

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070220\
 Data File : VN062356.D
 Acq On : 3 Jul 2020 00:32
 Operator : JC/MD
 Sample : L3164-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-590-594RE

Quant Time: Jul 03 04:32:06 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	122231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	264014	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	261297	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	90871	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	105247	61.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.72%	
35) Dibromofluoromethane	7.55	113	80963	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	
50) Toluene-d8	10.06	98	346407	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
62) 4-Bromofluorobenzene	12.38	95	108814	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	

Target Compounds

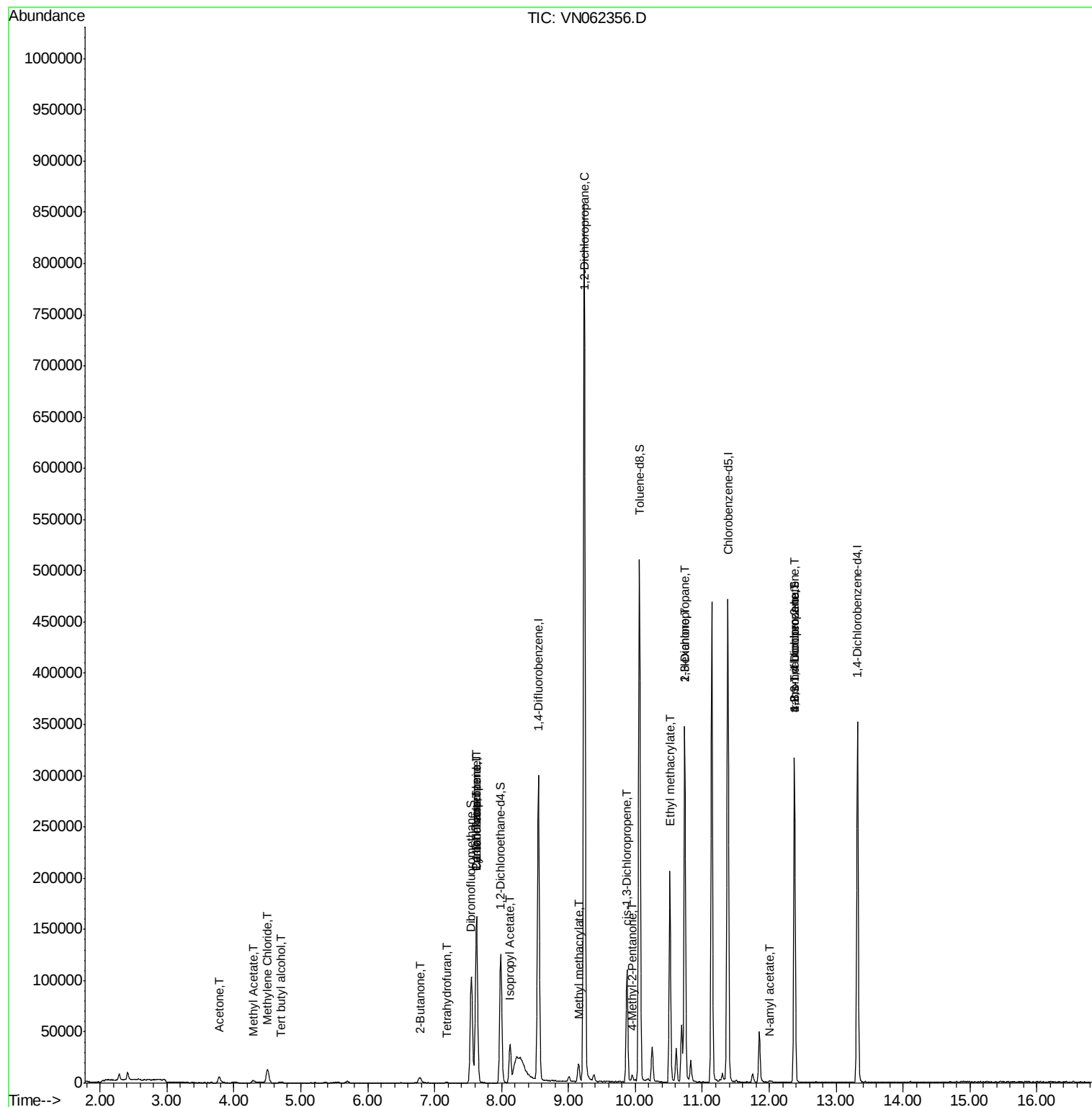
						Qvalue
3) Chloromethane	2.03	50	68	Below Cal	#	41
11) Tert butyl alcohol	4.71	59	707	2.871	ug/l #	72
16) Acetone	3.78	43	10413	15.541	ug/l	98
18) Methyl Acetate	4.29	43	3179	2.331	ug/l	98
20) Methylene Chloride	4.51	84	9948	6.127	ug/l	97
25) 2-Butanone	6.80	43	1816	2.166	ug/l #	44
29) Tetrahydrofuran	7.18	42	450	0.819	ug/l #	28
31) Cyclohexane	7.63	56	3077	1.298	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11252	4.240	ug/l #	46
38) Carbon Tetrachloride	7.63	117	12558	5.019	ug/l #	14
43) Isopropyl Acetate	8.13	43	43484	12.139	ug/l	97
45) 1,2-Dichloropropane	9.24	63	1034	0.518	ug/l #	43
48) Methyl methacrylate	9.15	41	2779	1.730	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	4724	2.257	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	19220	6.007	ug/l #	72
56) Ethyl methacrylate	10.51	69	868	0.335	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3663	1.097	ug/l #	42
59) 2-Hexanone	10.74	43	47318	31.310	ug/l #	48
74) N-amyl acetate	12.01	43	1589	3.916	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	57838	27.038	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	57838	78.960	ug/l #	13

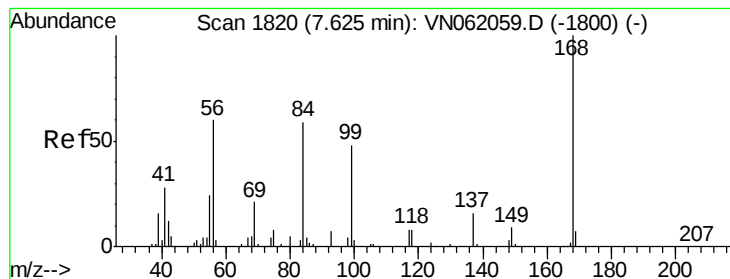
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062356.D

Acq: 3 Jul 2020 00:32

Instrument :

MSVOA_N

ClientSampleId :

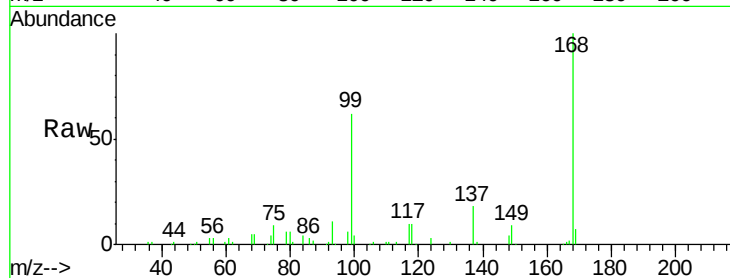
BP-MW180-SOIL-590-594RE

Tot Ion:168 Resp: 122231

Ion Ratio Lower Upper

168 100

99 62.3 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062059.D (-1800) (-)

Ion 98.90 (98.60 to 99.60): VN062059.D (-1800) (-)

7.63

60000

50000

40000

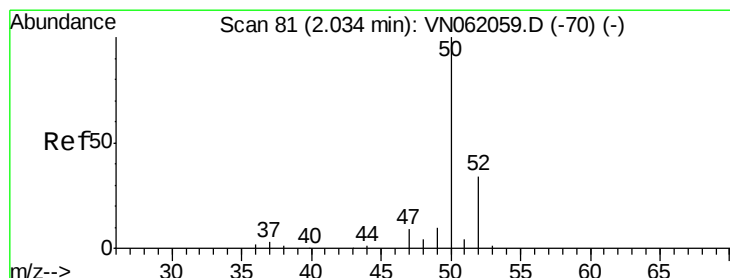
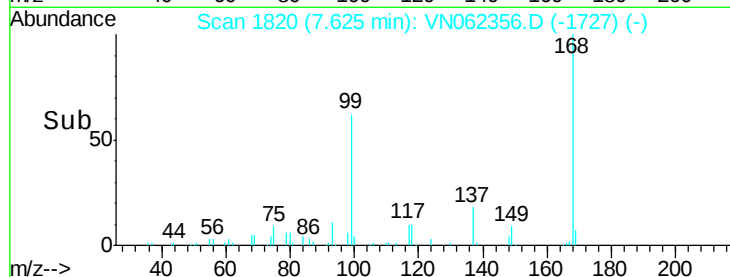
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN062356.D

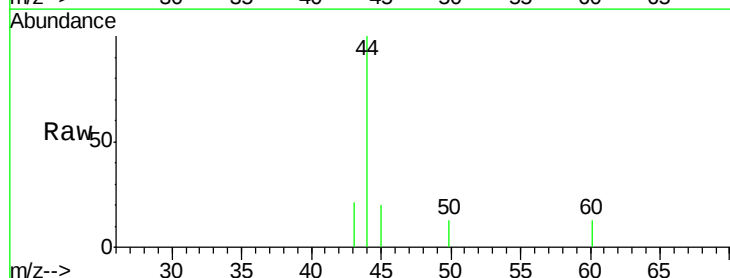
Acq: 3 Jul 2020 00:32

Tgt Ion: 50 Resp: 68

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN062059.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN062059.D (-70) (-)

