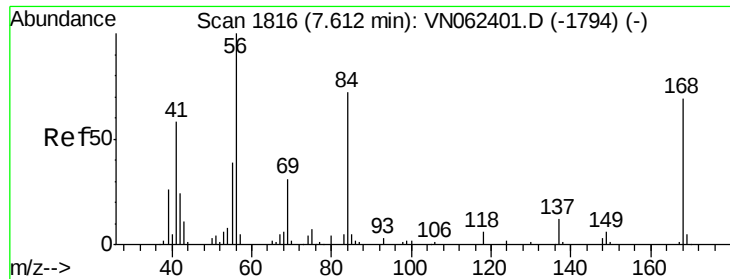
Tot Ion: 43 Resp: 2319
Ion Ratio Lower Upper
43 100
72 20.9 17.9 26.9



#29
Tetrahydrofuran
Concen: 0.996 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Tgt Ion: 42 Resp: 1315
Ion Ratio Lower Upper
42 100
72 5.3 29.1 43.7#
71 0.0 28.1 42.1#

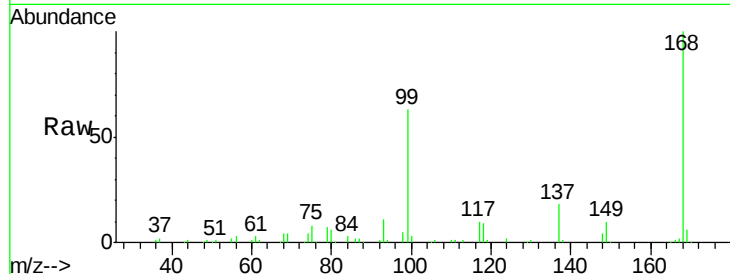




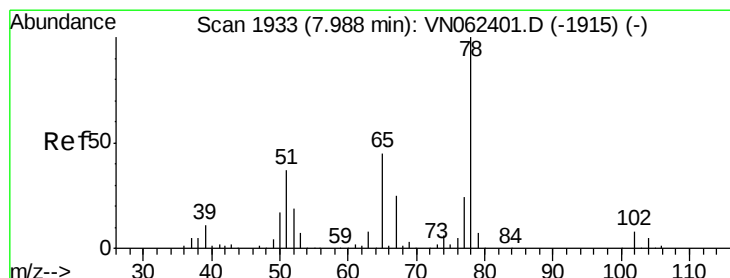
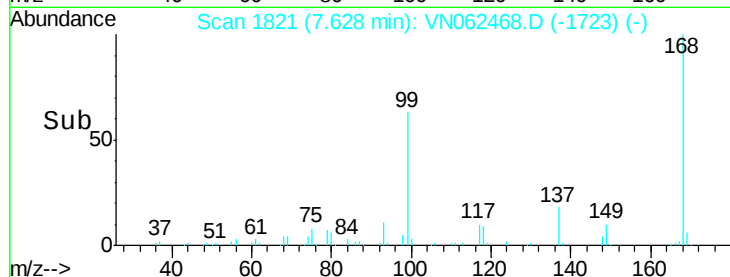
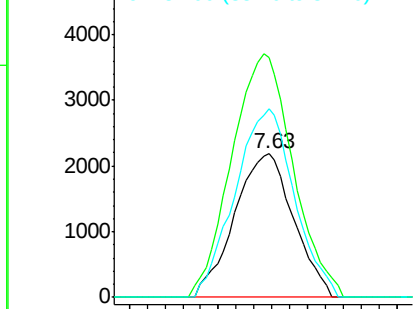
#31
Cyclohexane
Concen: 1.052 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-614-616RE

Tot Ion: 56 Resp: 5050
Ion Ratio Lower Upper
56 100
69 167.7 24.5 36.7#
84 131.4 57.4 86.2#

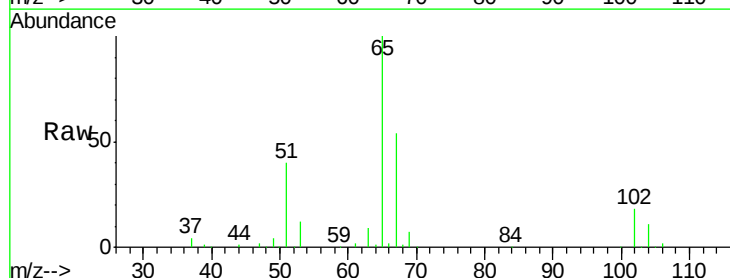


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

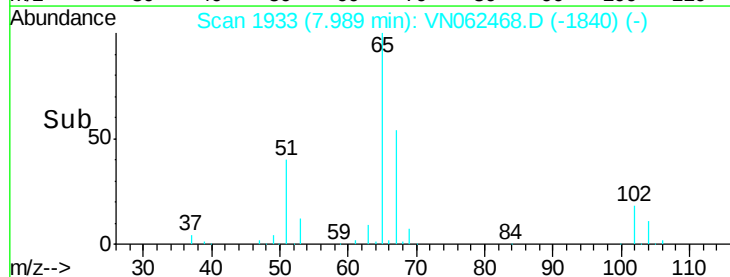
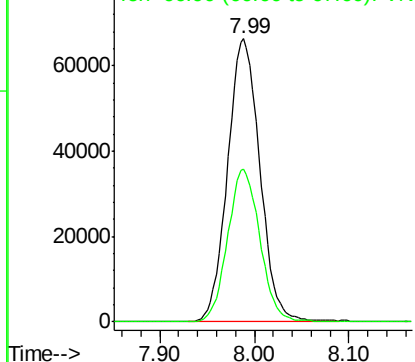


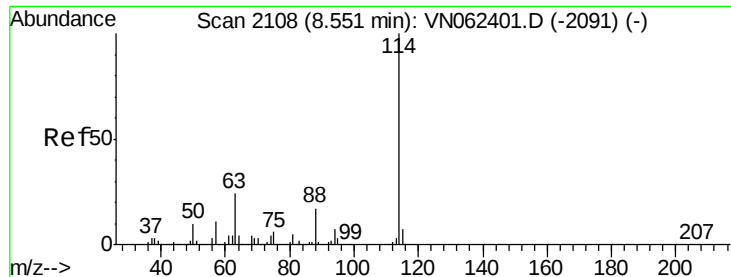
#33
1,2-Dichloroethane-d4
Concen: 49.934 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Tgt Ion: 65 Resp: 157886
Ion Ratio Lower Upper
65 100
67 53.8 0.0 107.6



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

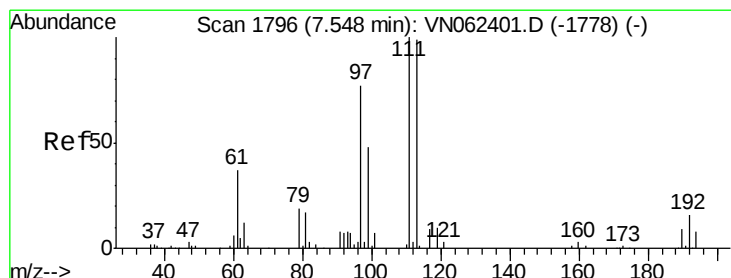
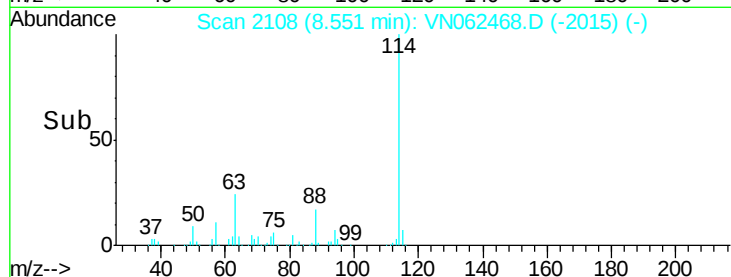
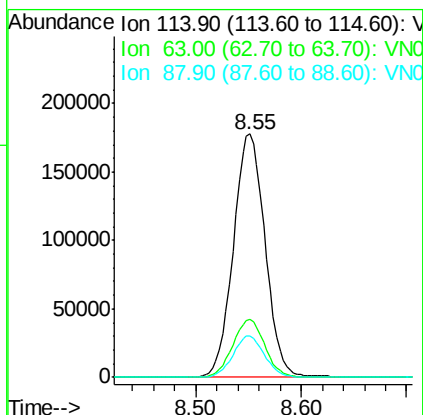
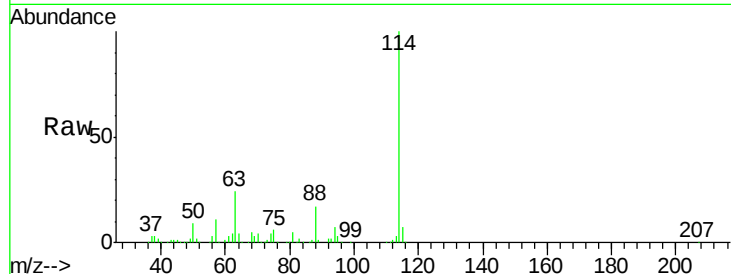




