

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062224.D
 Acq On : 30 Jun 2020 7:00
 Operator : JC/MD
 Sample : L3136-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-572-574

Quant Time: Jun 30 08:02:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	200812	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	404073	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	411014	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	144670	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	160233	56.86	ug/l	0.00
Spiked Amount			Recovery	=	113.72%	
35) Dibromofluoromethane	7.55	113	128488	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	10.06	98	538324	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	
62) 4-Bromofluorobenzene	12.38	95	170357	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	

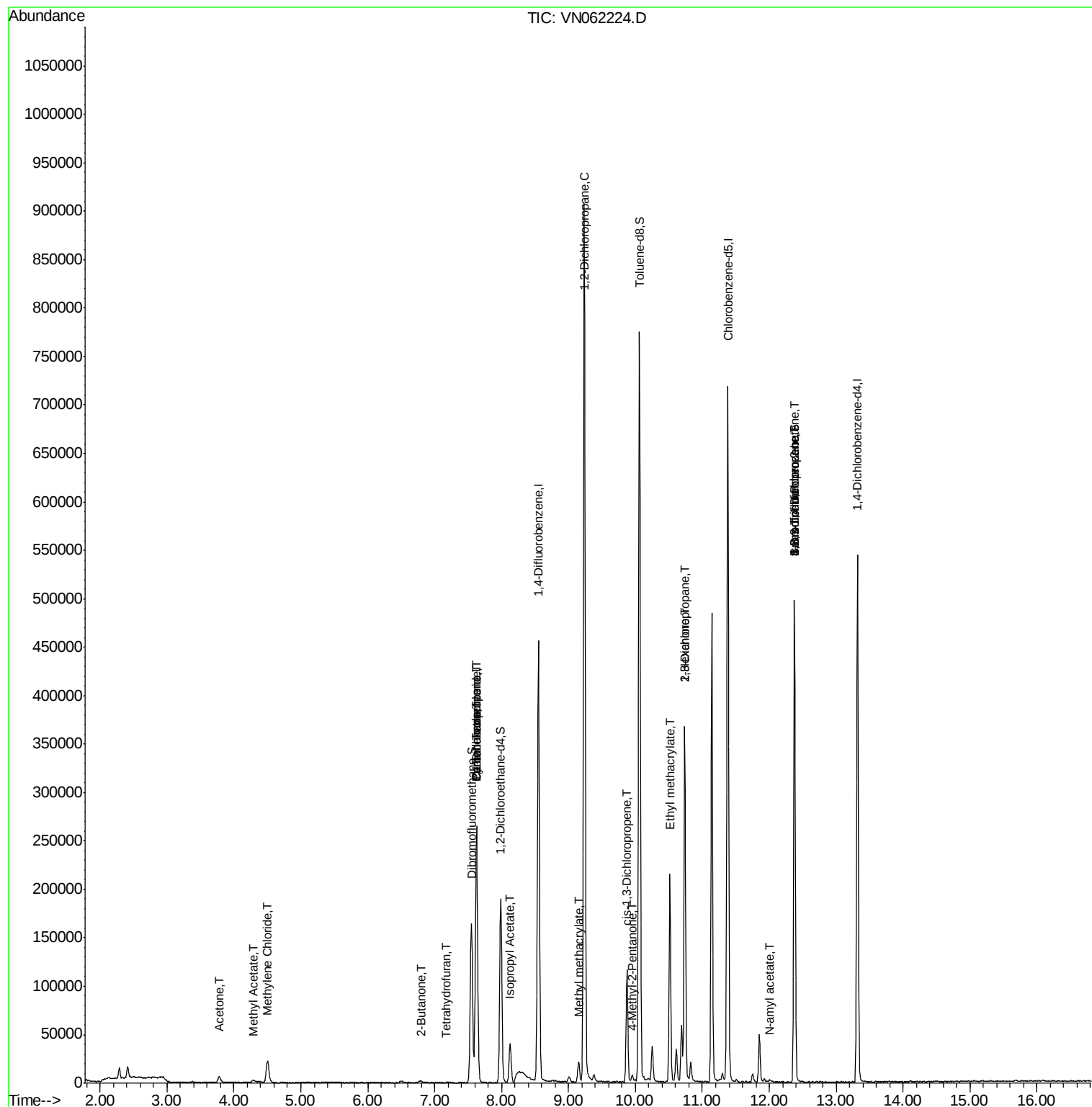
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	297	Below Cal	#	41
16) Acetone	3.78	43	11534	9.136	ug/l	93
18) Methyl Acetate	4.29	43	3042	1.358	ug/l #	85
20) Methylene Chloride	4.50	84	17462	6.562	ug/l	92
25) 2-Butanone	6.80	43	3150	2.287	ug/l	90
29) Tetrahydrofuran	7.18	42	529	0.586	ug/l #	32
31) Cyclohexane	7.63	56	5077	1.304	ug/l #	4
36) 1,1-Dichloropropene	7.63	75	17894	4.406	ug/l #	49
38) Carbon Tetrachloride	7.63	117	21001	5.485	ug/l #	15
43) Isopropyl Acetate	8.13	43	44226	8.067	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1110	0.363	ug/l #	43
48) Methyl methacrylate	9.14	41	3004	1.222	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	4447	1.388	ug/l	93
54) cis-1,3-Dichloropropene	9.88	75	21697	4.431	ug/l #	67
56) Ethyl methacrylate	10.52	69	1052	0.265	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3966	0.776	ug/l #	42
59) 2-Hexanone	10.74	43	49643	21.462	ug/l #	51
71) Bromoform	12.37	173	622	0.280	ug/l #	28
74) N-amyl acetate	12.00	43	1789	3.748	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	88473	25.978	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	88473	75.866	ug/l #	13

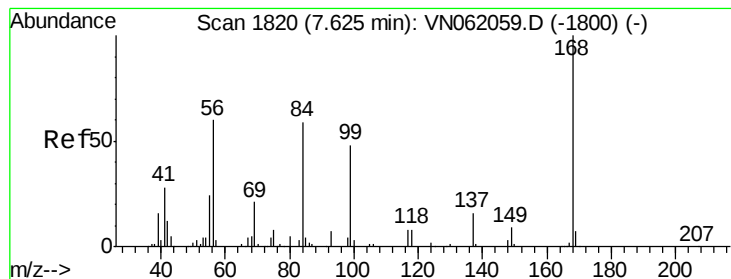
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 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: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

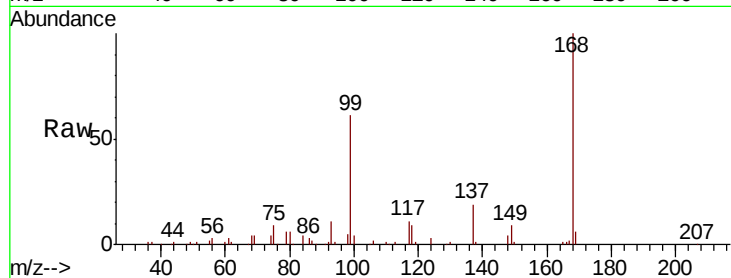
BP-MW180-SOIL-572-574

Tot Ion:168 Resp: 200812

Ion Ratio Lower Upper

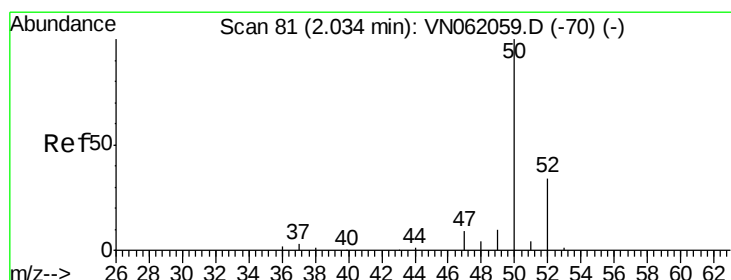
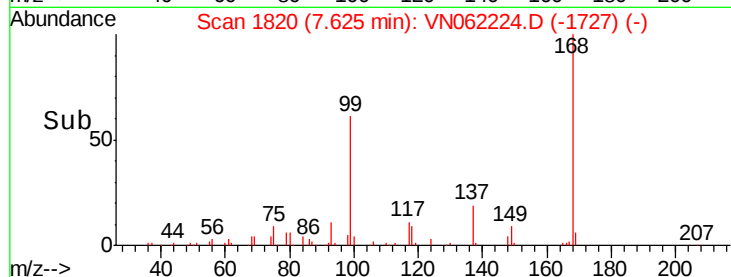
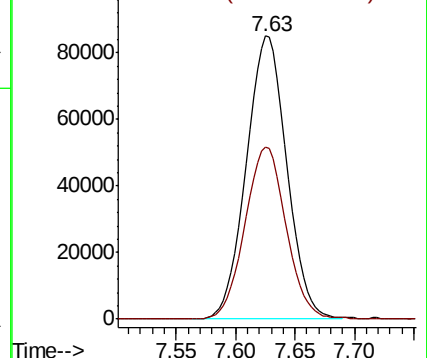
168 100

99 60.9 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062224.D

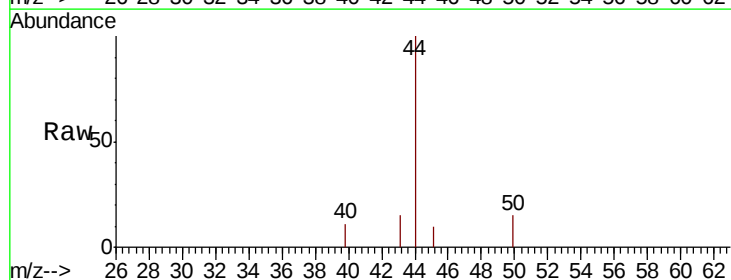
Acq: 30 Jun 2020 7:00

Tgt Ion: 50 Resp: 297

Ion Ratio Lower Upper

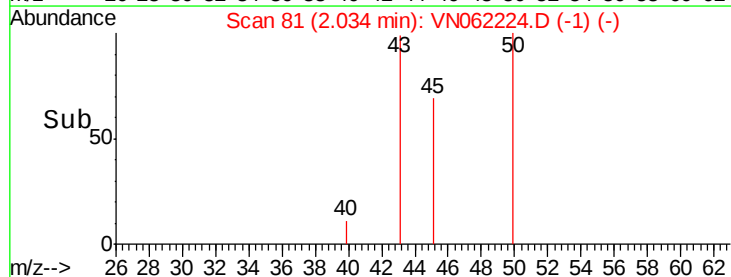
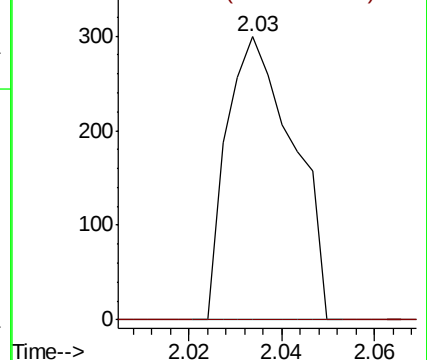
50 100