2.03

200

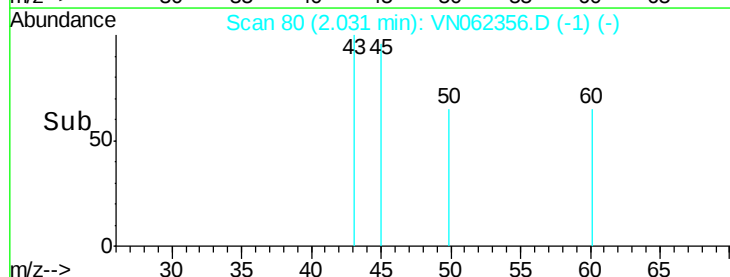
150

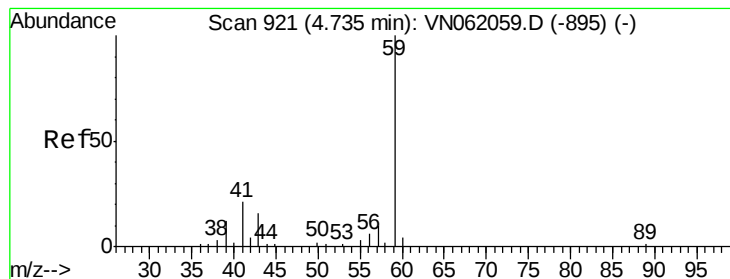
100

50

0

Time--> 2.02 2.03 2.04



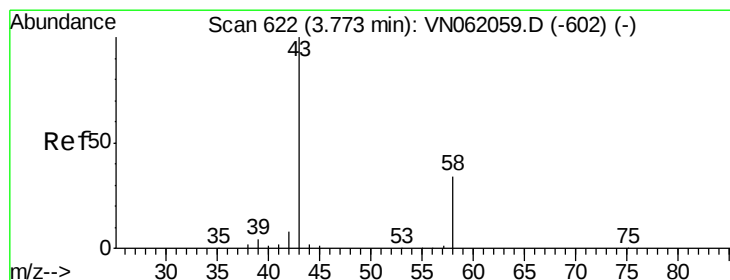
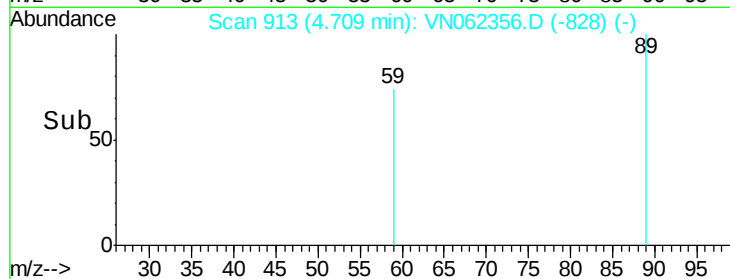
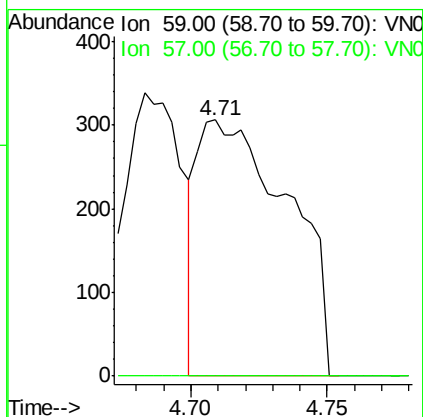
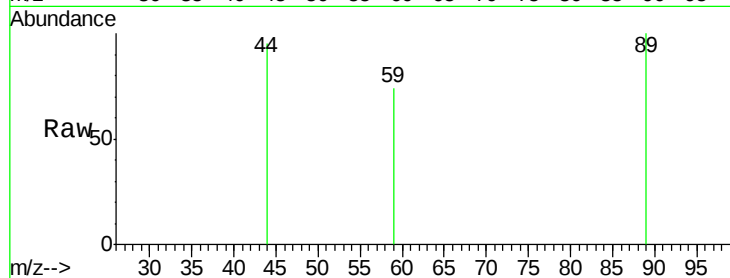


#11

Tert butyl alcohol
 Concen: 2.871 ug/l
 RT: 4.71 min Scan# 913
 Delta R.T. -0.03 min
 Lab File: VN062356.D
 Acq: 3 Jul 2020 00:32

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-590-594RE

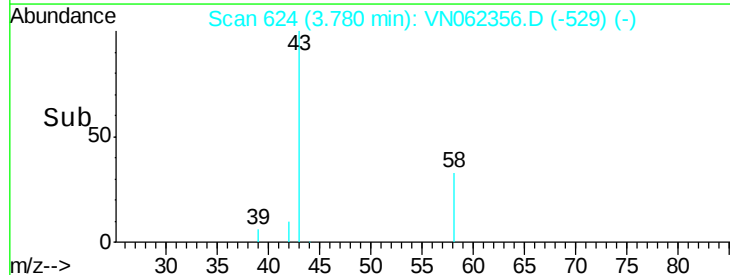
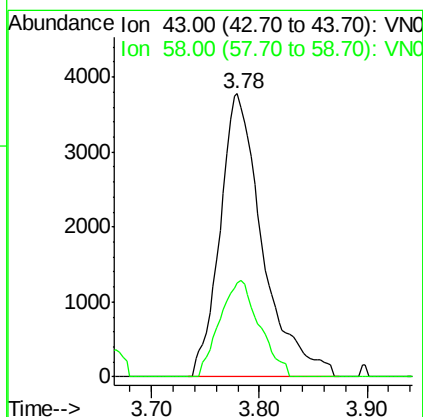
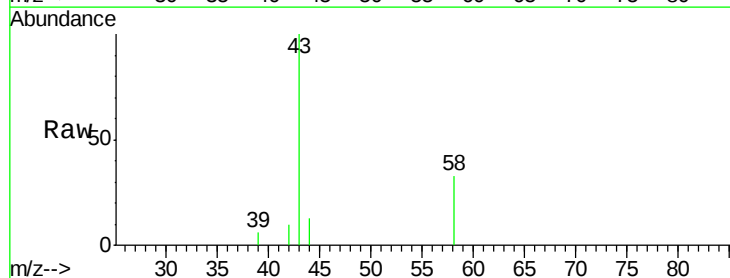
Tot Ion: 59 Resp: 707
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

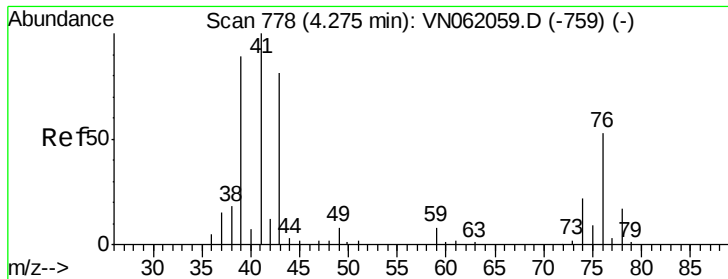


#16

Acetone
 Concen: 15.541 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: VN062356.D
 Acq: 3 Jul 2020 00:32

Tgt Ion: 43 Resp: 10413
 Ion Ratio Lower Upper
 43 100
 58 33.1 27.5 41.3

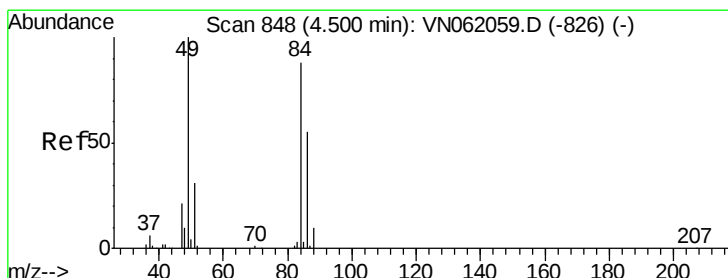
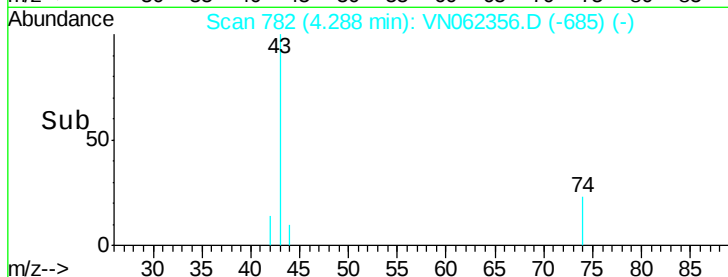
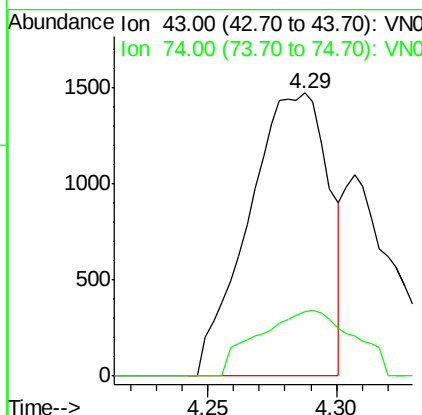
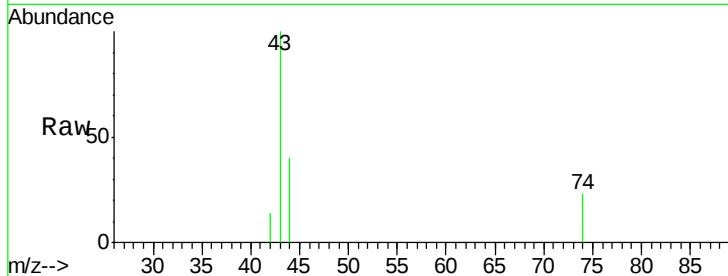




#18
Methyl Acetate
Concen: 2.331 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