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

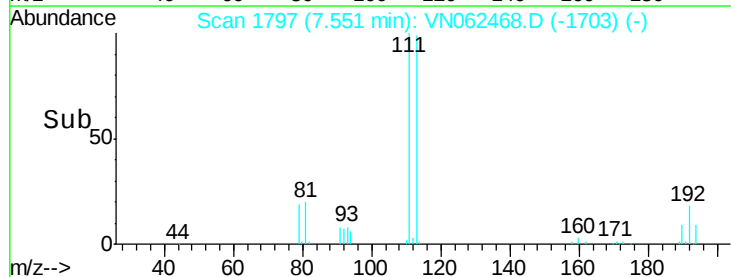
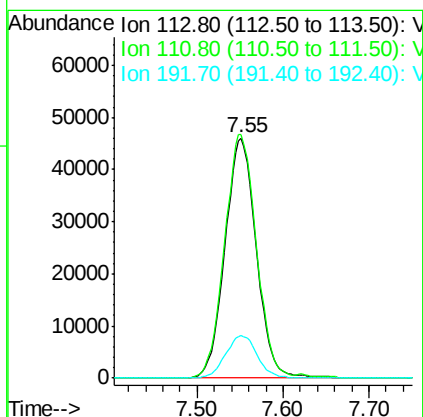
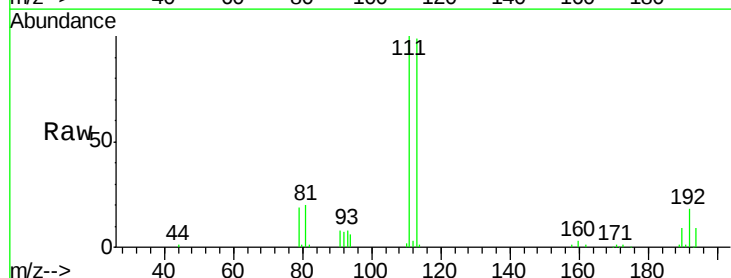
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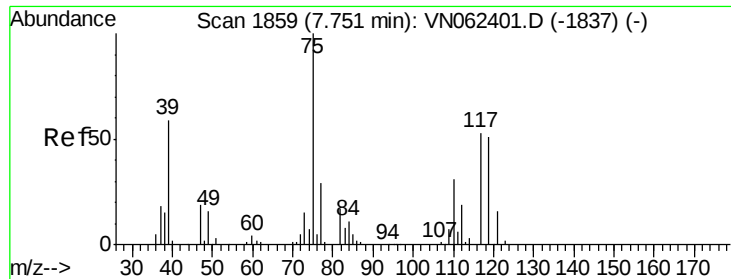
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	48.4
88	17.1	0.0	33.8



#35
 Dibromofluoromethane
 Concen: 50.784 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.1	124.7
192	17.9	14.1	21.1

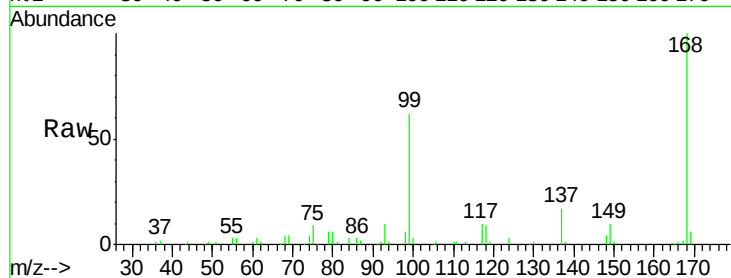




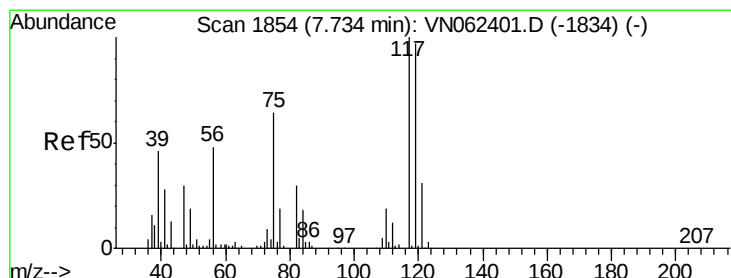
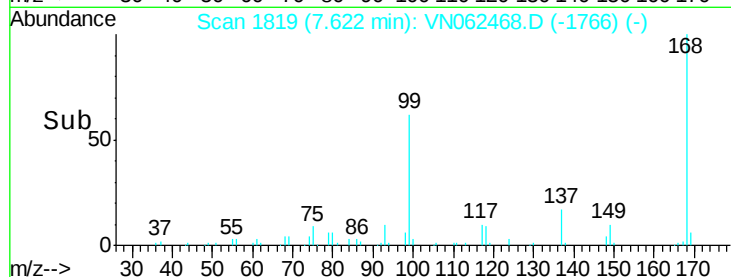
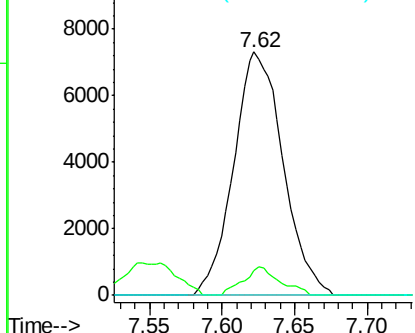
#36
 1,1-Dichloropropene
 Concen: 4.633 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-614-616RE

Tot Ion: 75 Resp: 17320
 Ion Ratio Lower Upper
 75 100
 110 8.8 15.4 46.2#
 77 0.0 24.1 36.1#

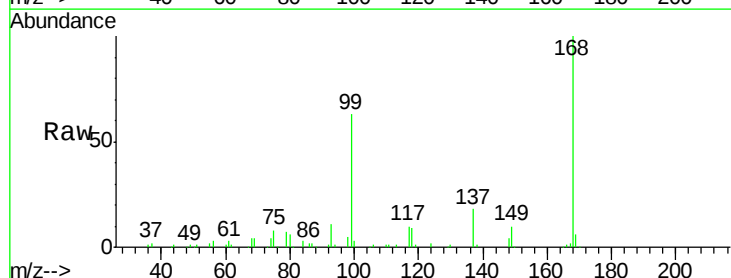


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

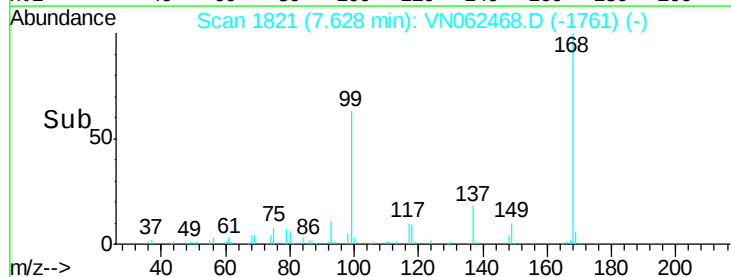
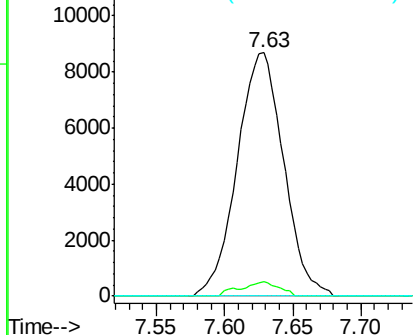


