

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070620\
 Data File : VN062377.D
 Acq On : 6 Jul 2020 21:08
 Operator : JC/MD
 Sample : L3192-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-604-608

Quant Time: Jul 07 05:21:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070620W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 07 05:08:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	958580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	1723488	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	1649275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	616590	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	861787	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
35) Dibromofluoromethane	7.55	113	591555	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
50) Toluene-d8	10.06	98	2224633	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
62) 4-Bromofluorobenzene	12.38	95	783512	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	

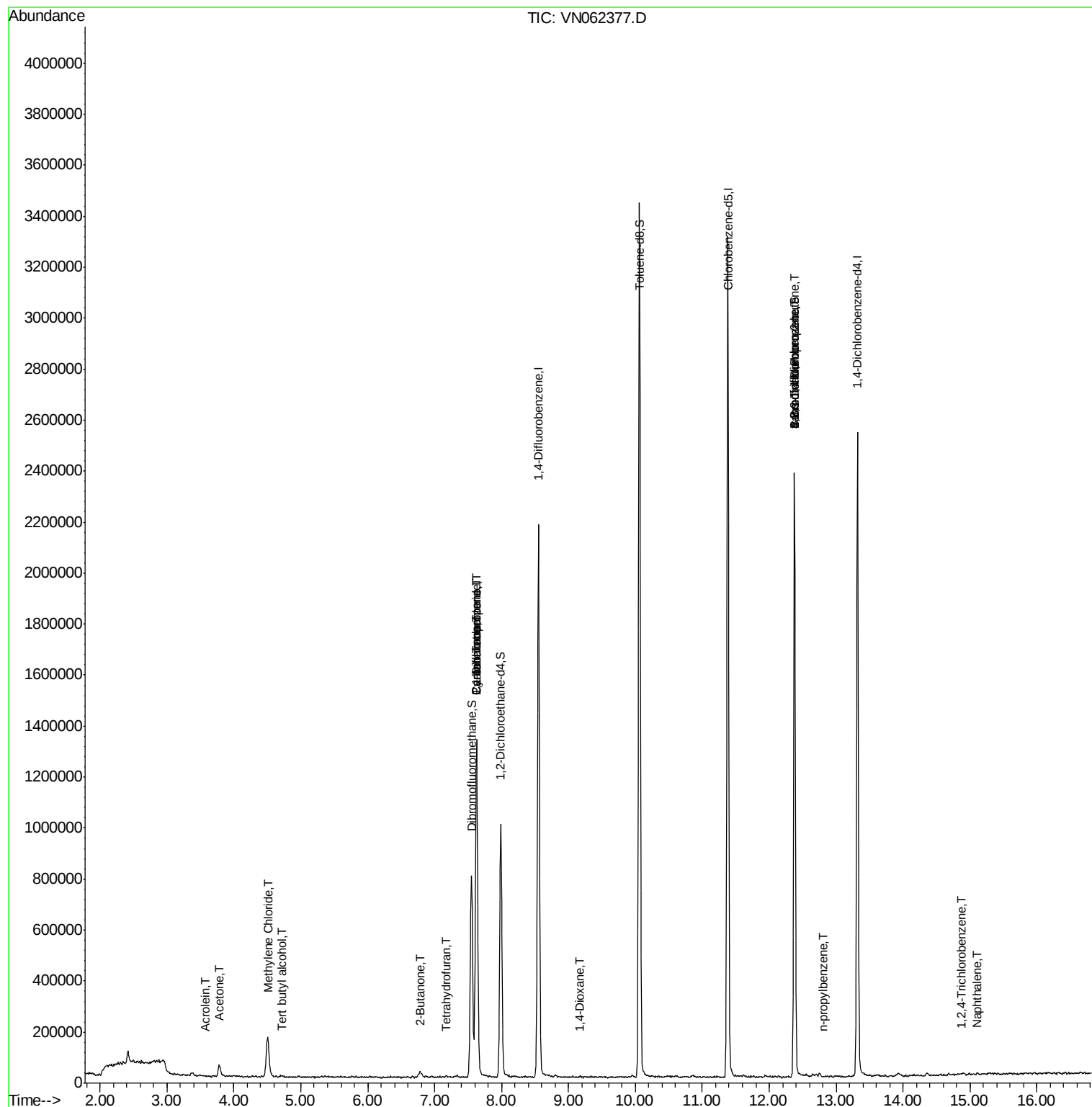
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	1130	0.471	ug/l #	23
13) Acrolein	3.57	56	407	0.735	ug/l #	43
16) Acetone	3.78	43	81018	10.135	ug/l	95
18) Methyl Acetate	4.27	43	1680	Below Cal	#	91
20) Methylene Chloride	4.50	84	104146	7.655	ug/l	96
23) Vinyl Acetate	5.85	43	884	Below Cal	#	77
25) 2-Butanone	6.80	43	2300	0.228	ug/l #	90
29) Tetrahydrofuran	7.16	42	1798	0.281	ug/l #	39
31) Cyclohexane	7.63	56	30608	1.392	ug/l #	19
36) 1,1-Dichloropropene	7.63	75	94258	5.205	ug/l #	50
38) Carbon Tetrachloride	7.62	117	106701	5.859	ug/l #	17
49) 1,4-Dioxane	9.17	88	399	1.603	ug/l #	42
51) 4-Methyl-2-Pentanone	9.94	43	2164	Below Cal	#	1
71) Bromoform	12.37	173	5461	0.547	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	457483	30.718	ug/l #	100
78) n-propylbenzene	12.81	91	564	0.292	ug/l	87
81) trans-1,4-Dichloro-2-buten	12.38	75	457483	87.844	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.88	180	548	2.783	ug/l #	19
94) Hexachlorobutadiene	14.97	225	463	Below Cal	#	29
95) Naphthalene	15.11	128	2836	2.170	ug/l #	84

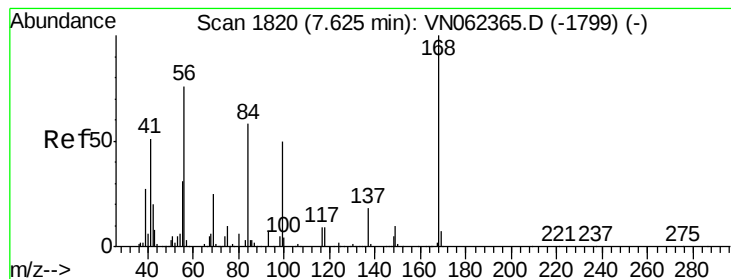
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 07 05:08:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

Instrument :

MSVOA_N

ClientSampleId :

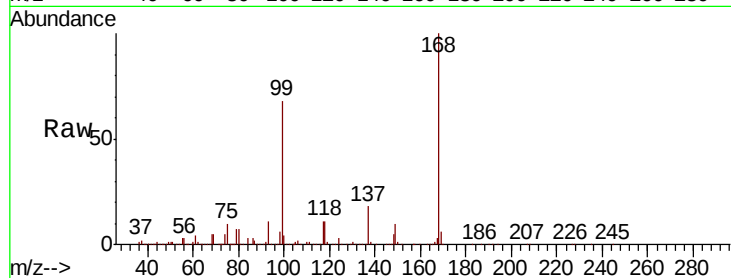
BP-MW180-SOIL-604-608

Tot Ion:168 Resp: 958580

Ion Ratio Lower Upper

168 100

99 68.1 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

400000

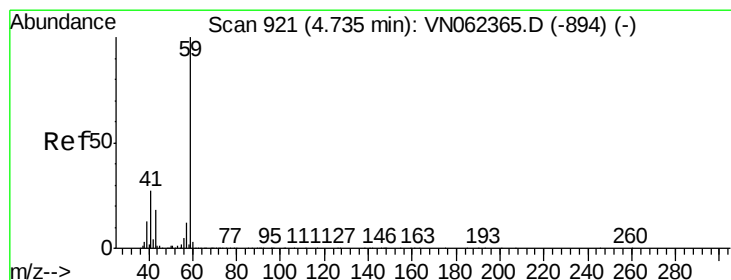
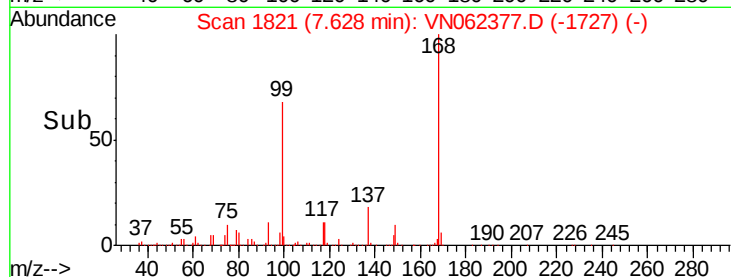
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.471 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.00 min

Lab File: VN062377.D

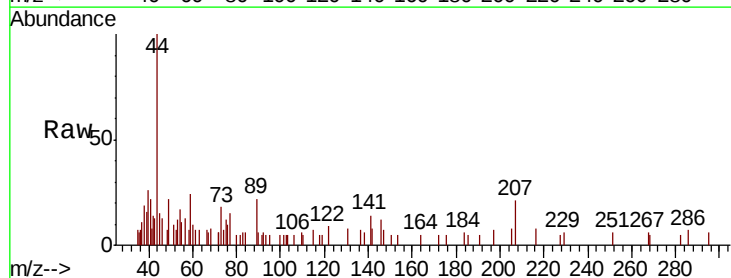
Acq: 6 Jul 2020 21:08

Tgt Ion: 59 Resp: 1130

Ion Ratio Lower Upper

59 100

57 39.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

1000

800

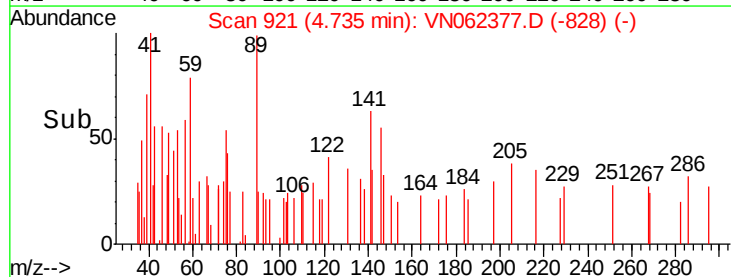
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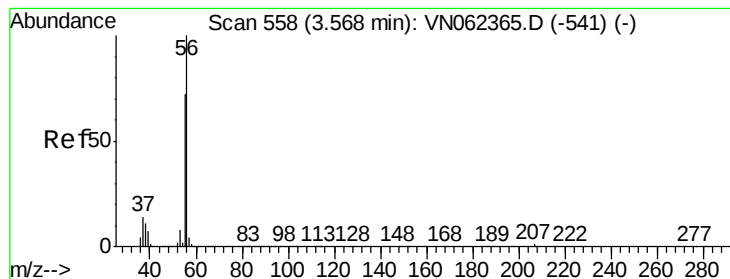
400