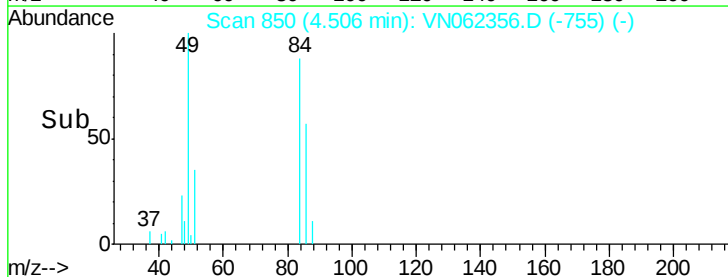
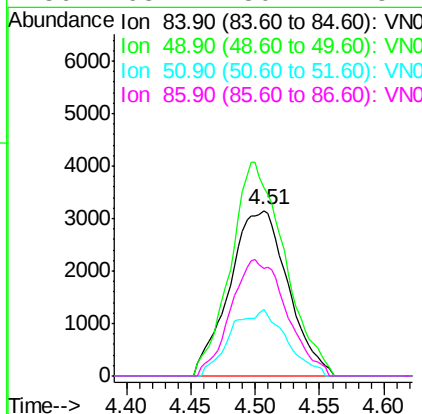
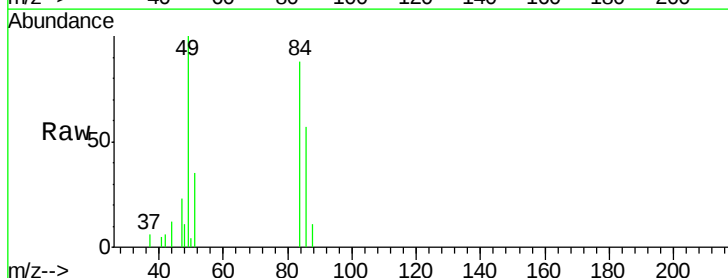
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-590-594RE

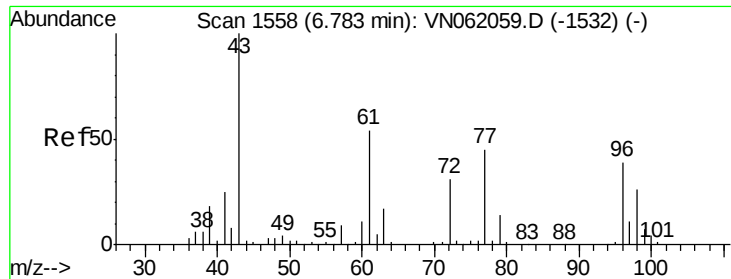
Tot Ion: 43 Resp: 3179
Ion Ratio Lower Upper
43 100
74 27.6 22.9 34.3



#20
Methylene Chloride
Concen: 6.127 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

Tgt Ion: 84 Resp: 9948
Ion Ratio Lower Upper
84 100
49 113.7 90.6 136.0
51 40.0 27.8 41.8
86 65.1 50.1 75.1

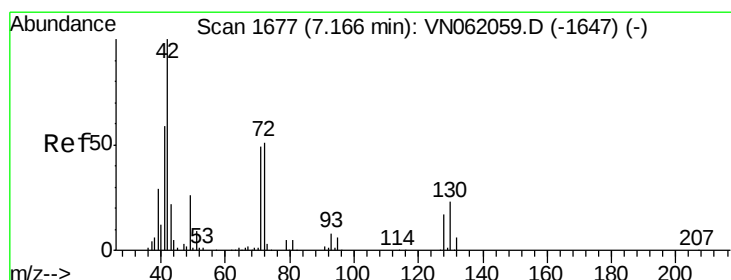
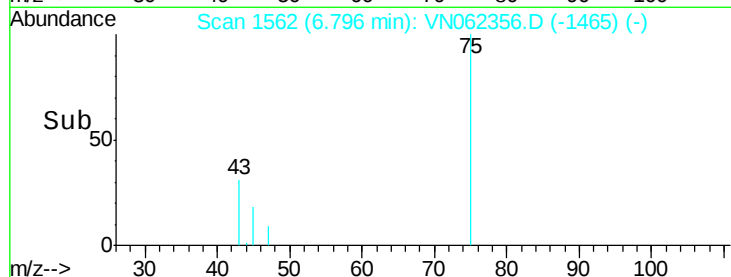
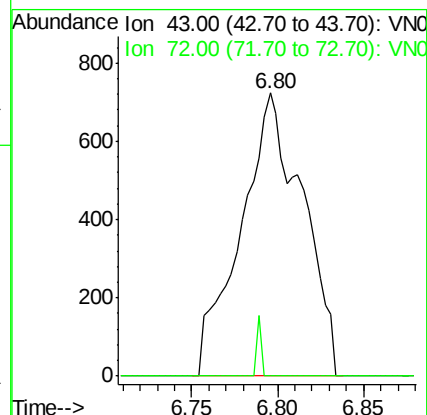
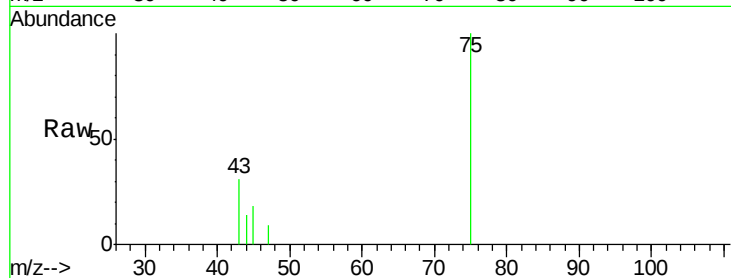




#25
2-Butanone
Concen: 2.166 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

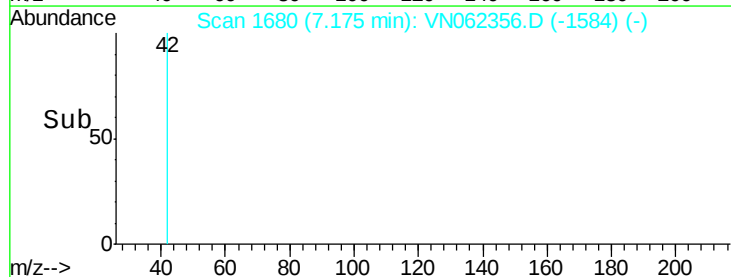
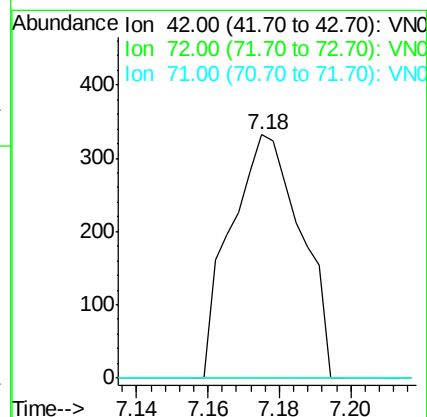
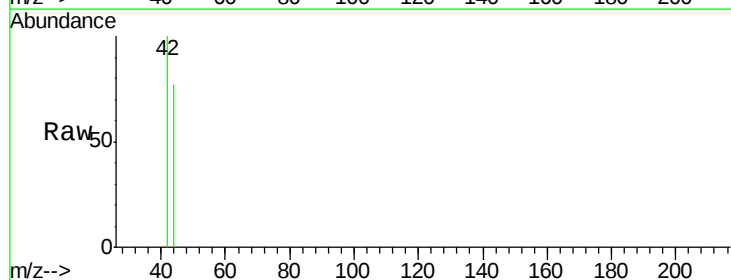
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-590-594RE

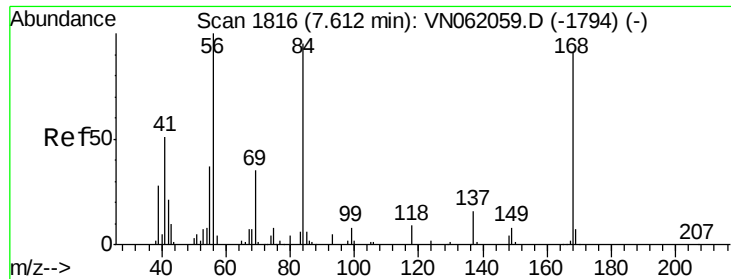
Tot Ion: 43 Resp: 1816
Ion Ratio Lower Upper
43 100
72 0.0 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.819 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

Tgt Ion: 42 Resp: 450
Ion Ratio Lower Upper
42 100
72 0.0 41.1 61.7#
71 0.0 38.2 57.4#

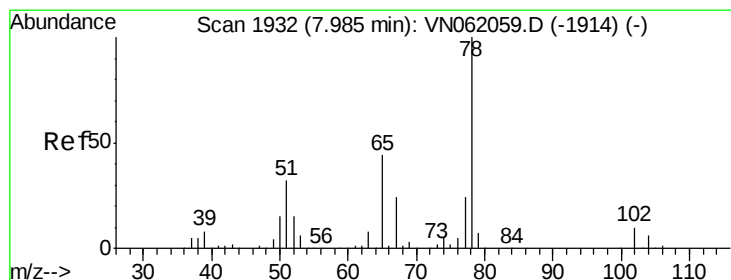
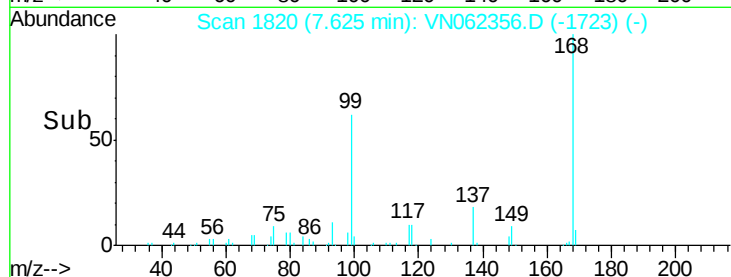
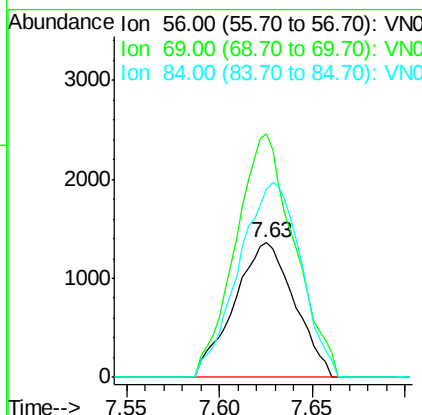
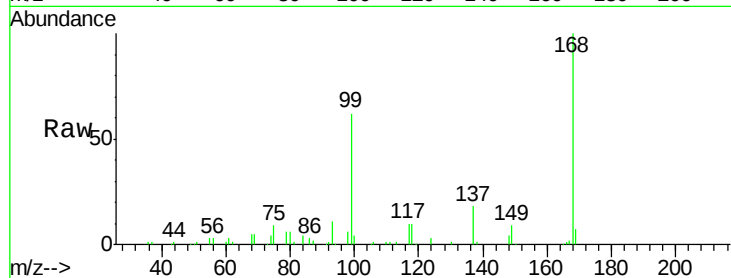




