

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070120\
 Data File : VN062329.D
 Acq On : 2 Jul 2020 7:58
 Operator : JC/MD
 Sample : L3164-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-594-598

Quant Time: Jul 02 08:29:36 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	200283	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	433066	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	422998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	142043	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	171303	60.95	ug/l	0.00
Spiked Amount			Recovery	=	121.90%	
35) Dibromofluoromethane	7.55	113	135860	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
50) Toluene-d8	10.06	98	564853	50.86	ug/l	0.00
Spiked Amount			Recovery	=	101.72%	
62) 4-Bromofluorobenzene	12.38	95	175620	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	

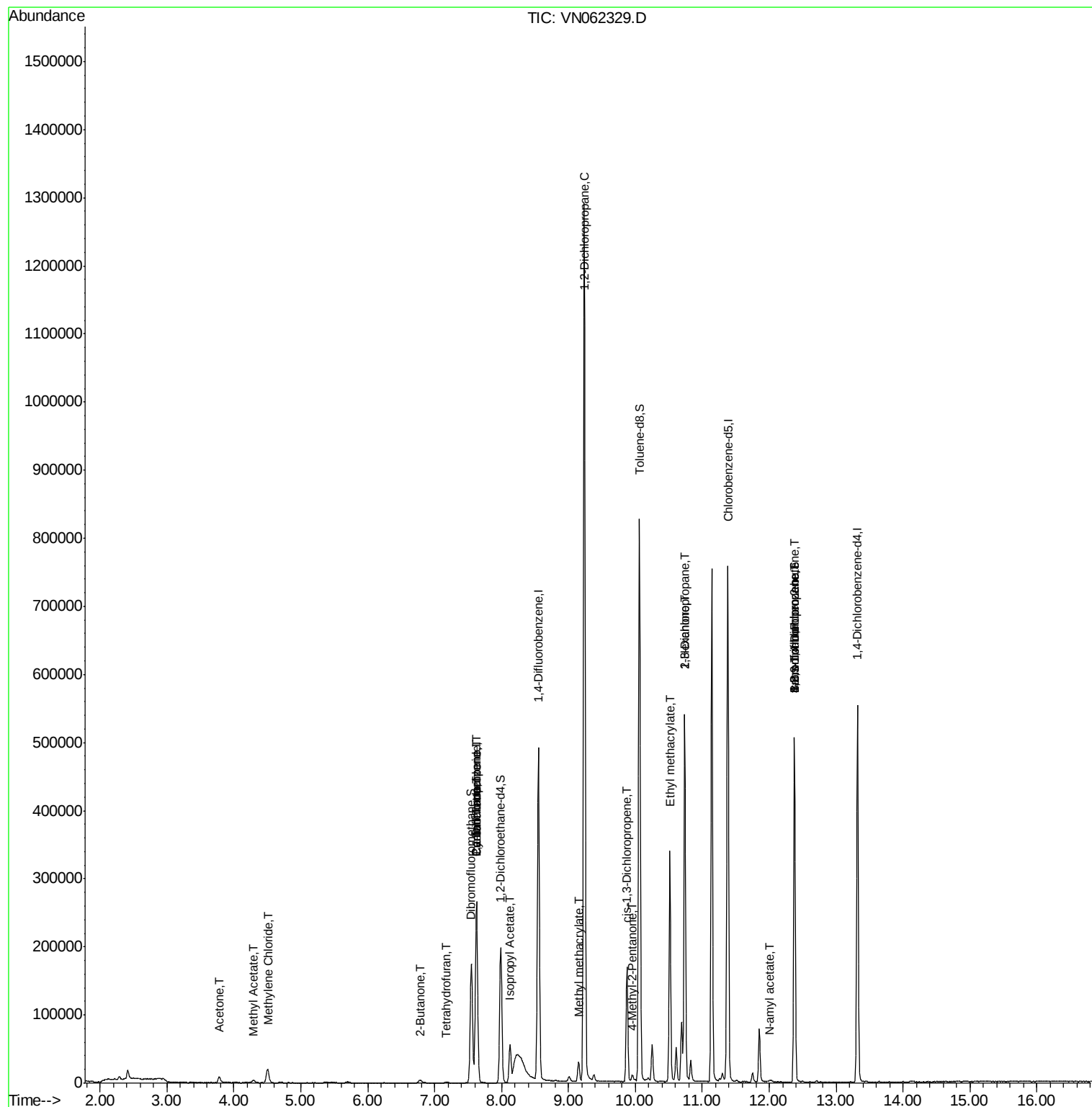
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	155	Below Cal	#	41
16) Acetone	3.78	43	14874	13.020	ug/l	94
18) Methyl Acetate	4.28	43	8192	3.666	ug/l #	50
20) Methylene Chloride	4.51	84	14941	5.598	ug/l #	83
25) 2-Butanone	6.79	43	446	0.325	ug/l #	46
29) Tetrahydrofuran	7.18	42	824	0.916	ug/l #	57
31) Cyclohexane	7.62	56	5267	1.356	ug/l #	25
36) 1,1-Dichloropropene	7.62	75	18977	4.360	ug/l #	48
38) Carbon Tetrachloride	7.63	117	22224	5.415	ug/l #	16
43) Isopropyl Acetate	8.13	43	64169	10.921	ug/l	97
45) 1,2-Dichloropropane	9.24	63	1588	0.485	ug/l #	43
48) Methyl methacrylate	9.15	41	4419	1.677	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	6557	1.910	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	30440	5.800	ug/l #	70
56) Ethyl methacrylate	10.52	69	1738	0.409	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5491	1.002	ug/l #	42
59) 2-Hexanone	10.74	43	71177	28.712	ug/l #	50
71) Bromoform	12.38	173	848	0.371	ug/l #	1
74) N-amyl acetate	12.00	43	1493	3.687	ug/l #	40
76) 1,2,3-Trichloropropane	12.38	75	91274	27.296	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	91274	79.716	ug/l #	13

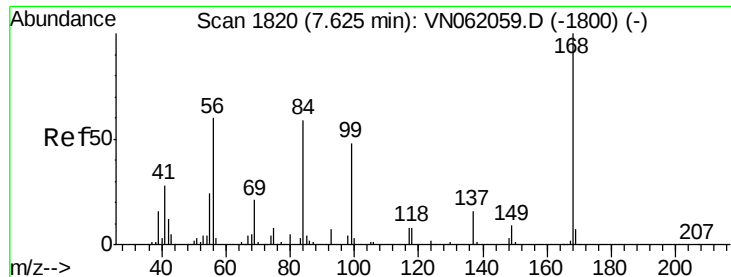
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VN062329.D

Acq: 2 Jul 2020 7:58

Instrument :

MSVOA_N

ClientSampleId :

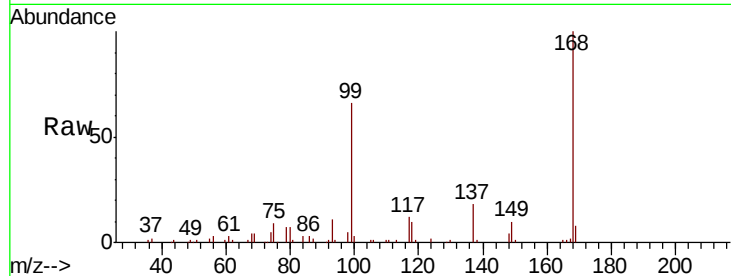
BP-MW180-SOIL-594-598

Tot Ion:168 Resp: 200283

Ion Ratio Lower Upper

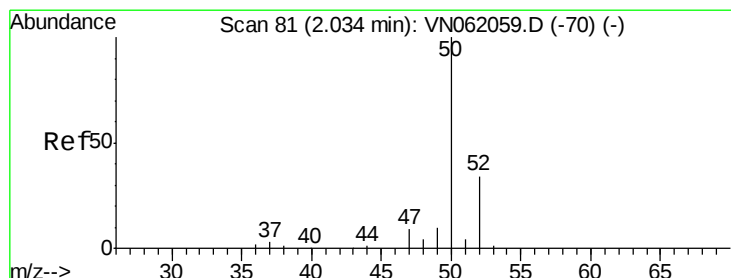
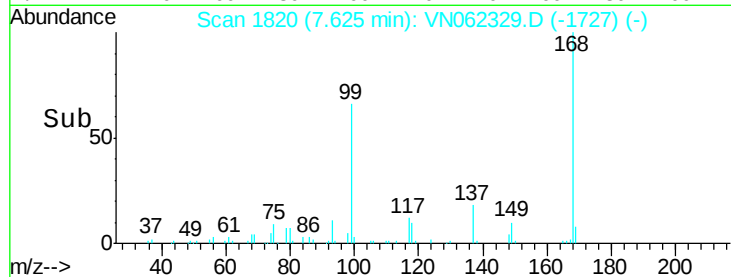
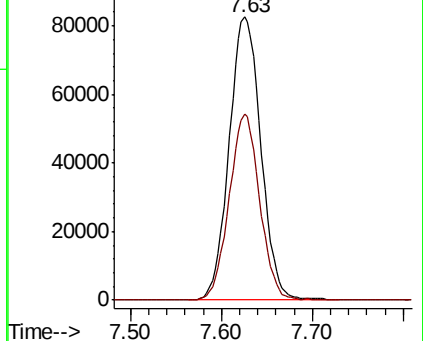
168 100

99 65.9 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062329.D

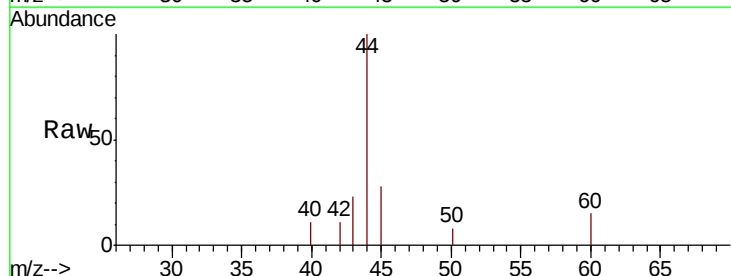
Acq: 2 Jul 2020 7:58

Tgt Ion: 50 Resp: 155

Ion Ratio Lower Upper

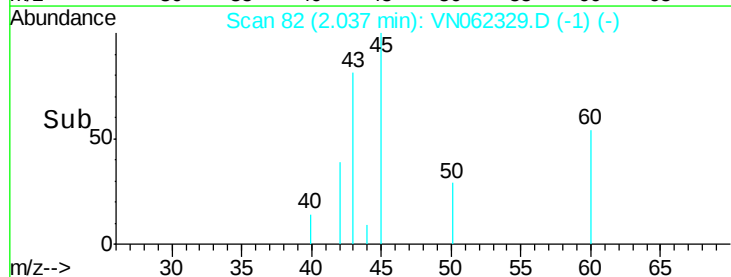
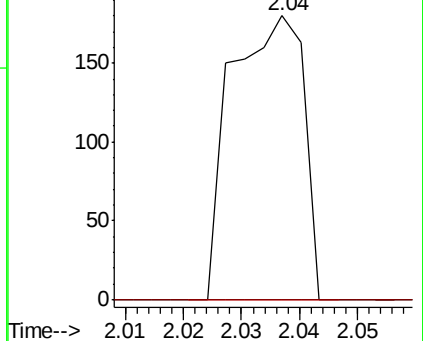
50 100