200

0

Time-->





#13

Acrolein

Concen: 0.735 ug/l

RT: 3.57 min Scan# 559

Delta R.T. 0.00 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

Instrument :

MSVOA_N

ClientSampleId :

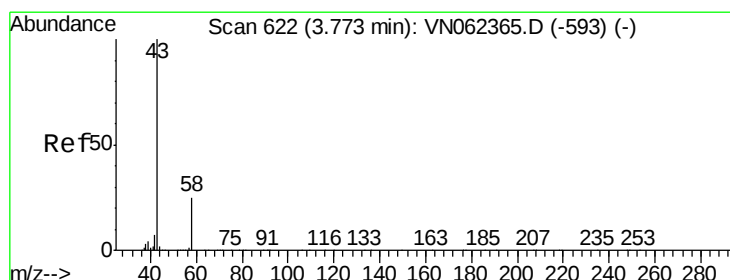
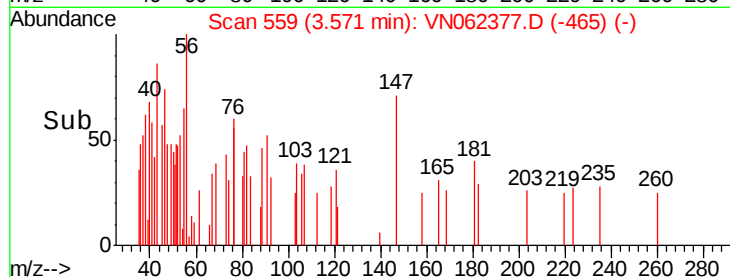
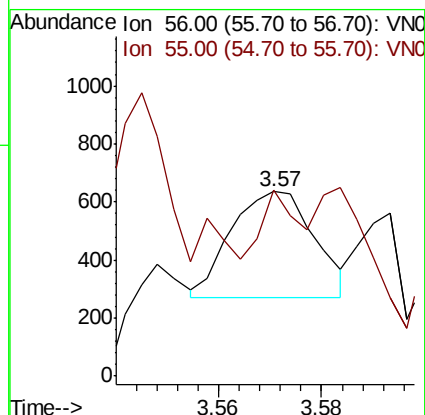
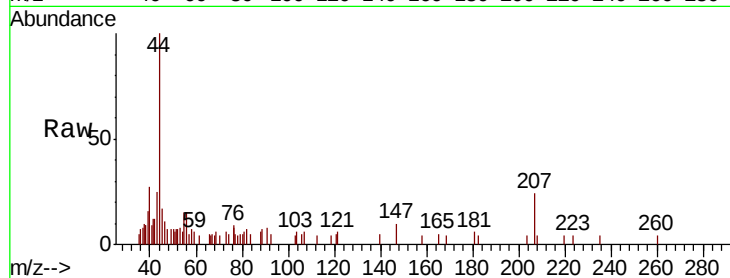
BP-MW180-SOIL-604-608

Tot Ion: 56 Resp: 407

Ion Ratio Lower Upper

56 100

55 26.5 59.6 89.4#



#16

Acetone

Concen: 10.135 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062377.D

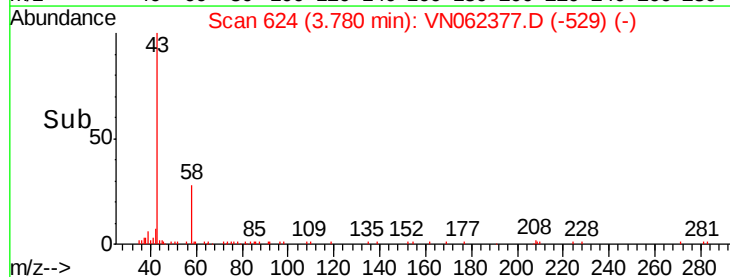
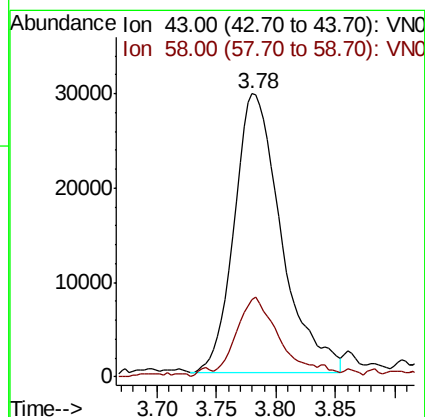
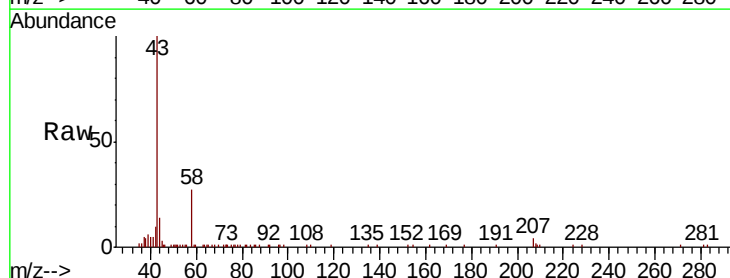
Acq: 6 Jul 2020 21:08

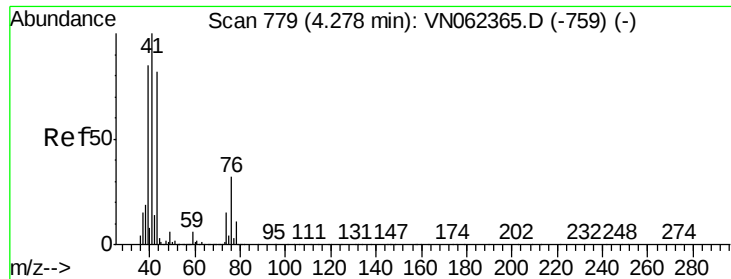
Tgt Ion: 43 Resp: 81018

Ion Ratio Lower Upper

43 100

58 27.5 19.8 29.8

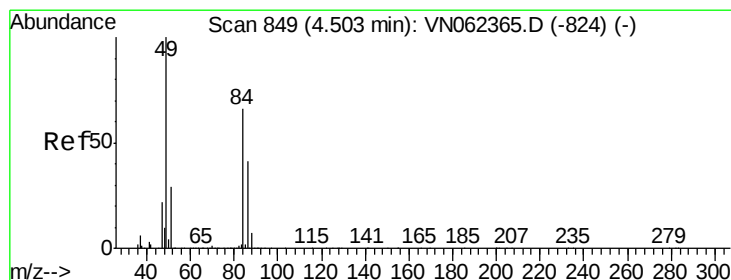
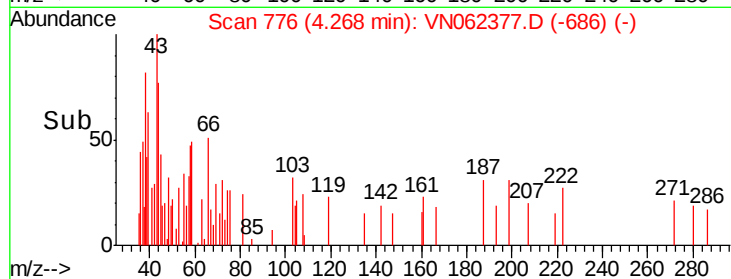
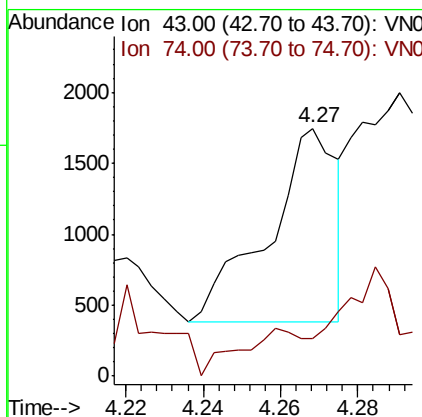
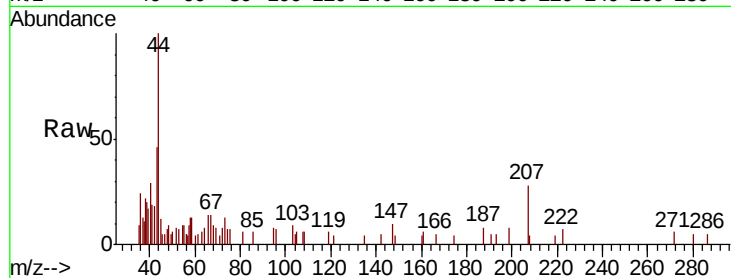




#18
Methyl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 776
Delta R.T. -0.01 min
Lab File: VN062377.D
Acq: 6 Jul 2020 21:08