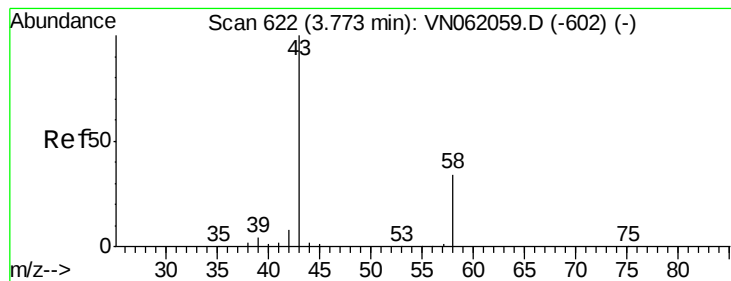
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#16

Acetone

Concen: 9.136 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

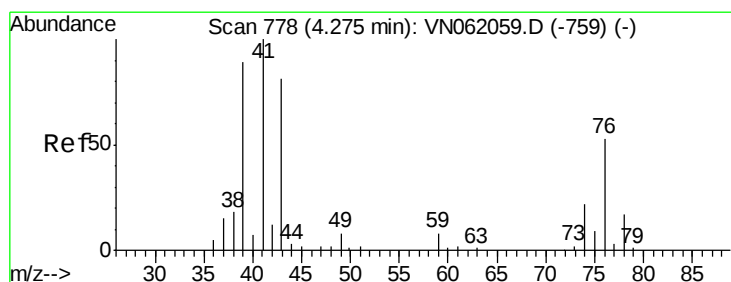
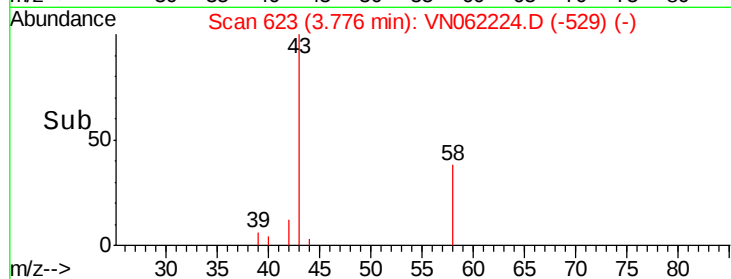
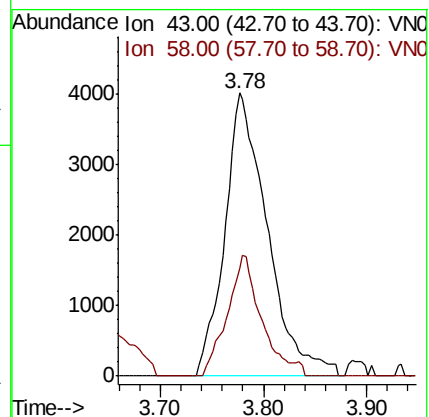
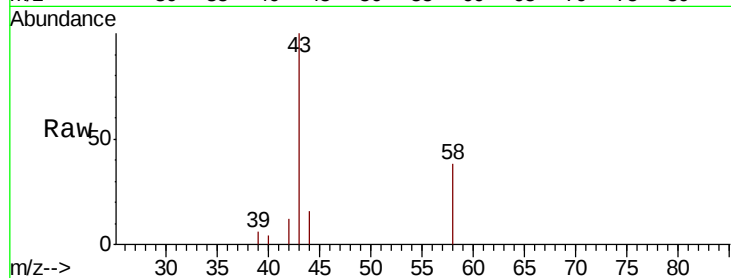
BP-MW180-SOIL-572-574

Tot Ion: 43 Resp: 11534

Ion Ratio Lower Upper

43 100

58 38.4 27.5 41.3



#18

Methyl Acetate

Concen: 1.358 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.02 min

Lab File: VN062224.D

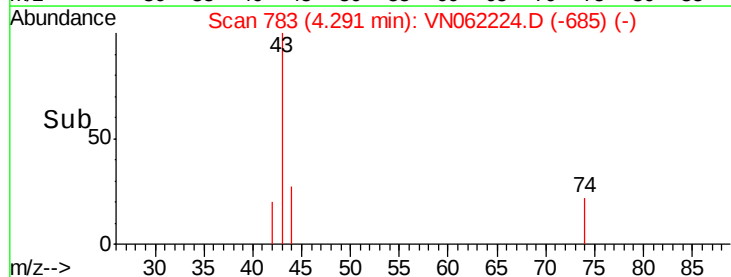
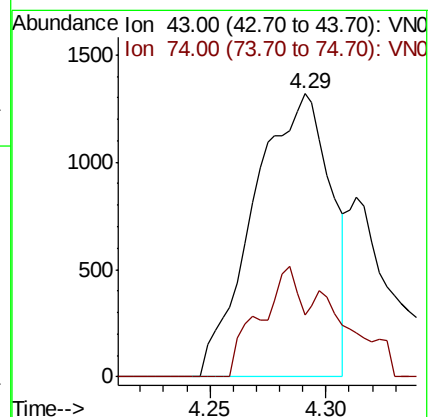
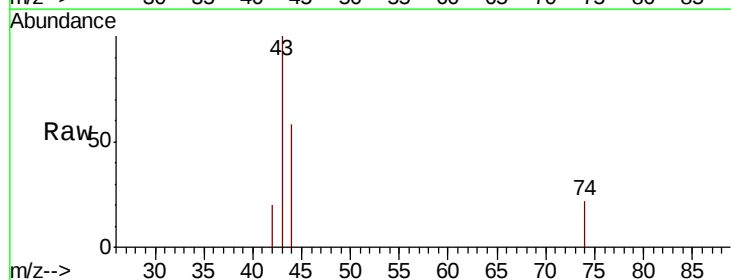
Acq: 30 Jun 2020 7:00

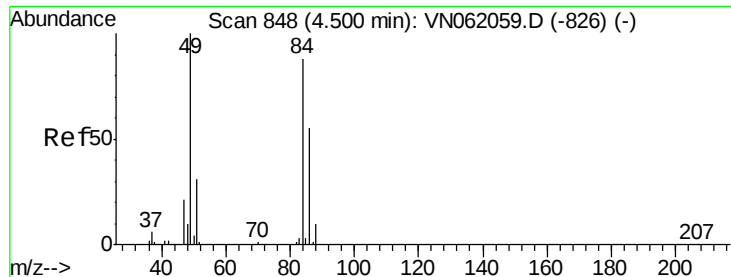
Tgt Ion: 43 Resp: 3042

Ion Ratio Lower Upper

43 100

74 20.7 22.9 34.3#

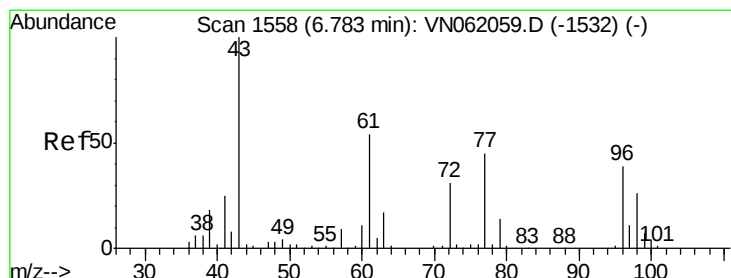
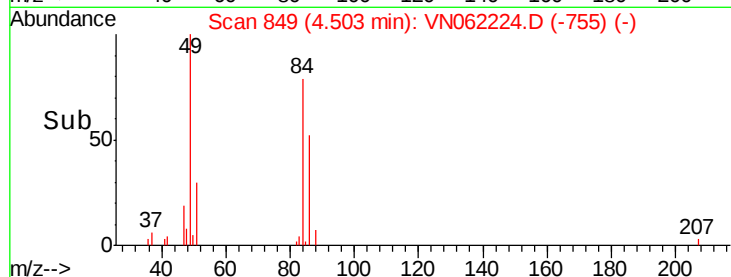
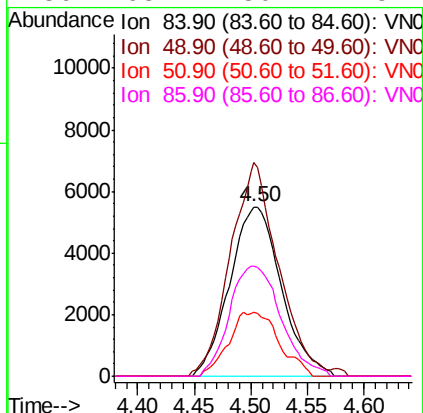
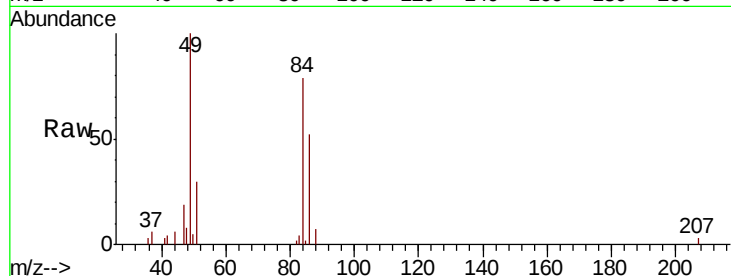




#20
Methvlene Chloride
Concen: 6.562 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062224.D
Acq: 30 Jun 2020 7:00