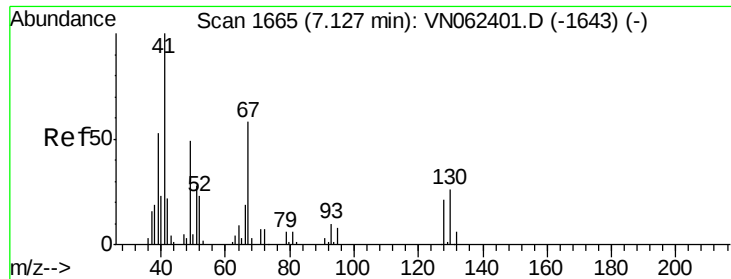
#38
 Carbon Tetrachloride
 Concen: 6.113 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

Tgt Ion: 117 Resp: 20547
 Ion Ratio Lower Upper
 117 100
 119 5.9 77.2 115.8#
 121 0.0 24.8 37.2#



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

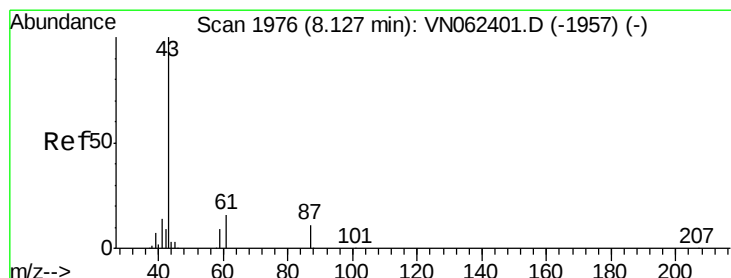
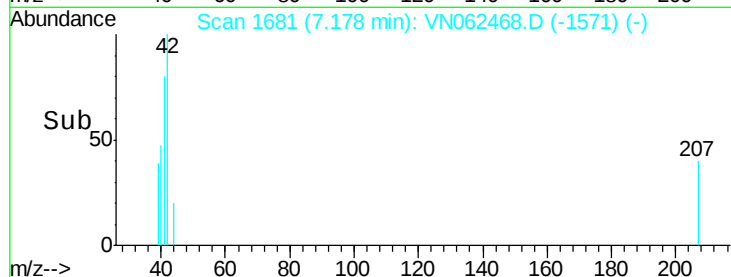
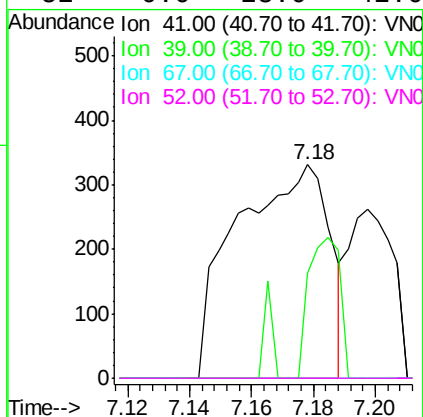
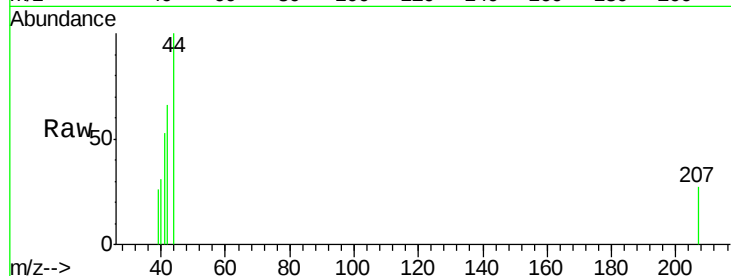




#41
Methacrylonitrile
Concen: 0.377 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.05 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

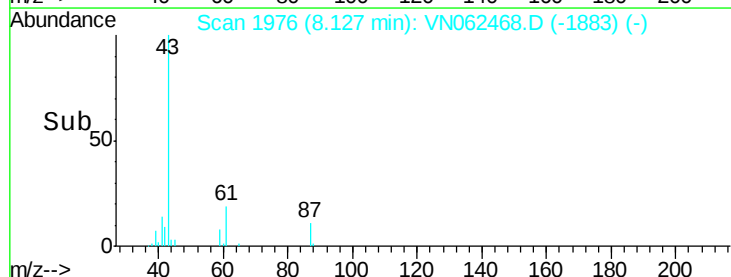
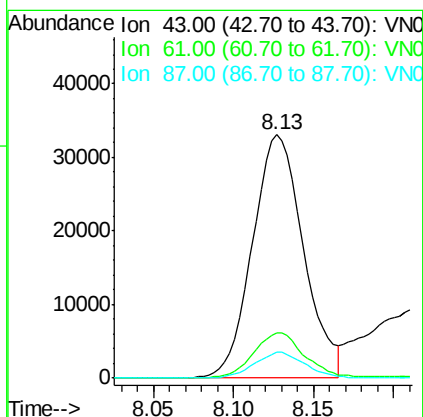
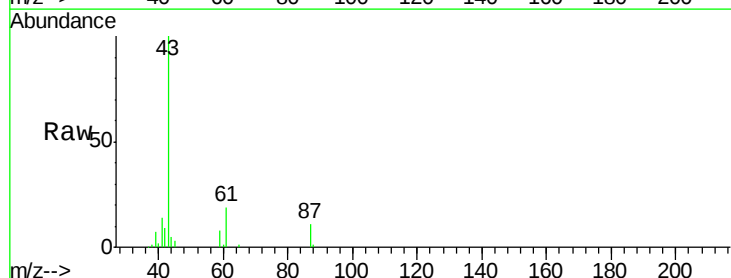
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-614-616RE

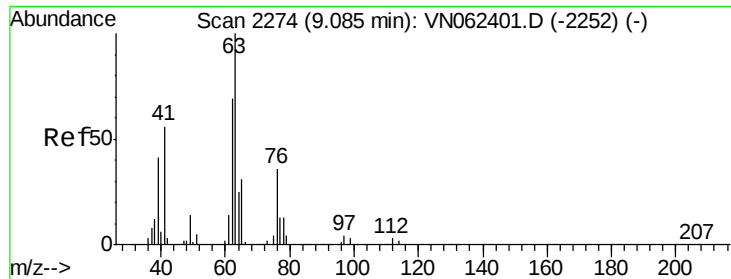
Tot Ion: 41 Resp: 688
Ion Ratio Lower Upper
41 100
39 21.9 50.2 75.2#
67 0.0 64.2 96.2#
52 0.0 28.0 42.0#



#43
Isopropyl Acetate
Concen: 10.575 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Tgt Ion: 43 Resp: 73032
Ion Ratio Lower Upper
43 100
61 18.6 19.3 28.9#
87 10.3 8.6 13.0