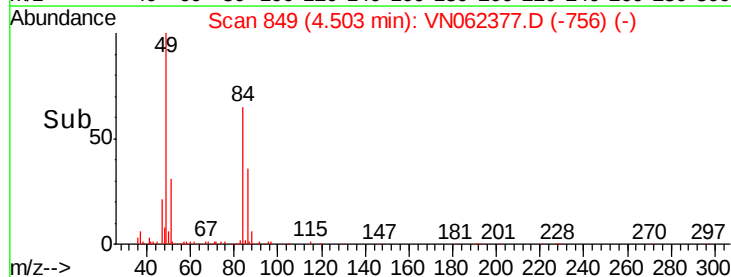
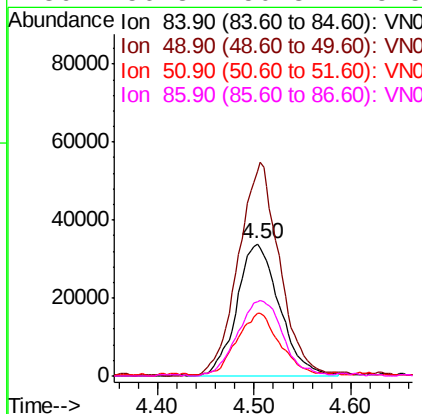
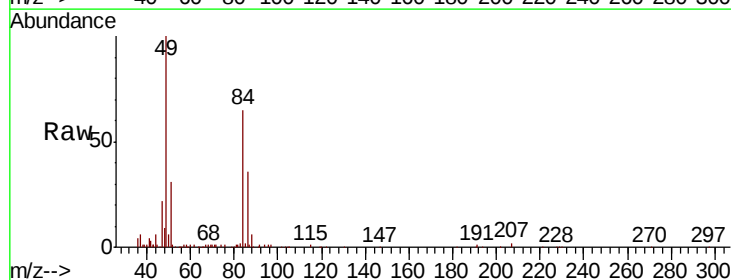
Instrument :
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BP-MW180-SOIL-604-608

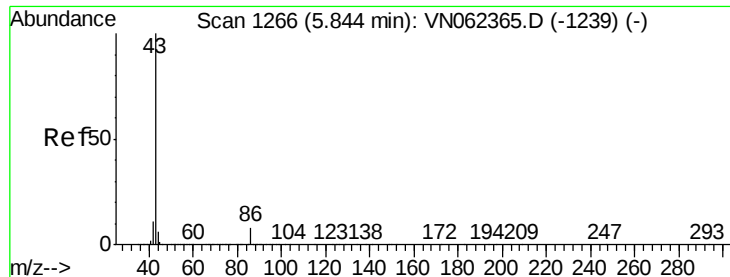
Tot Ion: 43 Resp: 1680
Ion Ratio Lower Upper
43 100
74 21.5 14.2 21.4#



#20
Methylene Chloride
Concen: 7.655 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062377.D
Acq: 6 Jul 2020 21:08

Tgt Ion: 84 Resp: 104146
Ion Ratio Lower Upper
84 100
49 154.3 121.8 182.6
51 46.3 35.0 52.4
86 56.3 50.3 75.5





#23

Vinyl Acetate

Concen: Below Cal

RT: 5.85 min Scan# 1268

Delta R.T. 0.01 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

Instrument :

MSVOA_N

ClientSampleId :

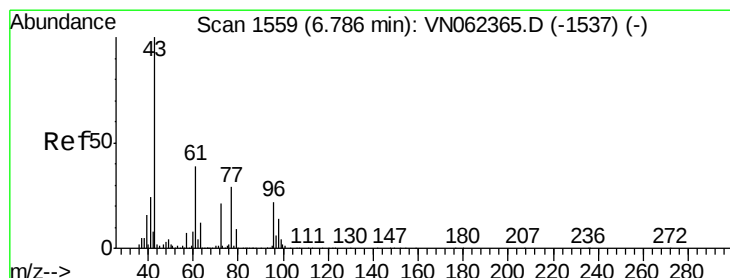
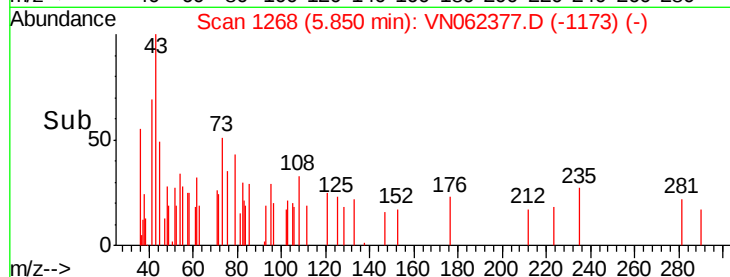
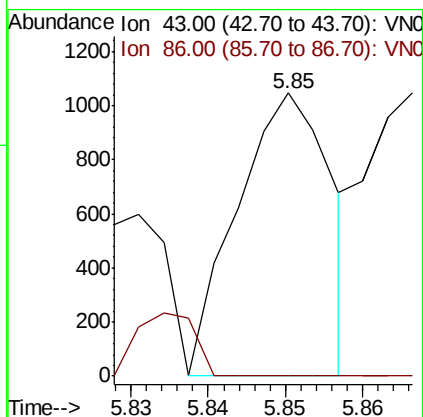
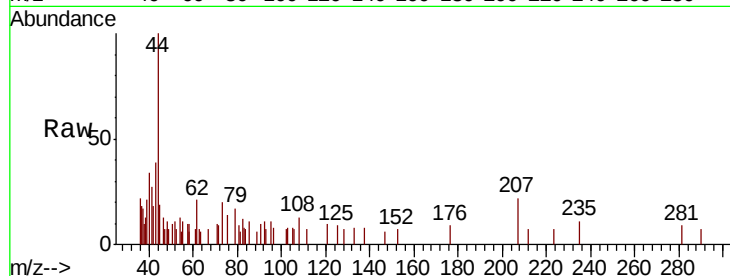
BP-MW180-SOIL-604-608

Tot Ion: 43 Resp: 884

Ion Ratio Lower Upper

43 100

86 0.0 6.6 9.8#



#25

2-Butanone

Concen: 0.228 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN062377.D

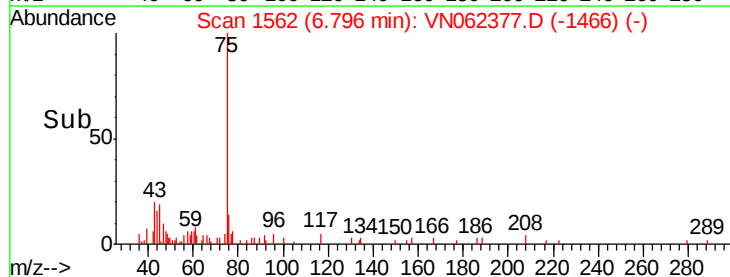
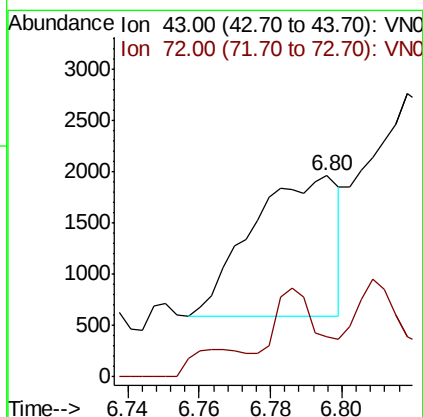
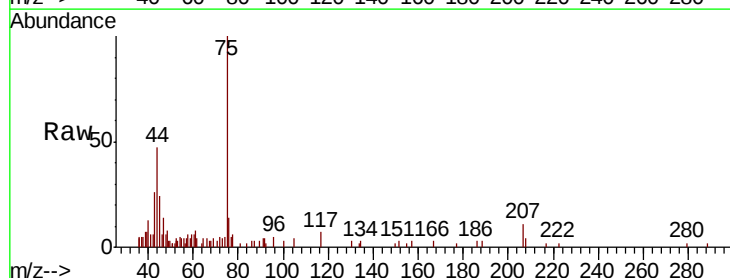
Acq: 6 Jul 2020 21:08

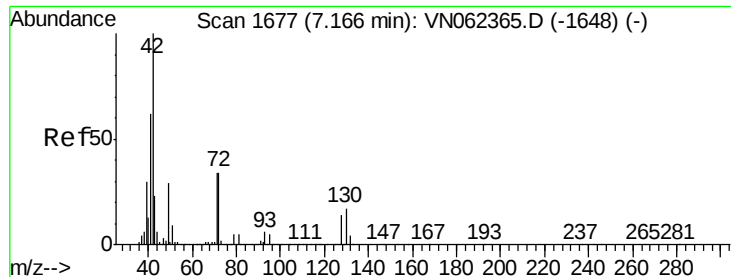
Tgt Ion: 43 Resp: 2300

Ion Ratio Lower Upper

43 100

72 15.7 16.4 24.6#

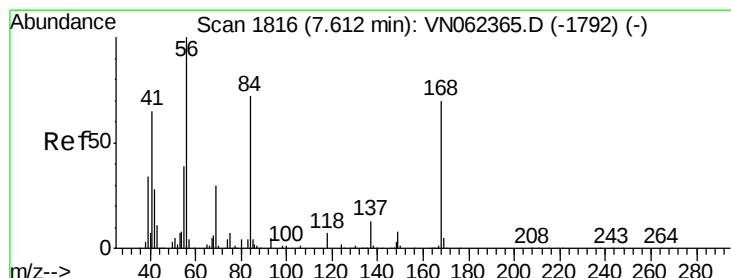
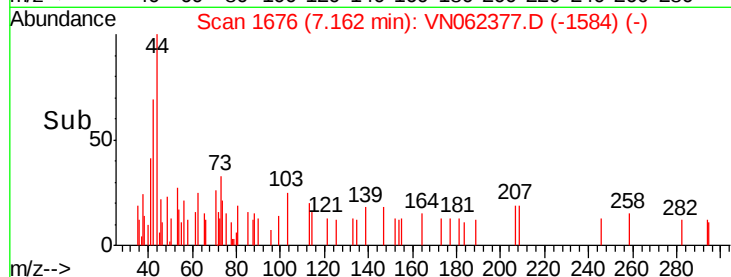
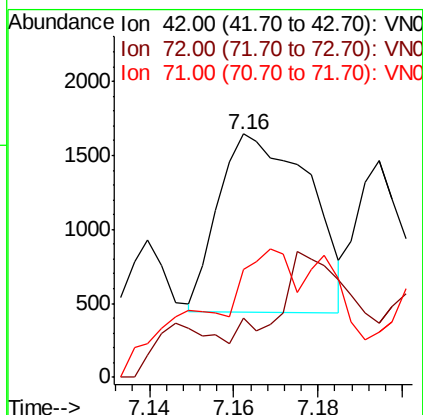
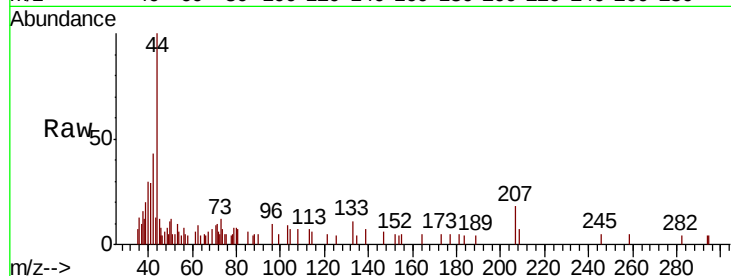