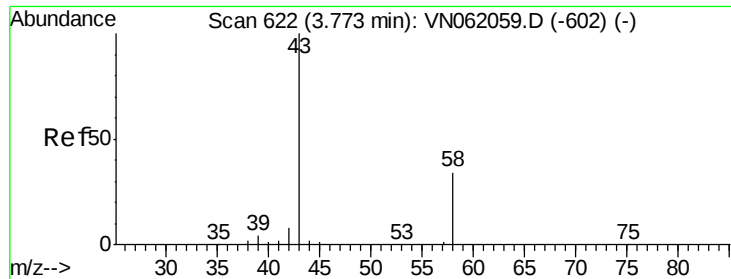
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#16

Acetone

Concen: 13.020 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062329.D

Acq: 2 Jul 2020 7:58

Instrument :

MSVOA_N

ClientSampleId :

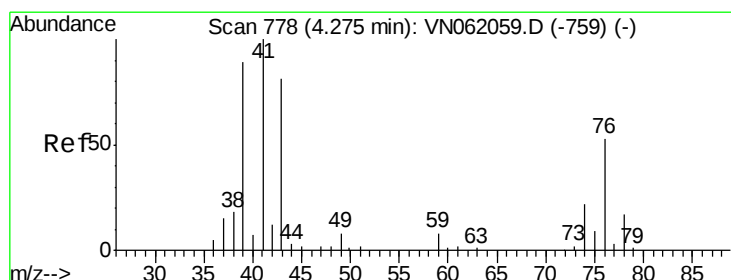
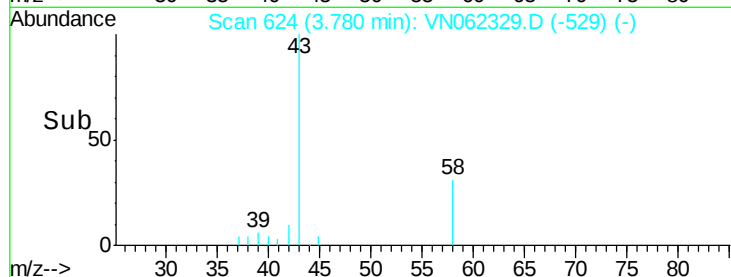
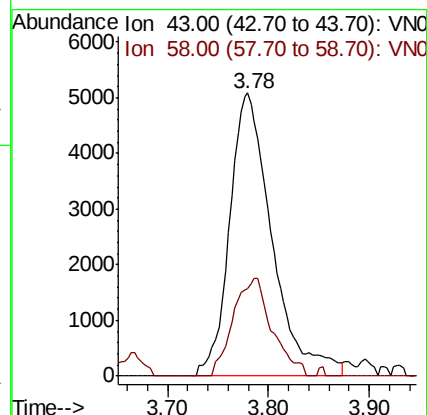
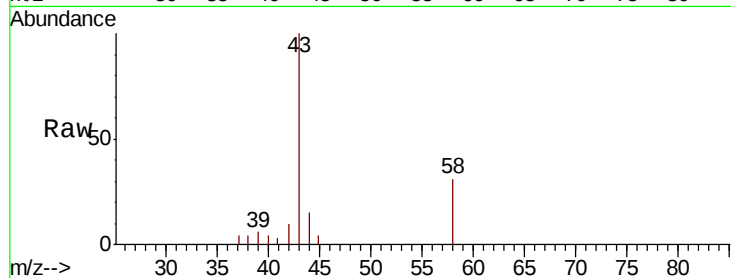
BP-MW180-SOIL-594-598

Tot Ion: 43 Resp: 14874

Ion Ratio Lower Upper

43 100

58 31.0 27.5 41.3



#18

Methyl Acetate

Concen: 3.666 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN062329.D

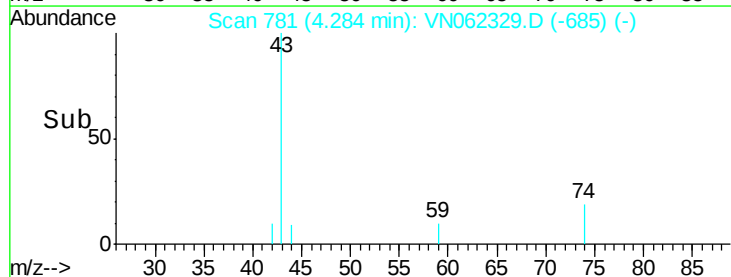
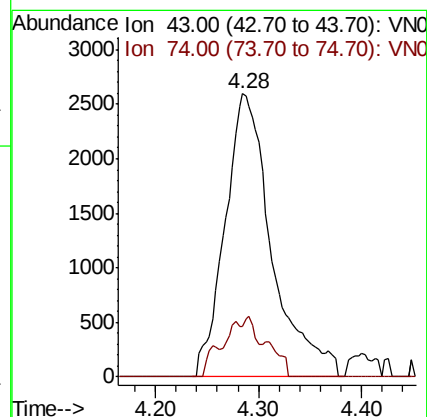
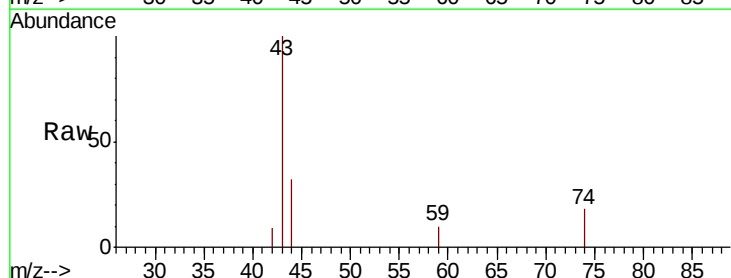
Acq: 2 Jul 2020 7:58

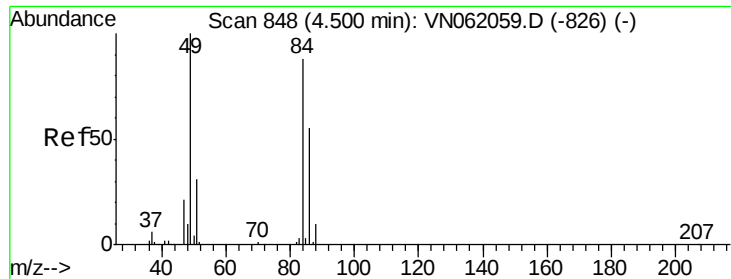
Tgt Ion: 43 Resp: 8192

Ion Ratio Lower Upper

43 100

74 2.0 22.9 34.3#

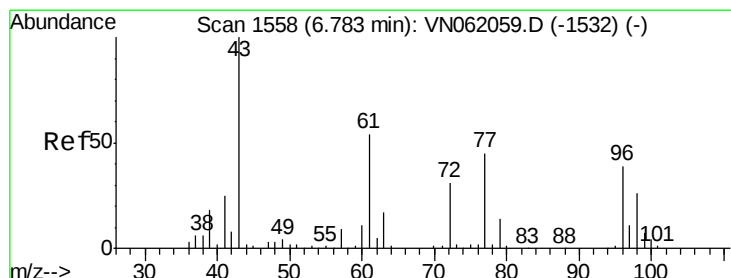
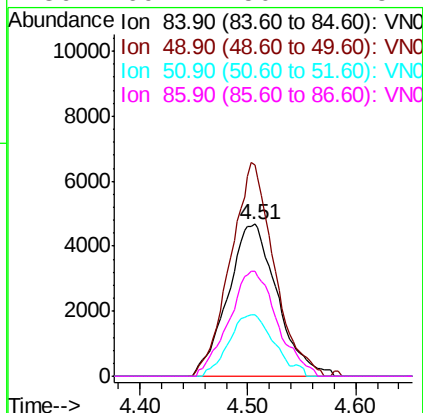
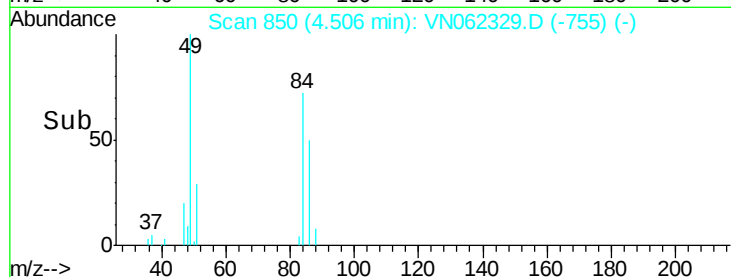
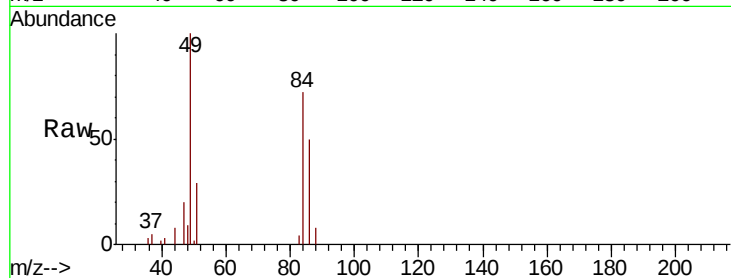




#20
Methvlene Chloride
Concen: 5.598 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

