

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070620\
 Data File : VN062376.D
 Acq On : 6 Jul 2020 20:44
 Operator : JC/MD
 Sample : L3192-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-600-604

Quant Time: Jul 07 05:20:42 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

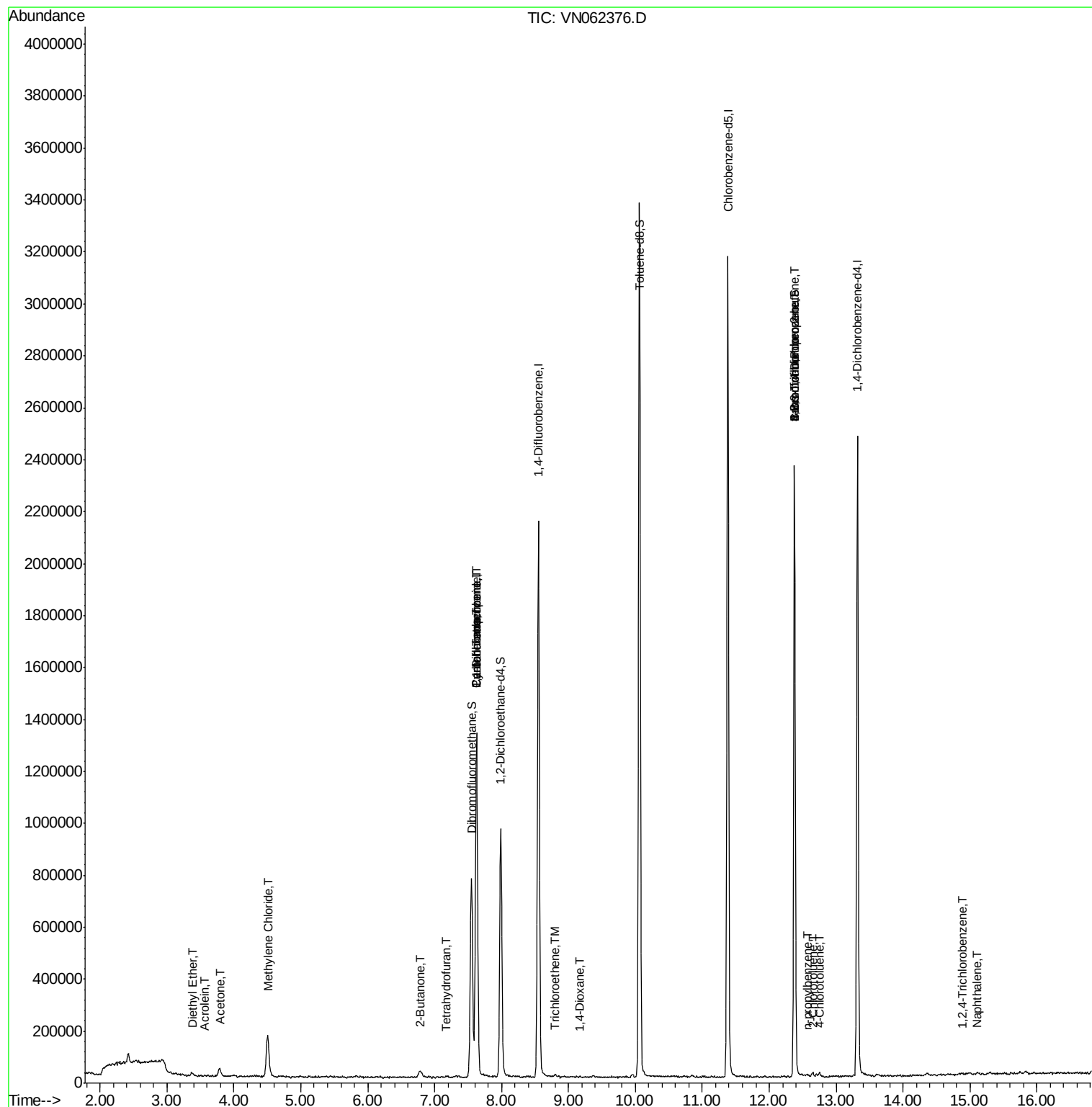
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	949086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	1708512	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	1632935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	606838	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	857635	49.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.92%	
35) Dibromofluoromethane	7.55	113	574474	49.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.58%	
50) Toluene-d8	10.06	98	2177122	49.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.94%	
62) 4-Bromofluorobenzene	12.38	95	764866	45.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.68%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.38	74	4895	0.674	ug/l	57
13) Acrolein	3.56	56	876	1.204	ug/l #	44
16) Acetone	3.78	43	53368	6.743	ug/l	97
18) Methyl Acetate	4.28	43	879	Below Cal	#	33
20) Methylene Chloride	4.50	84	98529	7.247	ug/l	94
23) Vinyl Acetate	5.85	43	632	Below Cal	#	1
25) 2-Butanone	6.80	43	7000	0.702	ug/l #	74
29) Tetrahydrofuran	7.17	42	1281	0.202	ug/l #	59
31) Cyclohexane	7.63	56	27166	1.248	ug/l #	29
36) 1,1-Dichloropropene	7.63	75	90230	5.026	ug/l #	53
38) Carbon Tetrachloride	7.63	117	105161	5.825	ug/l #	18
44) Trichloroethene	8.80	130	3005	0.246	ug/l	85
49) 1,4-Dioxane	9.17	88	251	1.017	ug/l #	1
71) Bromoform	12.38	173	6054	0.612	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	450413	30.729	ug/l #	100
78) n-propylbenzene	12.56	91	2254	0.320	ug/l	96
79) 2-Chlorotoluene	12.65	91	8202	0.252	ug/l	74
81) trans-1,4-Dichloro-2-buten	12.38	75	450413	87.876	ug/l #	4
82) 4-Chlorotoluene	12.75	91	9012	0.270	ug/l	94
93) 1,2,4-Trichlorobenzene	14.89	180	745	2.803	ug/l #	66
94) Hexachlorobutadiene	14.94	225	124	Below Cal		93
95) Naphthalene	15.11	128	6029	2.290	ug/l #	81