#31
Cyclohexane
Concen: 1.298 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

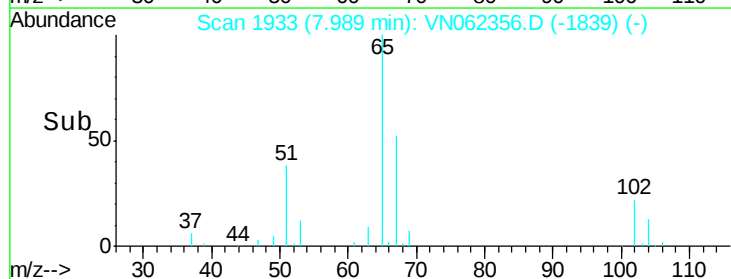
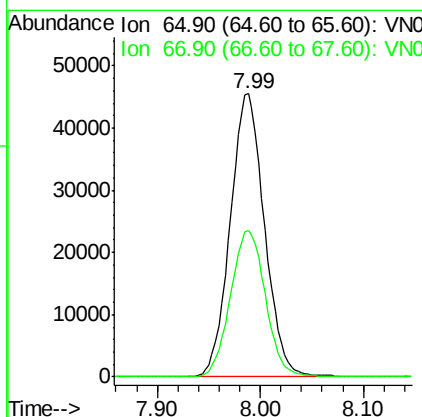
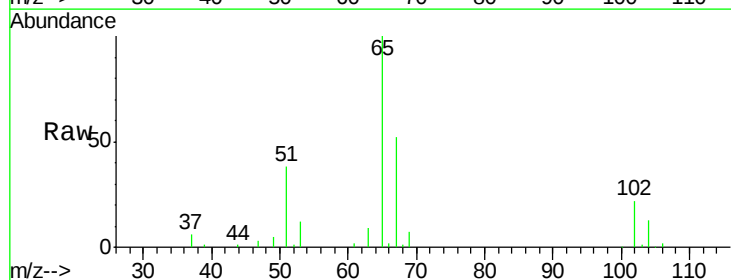
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-590-594RE

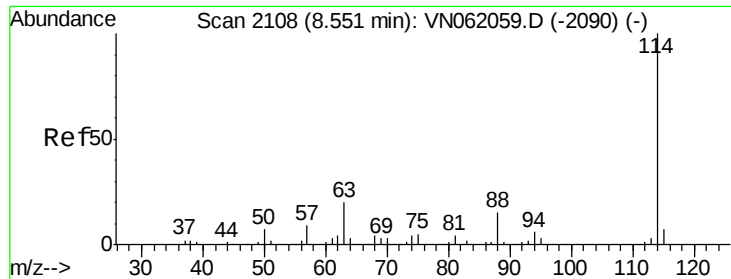
Tot Ion: 56 Resp: 3077
Ion Ratio Lower Upper
56 100
69 180.7 28.0 42.0#
84 139.9 76.1 114.1#



#33
1,2-Dichloroethane-d4
Concen: 61.357 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

Tgt Ion: 65 Resp: 105247
Ion Ratio Lower Upper
65 100
67 52.7 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: VN062356.D

Acq: 3 Jul 2020 00:32

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

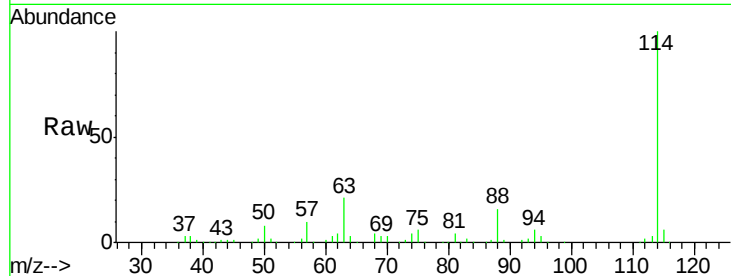
Tot Ion:114 Resp: 264014

Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.2

88 15.7 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

150000

100000

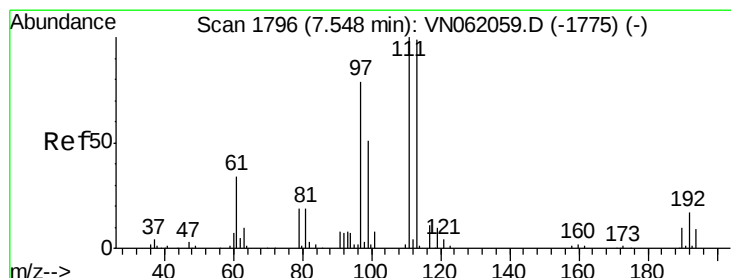
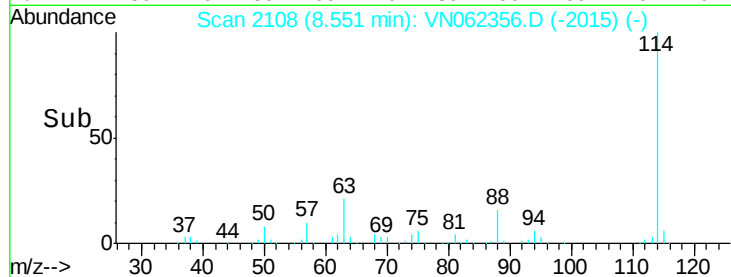
50000

0

8.55

8.50 8.60

Time-->



#35

Dibromofluoromethane

Concen: 47.800 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

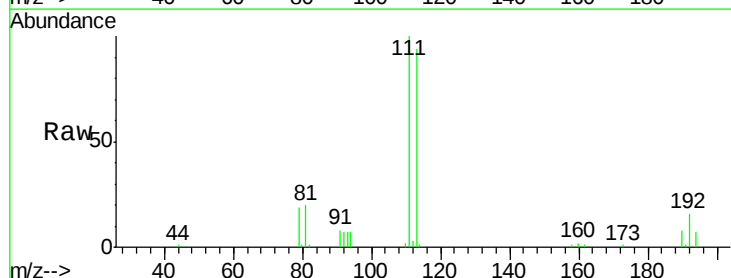
Tgt Ion:113 Resp: 80963

Ion Ratio Lower Upper

113 100

111 105.4 82.2 123.4

192 16.8 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

40000

30000

20000

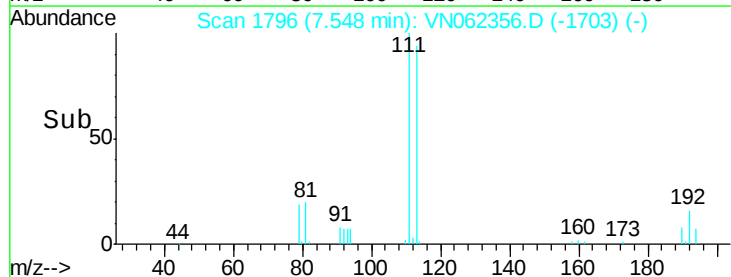
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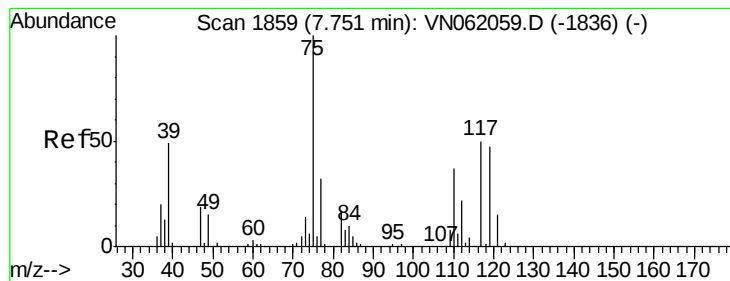
0

7.55

7.50 7.60

Time-->





#36

1,1-Dichloropropene

Concen: 4.240 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

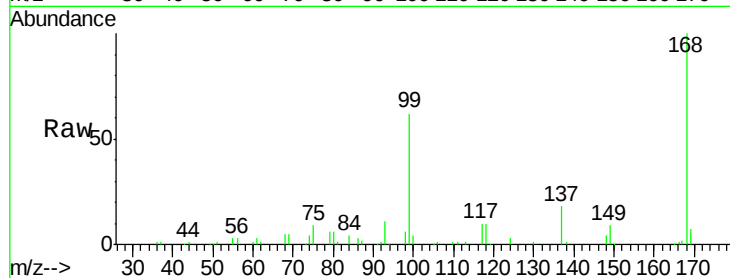
Tot Ion: 75 Resp: 11252

Ion Ratio Lower Upper

75 100

110 4.9 17.9 53.8#

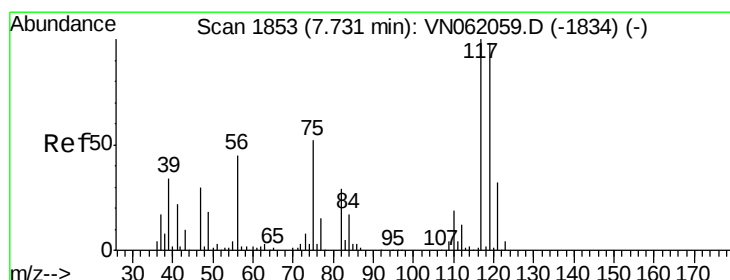
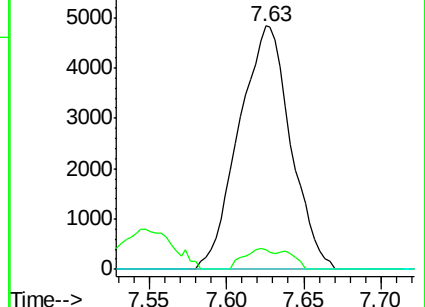
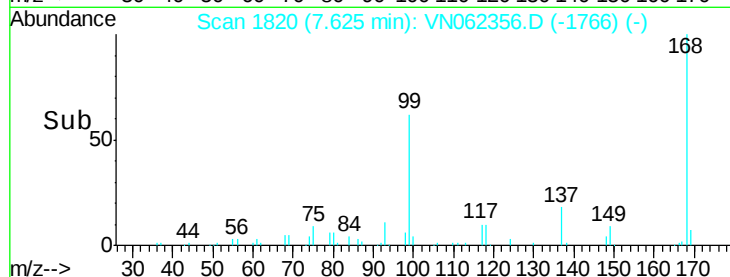
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062356.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062356.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062356.D (-1766) (-)