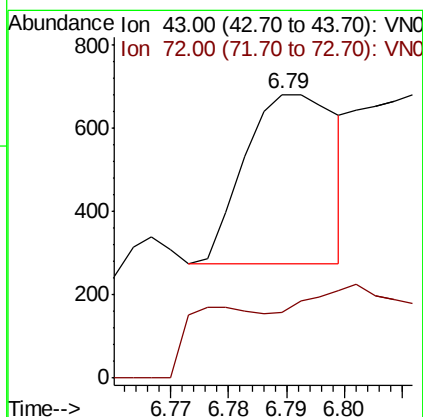
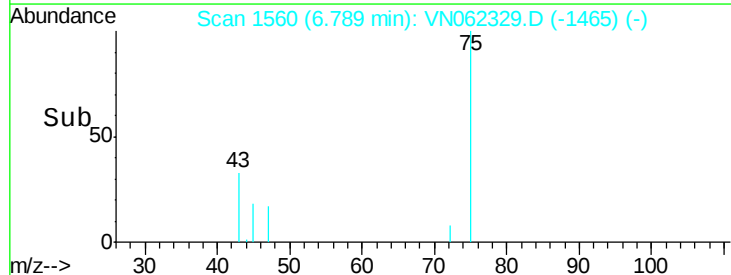
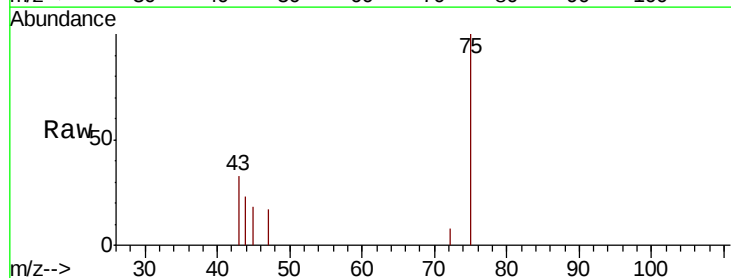
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-594-598

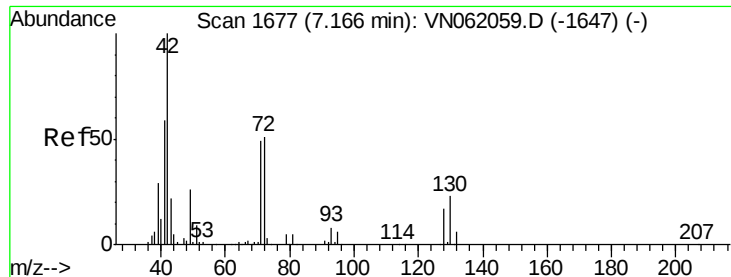
Tot Ion: 84 Resp: 14941
Ion Ratio Lower Upper
84 100
49 139.5 90.6 136.0#
51 40.4 27.8 41.8
86 69.4 50.1 75.1



#25
2-Butanone
Concen: 0.325 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

Tgt Ion: 43 Resp: 446
Ion Ratio Lower Upper
43 100
72 1.5 24.8 37.2#

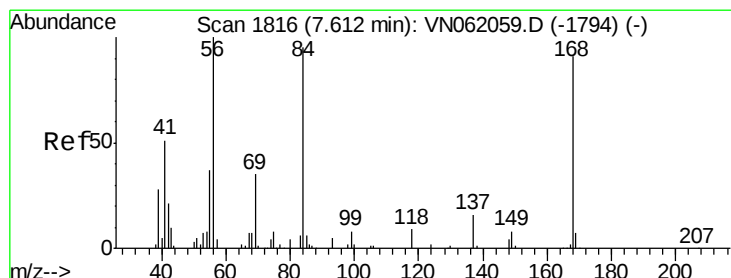
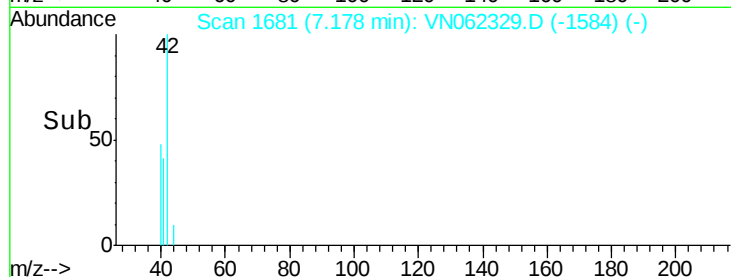
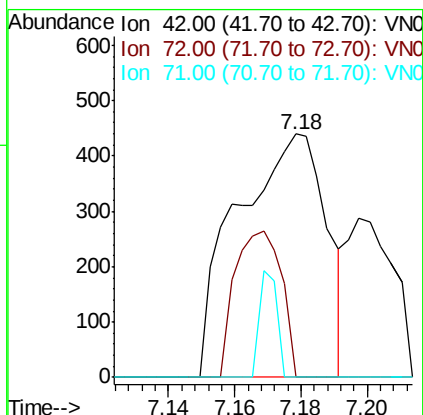
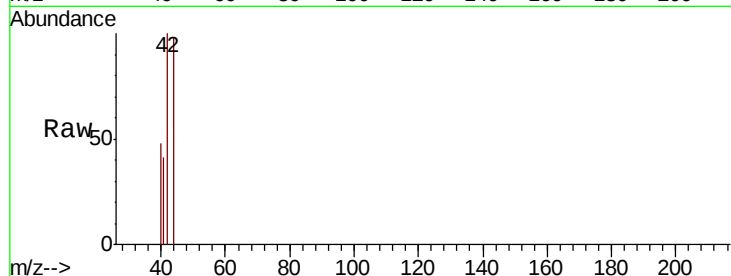




#29
Tetrahydrofuran
Concen: 0.916 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

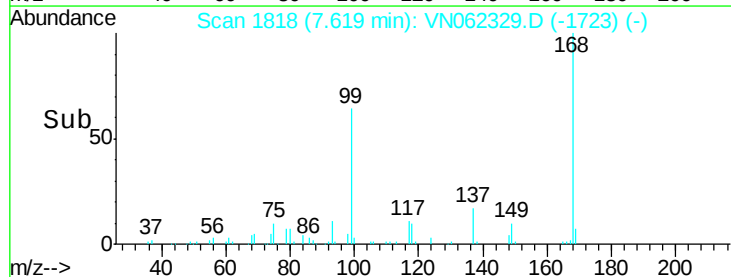
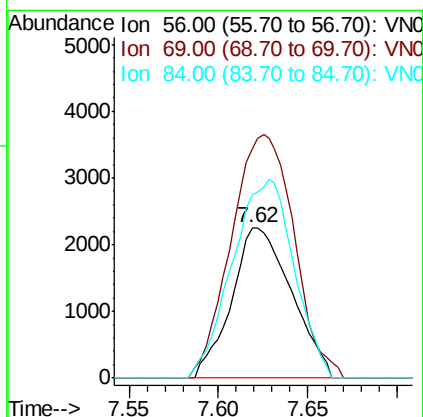
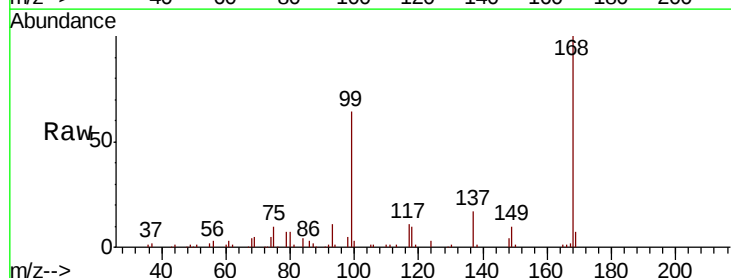
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-594-598

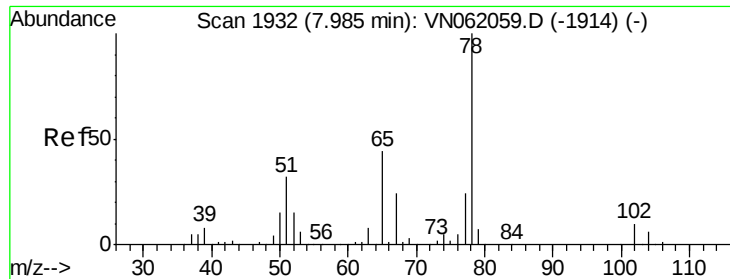
Tot Ion: 42 Resp: 824
Ion Ratio Lower Upper
42 100
72 30.9 41.1 61.7#
71 8.6 38.2 57.4#



#31
Cyclohexane
Concen: 1.356 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

Tgt Ion: 56 Resp: 5267
Ion Ratio Lower Upper
56 100
69 152.9 28.0 42.0#
84 122.3 76.1 114.1#

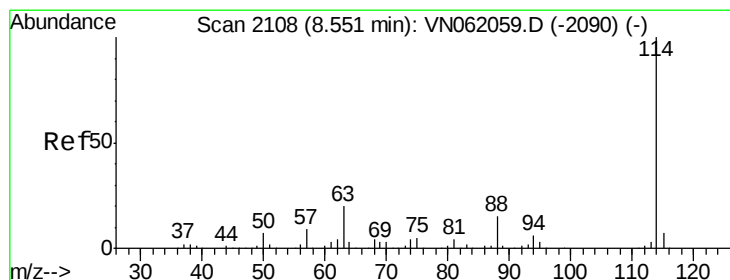
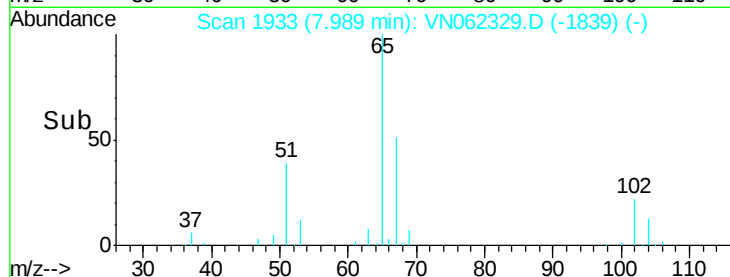
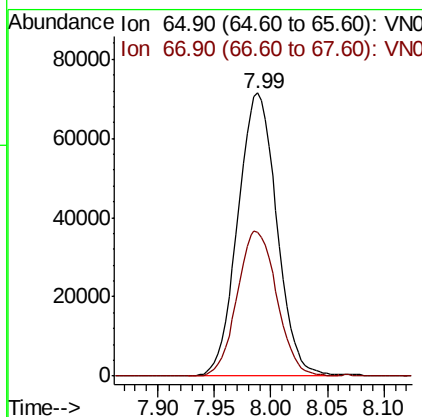
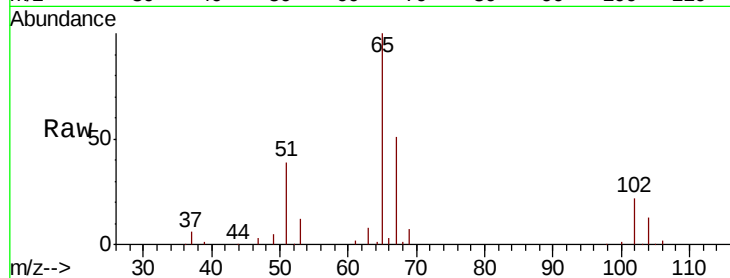




#33
 1,2-Dichloroethane-d4
 Concen: 60.948 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062329.D
 Acq: 2 Jul 2020 7:58