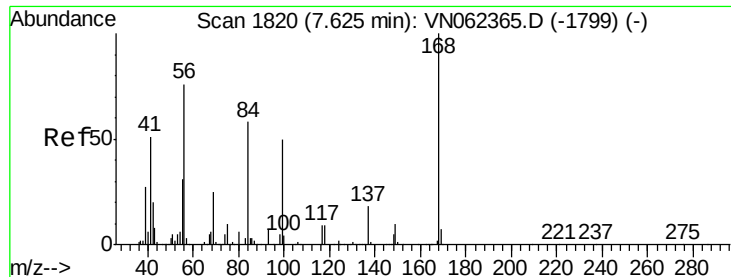
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062376.D

Acq: 6 Jul 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

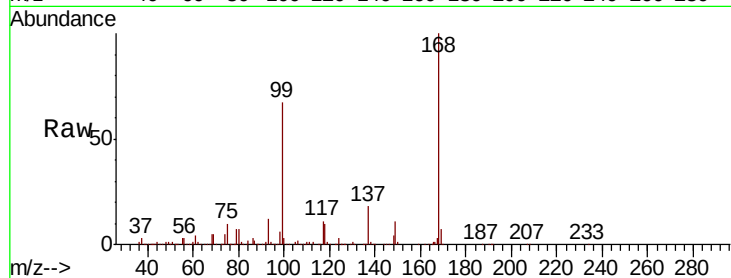
BP-MW180-SOIL-600-604

Tot Ion:168 Resp: 949086

Ion Ratio Lower Upper

168 100

99 67.3 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

400000

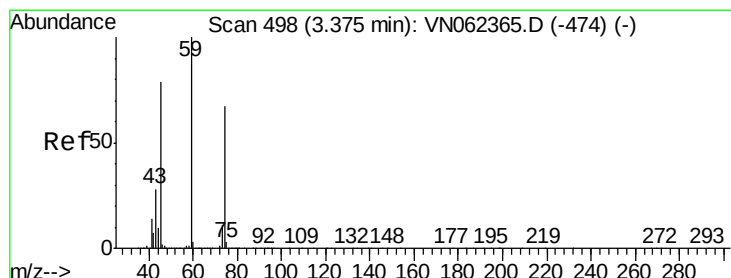
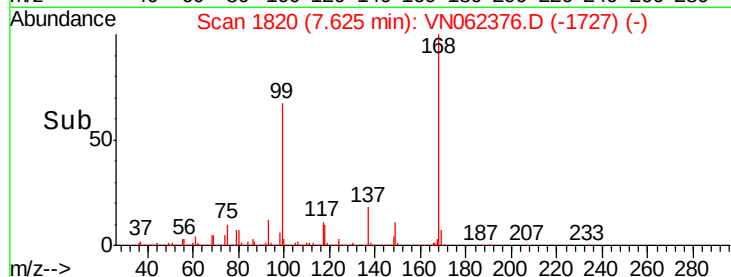
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.674 ug/l