#45

1,2-Dichloropropane

Concen: 0.409 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062468.D

Acq: 9 Jul 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

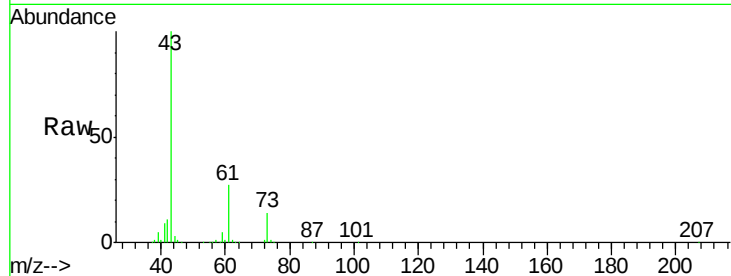
BP-MW180-SOIL-614-616RE

Tot Ion: 63 Resp: 1307

Ion Ratio Lower Upper

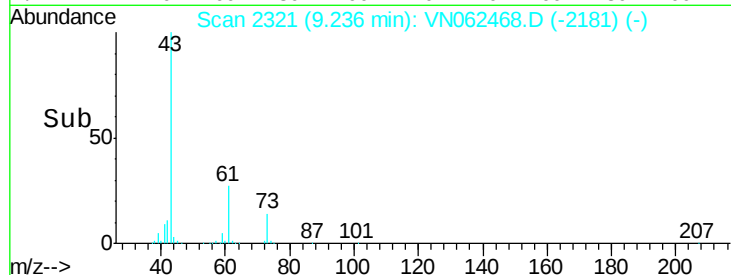
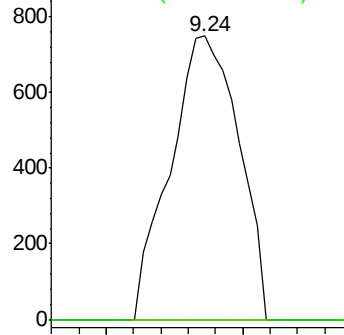
63 100

65 0.0 24.6 36.8#

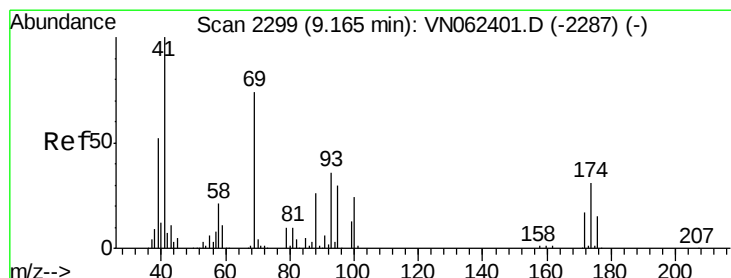


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



Time-->



#48

Methyl methacrylate

Concen: 1.454 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062468.D

Acq: 9 Jul 2020 20:38

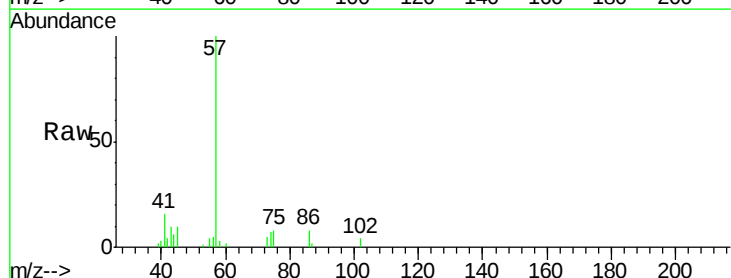
Tgt Ion: 41 Resp: 4924

Ion Ratio Lower Upper

41 100

69 0.0 60.8 91.2#

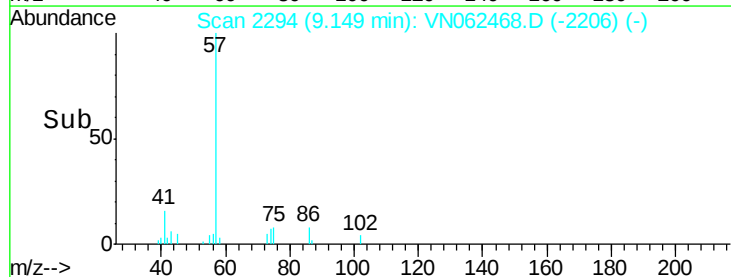
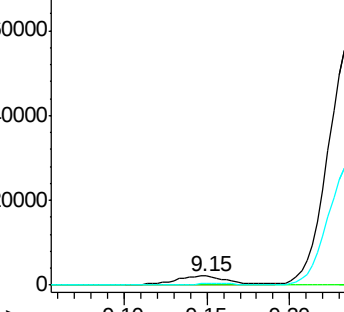
39 0.0 43.5 65.3#

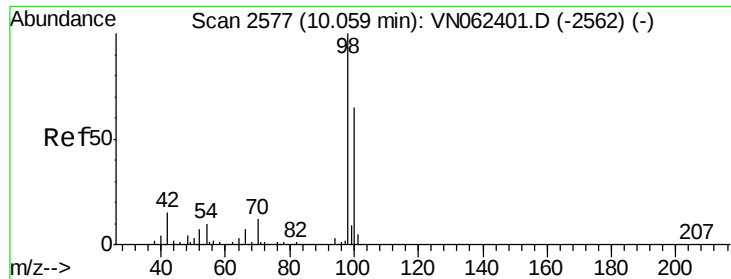


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.633 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062468.D

Acq: 9 Jul 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

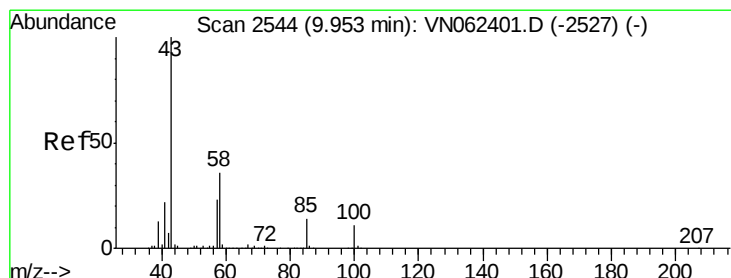
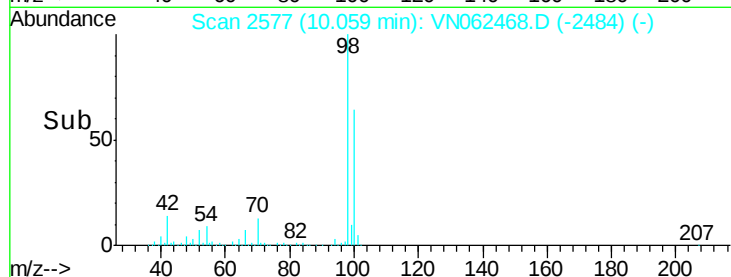
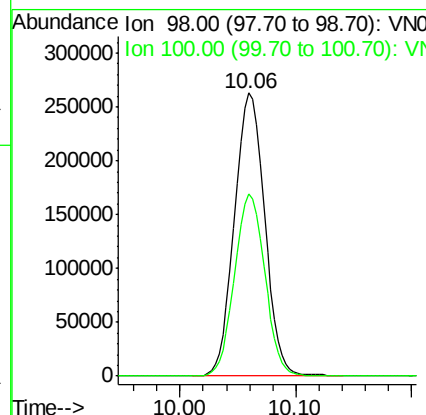
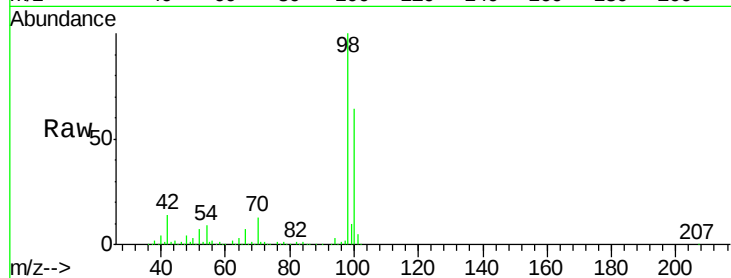
BP-MW180-SOIL-614-616RE

Tot Ion: 98 Resp: 476610

Ion Ratio Lower Upper

98 100

100 64.3 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 1.489 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062468.D