#38

Carbon Tetrachloride

Concen: 5.019 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.10 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

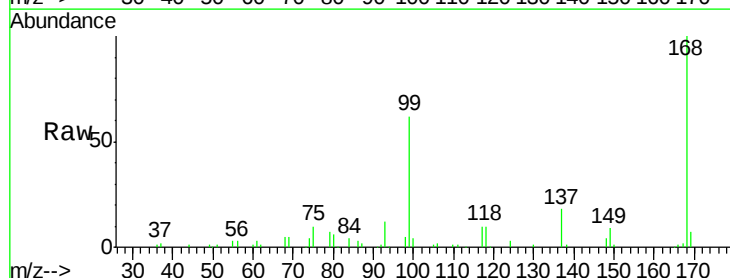
Tgt Ion: 117 Resp: 12558

Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.2#

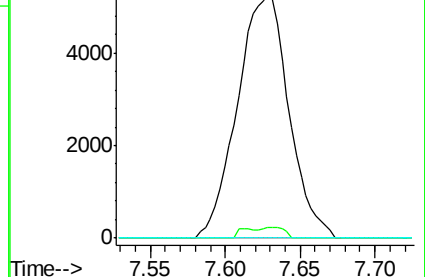
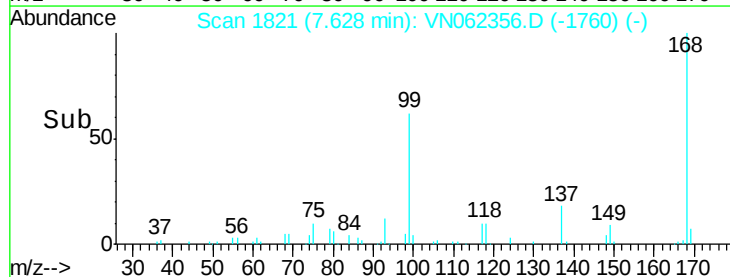
121 0.0 25.8 38.6#

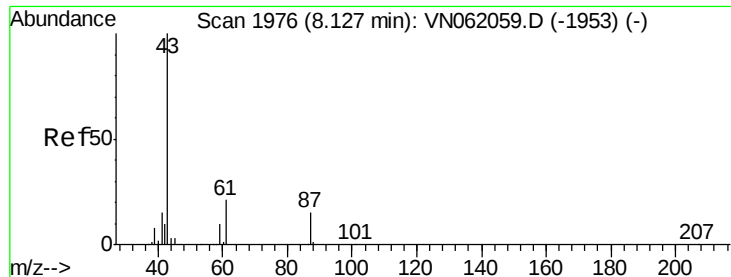


Abundance Ion 116.80 (116.50 to 117.50): VN062356.D (-1760) (-)

Ion 118.80 (118.50 to 119.50): VN062356.D (-1760) (-)

Ion 120.80 (120.50 to 121.50): VN062356.D (-1760) (-)





#43

Isopropyl Acetate

Concen: 12.139 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

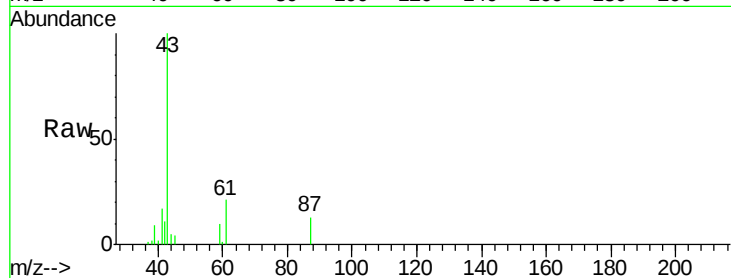
Tot Ion: 43 Resp: 43484

Ion Ratio Lower Upper

43 100

61 20.7 17.2 25.8

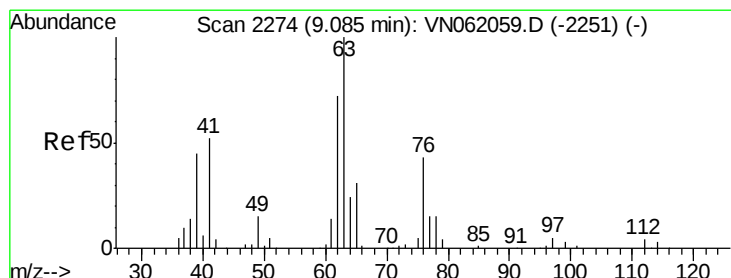
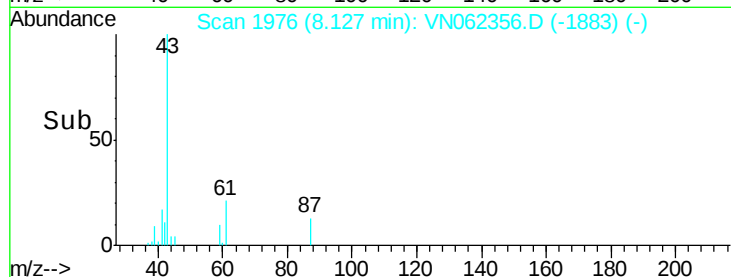
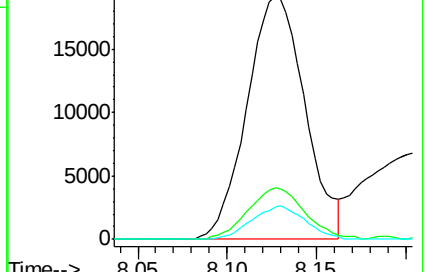
87 12.6 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VN062356.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062356.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062356.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.518 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062356.D

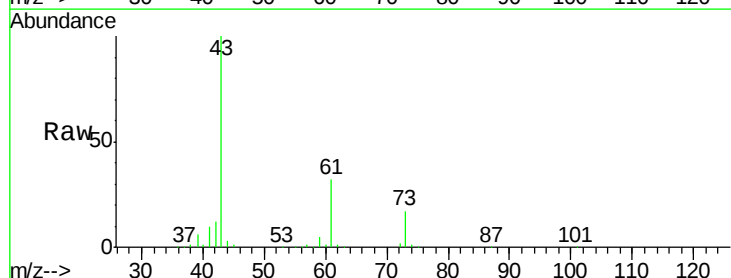
Acq: 3 Jul 2020 00:32

Tgt Ion: 63 Resp: 1034

Ion Ratio Lower Upper

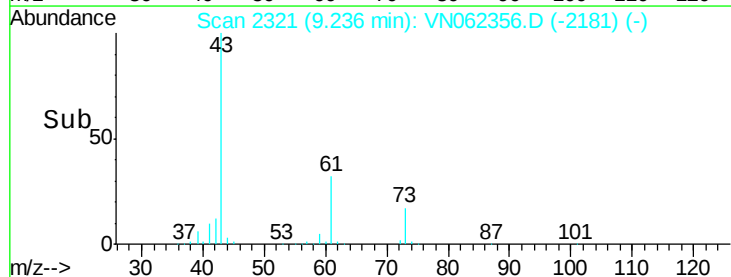
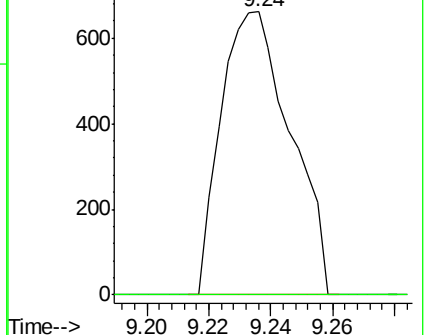
63 100

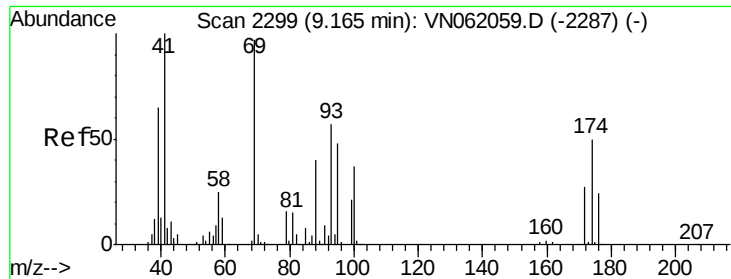
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062356.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062356.D (-2181) (-)