#29
Tetrahydrofuran
Concen: 0.281 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.00 min
Lab File: VN062377.D
Acq: 6 Jul 2020 21:08

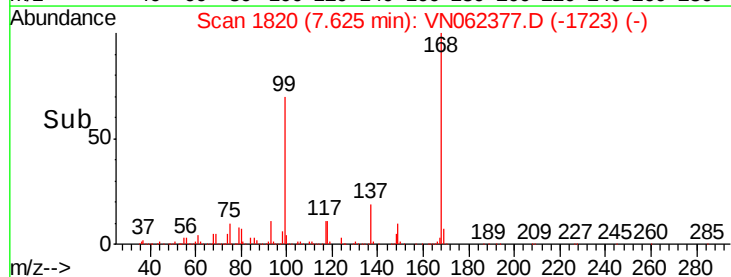
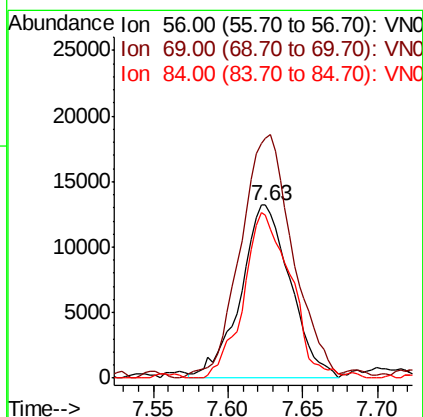
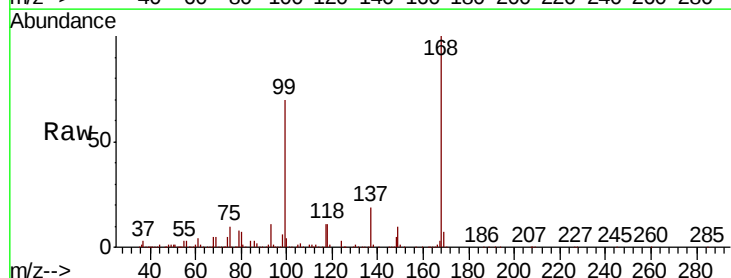
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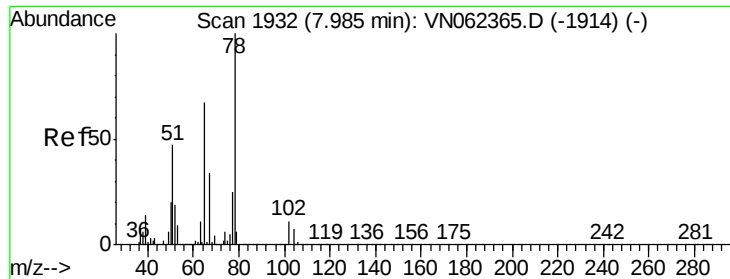
Tot Ion: 42 Resp: 1798
Ion Ratio Lower Upper
42 100
72 63.7 26.8 40.2#
71 71.9 26.0 39.0#



#31
Cyclohexane
Concen: 1.392 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062377.D
Acq: 6 Jul 2020 21:08

Tgt Ion: 56 Resp: 30608
Ion Ratio Lower Upper
56 100
69 139.3 23.7 35.5#
84 96.3 57.2 85.8#

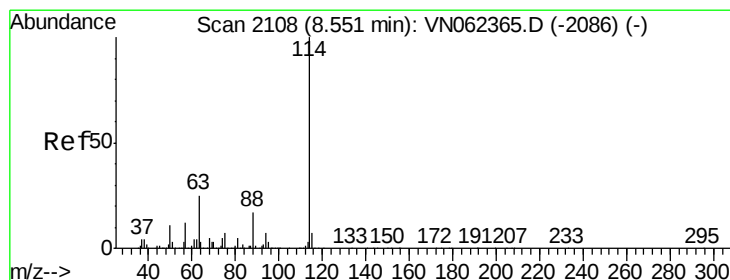
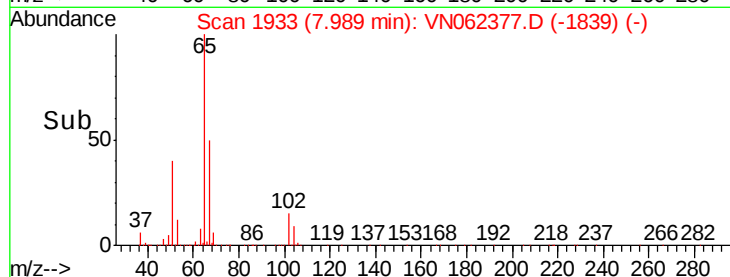
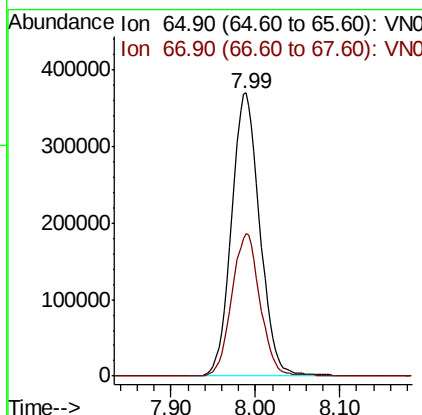
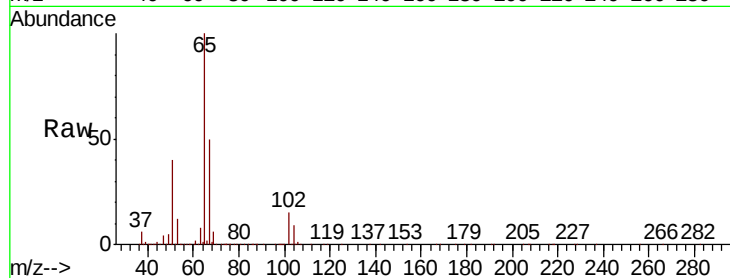




#33
 1,2-Dichloroethane-d4
 Concen: 49.700 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062377.D
 Acq: 6 Jul 2020 21:08

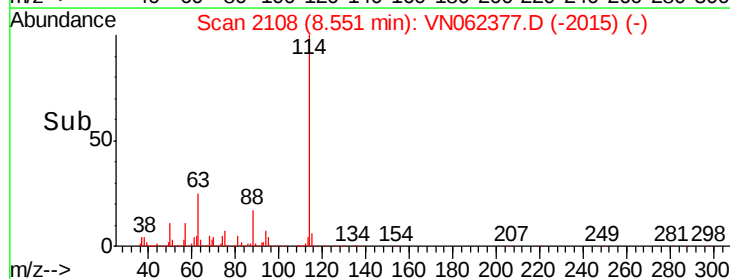
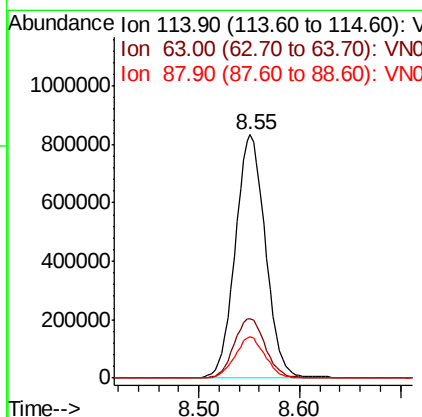
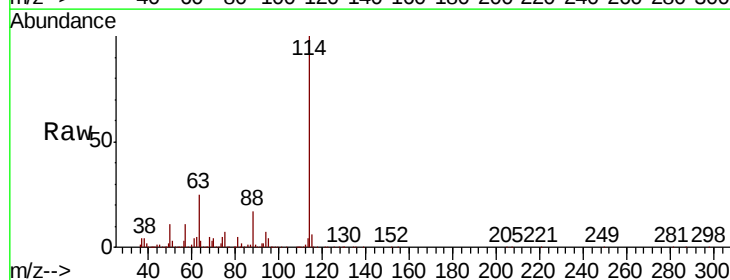
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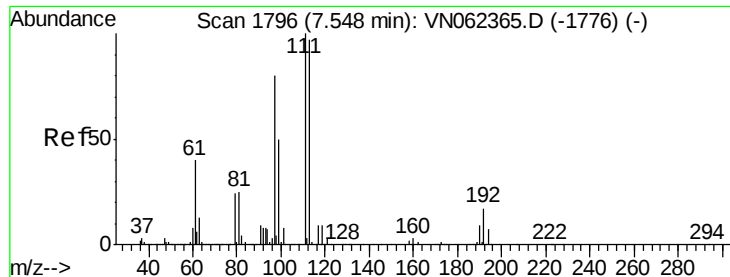
Tot Ion: 65 Resp: 861787
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 101.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062377.D
 Acq: 6 Jul 2020 21:08

Tgt Ion: 114 Resp: 1723488
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 49.0
 88 17.0 0.0 34.0