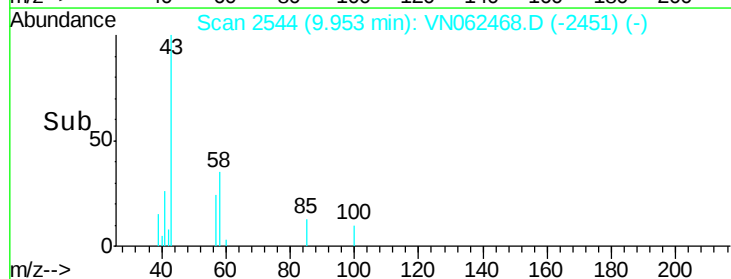
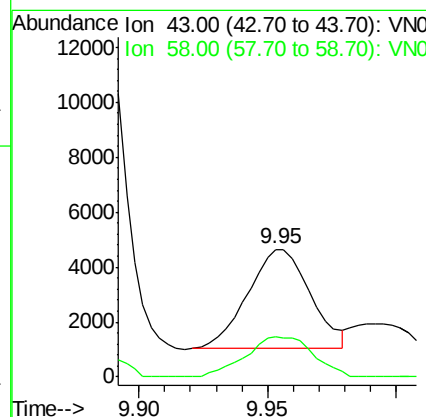
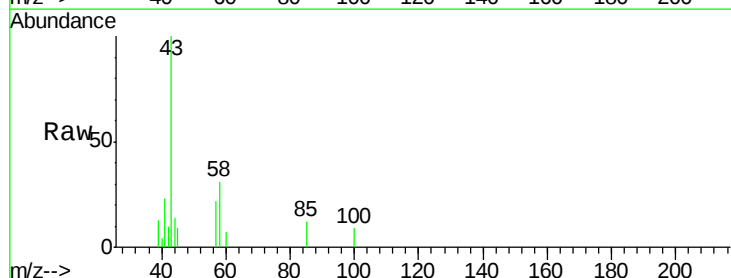
Acq: 9 Jul 2020 20:38

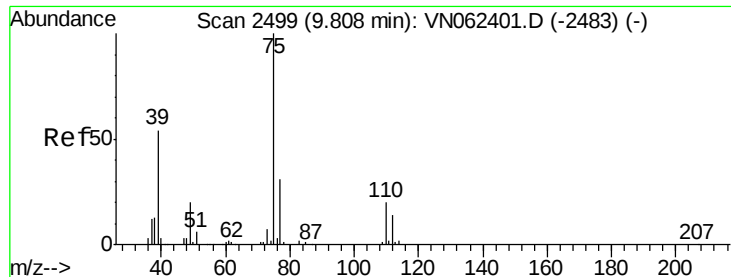
Tgt Ion: 43 Resp: 6140

Ion Ratio Lower Upper

43 100

58 43.4 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 5.317 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062468.D

Acq: 9 Jul 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-614-616RE

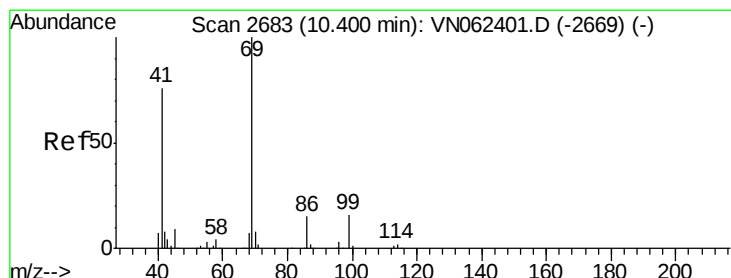
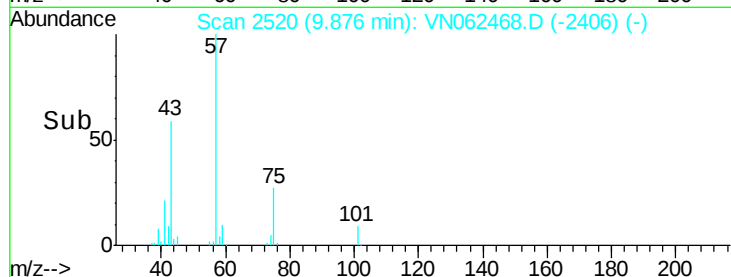
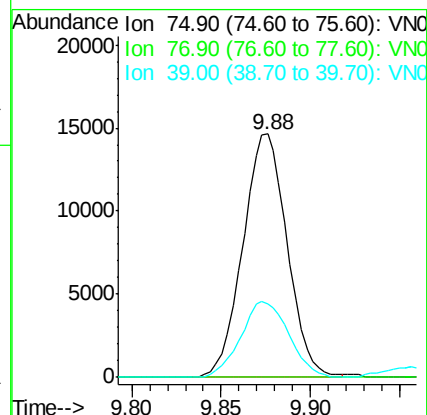
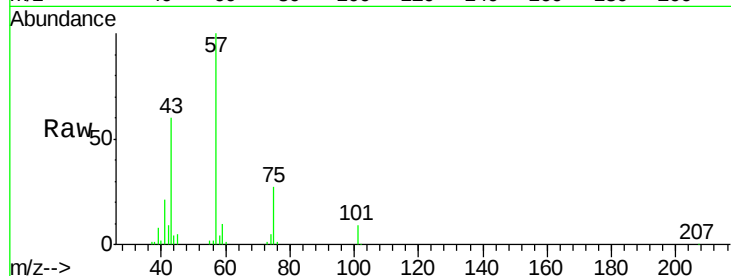
Tot Ion: 75 Resp: 25366

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

39 30.2 43.4 65.0#



#56

Ethyl methacrylate

Concen: 1.862 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN062468.D

Acq: 9 Jul 2020 20:38

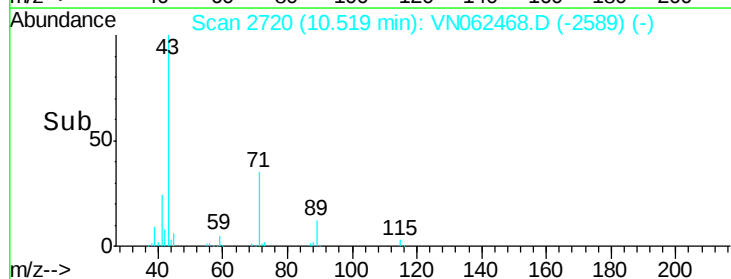
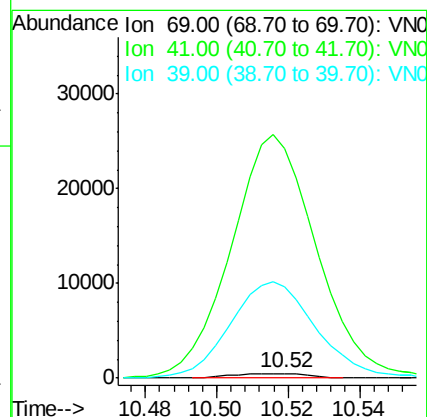
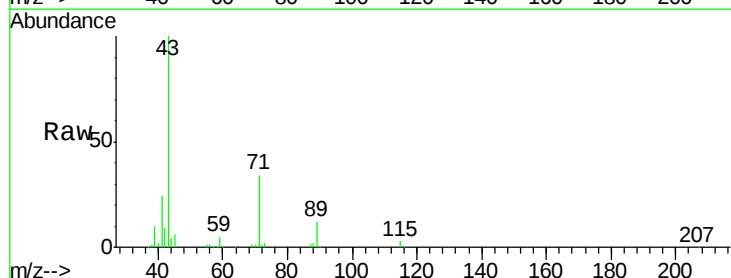
Tgt Ion: 69 Resp: 718