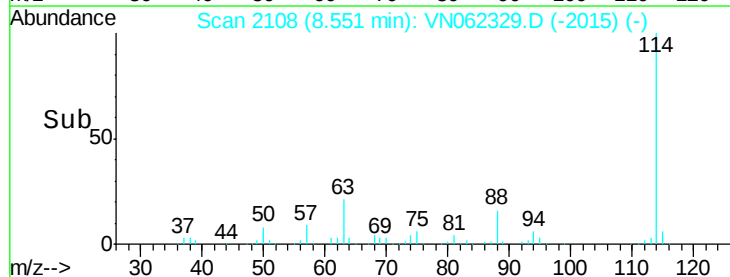
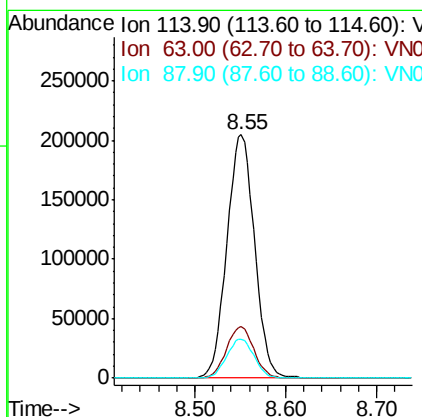
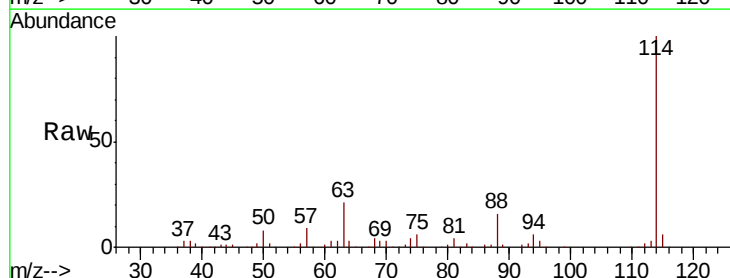
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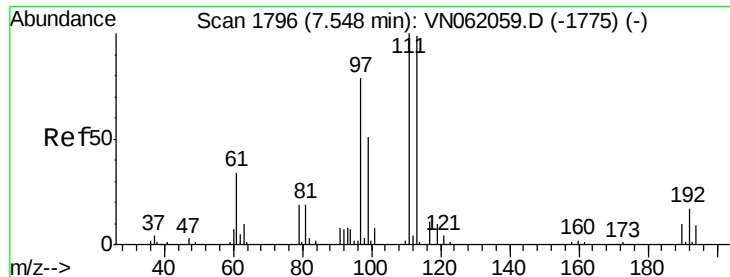
Tot Ion: 65 Resp: 171303
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062329.D
 Acq: 2 Jul 2020 7:58

Tgt Ion: 114 Resp: 433066
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.2
 88 16.2 0.0 30.8

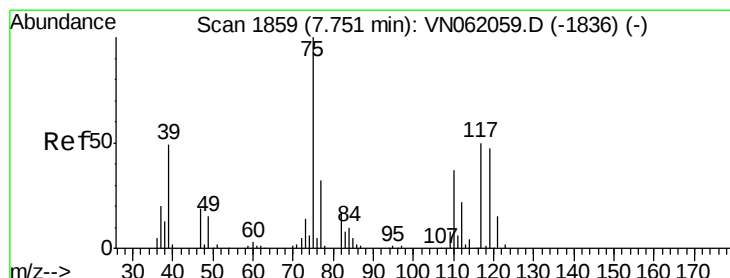
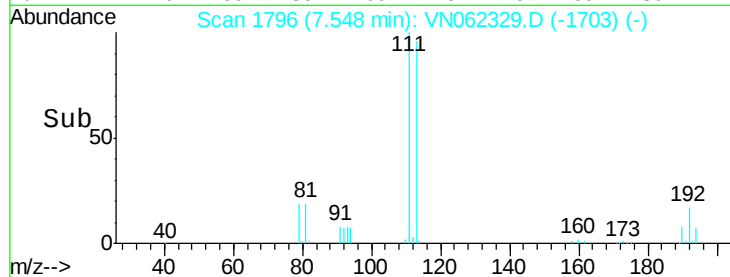
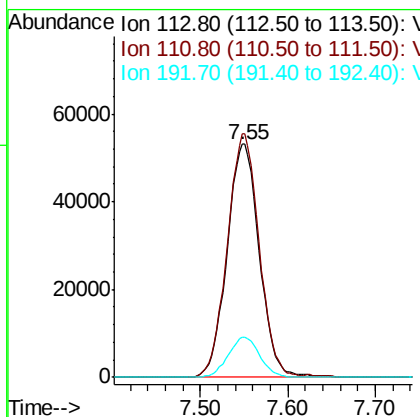
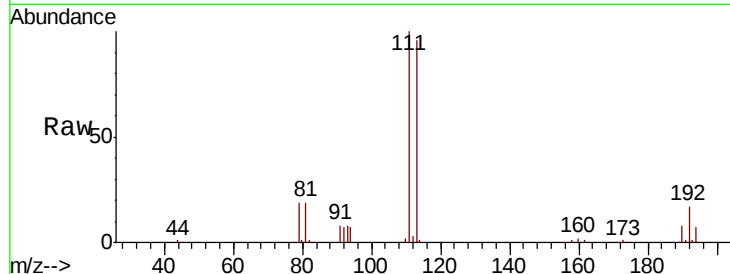




#35
Dibromofluoromethane
Concen: 48.900 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

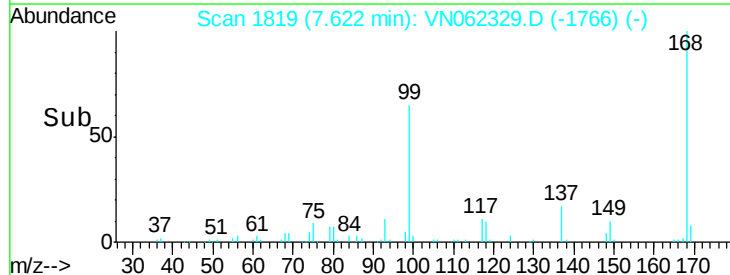
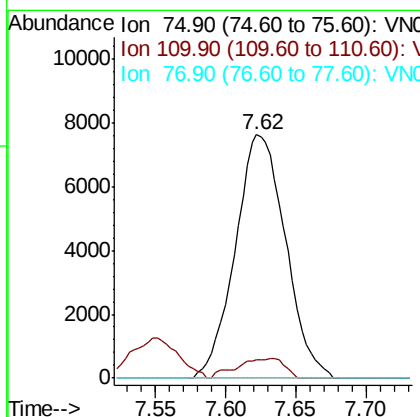
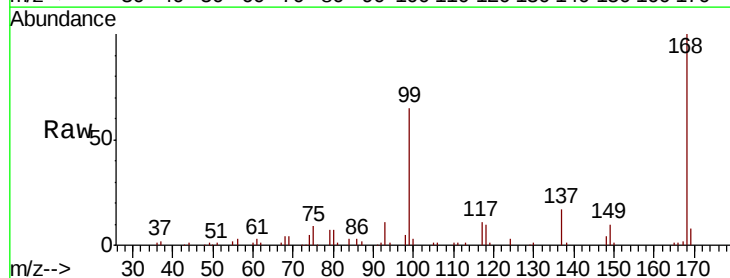
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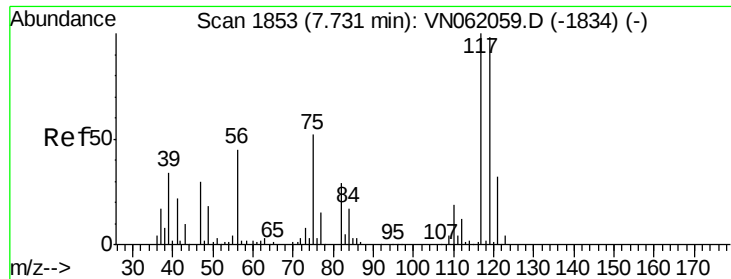
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	16.8	14.0	21.0



#36
1,1-Dichloropropene
Concen: 4.360 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.13 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	17.9	53.8#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.415 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062329.D

Acq: 2 Jul 2020 7:58

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-594-598

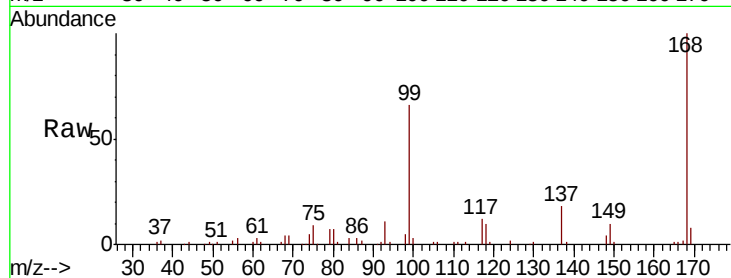
Tot Ion:117 Resp: 22224

Ion Ratio Lower Upper

117 100

119 5.8 78.2 117.2#

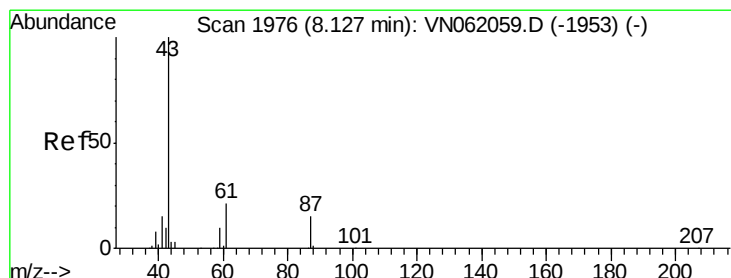
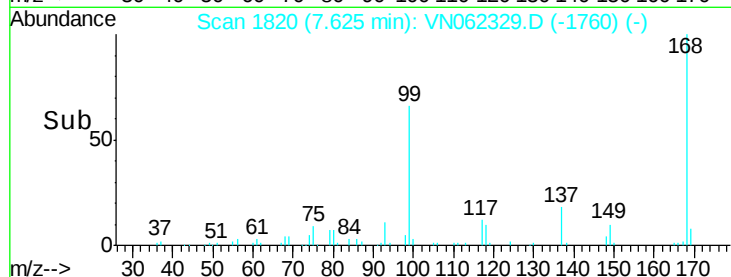
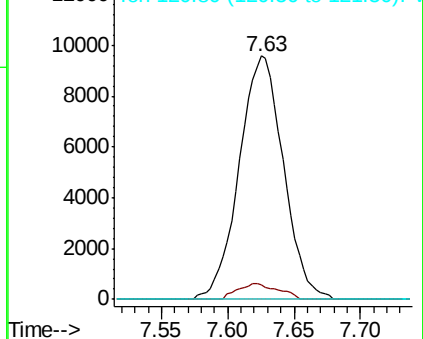
121 0.0 25.8 38.6#