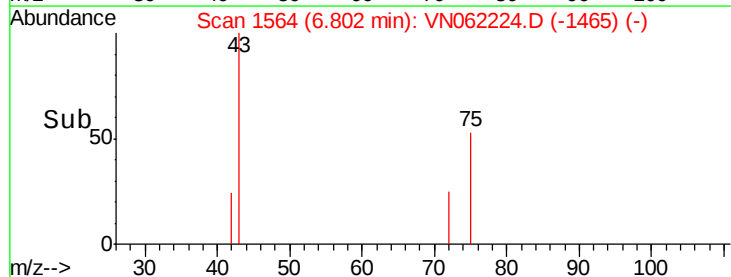
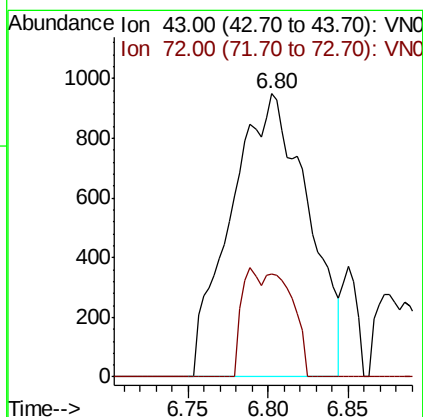
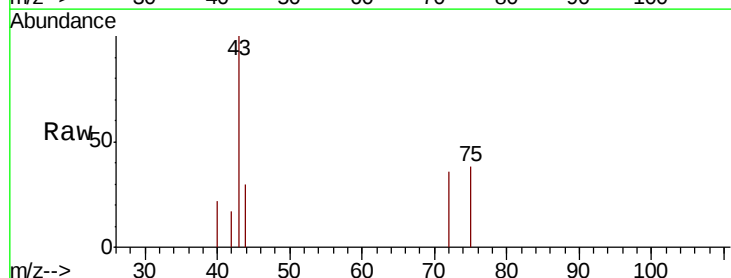
Instrument :
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BP-MW180-SOIL-572-574

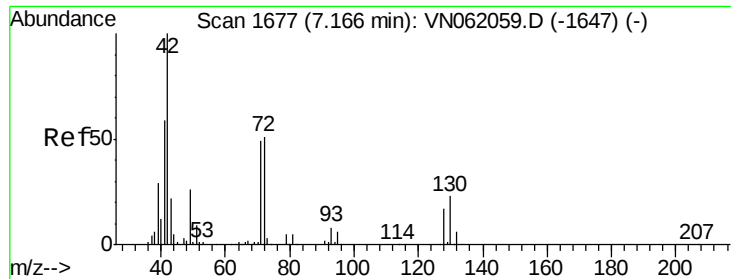
Tot Ion:	84	Resp:	17462
Ion	Ratio	Lower	Upper
84	100		
49	126.4	90.6	136.0
51	38.2	27.8	41.8
86	65.1	50.1	75.1



#25
2-Butanone
Concen: 2.287 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN062224.D
Acq: 30 Jun 2020 7:00

Tgt Ion:	43	Resp:	3150
Ion	Ratio	Lower	Upper
43	100		
72	36.4	24.8	37.2





#29

Tetrahydrofuran

Concen: 0.586 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-572-574

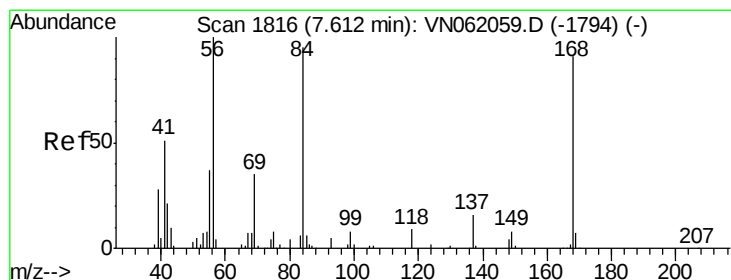
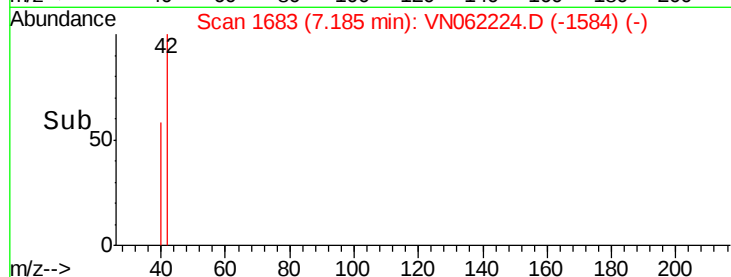
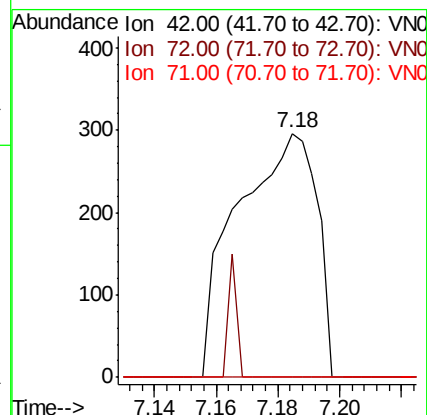
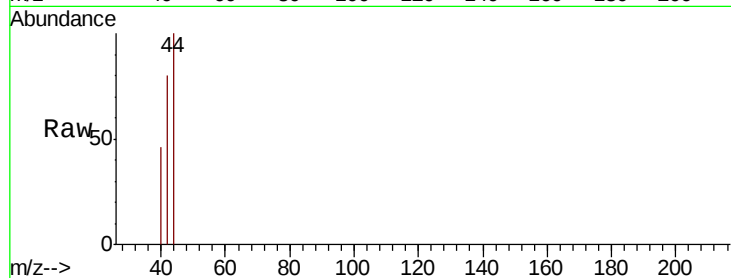
Tot Ion: 42 Resp: 529

Ion Ratio Lower Upper

42 100

72 5.5 41.1 61.7#

71 0.0 38.2 57.4#



#31

Cyclohexane

Concen: 1.304 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

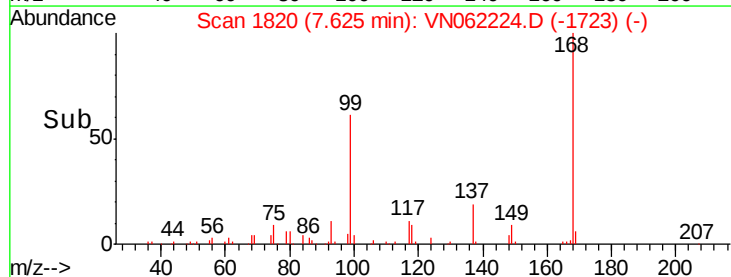
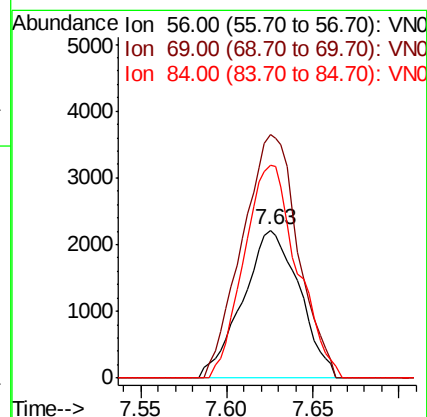
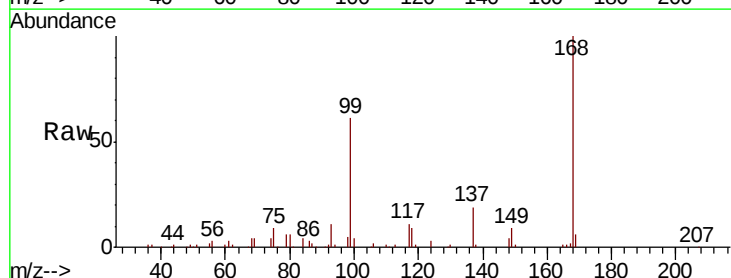
Tgt Ion: 56 Resp: 5077

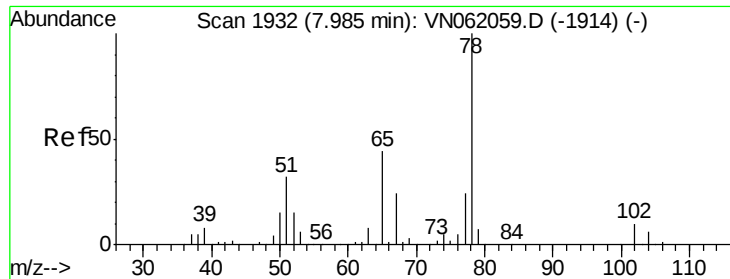
Ion Ratio Lower Upper

56 100

69 164.3 28.0 42.0#

84 143.5 76.1 114.1#





#33

1,2-Dichloroethane-d4

Concen: 56.859 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

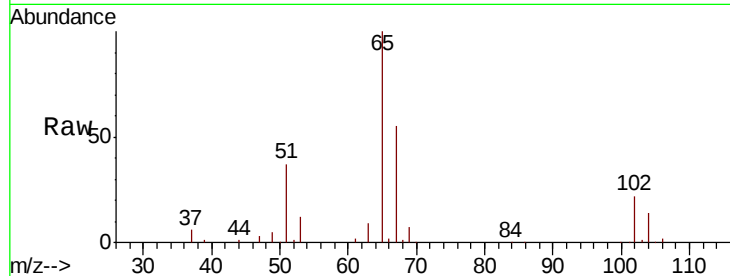
BP-MW180-SOIL-572-574

Tot Ion: 65 Resp: 160233

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062224.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN062224.D (-1839) (-)

7.99

80000

60000

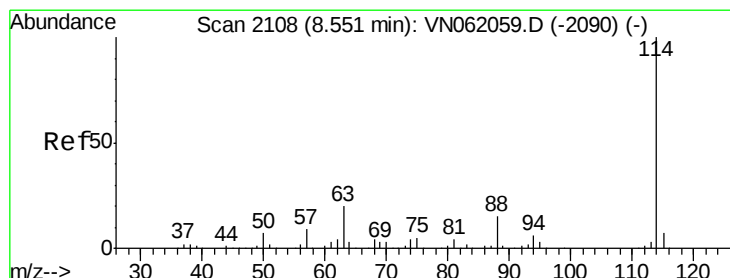
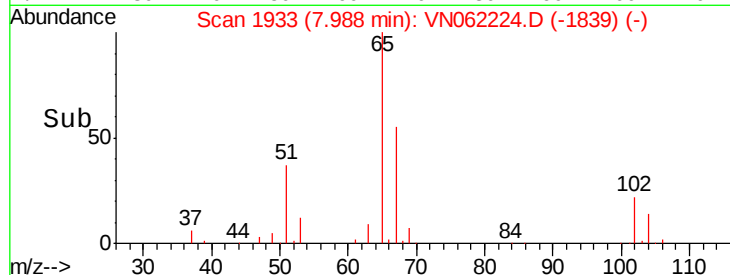
40000