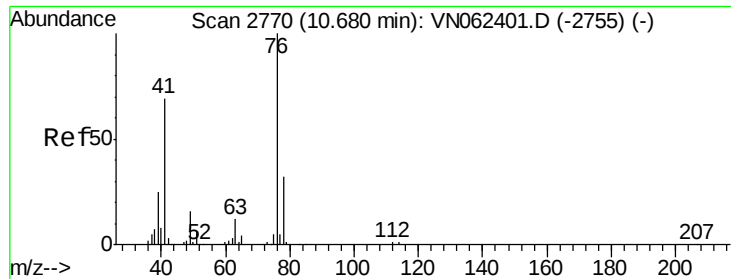
Ion Ratio Lower Upper

69 100

41 6001.1 59.7 89.5#

39 2371.7 30.6 45.8#

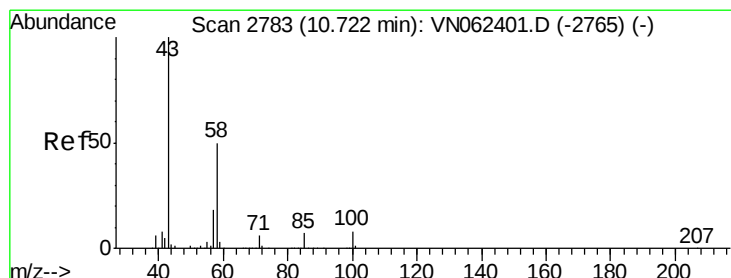
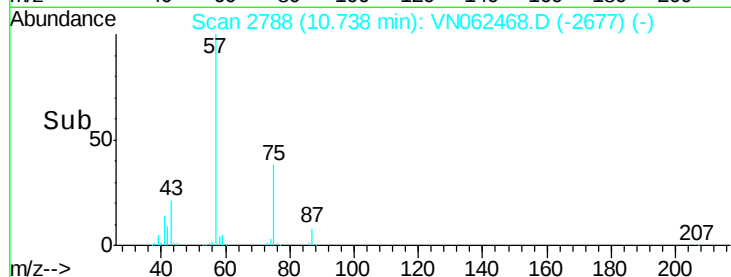
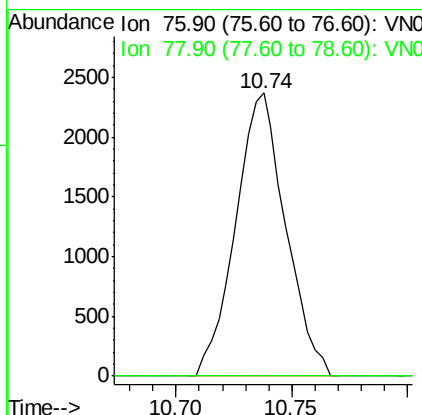
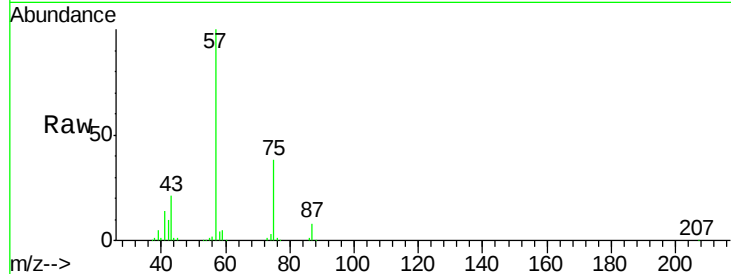




#57
 1,3-Dichloropropane
 Concen: 0.767 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

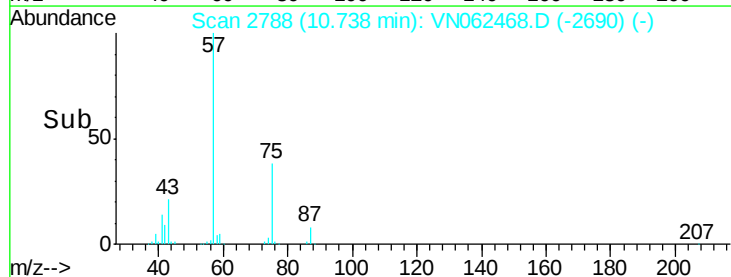
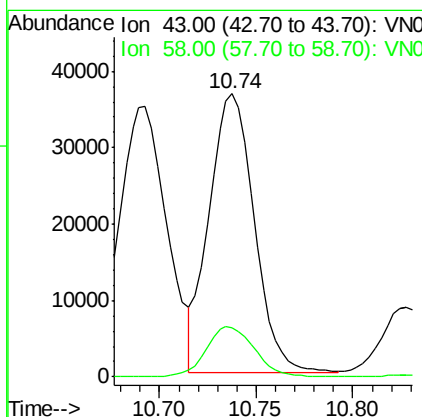
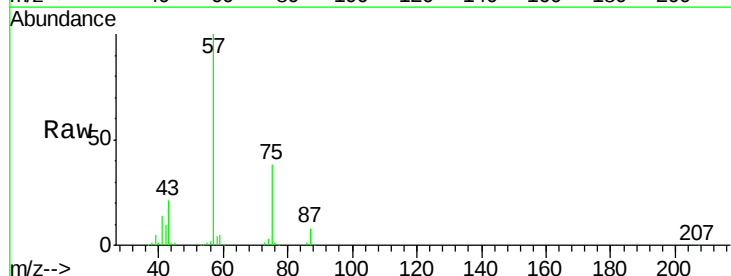
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-614-616RE

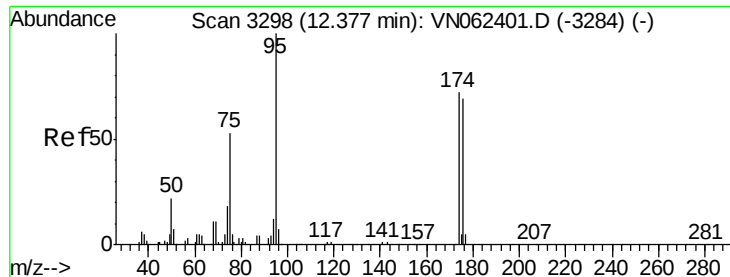
Tot Ion: 76 Resp: 3547
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 19.888 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

Tgt Ion: 43 Resp: 59554
 Ion Ratio Lower Upper
 43 100
 58 19.1 25.1 75.2#

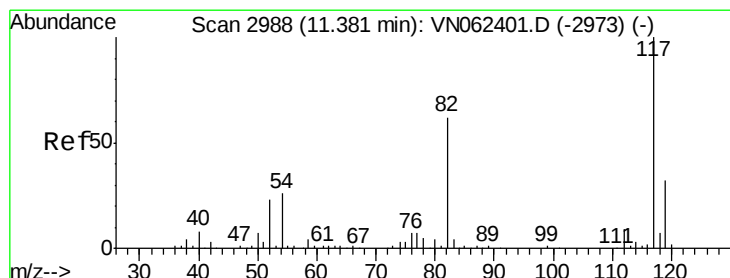
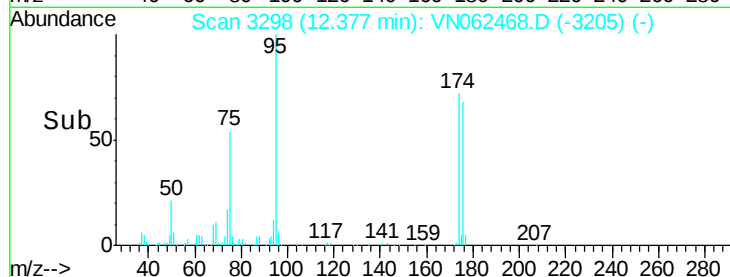
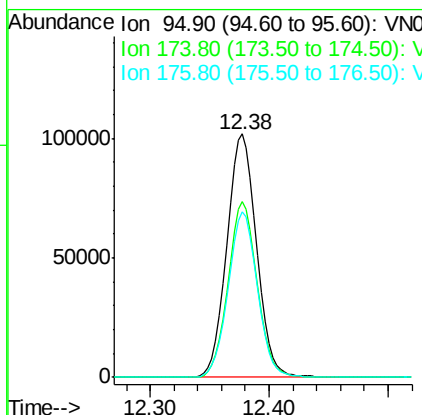
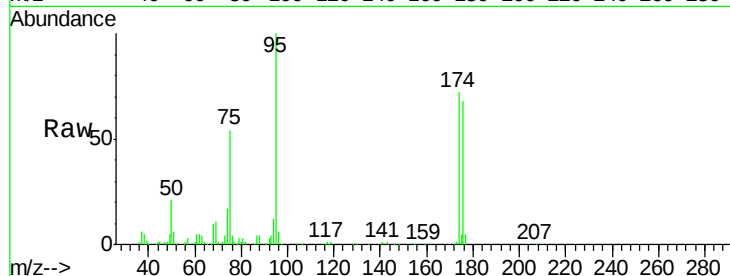