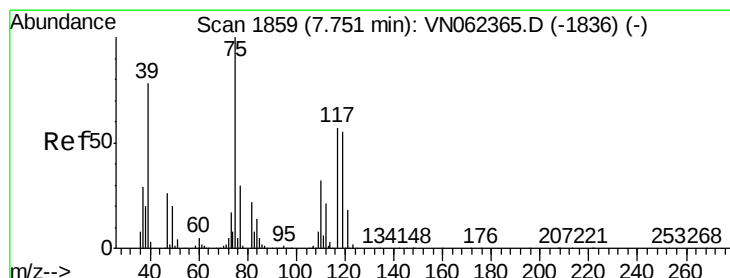
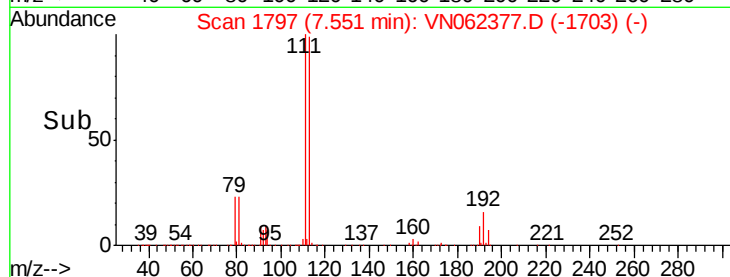
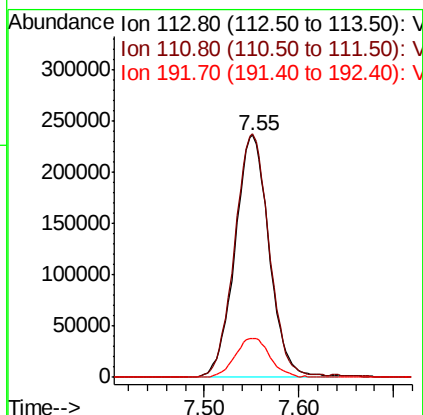
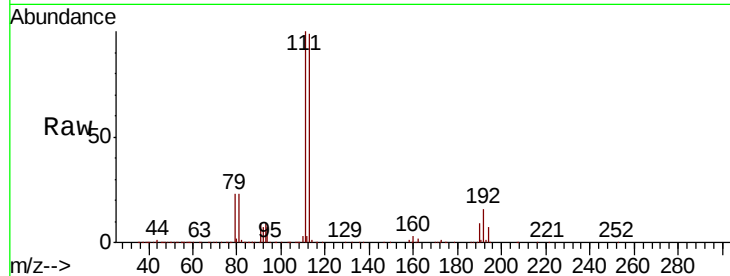




#35
 Dibromofluoromethane
 Concen: 50.313 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062377.D
 Acq: 6 Jul 2020 21:08

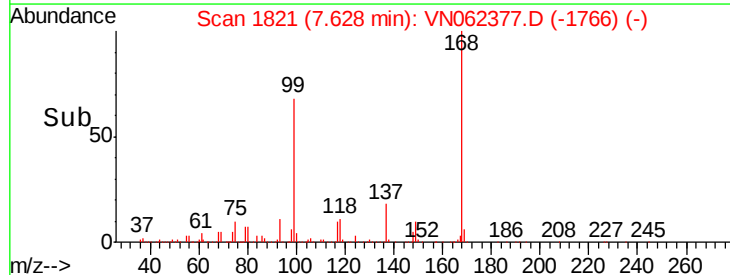
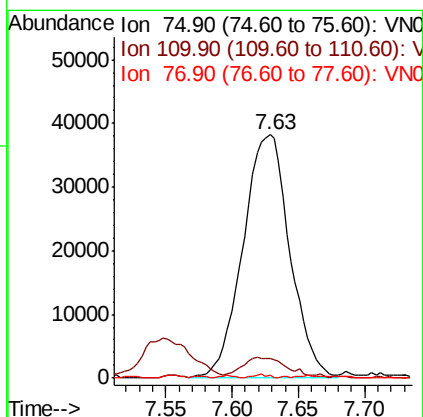
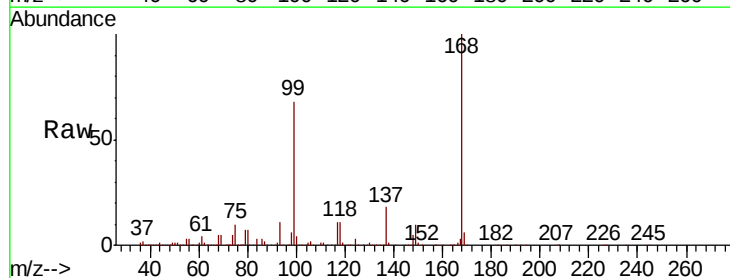
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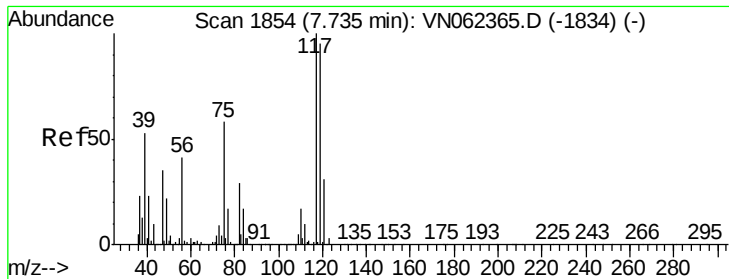
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.2	124.8
192	16.6	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 5.205 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062377.D
 Acq: 6 Jul 2020 21:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.6	15.7	47.1#
77	0.5	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 5.859 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-604-608

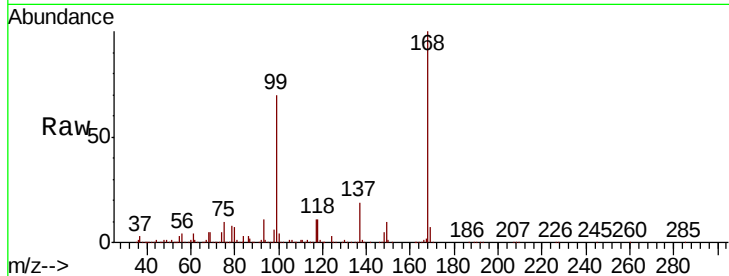
Tot Ion:117 Resp: 106701

Ion Ratio Lower Upper

117 100

119 5.6 75.9 113.9#

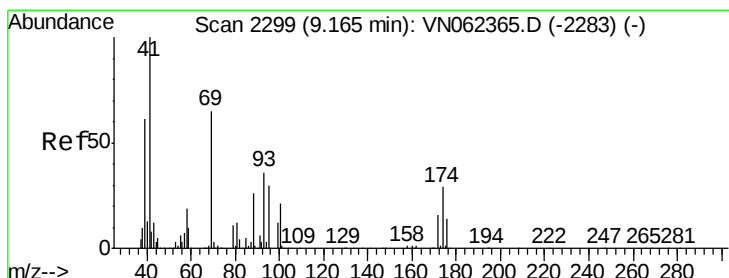
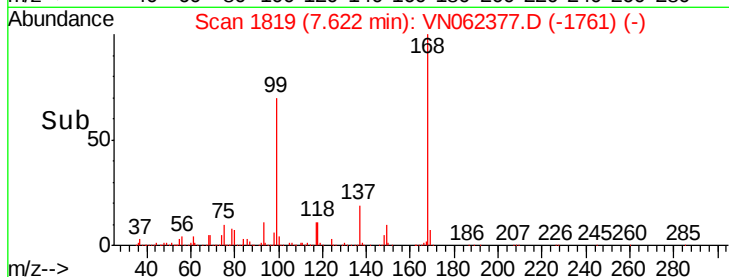
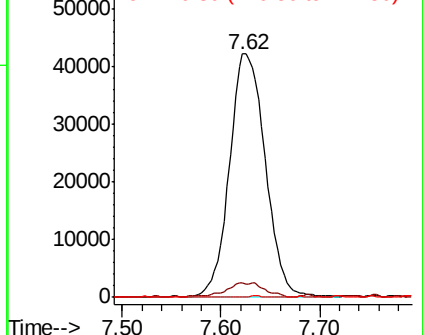
121 0.0 24.6 36.8#



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



#49

1,4-Dioxane

Concen: 1.603 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.00 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

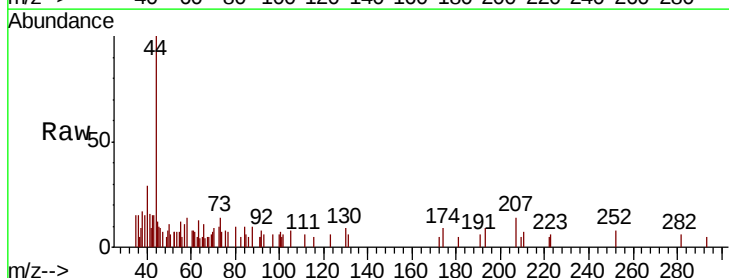
Tgt Ion: 88 Resp: 399

Ion Ratio Lower Upper

88 100

43 101.5 34.0 51.0#

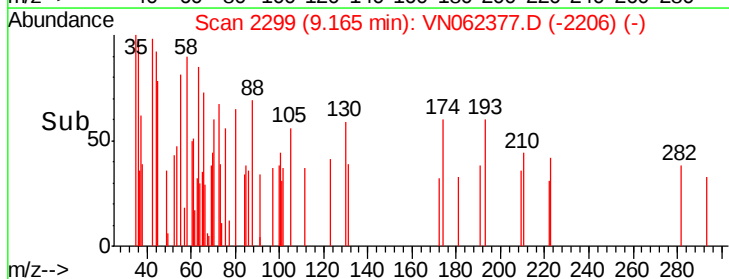
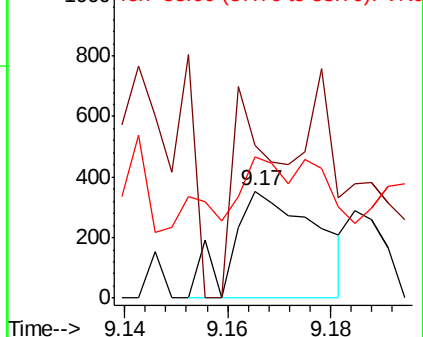
58 43.9 63.0 94.4#

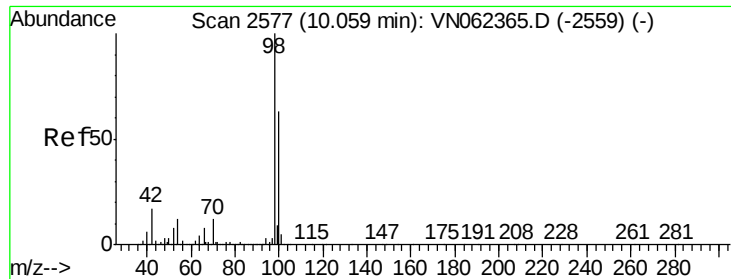


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 50.615 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

Instrument :

MSVOA_N

ClientSampleId :