20000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

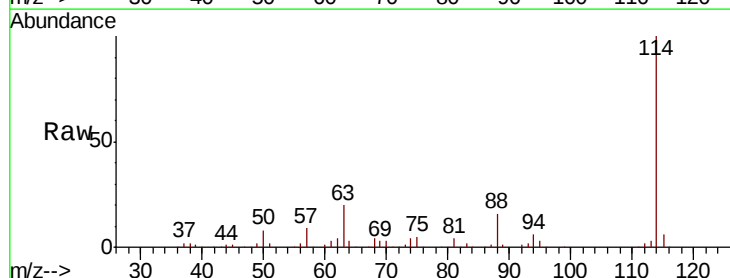
Tgt Ion: 114 Resp: 404073

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.2

88 15.6 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): VN062224.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN062224.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN062224.D (-2015) (-)

8.55

250000

200000

150000

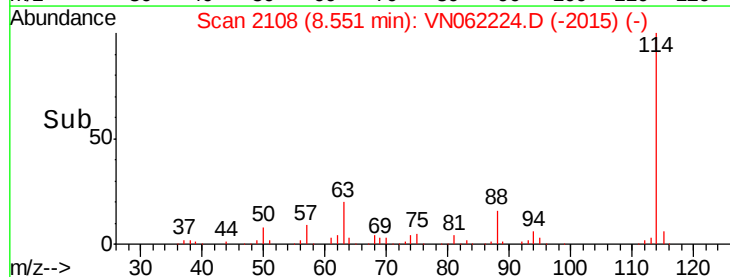
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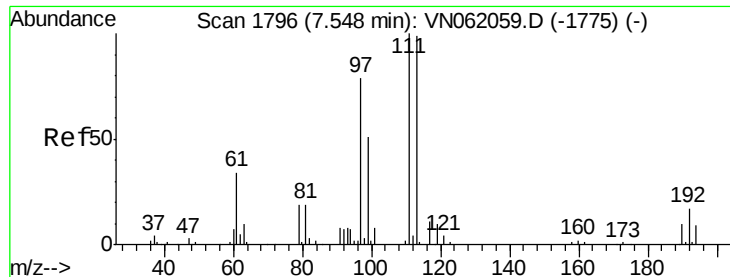
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0

Time-->

8.50 8.60 8.70

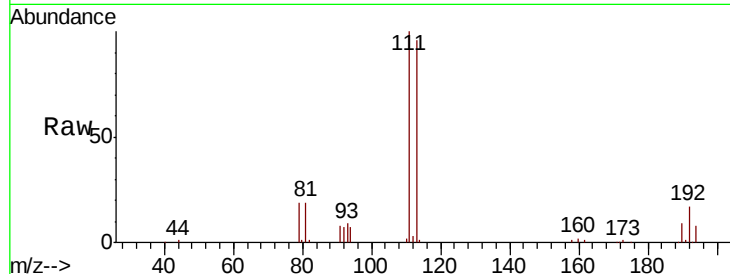




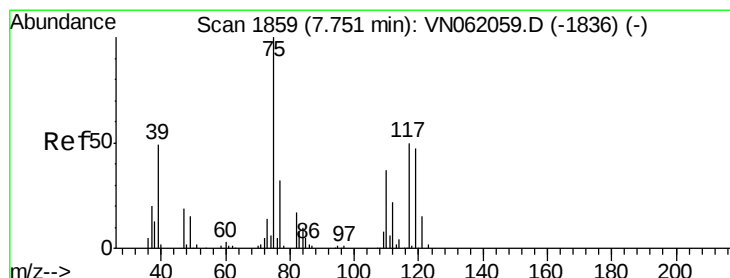
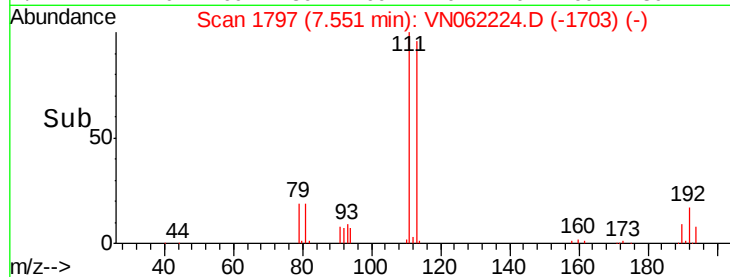
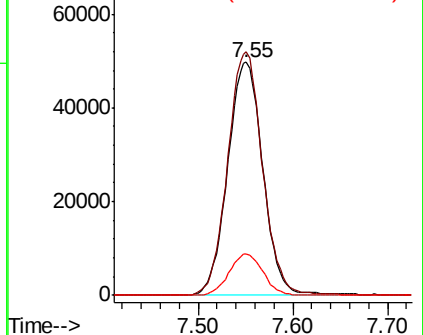
#35
Dibromofluoromethane
Concen: 49.565 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062224.D
Acq: 30 Jun 2020 7:00

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BP-MW180-SOIL-572-574

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.2	123.4
192	17.1	14.0	21.0

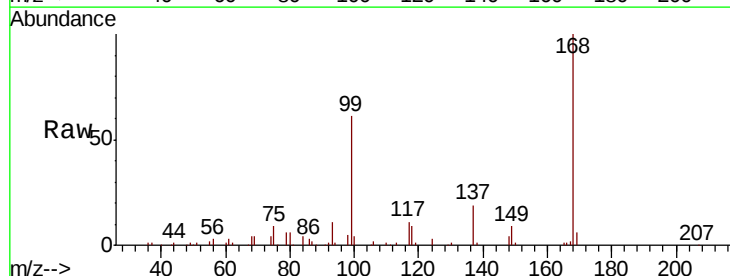


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

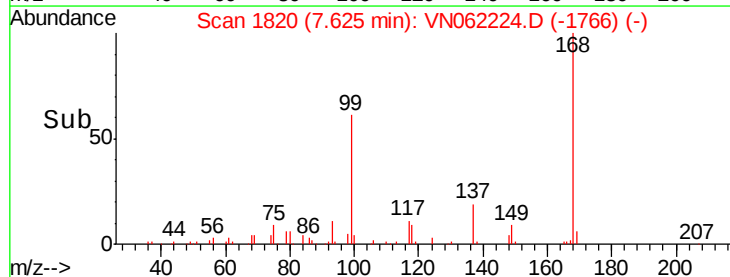
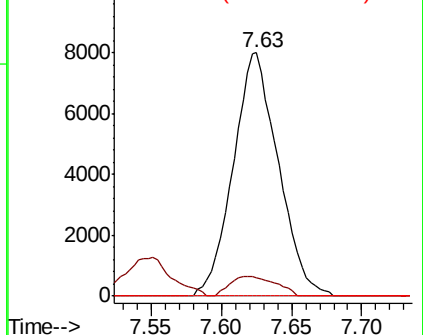


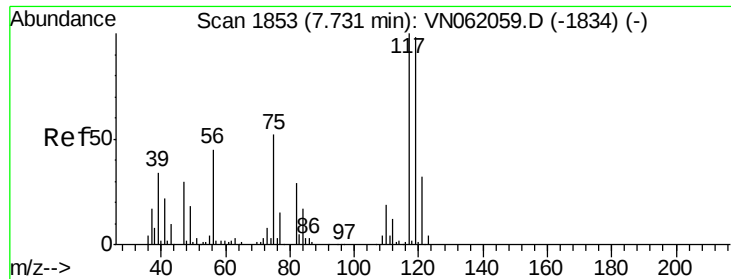
#36
1,1-Dichloropropene
Concen: 4.406 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.13 min
Lab File: VN062224.D
Acq: 30 Jun 2020 7:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.9	53.8#
77	0.0	24.9	37.3#



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





#38

Carbon Tetrachloride

Concen: 5.485 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-572-574

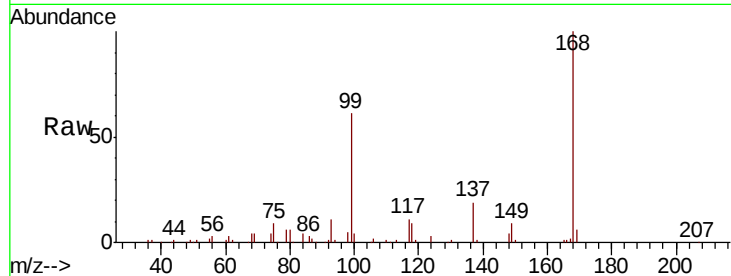
Tot Ion:117 Resp: 21001

Ion Ratio Lower Upper

117 100

119 5.5 78.2 117.2#

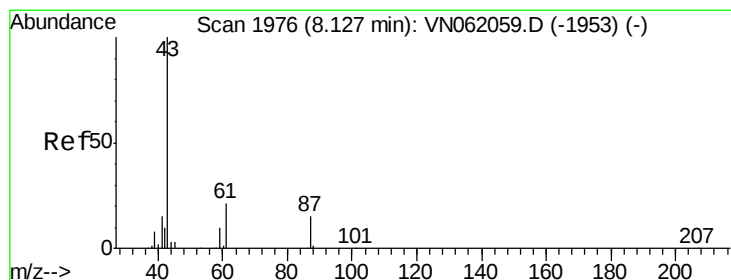
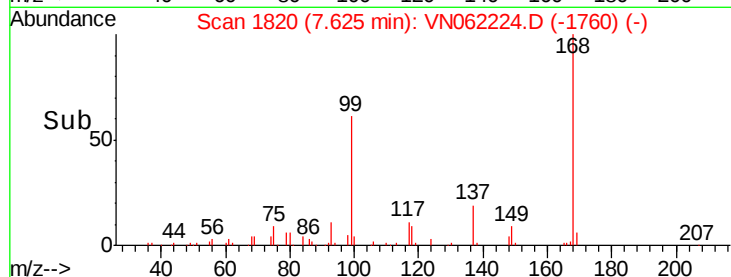
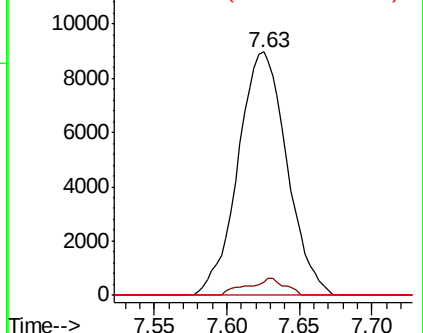
121 0.0 25.8 38.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.067 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