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: 10.921 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062329.D

Acq: 2 Jul 2020 7:58

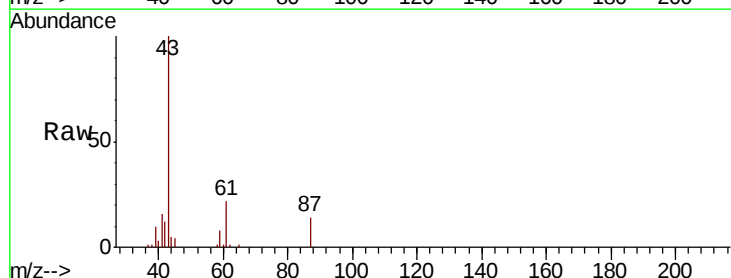
Tgt Ion: 43 Resp: 64169

Ion Ratio Lower Upper

43 100

61 20.0 17.2 25.8

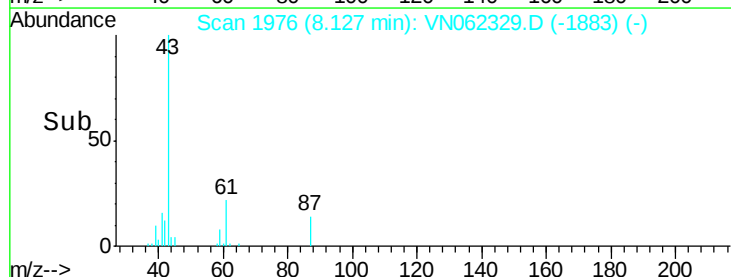
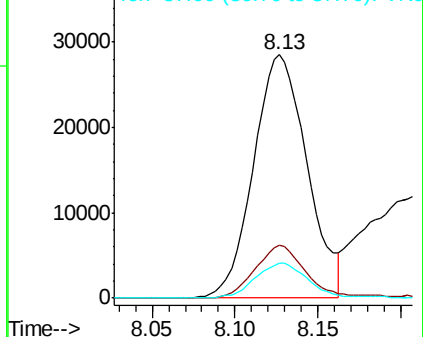
87 14.0 12.1 18.1

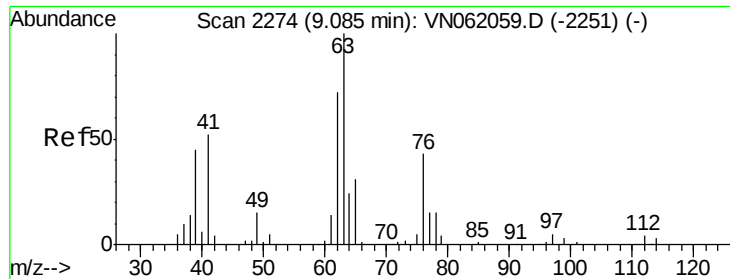


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

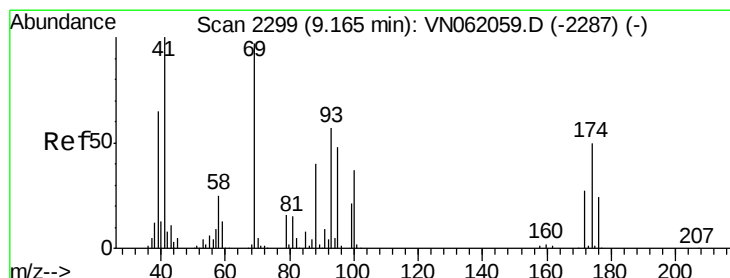
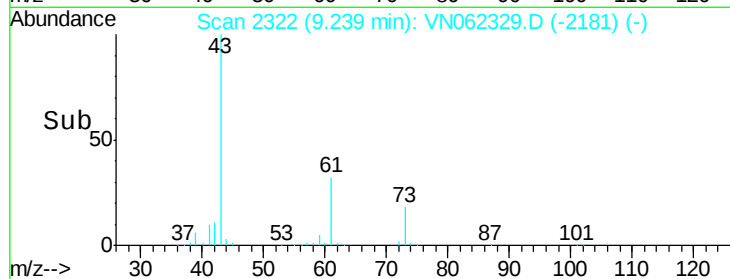
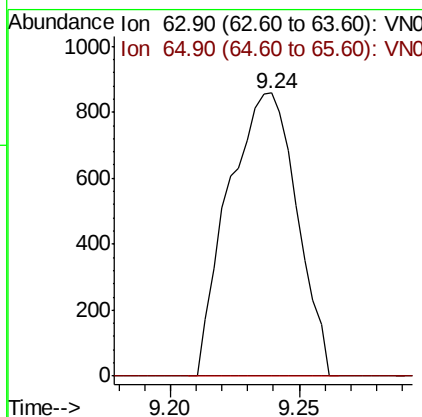
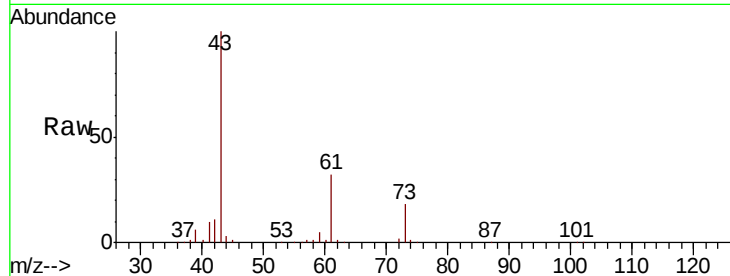




#45
 1,2-Dichloropropane
 Concen: 0.485 ug/l
 RT: 9.24 min Scan# 2322
 Delta R.T. 0.15 min
 Lab File: VN062329.D
 Acq: 2 Jul 2020 7:58

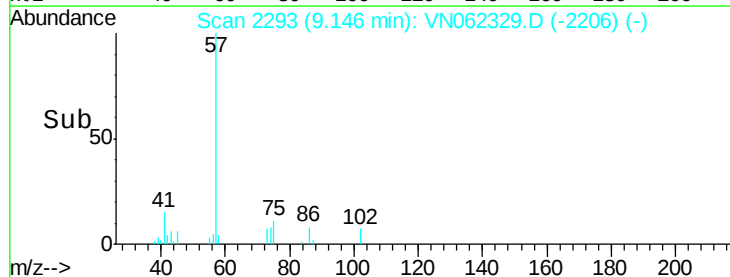
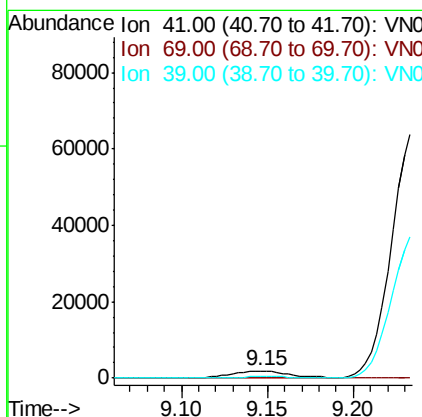
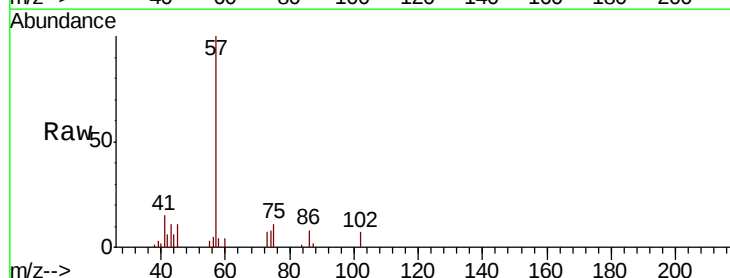
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-594-598

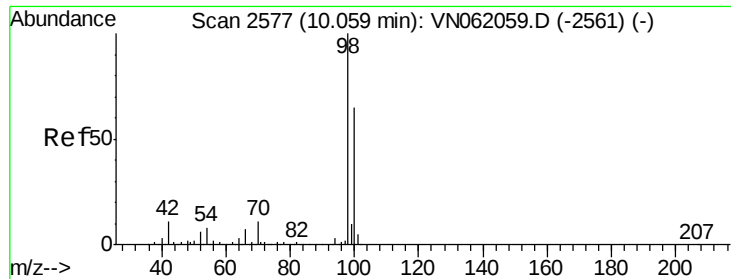
Tot Ion: 63 Resp: 1588
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.677 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN062329.D
 Acq: 2 Jul 2020 7:58

Tgt Ion: 41 Resp: 4419
 Ion Ratio Lower Upper
 41 100
 69 0.0 80.7 121.1#
 39 0.0 54.5 81.7#

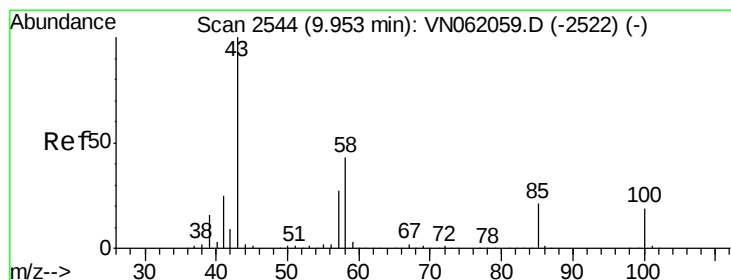
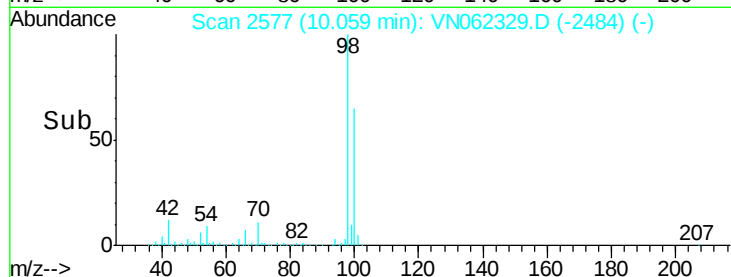
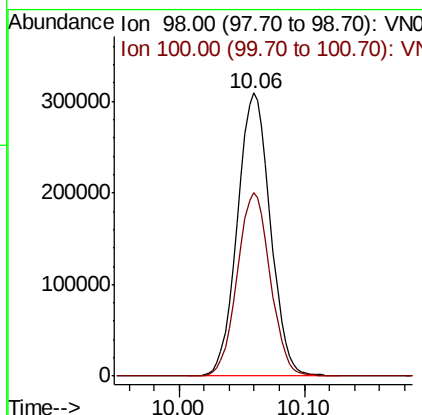
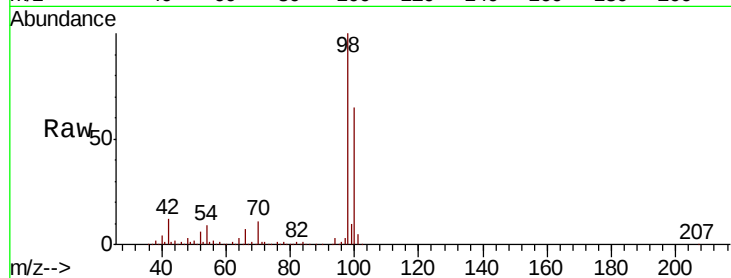