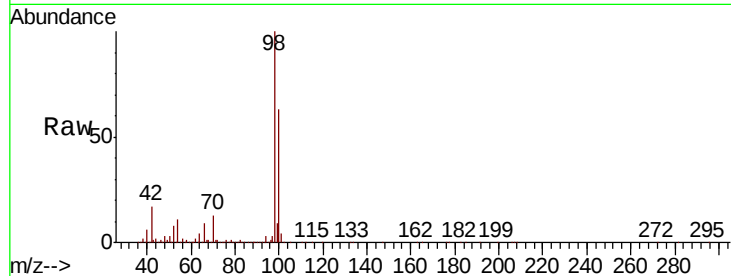
BP-MW180-SOIL-604-608

Tot Ion: 98 Resp: 2224633

Ion Ratio Lower Upper

98 100

100 62.9 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN062365.D (-2559) (-)

Ion 100.00 (99.70 to 100.70): VN062365.D (-2559) (-)

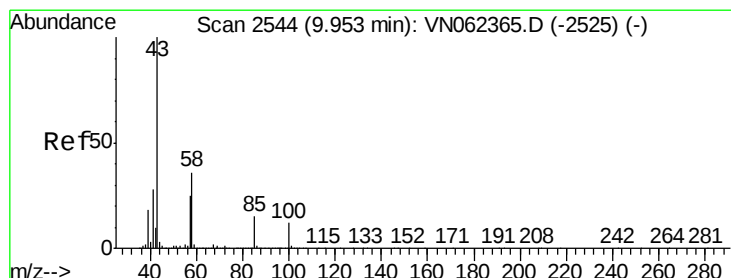
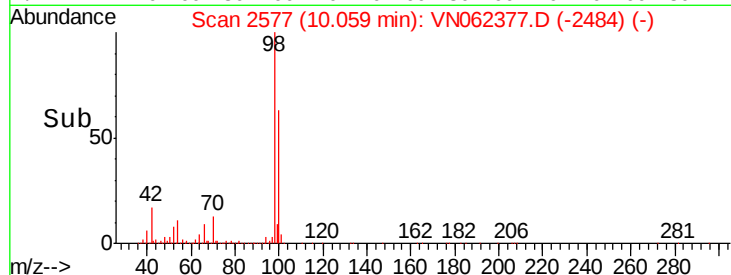
10.06

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: Below Cal

RT: 9.94 min Scan# 2541

Delta R.T. -0.01 min

Lab File: VN062377.D

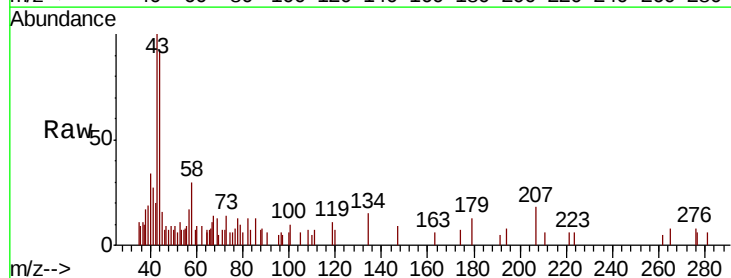
Acq: 6 Jul 2020 21:08

Tgt Ion: 43 Resp: 2164

Ion Ratio Lower Upper

43 100

58 127.9 27.6 41.4#



Abundance Ion 43.00 (42.70 to 43.70): VN062365.D (-2525) (-)

Ion 58.00 (57.70 to 58.70): VN062365.D (-2525) (-)

9.94

4000

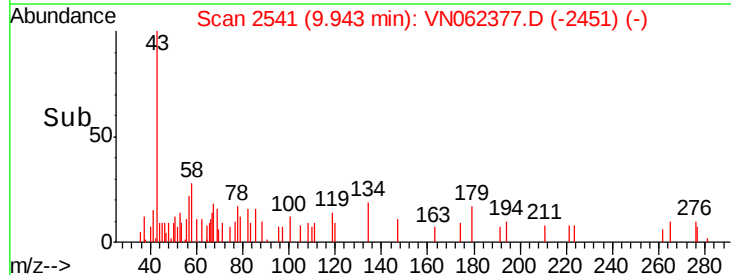
3000

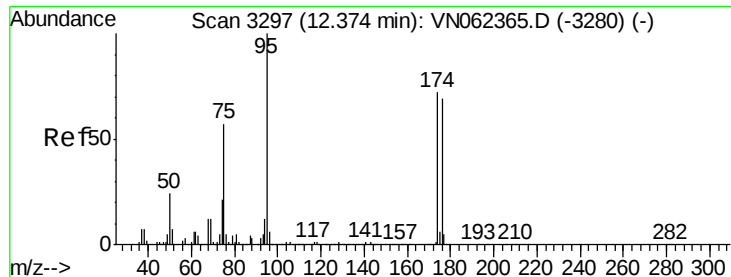
2000

1000

0

Time-->

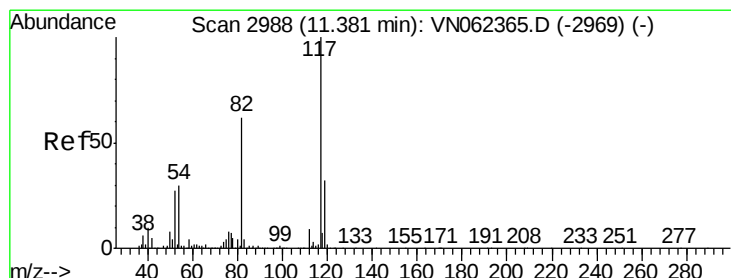
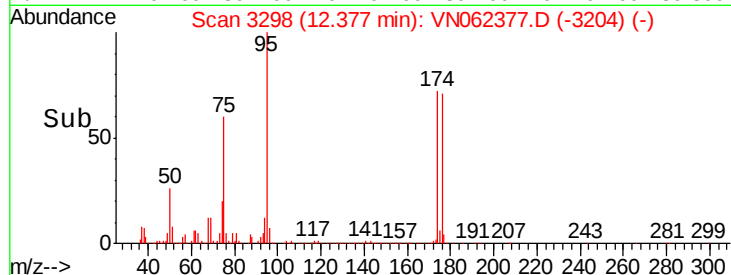
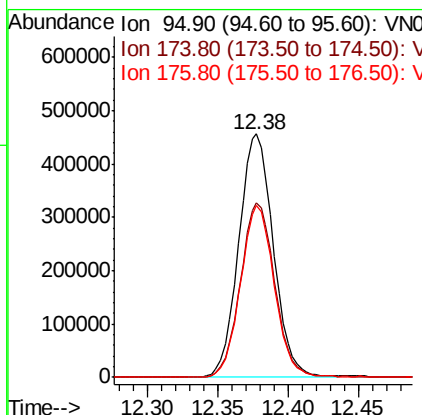
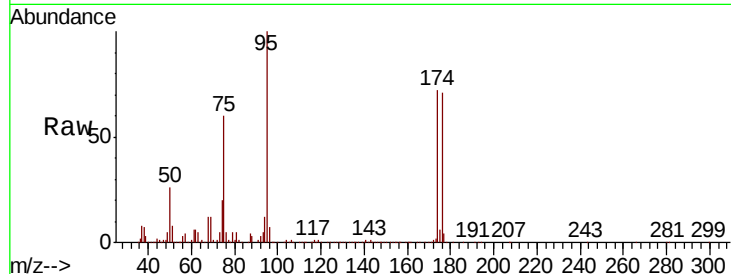




#62
4-Bromofluorobenzene
Concen: 46.546 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062377.D
Acq: 6 Jul 2020 21:08

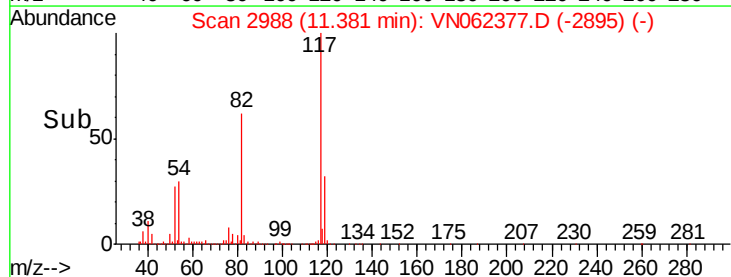
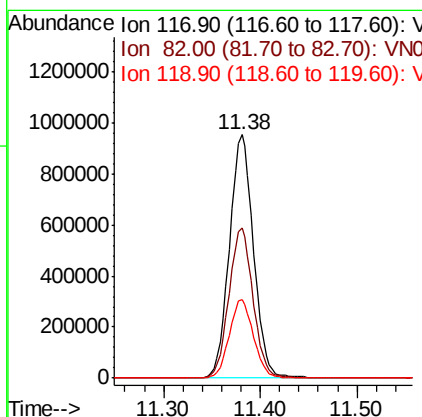
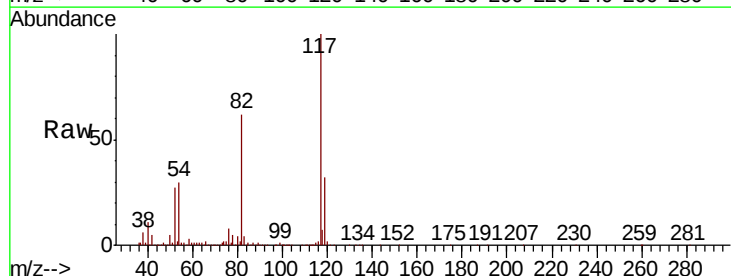
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-604-608

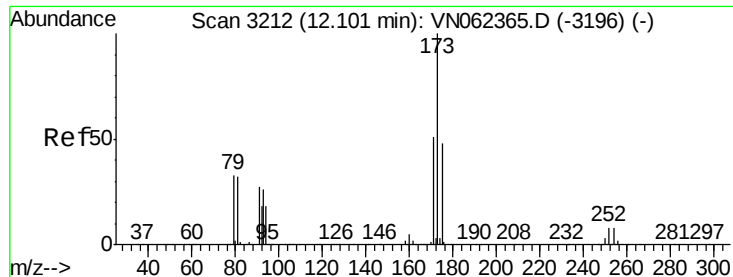
Tot Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	145.8
176	69.3	0.0	140.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062377.D
Acq: 6 Jul 2020 21:08

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.9	49.4	74.2
119	32.1	25.6	38.4