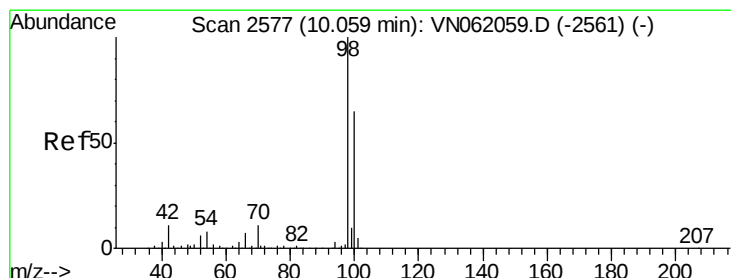
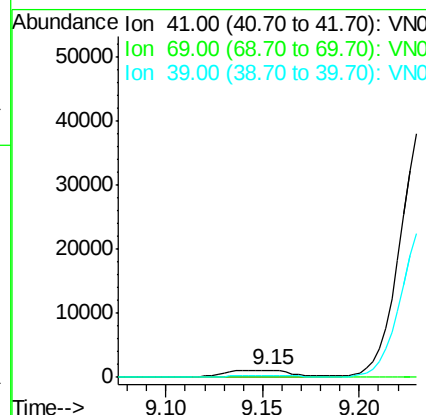
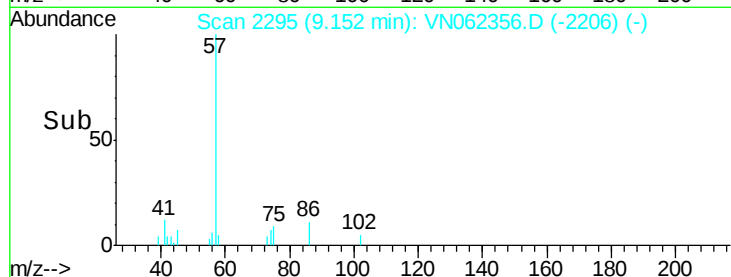
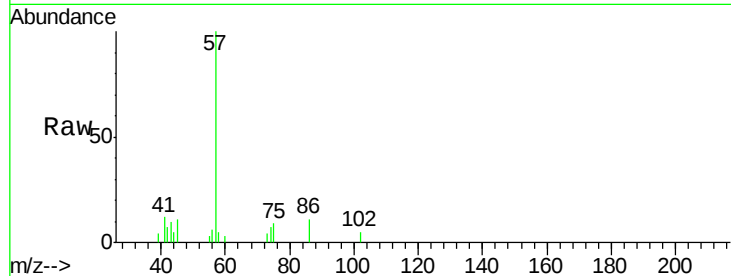




#48
Methvl methacrylate
Concen: 1.730 ug/l
RT: 9.15 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

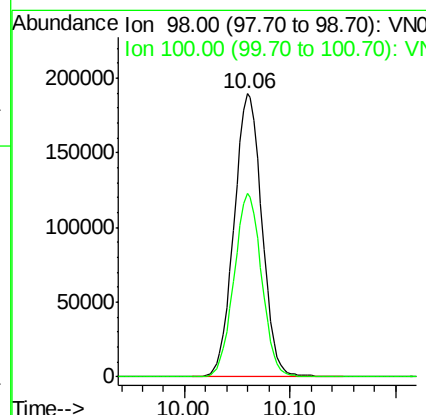
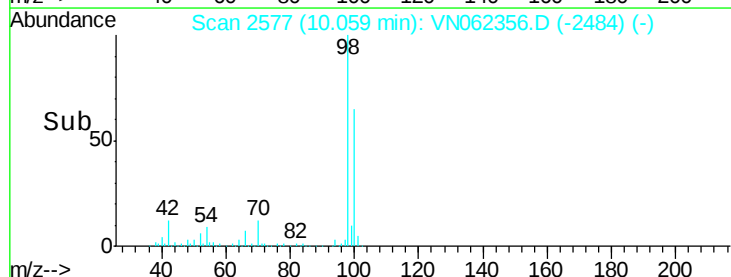
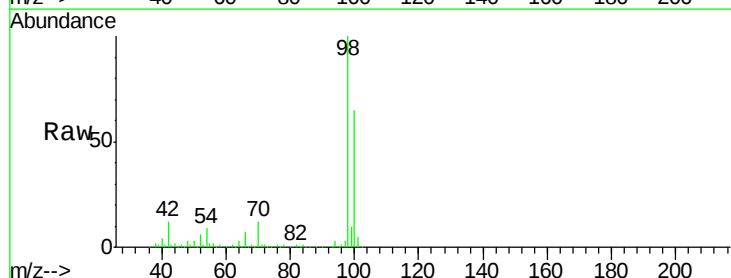
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-590-594RE

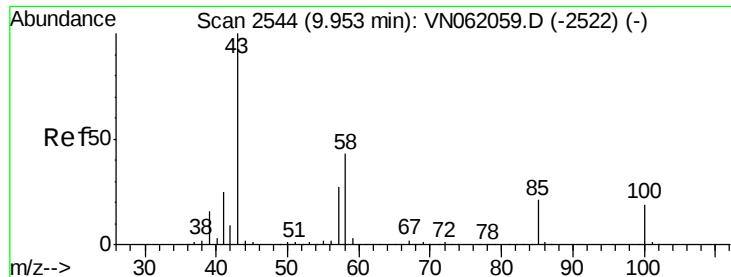
Tot Ion: 41 Resp: 2779
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 0.0 54.5 81.7#



#50
Toluene-d8
Concen: 51.163 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

Tgt Ion: 98 Resp: 346407
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 2.257 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

Instrument :

MSVOA_N

ClientSampleId :

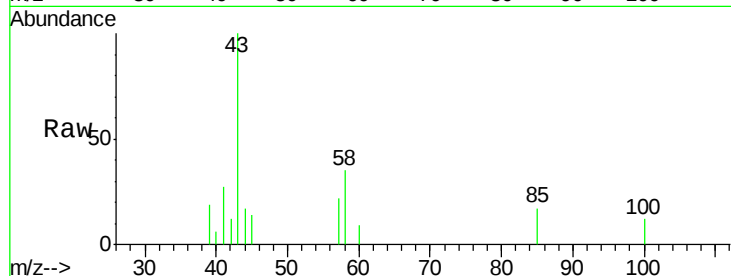
BP-MW180-SOIL-590-594RE

Tot Ion: 43 Resp: 4724

Ion Ratio Lower Upper

43 100

58 36.8 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062059.D (-2522) (-)

15000

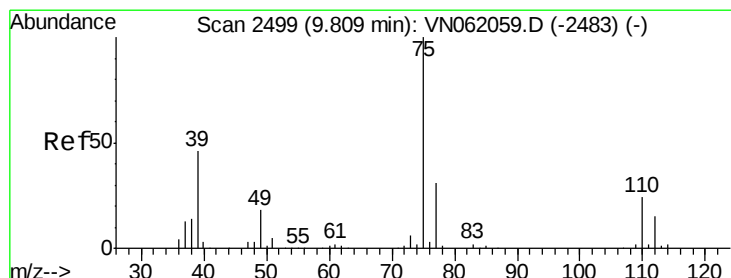
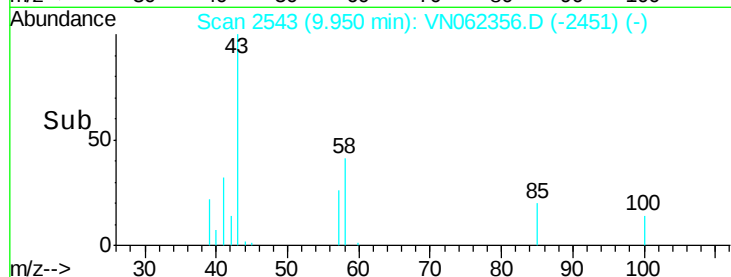
10000

5000

0

9.90 9.95

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.007 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

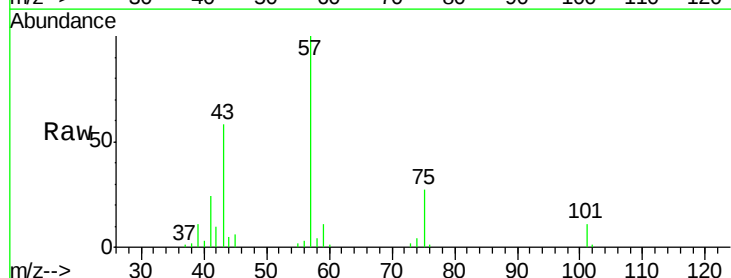
Tgt Ion: 75 Resp: 19220

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 40.3 36.9 55.3



Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN062059.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062059.D (-2483) (-)

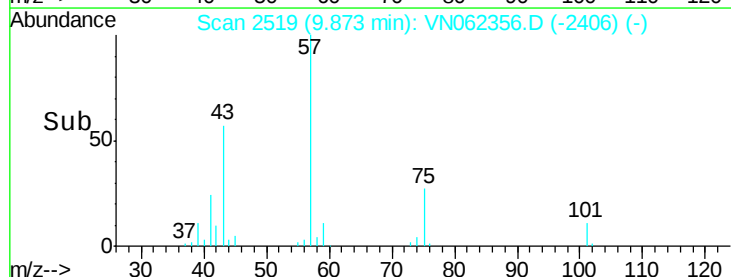
10000

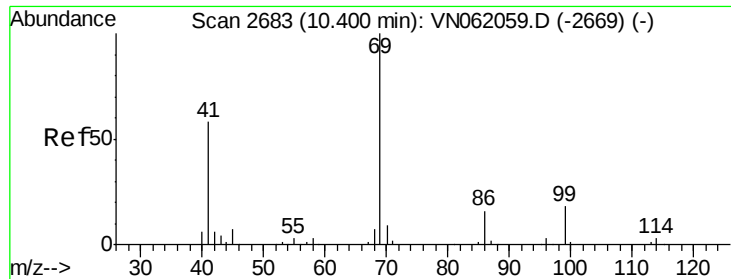
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.335 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