#50
Toluene-d8
Concen: 50.861 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

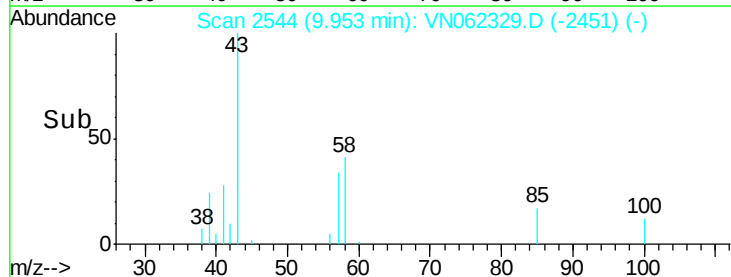
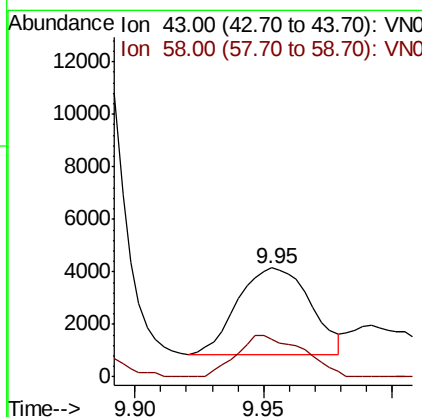
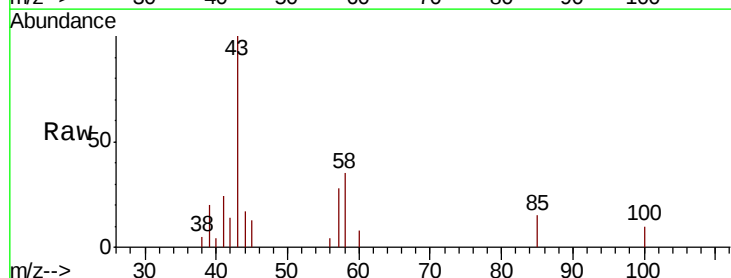
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-594-598

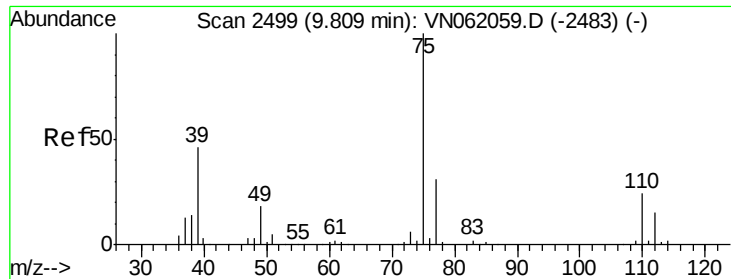
Tot Ion: 98 Resp: 564853
Ion Ratio Lower Upper
98 100
100 64.8 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.910 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

Tgt Ion: 43 Resp: 6557
Ion Ratio Lower Upper
43 100
58 43.8 34.2 51.2

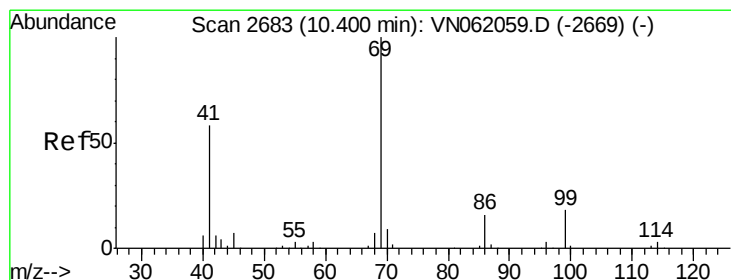
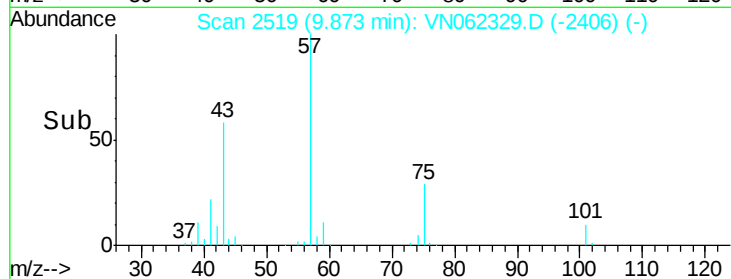
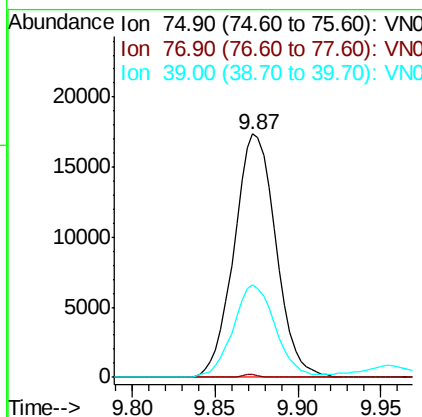
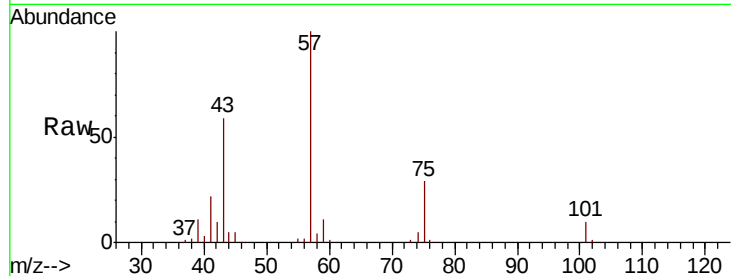




#54
 cis-1,3-Dichloropropene
 Concen: 5.800 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062329.D
 Acq: 2 Jul 2020 7:58

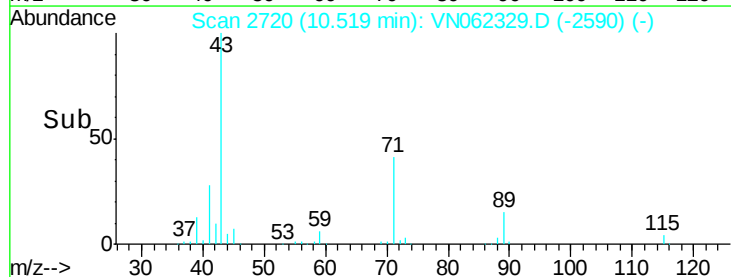
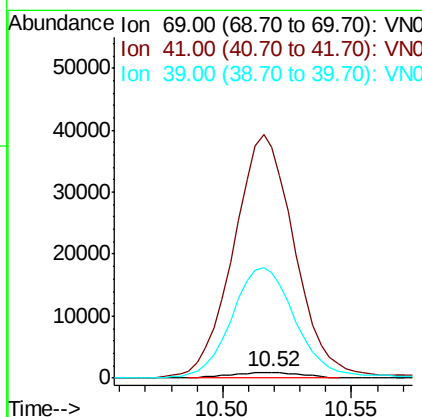
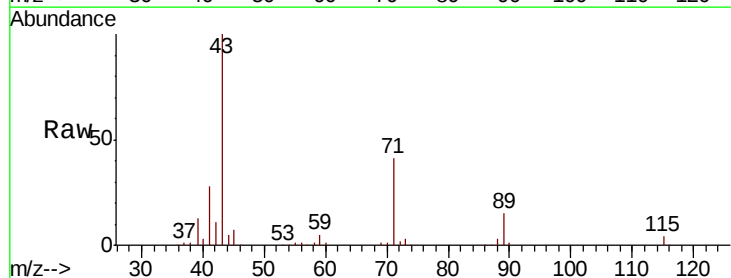
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-594-598

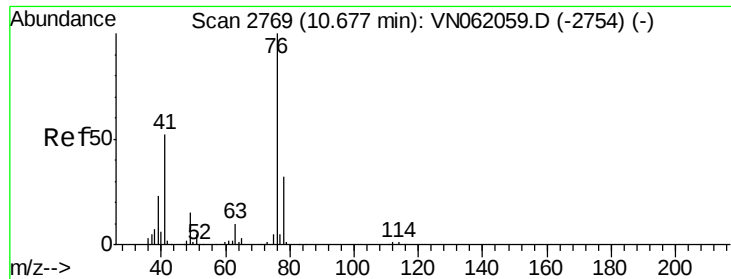
Tot Ion: 75 Resp: 30440
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.0 37.6#
 39 37.8 36.9 55.3



#56
 Ethyl methacrylate
 Concen: 0.409 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN062329.D
 Acq: 2 Jul 2020 7:58

Tgt Ion: 69 Resp: 1738
 Ion Ratio Lower Upper
 69 100
 41 3771.6 46.6 70.0#
 39 1783.7 31.0 46.4#

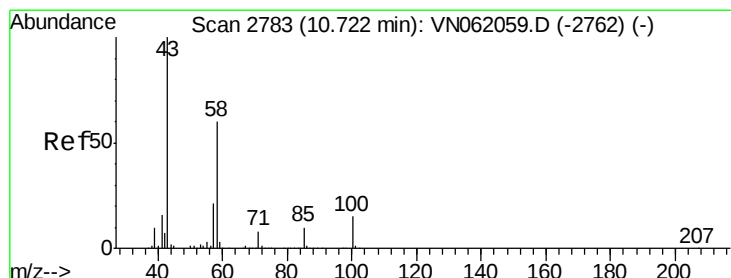
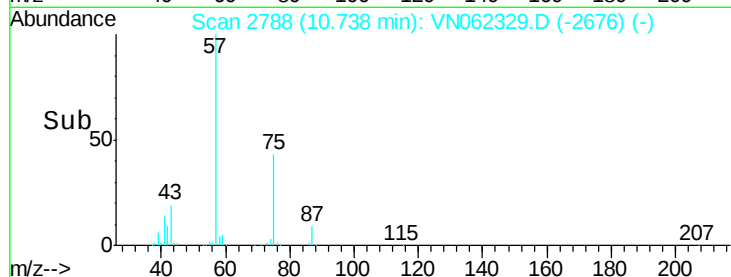
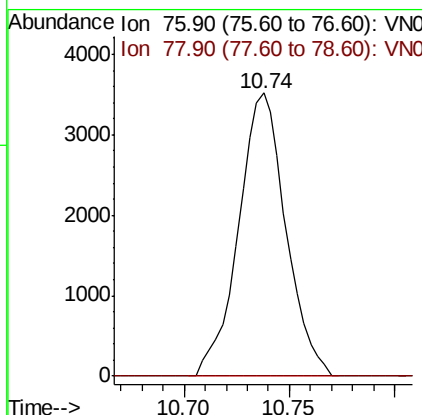
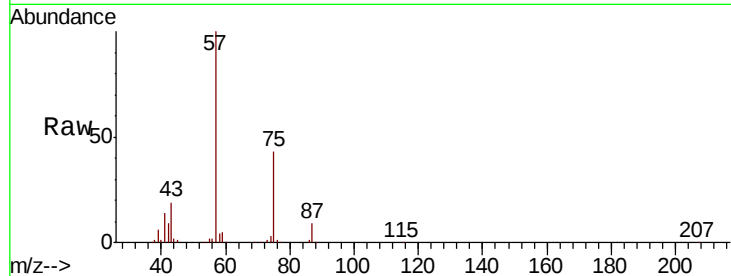