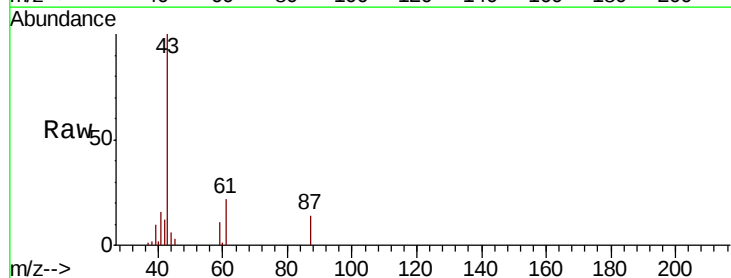
Tgt Ion: 43 Resp: 44226

Ion Ratio Lower Upper

43 100

61 21.6 17.2 25.8

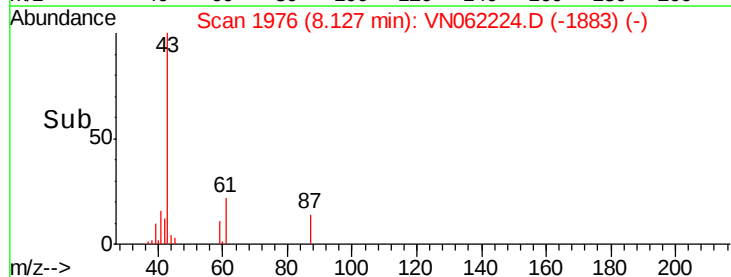
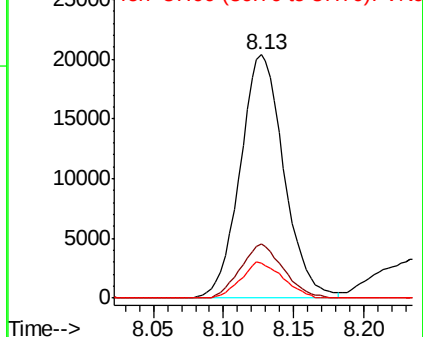
87 14.1 12.1 18.1

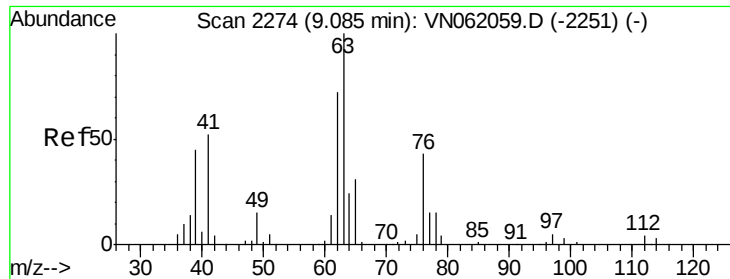


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.363 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

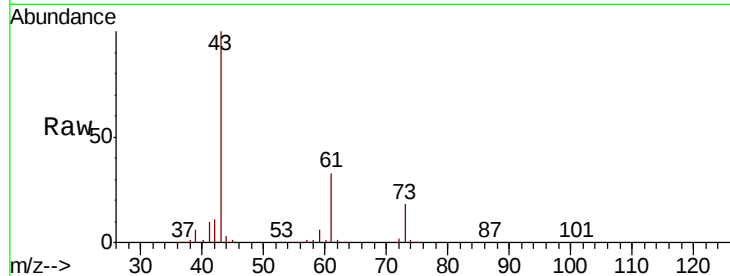
BP-MW180-SOIL-572-574

Tot Ion: 63 Resp: 1110

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

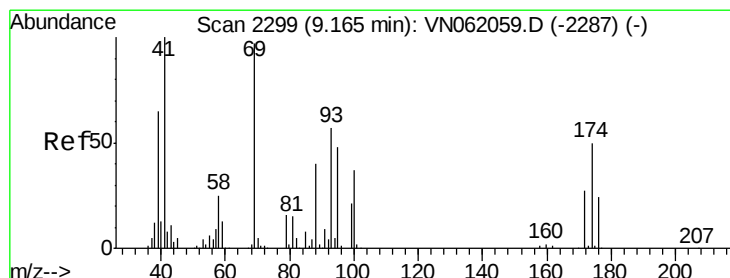
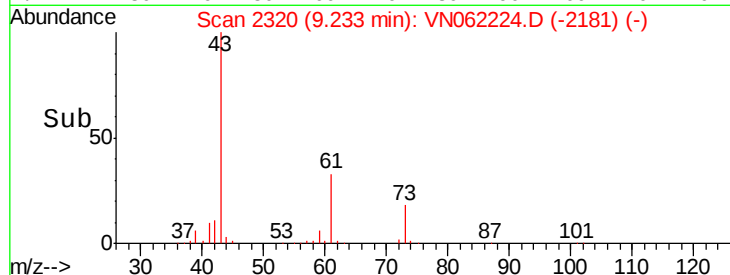
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.222 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

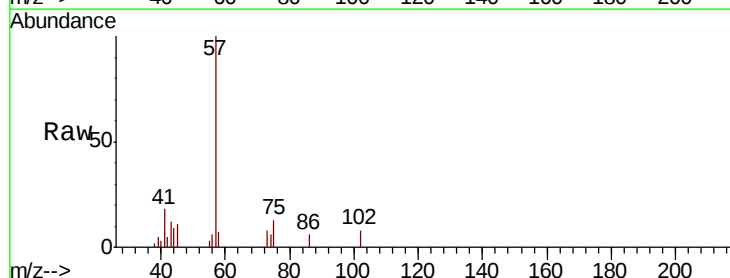
Tgt Ion: 41 Resp: 3004

Ion Ratio Lower Upper

41 100

69 0.0 80.7 121.1#

39 0.0 54.5 81.7#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

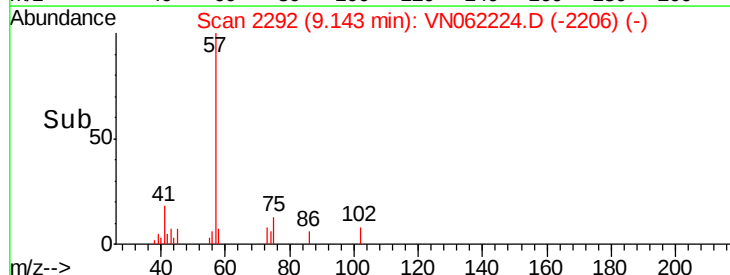
30000

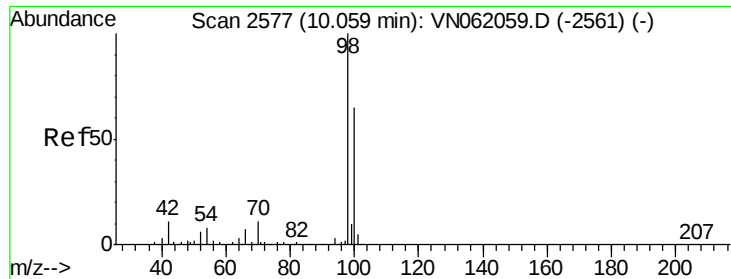
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 51.950 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

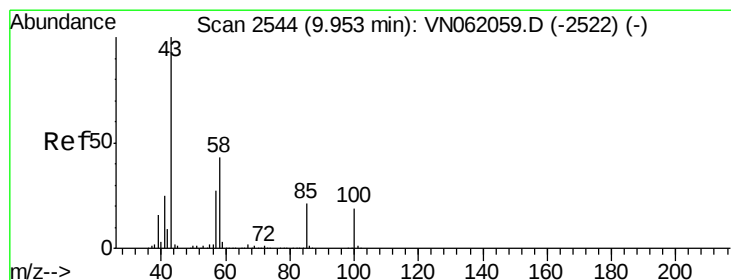
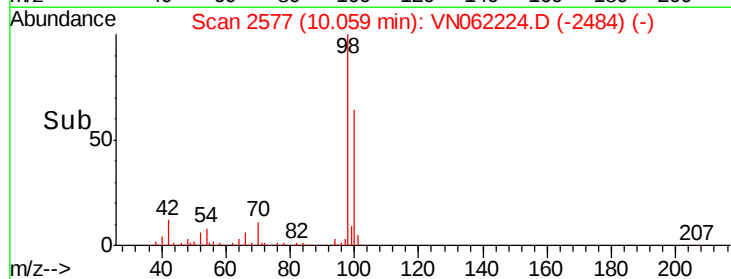
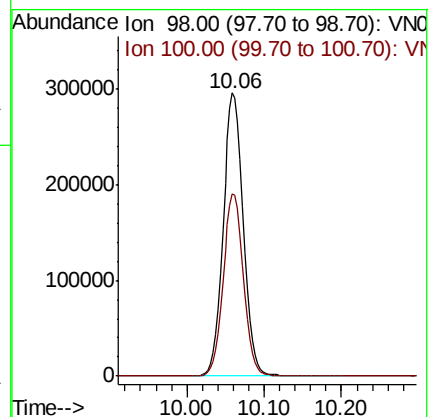
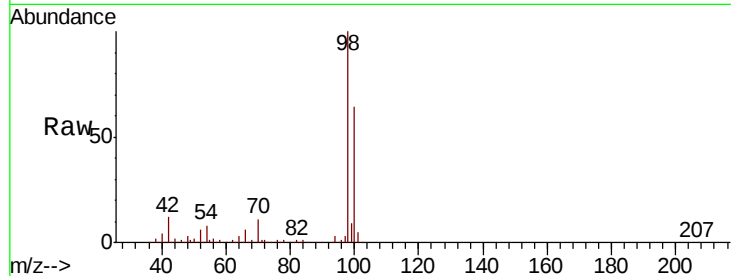
BP-MW180-SOIL-572-574

Tot Ion: 98 Resp: 538324

Ion Ratio Lower Upper

98 100

100 64.8 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.388 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062224.D