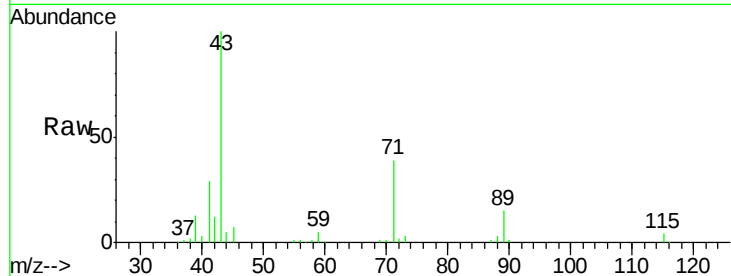
Tot Ion: 69 Resp: 868

Ion Ratio Lower Upper

69 100

41 4598.4 46.6 70.0#

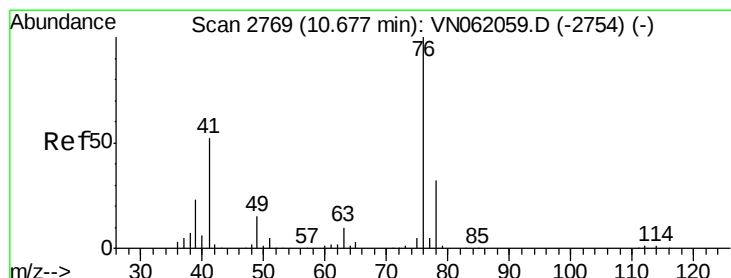
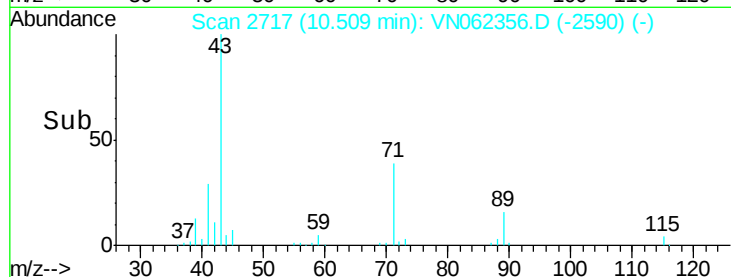
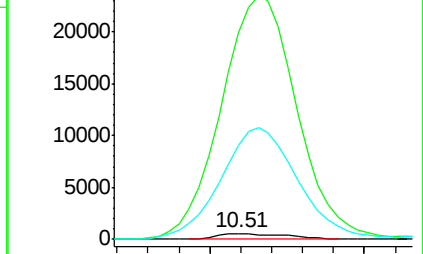
39 2158.9 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN062356.D (-2669) (-)

Ion 41.00 (40.70 to 41.70): VN062356.D (-2669) (-)

Ion 39.00 (38.70 to 39.70): VN062356.D (-2669) (-)



#57

1,3-Dichloropropane

Concen: 1.097 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN062356.D

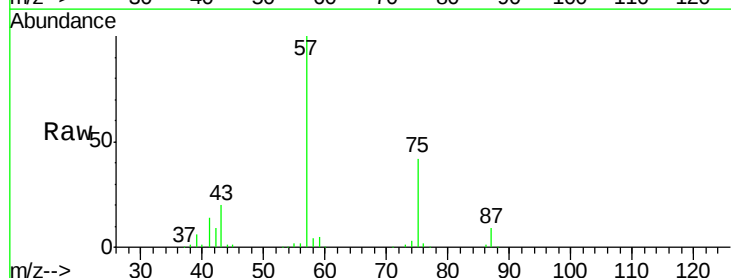
Acq: 3 Jul 2020 00:32

Tgt Ion: 76 Resp: 3663

Ion Ratio Lower Upper

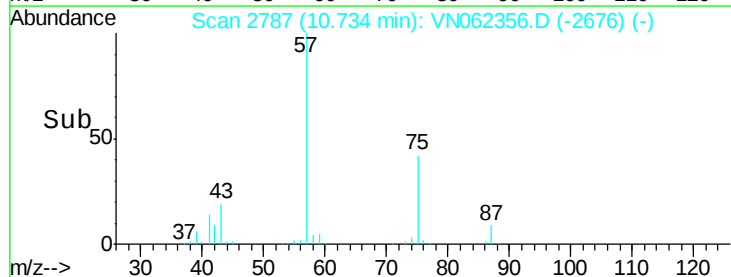
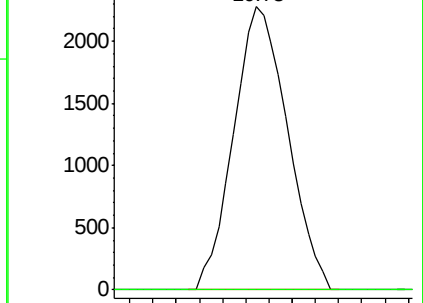
76 100

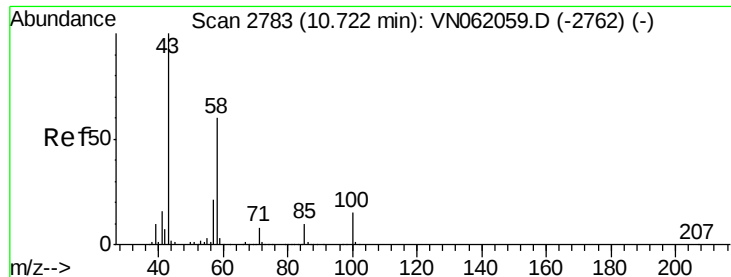
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062356.D (-2676) (-)

Ion 77.90 (77.60 to 78.60): VN062356.D (-2676) (-)

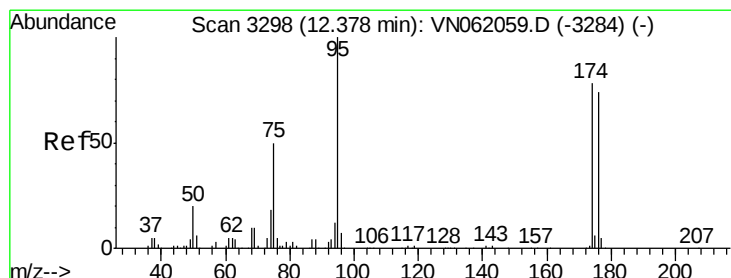
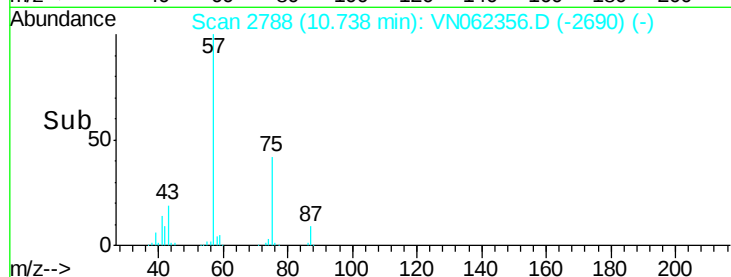
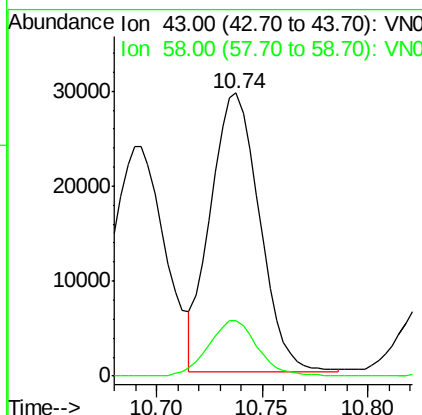
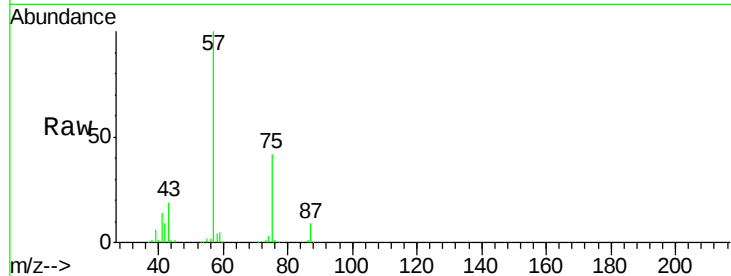




#59
2-Hexanone
Concen: 31.310 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

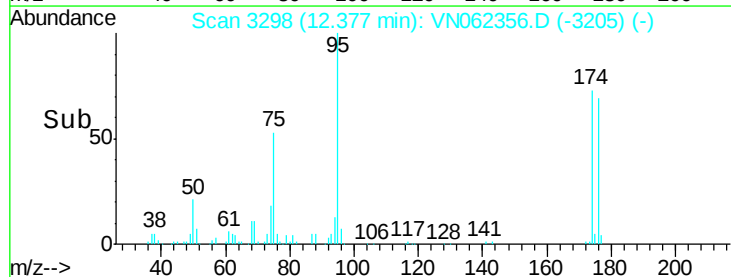
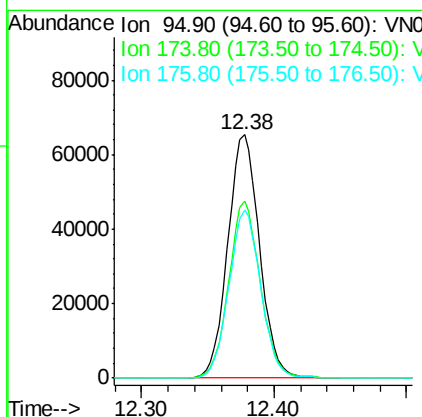
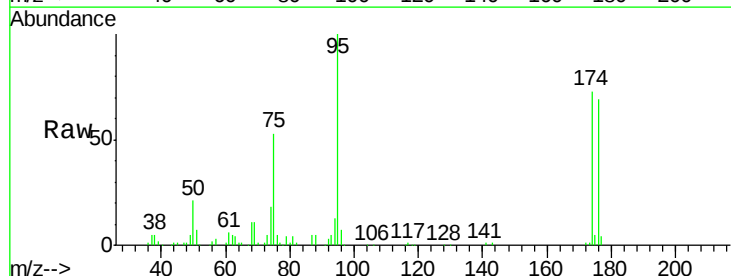
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-590-594RE

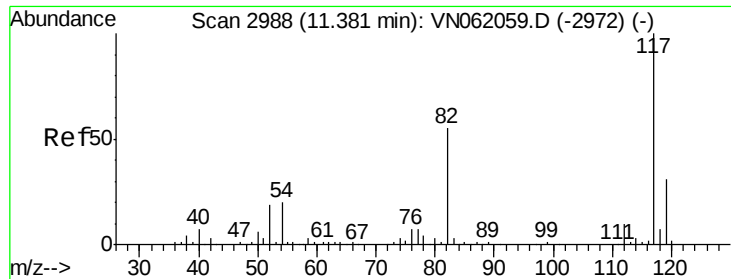
Tot Ion: 43 Resp: 47318
Ion Ratio Lower Upper
43 100
58 20.1 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 47.569 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