RT: 3.38 min Scan# 501

Delta R.T. 0.01 min

Lab File: VN062376.D

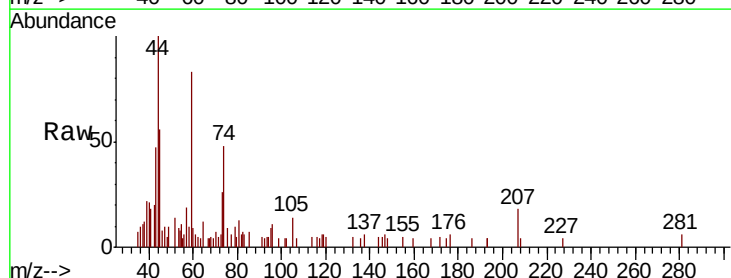
Acq: 6 Jul 2020 20:44

Tgt Ion: 74 Resp: 4895

Ion Ratio Lower Upper

74 100

45 71.8 59.9 179.7



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

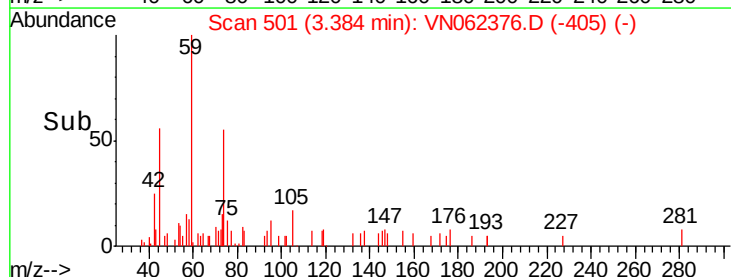
3000

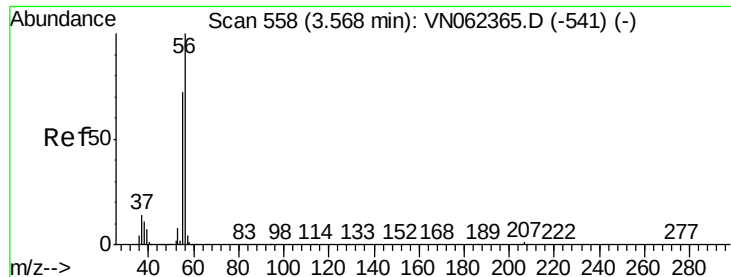
2000

1000

0

Time-->





#13

Acrolein

Concen: 1.204 ug/l

RT: 3.56 min Scan# 557

Delta R.T. -0.00 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

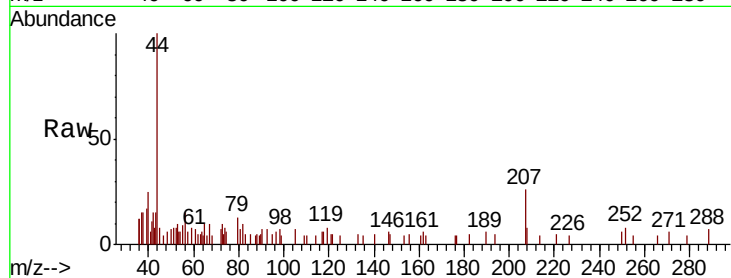
BP-MW180-SOIL-600-604

Tot Ion: 56 Resp: 876

Ion Ratio Lower Upper

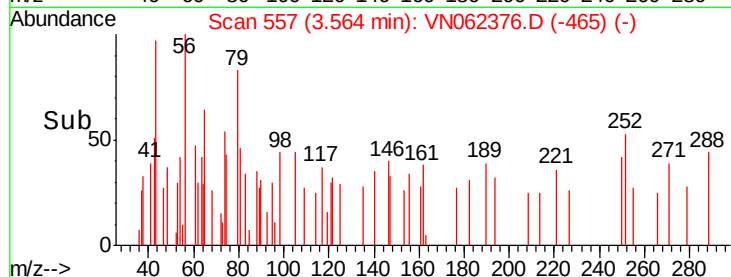
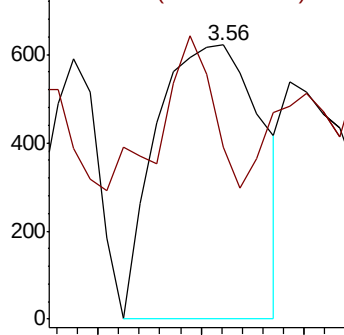
56 100