#57
 1,3-Dichloropropane
 Concen: 1.002 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062329.D
 Acq: 2 Jul 2020 7:58

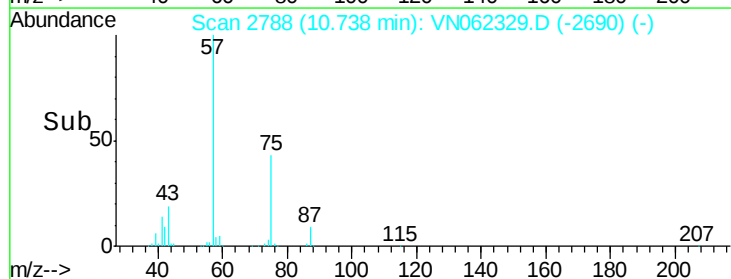
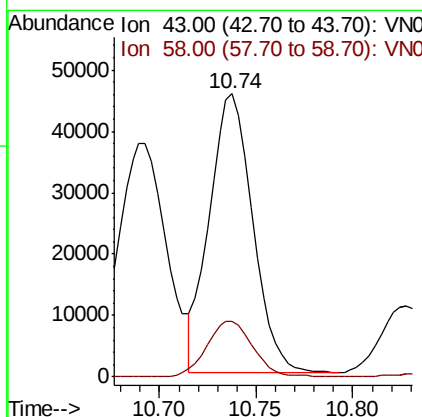
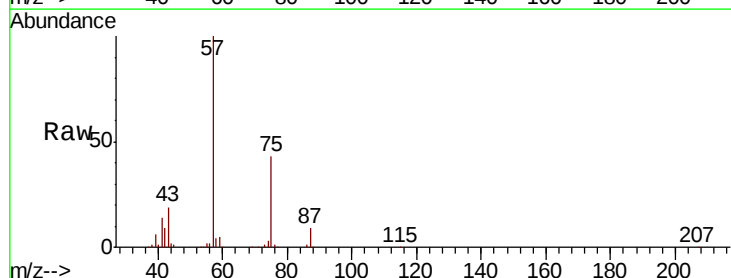
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-594-598

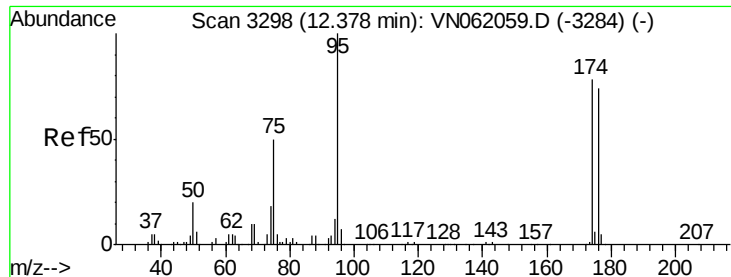
Tot Ion: 76 Resp: 5491
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 28.712 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062329.D
 Acq: 2 Jul 2020 7:58

Tgt Ion: 43 Resp: 71177
 Ion Ratio Lower Upper
 43 100
 58 21.3 29.5 88.5#

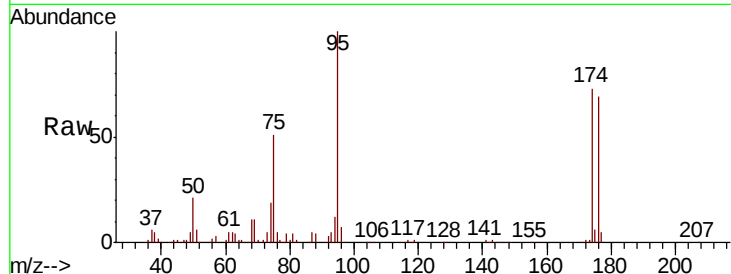




#62
4-Bromofluorobenzene
Concen: 46.804 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-594-598

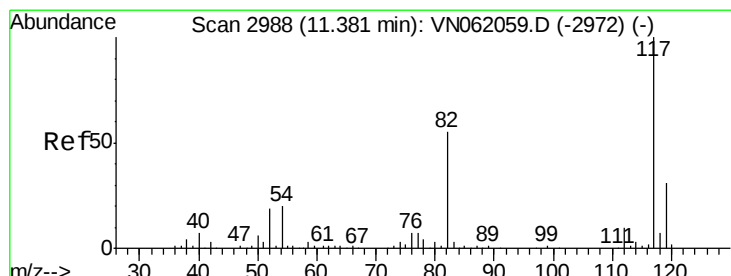
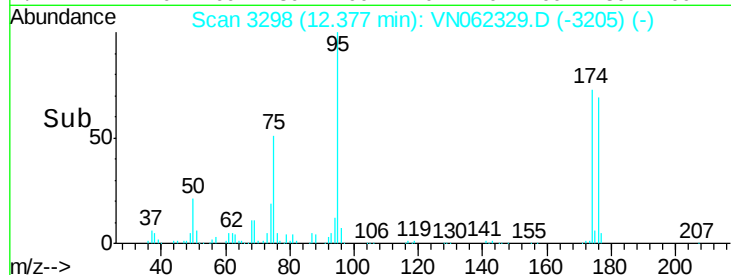
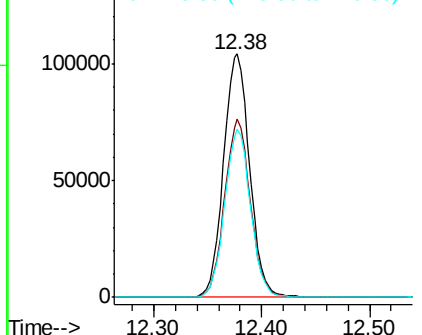
Tot Ion	95	Resp	175620
Ion Ratio	Lower	Upper	
95	100		
174	72.3	0.0	154.8
176	68.4	0.0	147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062329.D (-3205) (-)

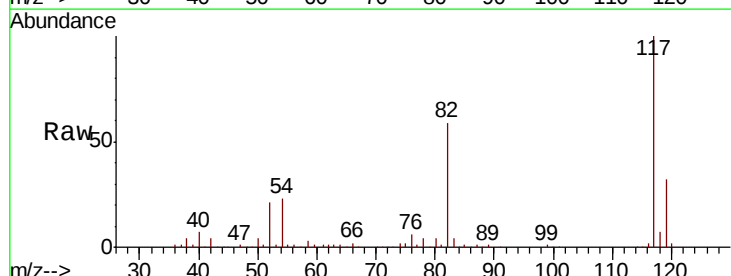
Ion 173.80 (173.50 to 174.50): VN062329.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062329.D (-3205) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062329.D
Acq: 2 Jul 2020 7:58

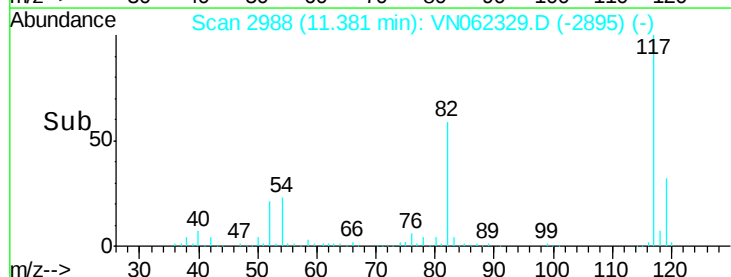
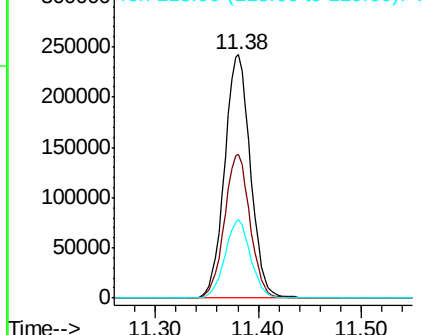
Tgt Ion	117	Resp	422998
Ion Ratio	Lower	Upper	
117	100		
82	59.3	43.8	65.8
119	32.2	25.2	37.8

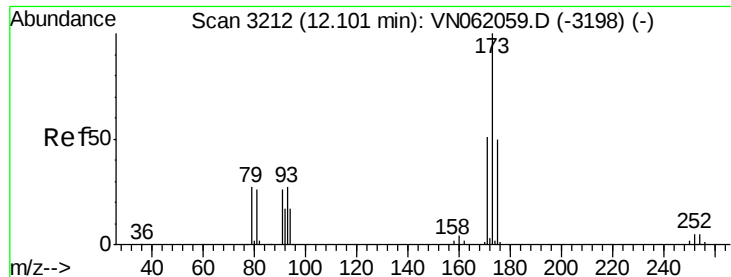


Abundance Ion 116.90 (116.60 to 117.60): VN062329.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062329.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062329.D (-2895) (-)