#71

Bromoform

Concen: 0.547 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-604-608

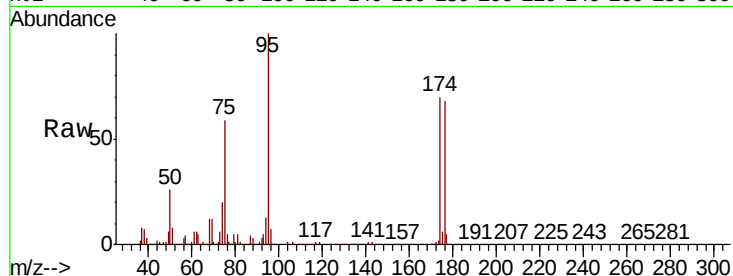
Tot Ion:173 Resp: 5461

Ion Ratio Lower Upper

173 100

175 683.2 24.1 72.2#

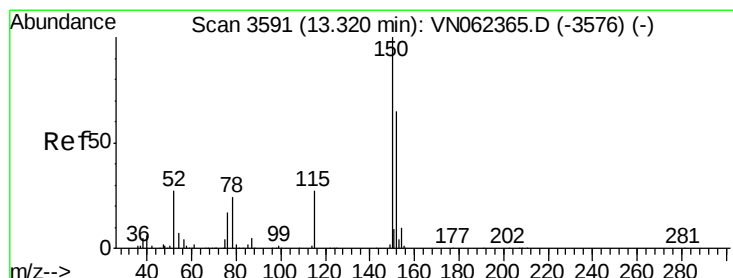
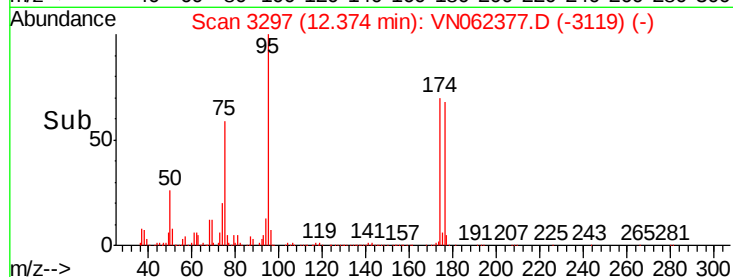
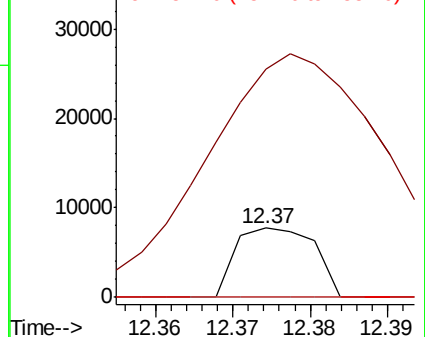
254 0.0 0.2 0.2#



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: VN062377.D

Acq: 6 Jul 2020 21:08

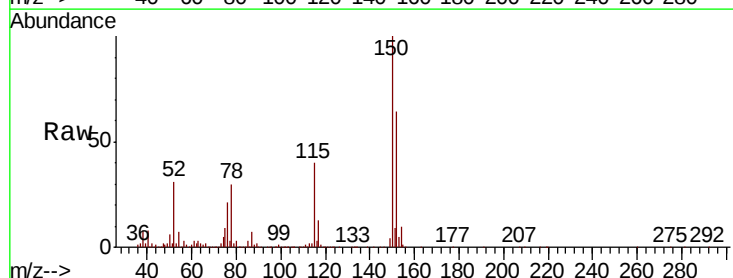
Tgt Ion:152 Resp: 616590

Ion Ratio Lower Upper

152 100

115 62.8 30.5 91.5

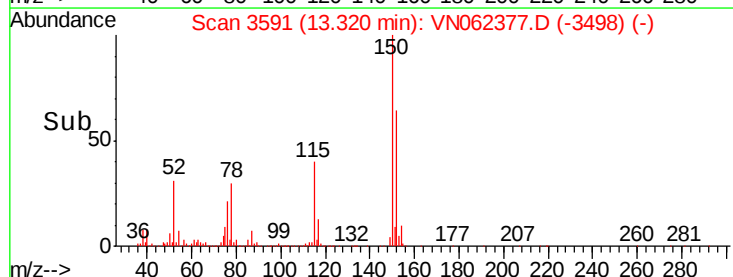
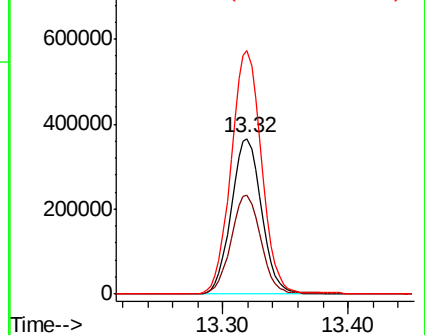
150 157.0 0.0 346.8

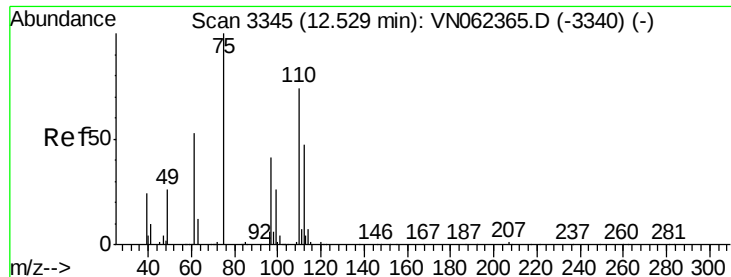


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.718 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

Instrument :

MSVOA_N

ClientSampleId :

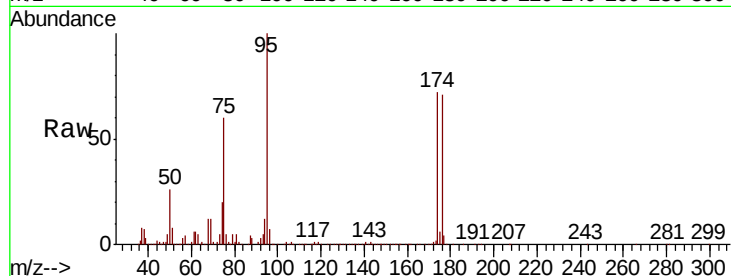
BP-MW180-SOIL-604-608

Tot Ion: 75 Resp: 457483

Ion Ratio Lower Upper

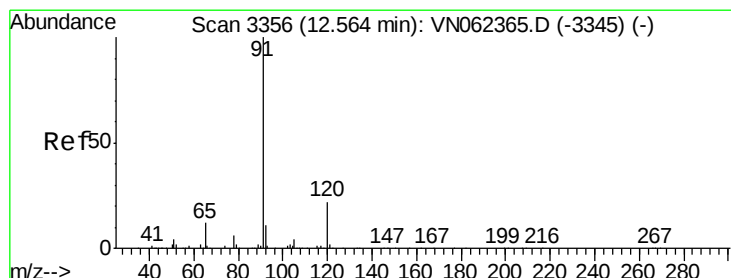
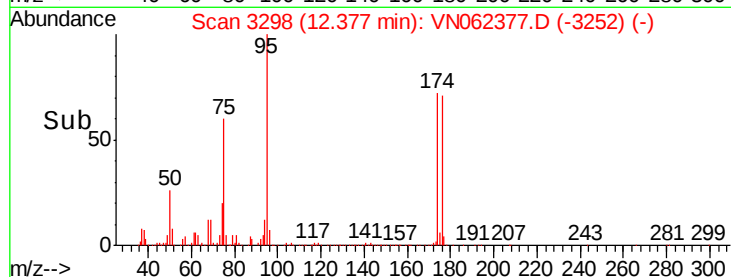
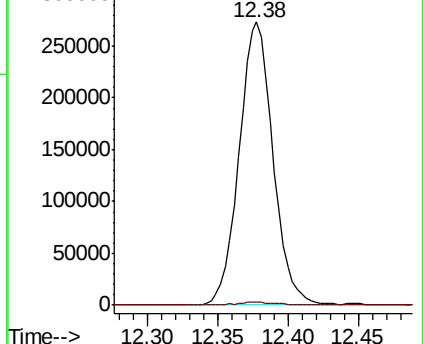
75 100

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



#78

n-propylbenzene

Concen: 0.292 ug/l

RT: 12.81 min Scan# 3434

Delta R.T. 0.25 min

Lab File: VN062377.D

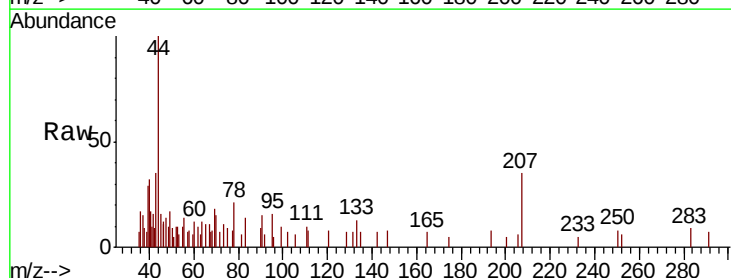
Acq: 6 Jul 2020 21:08

Tgt Ion: 91 Resp: 564

Ion Ratio Lower Upper

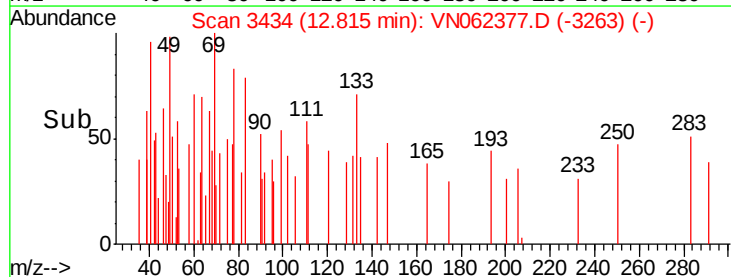
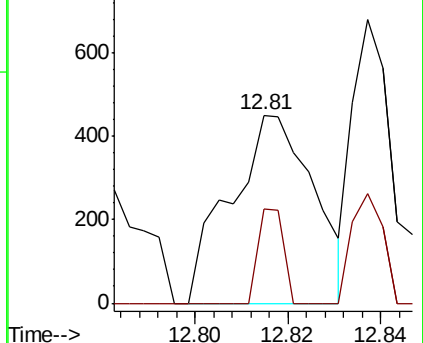
91 100