#62
4-Bromofluorobenzene
Concen: 53.124 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

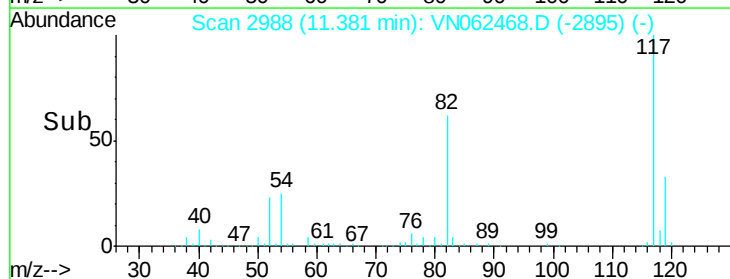
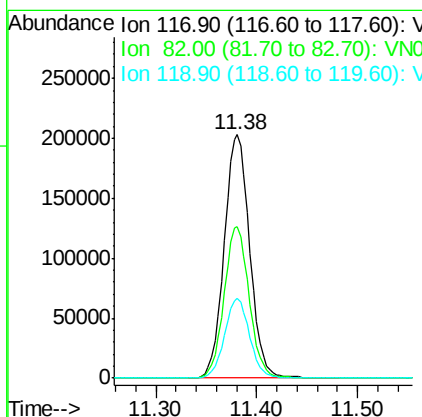
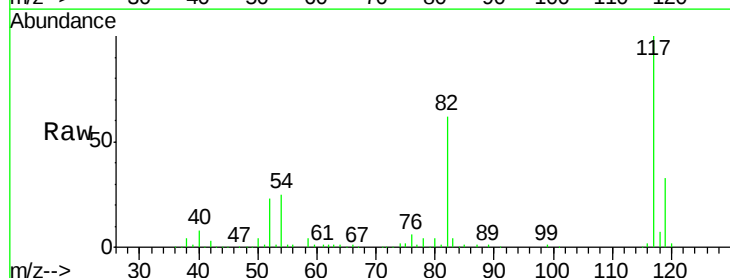
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-614-616RE

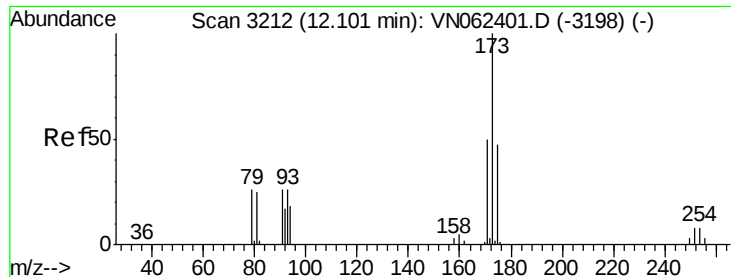
Tot Ion	95	Resp	175795
Ion Ratio	Lower	Upper	
95	100		
174	70.6	0.0	141.6
176	66.9	0.0	137.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Tgt Ion	117	Resp	357742
Ion Ratio	Lower	Upper	
117	100		
82	62.1	49.6	74.4
119	32.7	25.4	38.0

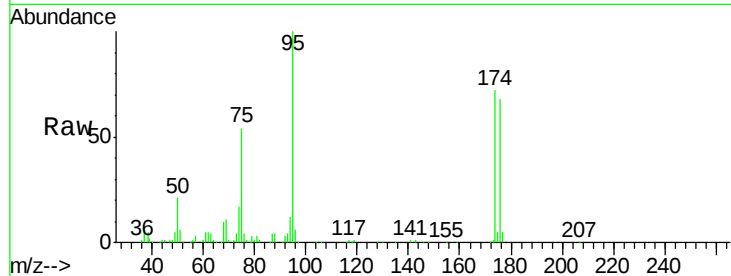




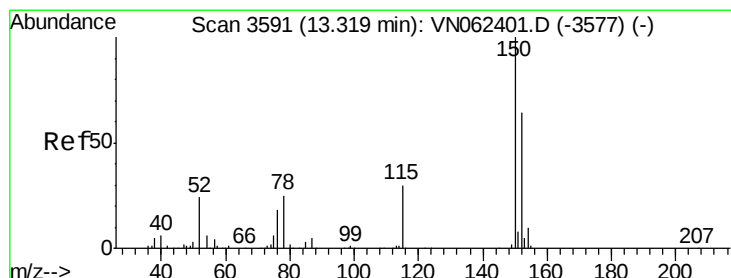
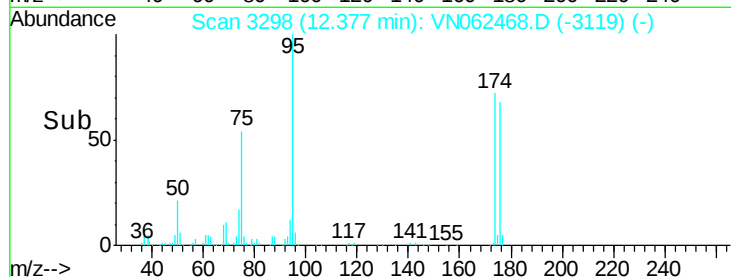
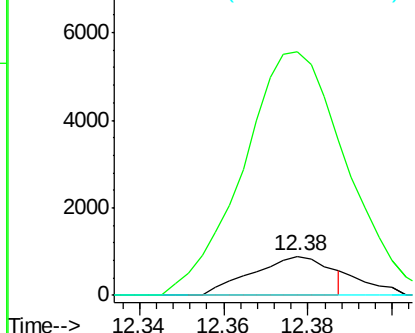
#71
Bromoform
Concen: 0.608 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-614-616RE

Tot Ion:173 Resp: 1143
Ion Ratio Lower Upper
173 100
175 700.2 23.7 71.1#
254 0.0 0.0 0.0

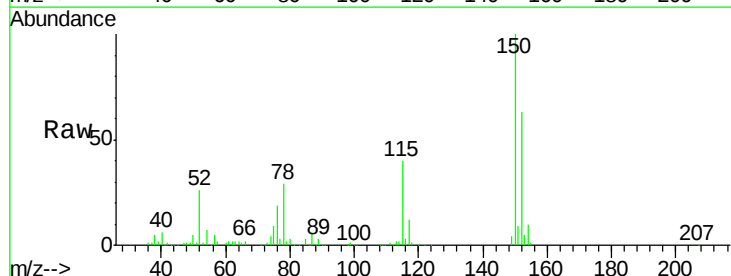


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

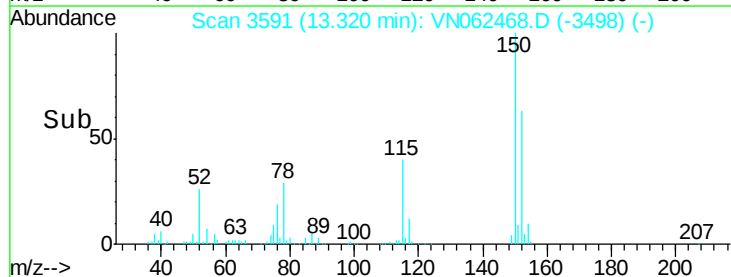
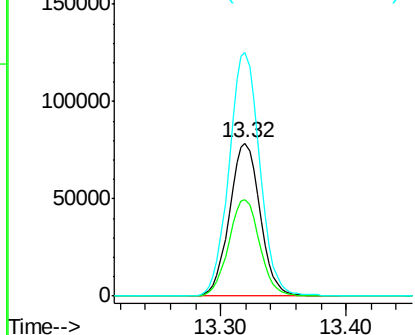