#71

Bromoform

Concen: 0.371 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062329.D

Acq: 2 Jul 2020 7:58

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-594-598

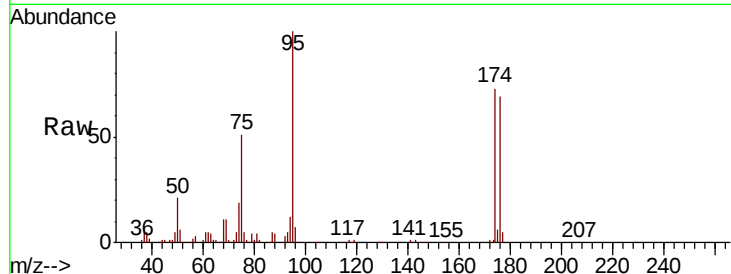
Tot Ion:173 Resp: 848

Ion Ratio Lower Upper

173 100

175 972.3 24.7 74.1#

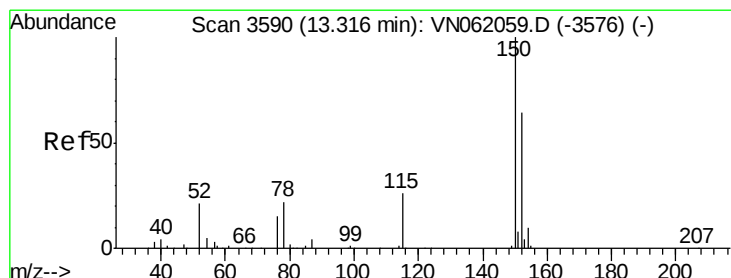
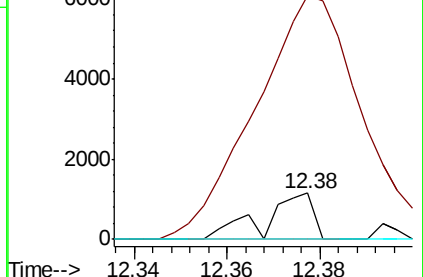
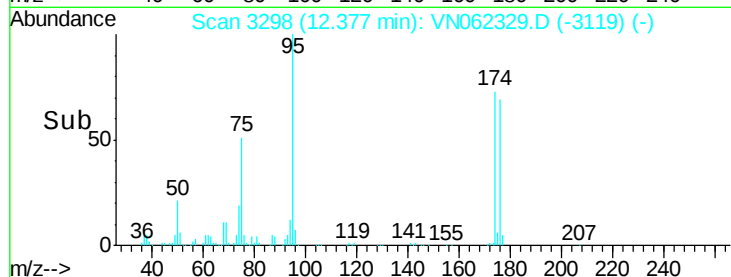
254 0.0 0.0 0.0



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: VN062329.D

Acq: 2 Jul 2020 7:58

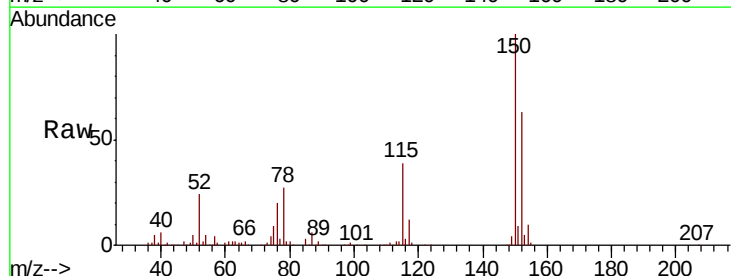
Tgt Ion:152 Resp: 142043

Ion Ratio Lower Upper

152 100

115 60.9 29.5 88.5

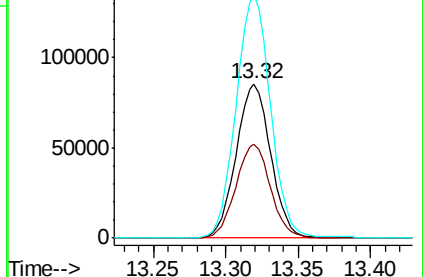
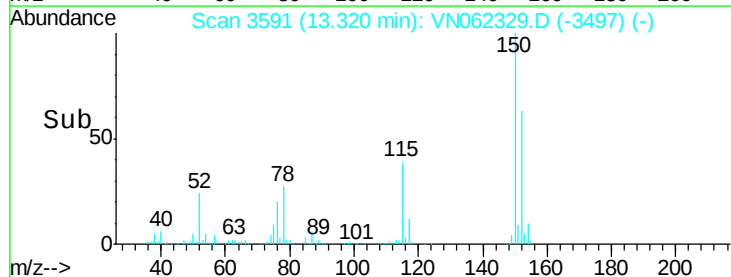
150 156.7 0.0 351.4

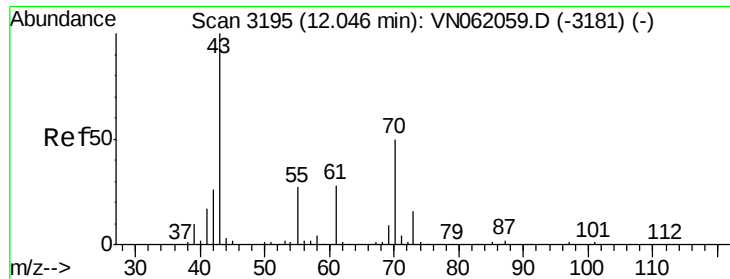


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.687 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062329.D

Acq: 2 Jul 2020 7:58

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-594-598

Tot Ion: 43 Resp: 1493

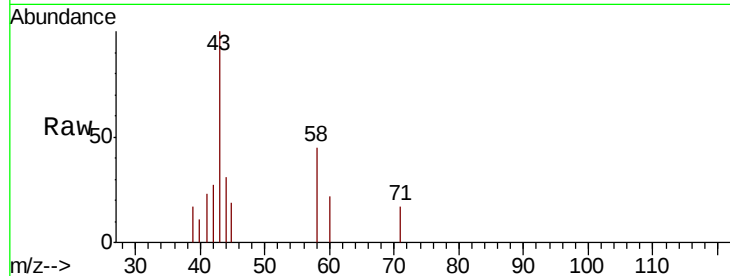
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 4.0 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

2000

1500

1000

500

0

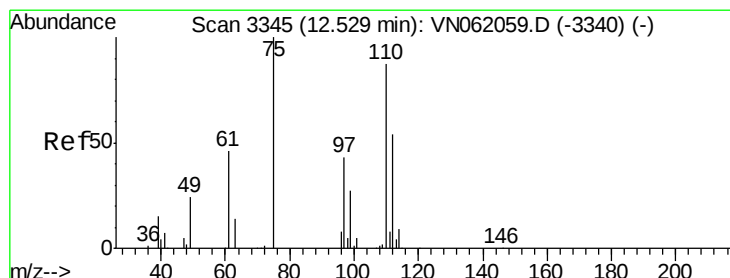
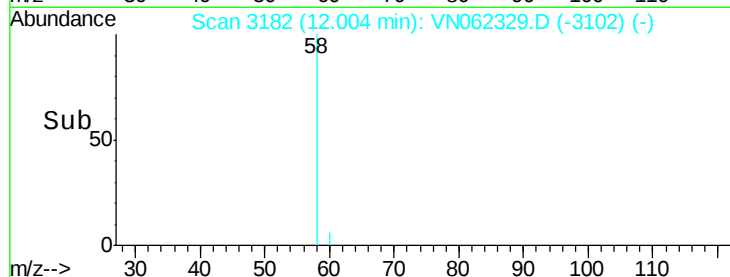
11.96

11.98

12.00

12.02

Time-->



#76

1,2,3-Trichloropropane

Concen: 27.296 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062329.D

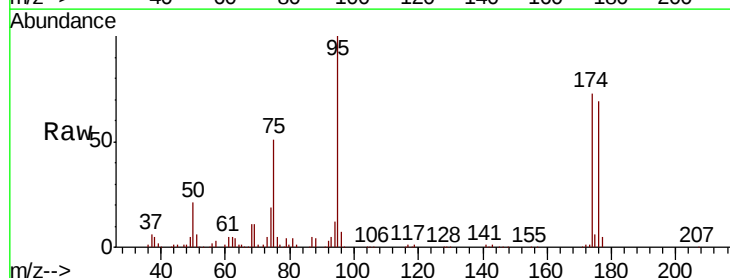
Acq: 2 Jul 2020 7:58

Tgt Ion: 75 Resp: 91274

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

60000

50000

40000

30000

20000

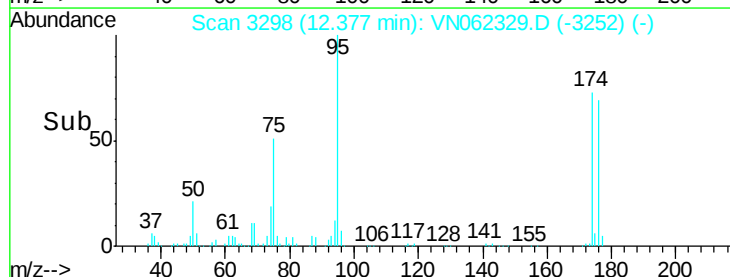
10000

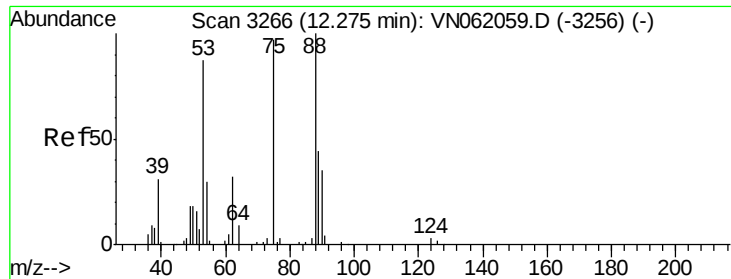
0

12.30

12.40

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 79.716 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062329.D

Acq: 2 Jul 2020 7:58

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-594-598

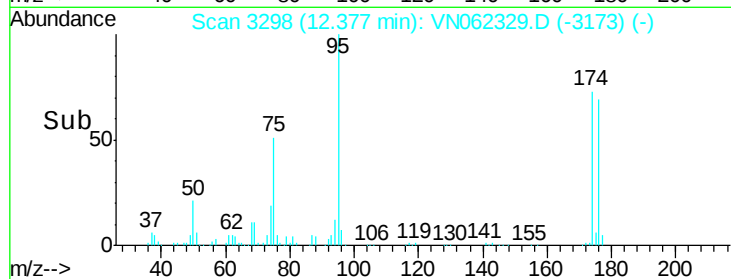
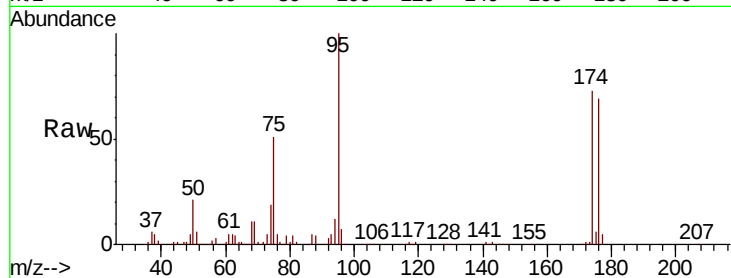
Tot Ion: 75 Resp: 91274

Ion Ratio Lower Upper

75 100

53 0.1 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