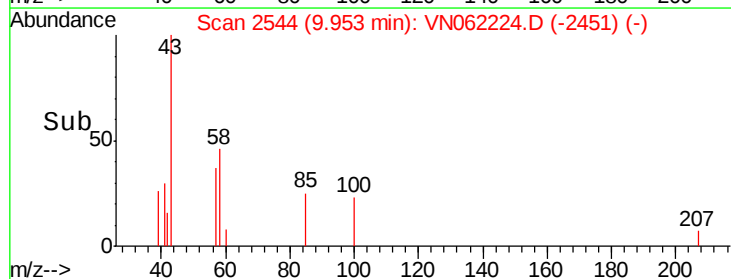
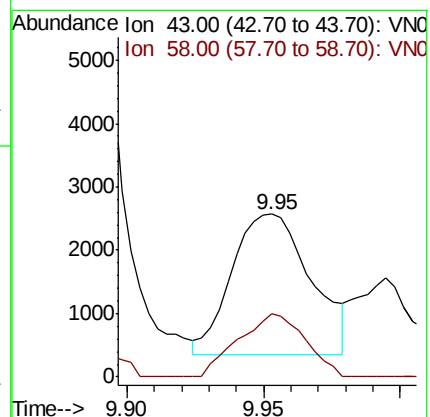
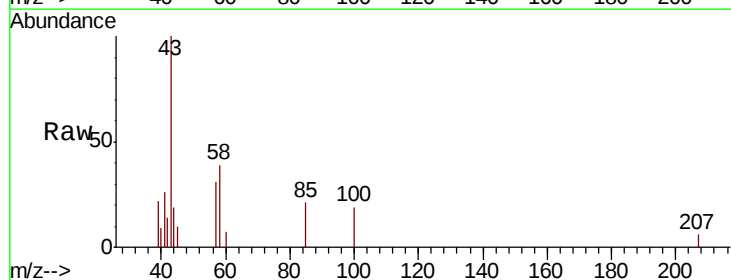
Acq: 30 Jun 2020 7:00

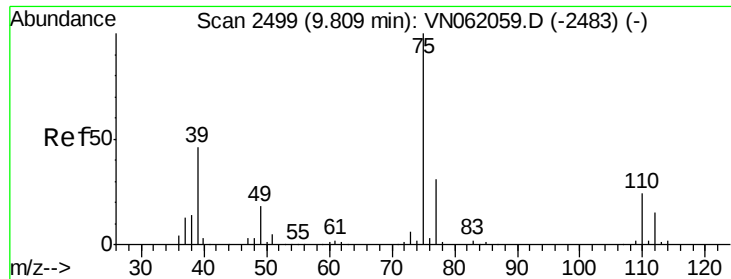
Tgt Ion: 43 Resp: 4447

Ion Ratio Lower Upper

43 100

58 38.1 34.2 51.2

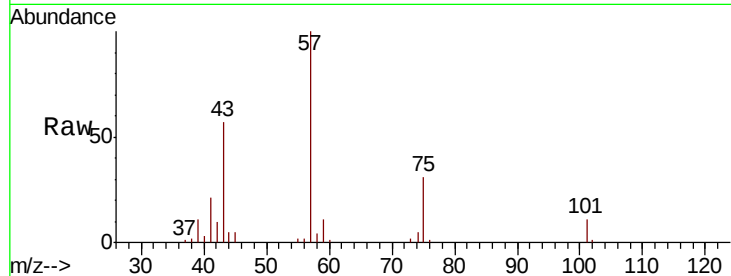




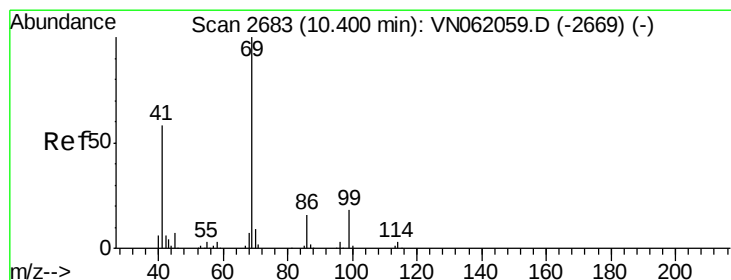
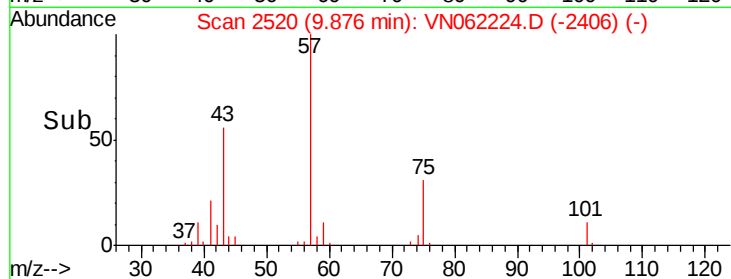
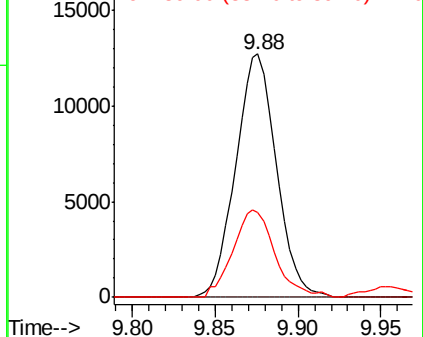
#54
 cis-1,3-Dichloropropene
 Concen: 4.431 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062224.D
 Acq: 30 Jun 2020 7:00

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-572-574

Tot Ion: 75 Resp: 21697
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 34.9 36.9 55.3#

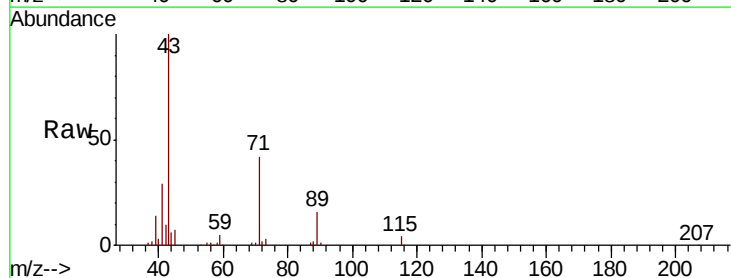


Abundance Ion 74.90 (74.60 to 75.60): VNC
 Ion 76.90 (76.60 to 77.60): VNC
 Ion 39.00 (38.70 to 39.70): VNC

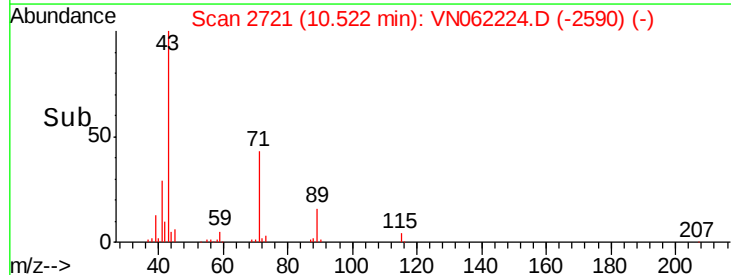
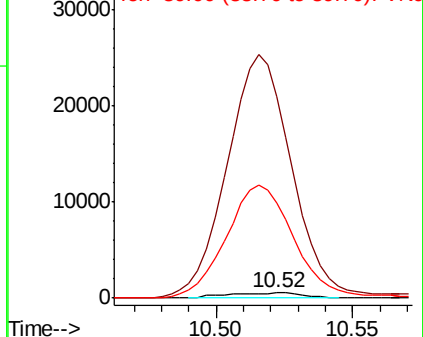


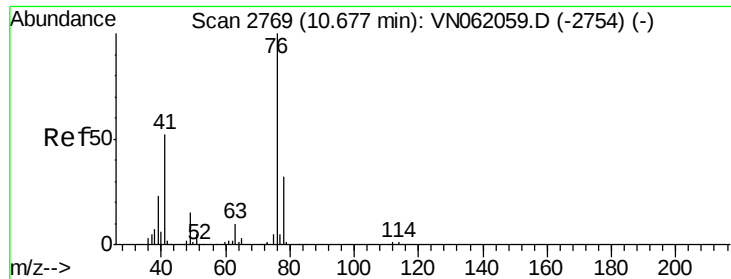
#56
 Ethyl methacrylate
 Concen: 0.265 ug/l
 RT: 10.52 min Scan# 2721
 Delta R.T. 0.12 min
 Lab File: VN062224.D
 Acq: 30 Jun 2020 7:00

Tgt Ion: 69 Resp: 1052
 Ion Ratio Lower Upper
 69 100
 41 4021.7 46.6 70.0#
 39 1940.7 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VNC
 Ion 41.00 (40.70 to 41.70): VNC
 Ion 39.00 (38.70 to 39.70): VNC

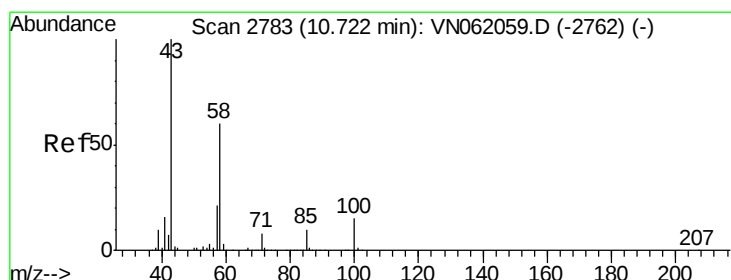
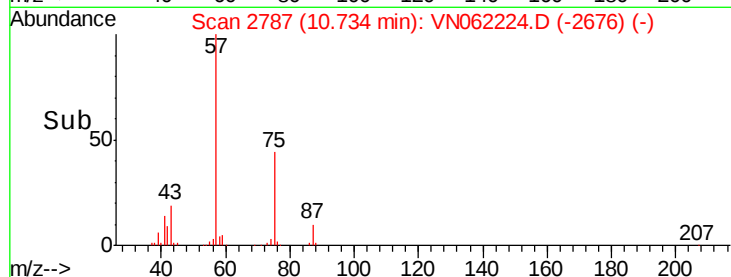
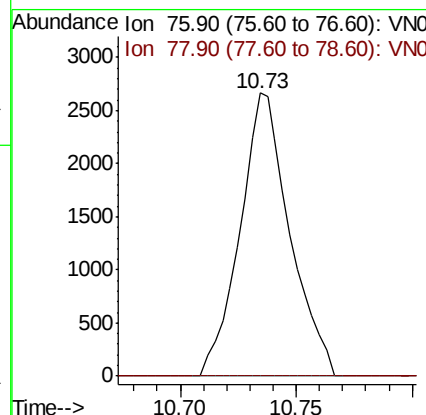
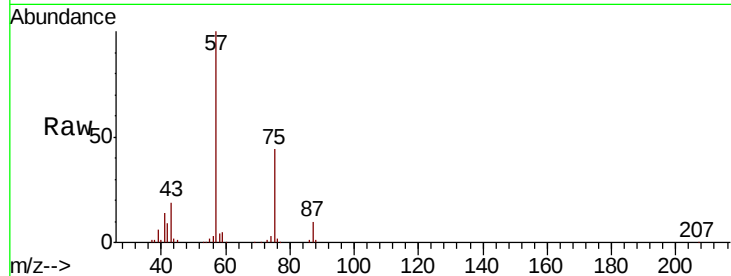