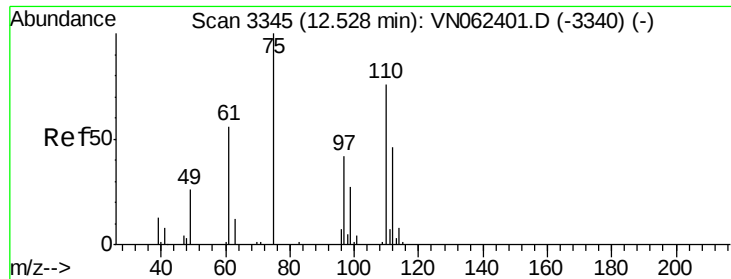
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Tgt Ion:152 Resp: 133761
Ion Ratio Lower Upper
152 100
115 63.8 31.4 94.2
150 159.3 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

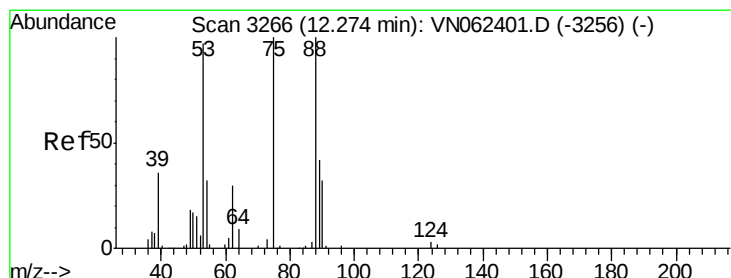
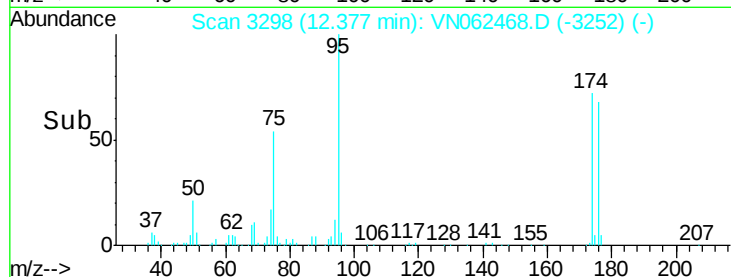
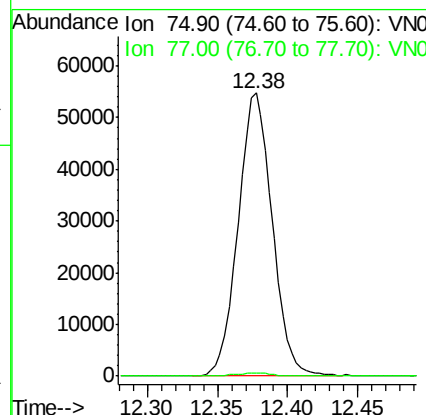
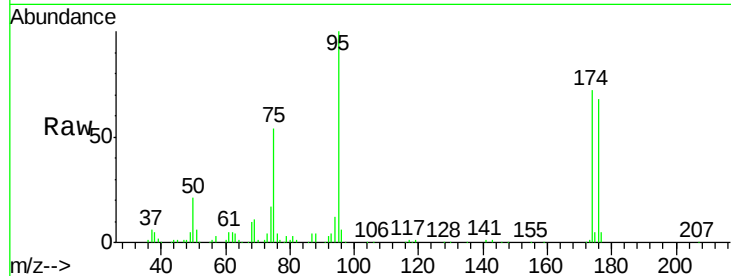




#76
 1,2,3-Trichloropropane
 Concen: 28.258 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

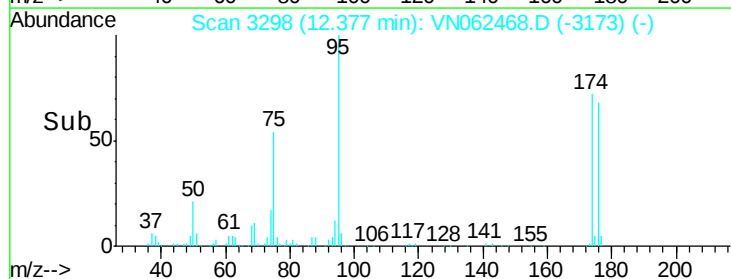
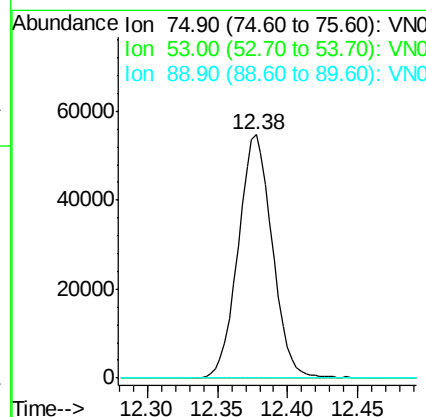
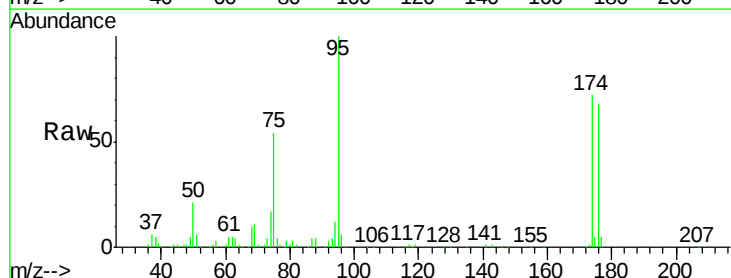
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-614-616RE

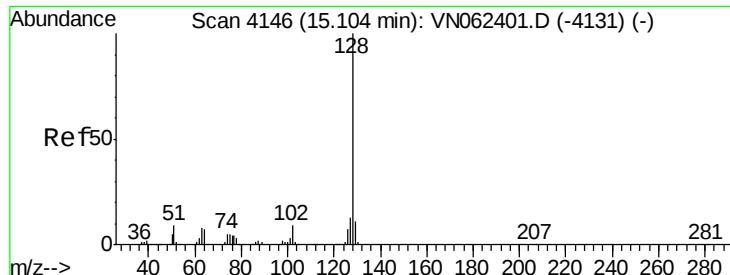
Tot Ion: 75 Resp: 92744
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.635 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062468.D
 Acq: 9 Jul 2020 20:38

Tgt Ion: 75 Resp: 92744
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 34.6 52.0#

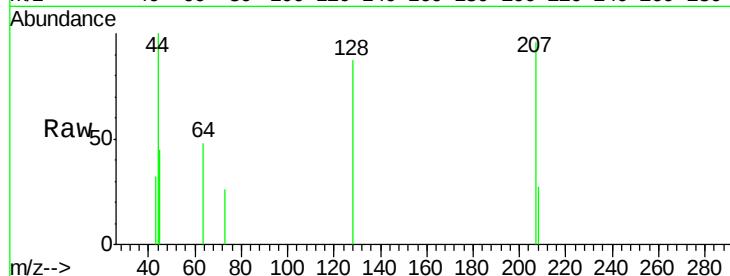




#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN062468.D
Acq: 9 Jul 2020 20:38

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-614-616RE

Tot Ion:128 Resp: 1131
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 12.8#



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