Tgt Ion: 95 Resp: 108814
Ion Ratio Lower Upper
95 100
174 72.4 0.0 154.8
176 69.0 0.0 147.4

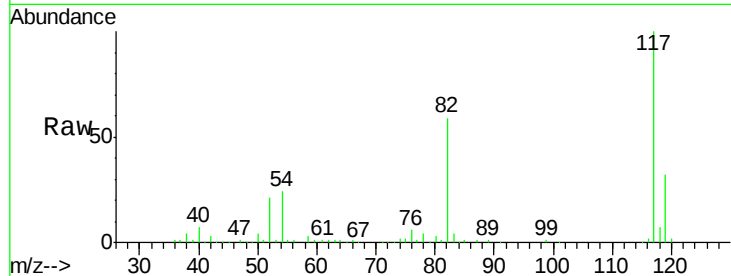




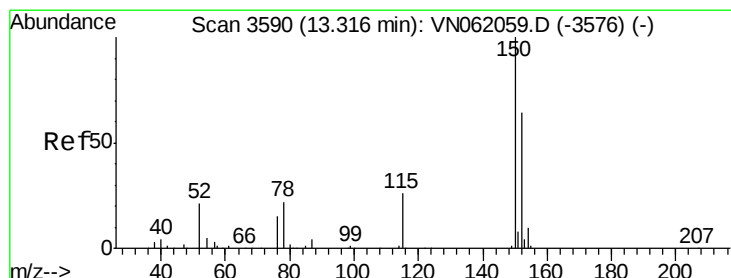
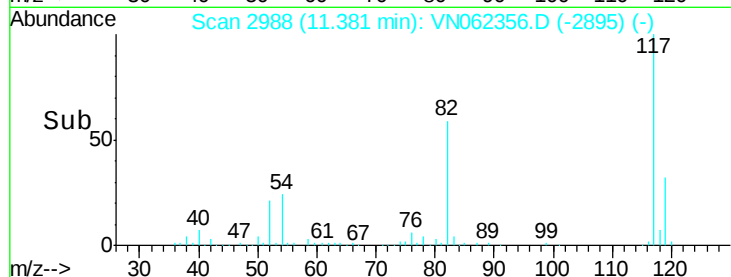
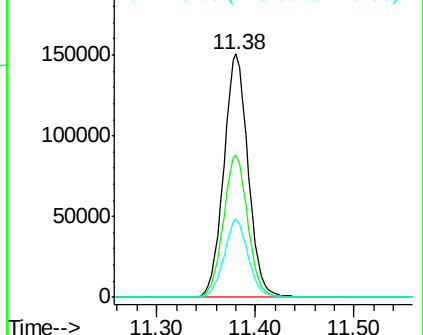
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-590-594RE

Tot Ion:117 Resp: 261297
Ion Ratio Lower Upper
117 100
82 58.6 43.8 65.8
119 32.1 25.2 37.8

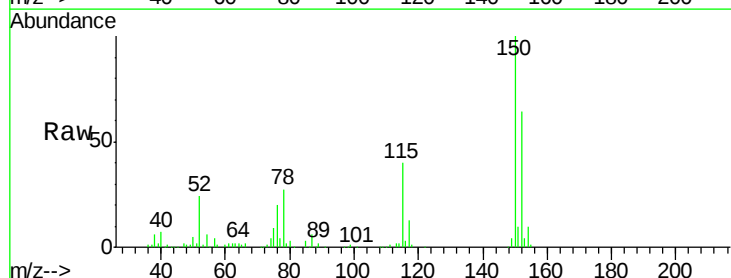


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

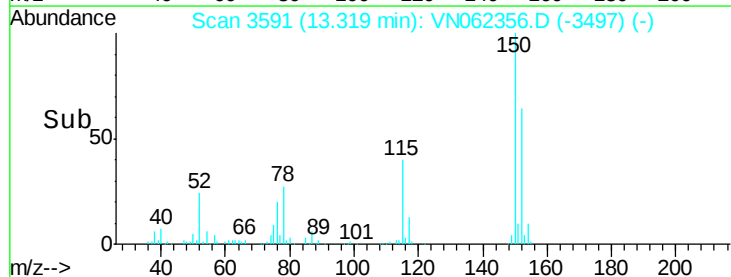
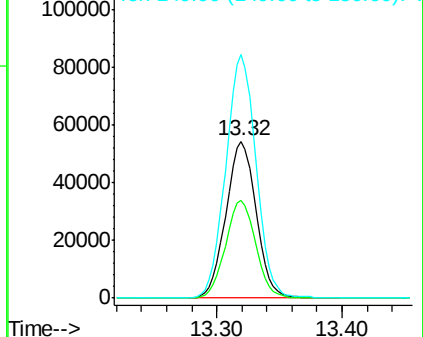


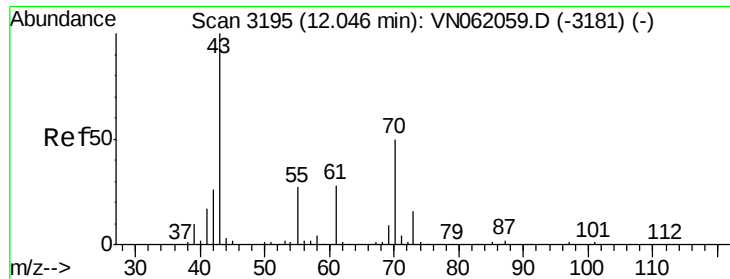
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062356.D
Acq: 3 Jul 2020 00:32

Tgt Ion:152 Resp: 90871
Ion Ratio Lower Upper
152 100
115 62.1 29.5 88.5
150 155.6 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: 3.916 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

Tot Ion: 43 Resp: 1589

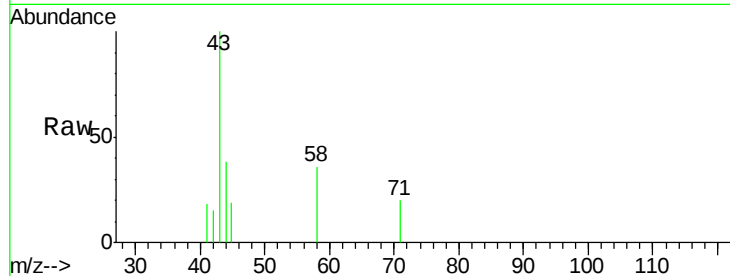
Ion Ratio Lower Upper

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

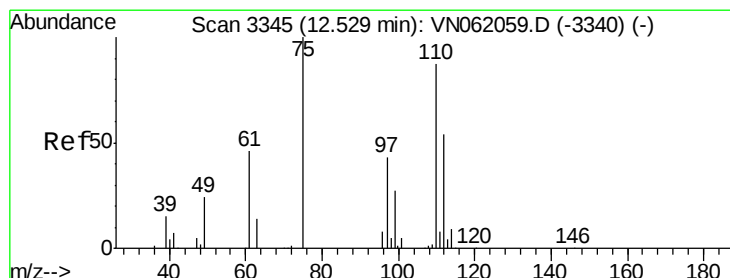
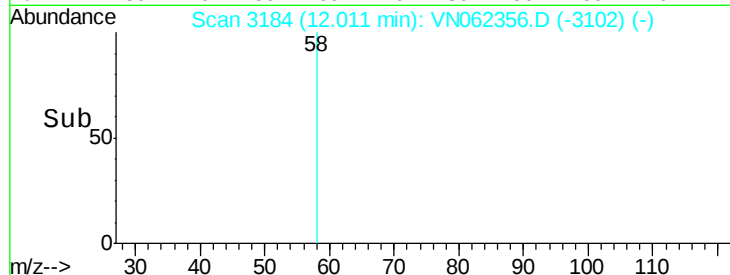
1500

1000

500

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 27.038 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062356.D

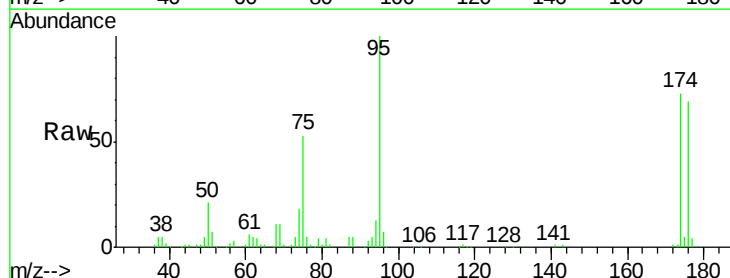
Acq: 3 Jul 2020 00:32

Tgt Ion: 75 Resp: 57838

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

40000

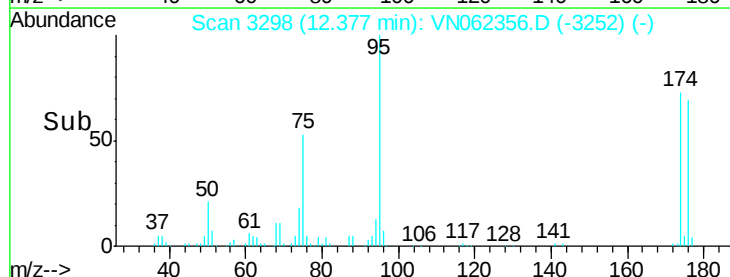
30000

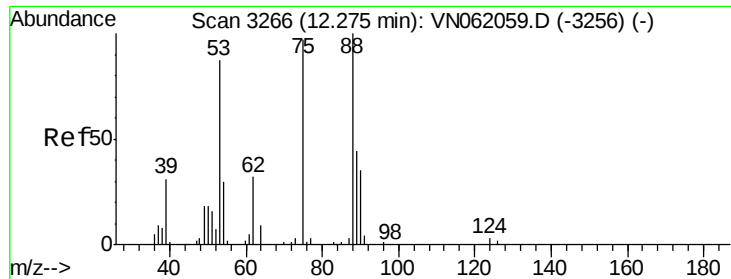
20000

10000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 78.960 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062356.D

Acq: 3 Jul 2020 00:32

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

Tot Ion: 75 Resp: 57838

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