#57
 1,3-Dichloropropane
 Concen: 0.776 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN062224.D
 Acq: 30 Jun 2020 7:00

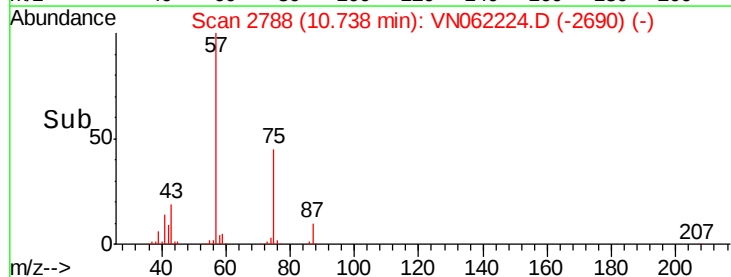
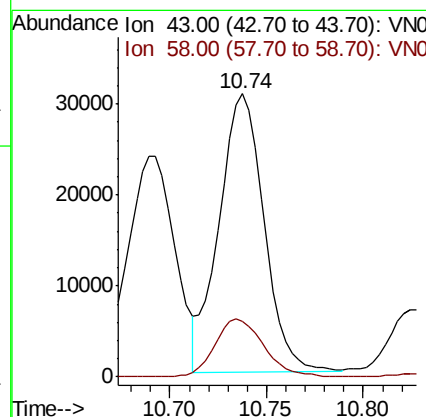
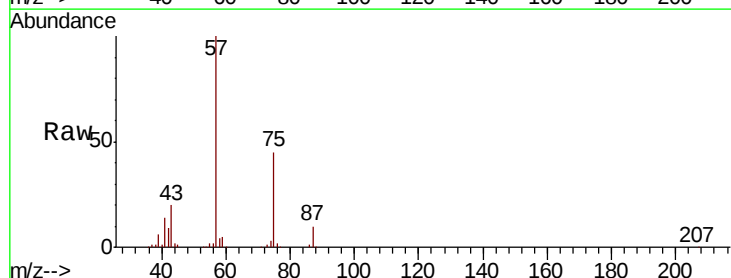
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-572-574

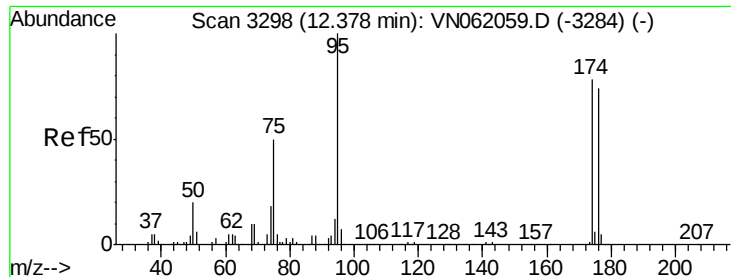
Tot Ion: 76 Resp: 3966
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 21.462 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062224.D
 Acq: 30 Jun 2020 7:00

Tgt Ion: 43 Resp: 49643
 Ion Ratio Lower Upper
 43 100
 58 22.4 29.5 88.5#

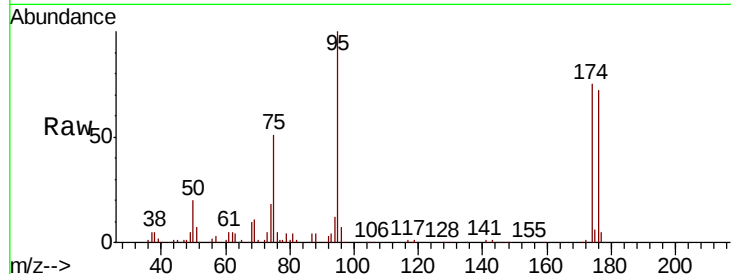




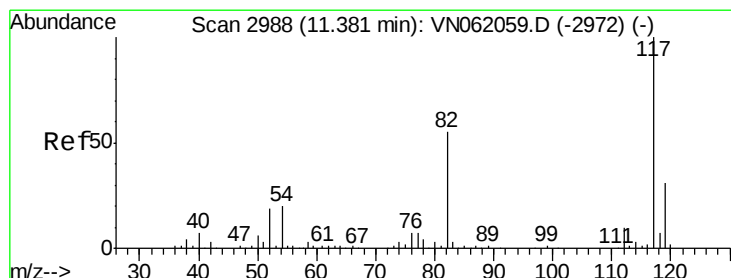
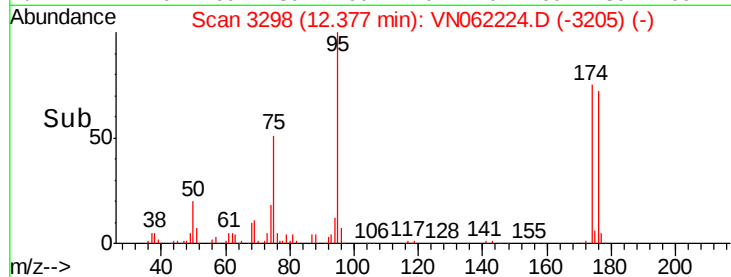
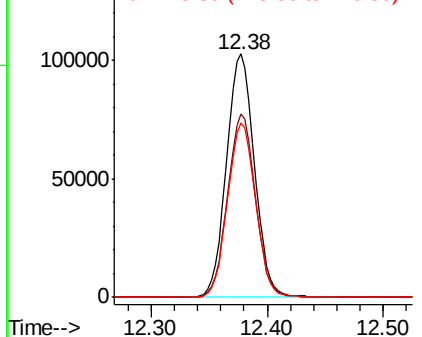
#62
4-Bromofluorobenzene
Concen: 48.659 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062224.D
Acq: 30 Jun 2020 7:00

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-572-574

Tot Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	154.8
176	71.7	0.0	147.4

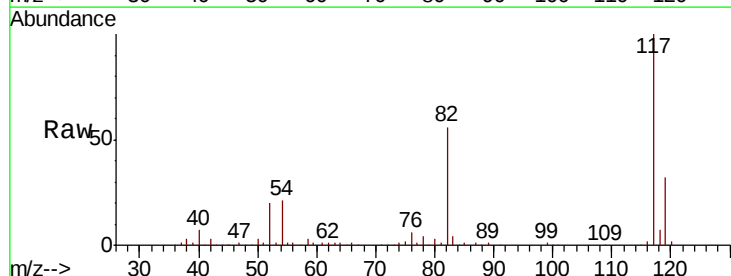


Abundance Ion 94.90 (94.60 to 95.60): VN062059.D (-3284) (-)
Ion 173.80 (173.50 to 174.50): VN062059.D (-3284) (-)
Ion 175.80 (175.50 to 176.50): VN062059.D (-3284) (-)

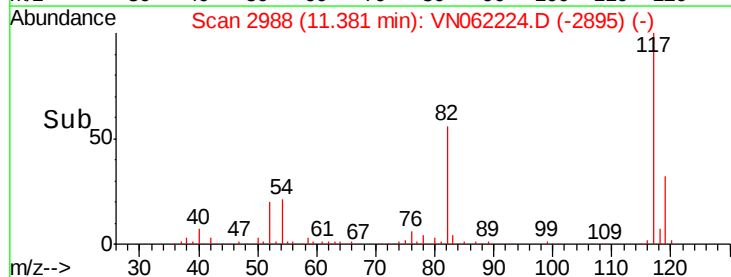
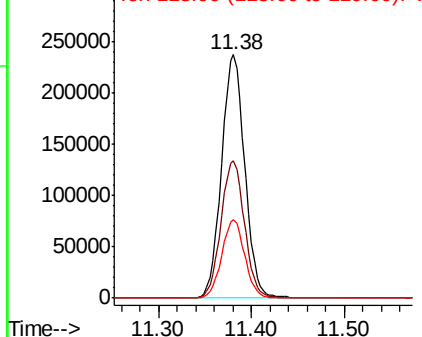


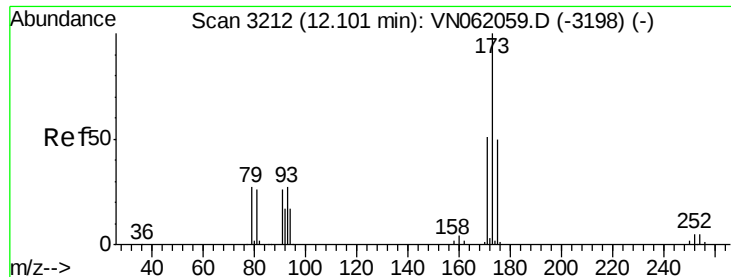
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062224.D
Acq: 30 Jun 2020 7:00

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.4	43.8	65.8
119	32.2	25.2	37.8



Abundance Ion 116.90 (116.60 to 117.60): VN062059.D (-2972) (-)
Ion 82.00 (81.70 to 82.70): VN062059.D (-2972) (-)
Ion 118.90 (118.60 to 119.60): VN062059.D (-2972) (-)