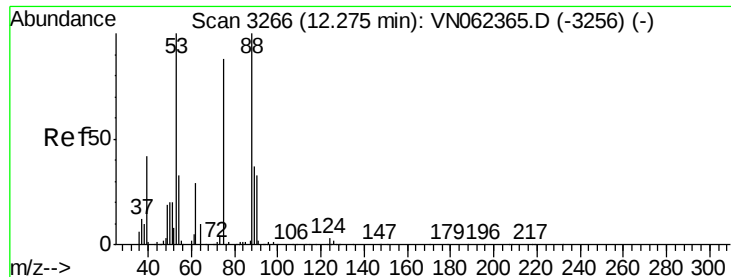
120 15.4 10.9 32.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

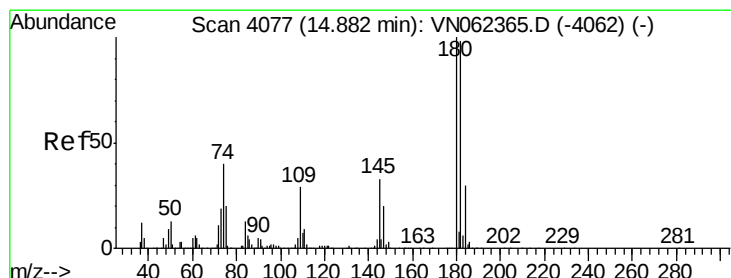
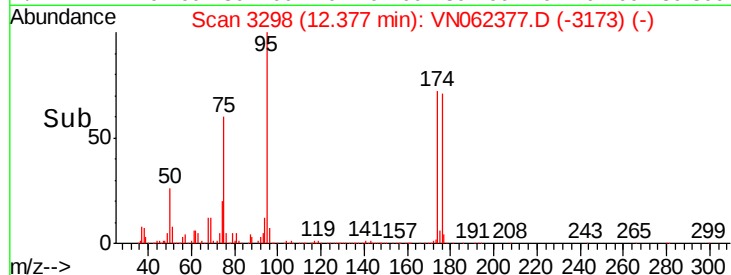
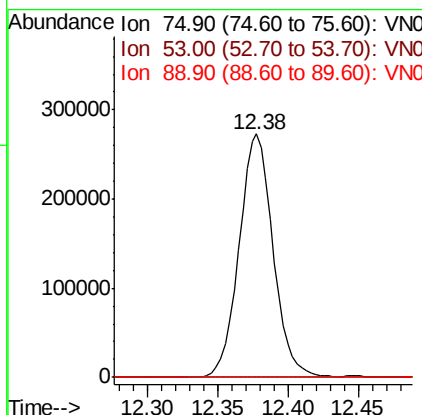
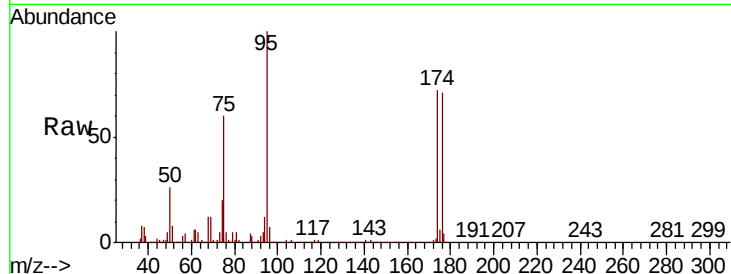




#81
trans-1,4-Dichloro-2-butene
Concen: 87.844 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062377.D
Acq: 6 Jul 2020 21:08

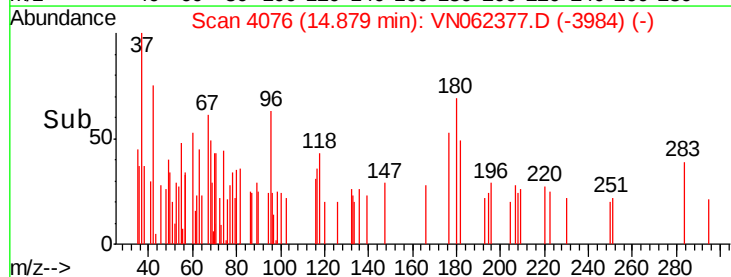
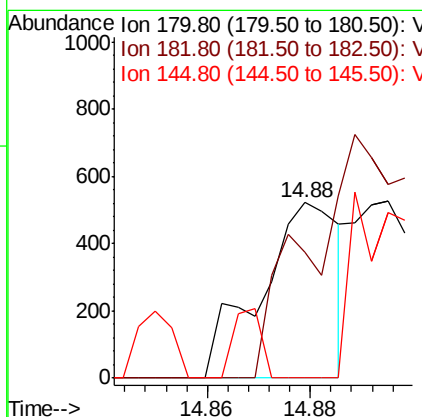
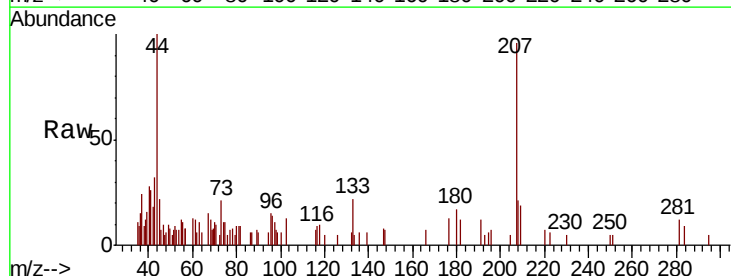
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-604-608

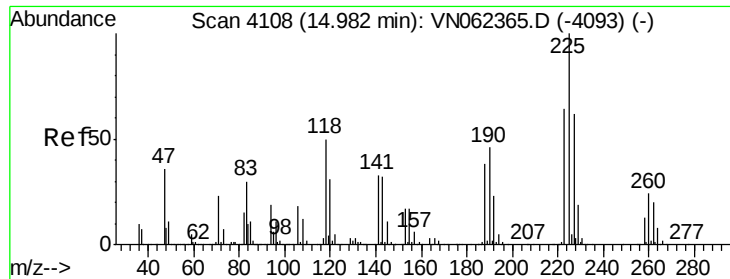
Tot Ion: 75 Resp: 457483
Ion Ratio Lower Upper
75 100
53 0.1 92.3 138.5#
89 0.1 37.0 55.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.783 ug/l
RT: 14.88 min Scan# 4076
Delta R.T. -0.00 min
Lab File: VN062377.D
Acq: 6 Jul 2020 21:08

Tgt Ion: 180 Resp: 548
Ion Ratio Lower Upper
180 100
182 0.0 47.6 142.8#
145 14.1 15.9 47.7#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 14.97 min Scan# 4103

Delta R.T. -0.02 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-604-608

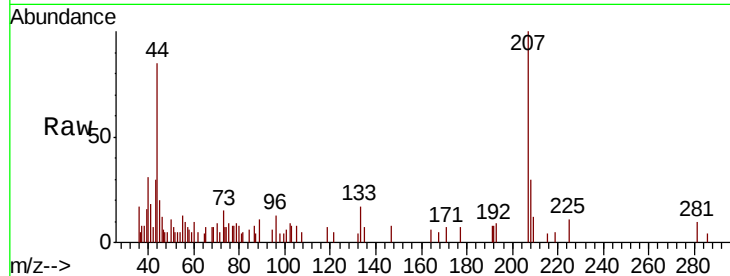
Tot Ion:225 Resp: 463

Ion Ratio Lower Upper

225 100

223 0.0 31.7 95.1#

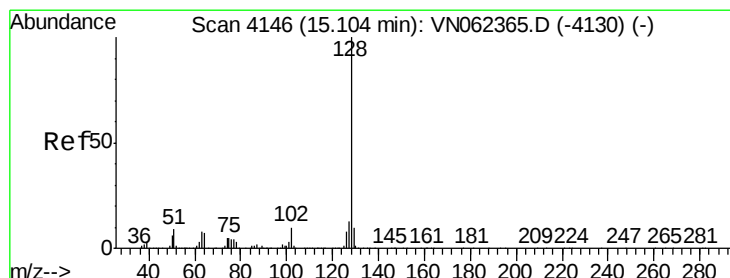
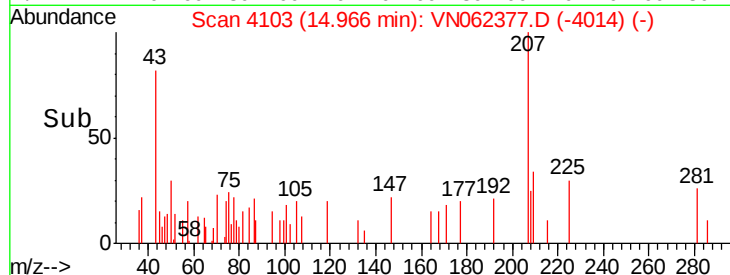
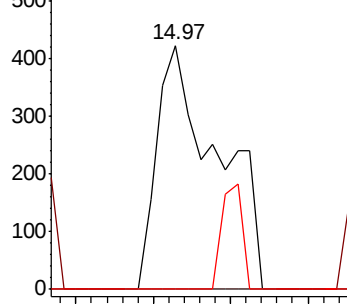
227 14.5 30.3 90.8#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.170 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062377.D

Acq: 6 Jul 2020 21:08

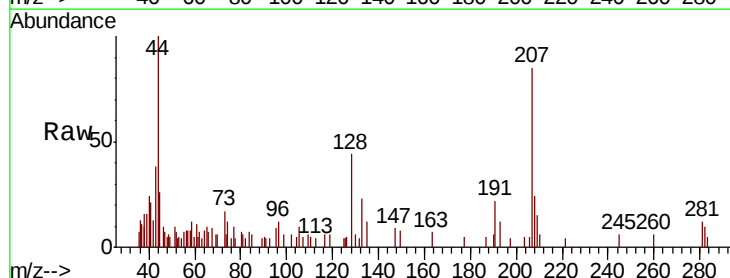
Tgt Ion:128 Resp: 2836

Ion Ratio Lower Upper

128 100

127 8.4 10.8 16.2#

129 3.5 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