55 26.6 59.6 89.4#

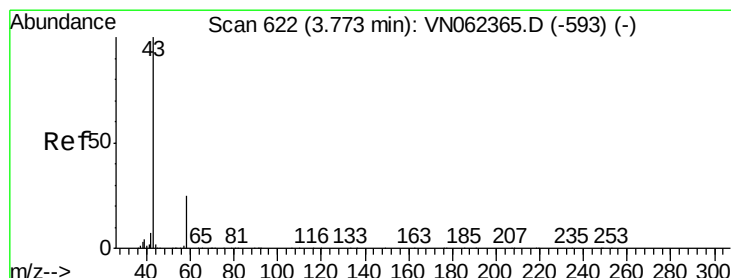


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 6.743 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062376.D

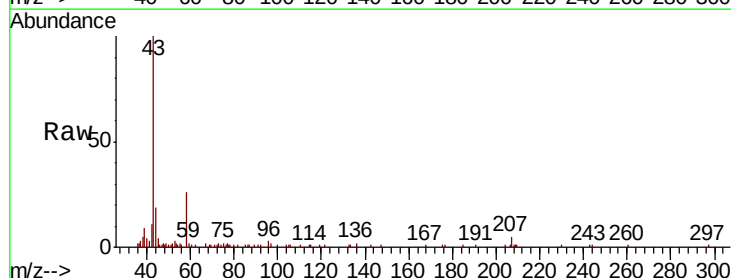
Acq: 6 Jul 2020 20:44

Tgt Ion: 43 Resp: 53368

Ion Ratio Lower Upper

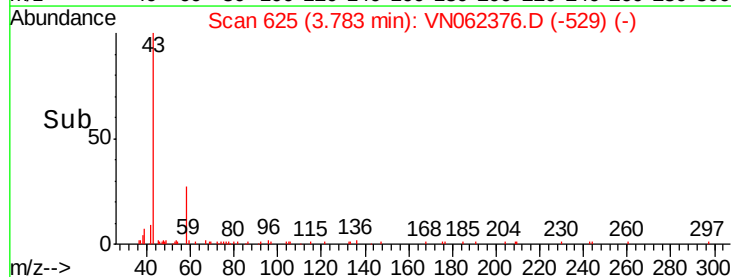
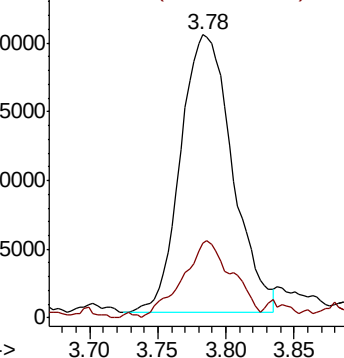
43 100