#71

Bromoform

Concen: 0.280 ug/l

RT: 12.37 min Scan# 3296

Delta R.T. 0.27 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-572-574

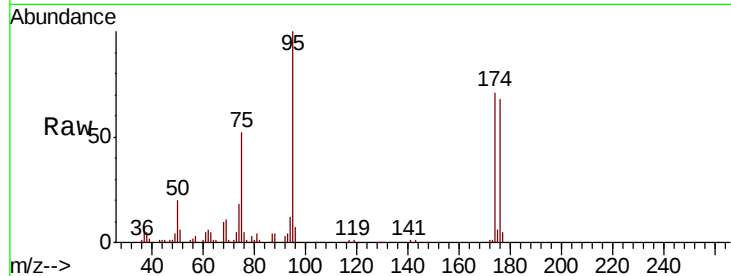
Tot Ion:173 Resp: 622

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

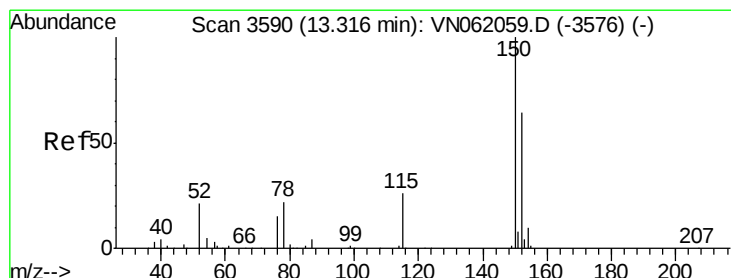
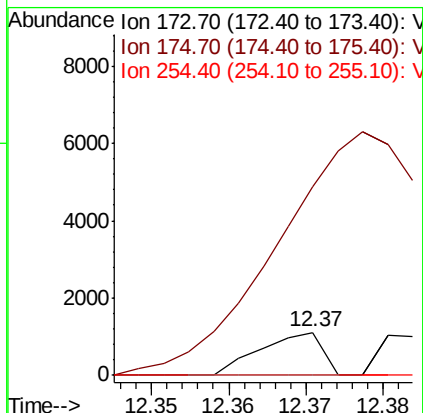
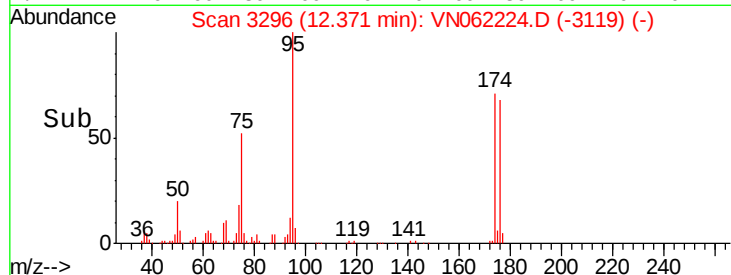
254 0.0 0.0 0.0



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: VN062224.D

Acq: 30 Jun 2020 7:00

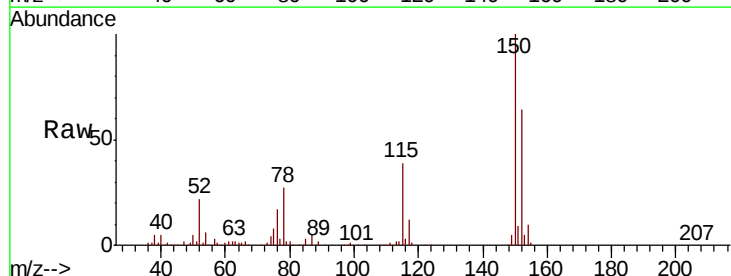
Tgt Ion:152 Resp: 144670

Ion Ratio Lower Upper

152 100

115 60.2 29.5 88.5

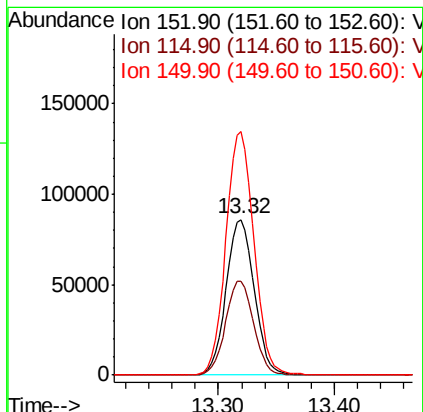
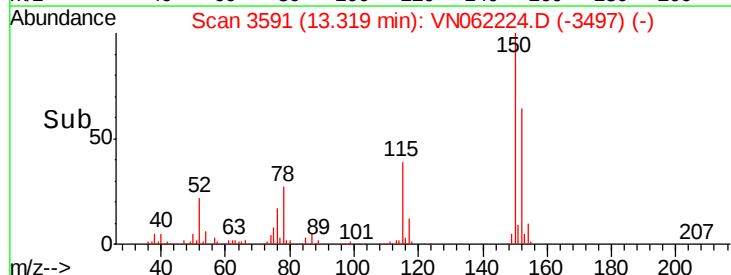
150 156.1 0.0 351.4

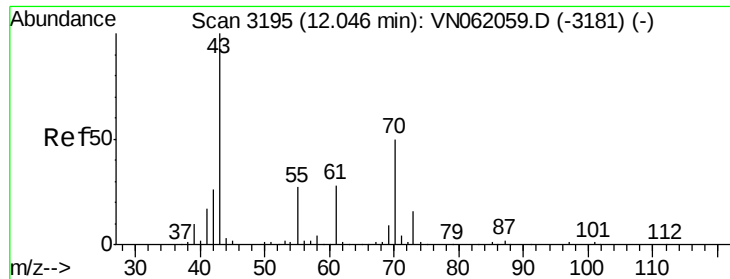


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.748 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-572-574

Tot Ion: 43 Resp: 1789

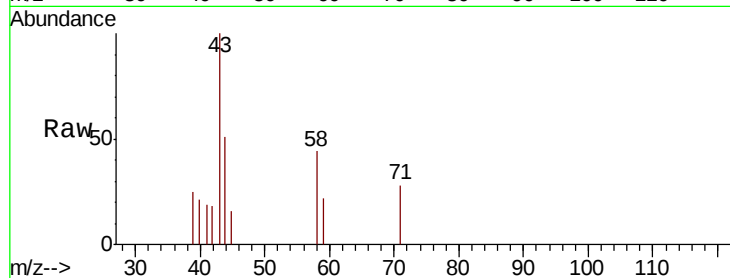
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#



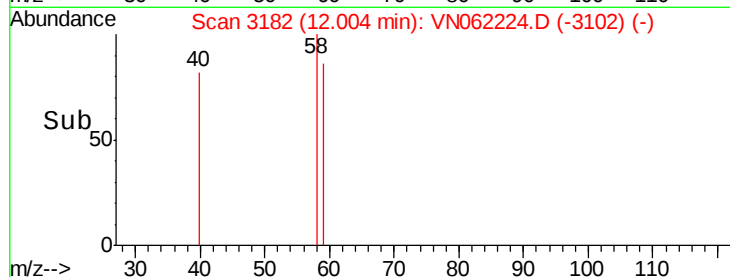
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Time-->



Abundance

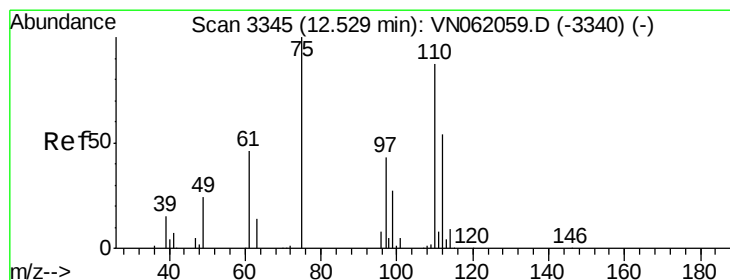
Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Time-->



#76

1,2,3-Trichloropropane

Concen: 25.978 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062224.D

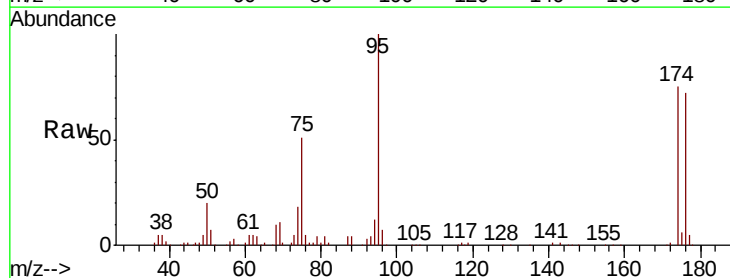
Acq: 30 Jun 2020 7:00

Tgt Ion: 75 Resp: 88473

Ion Ratio Lower Upper

75 100

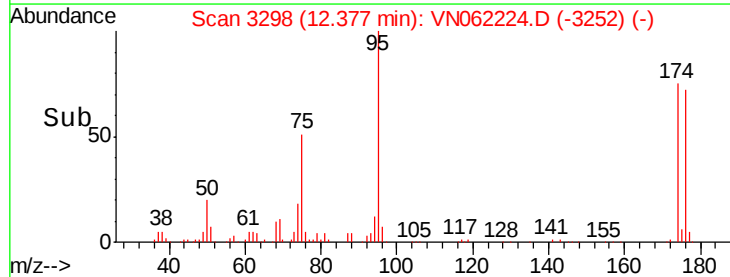
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

Time-->

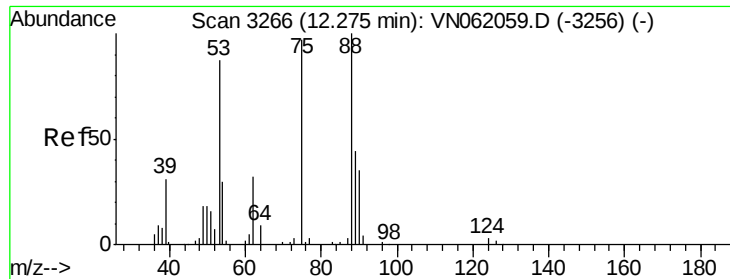


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 75.866 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062224.D

Acq: 30 Jun 2020 7:00

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-572-574

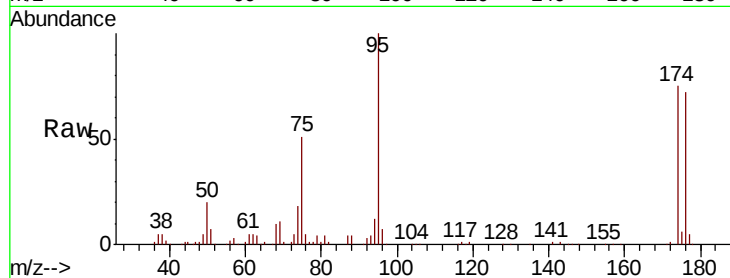
Tot Ion: 75 Resp: 88473

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