58 26.1 19.8 29.8

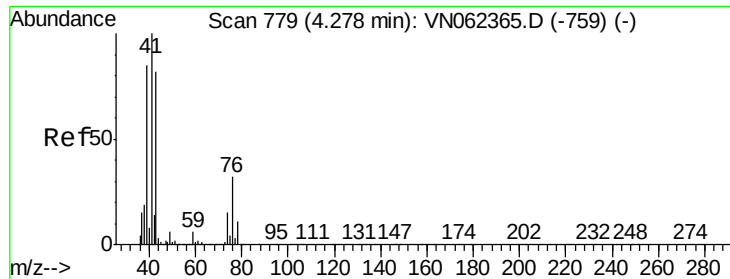


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



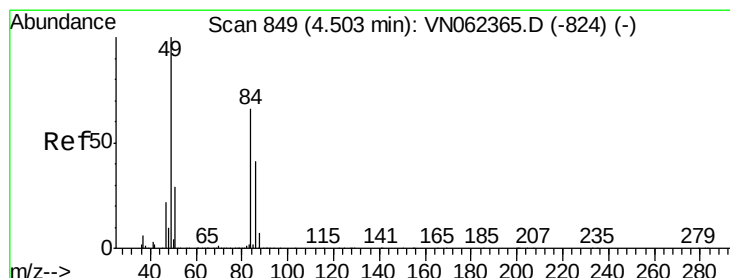
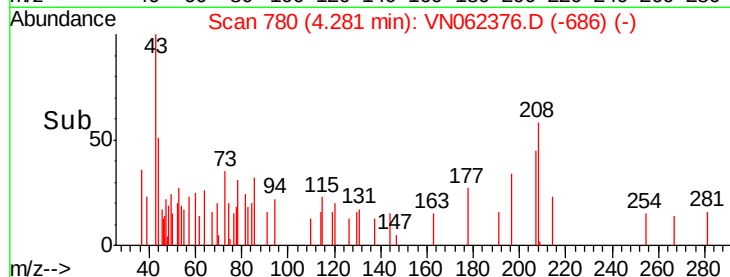
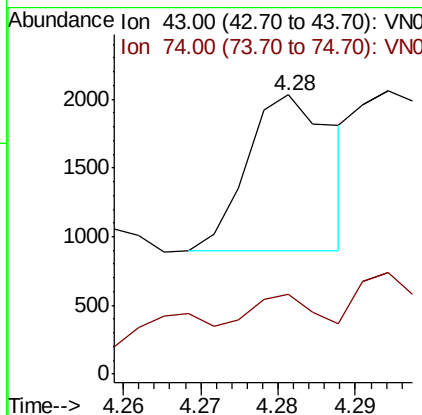
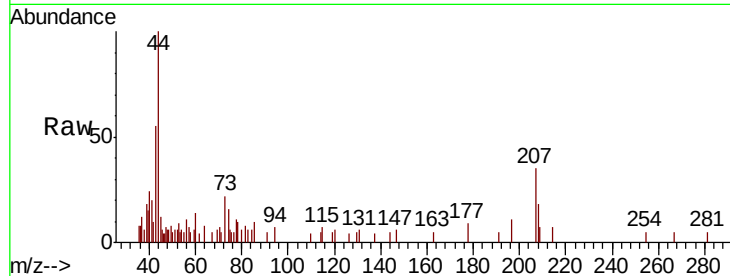
Time-->



#18
Methvl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 780
Delta R.T. 0.00 min
Lab File: VN062376.D
Acq: 6 Jul 2020 20:44

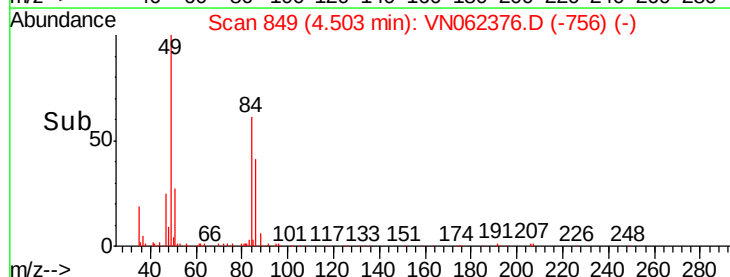
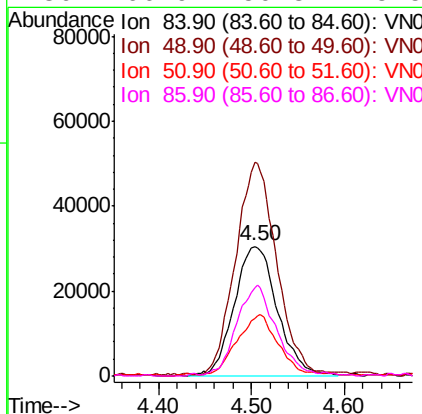
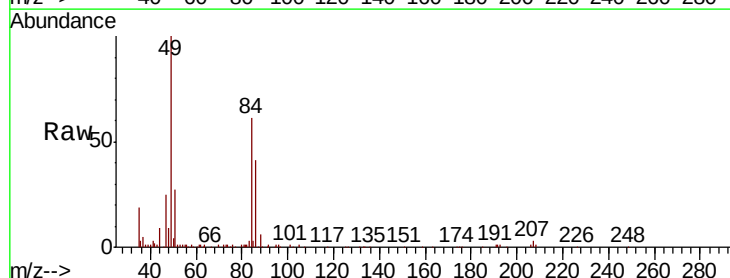
Instrument :
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BP-MW180-SOIL-600-604

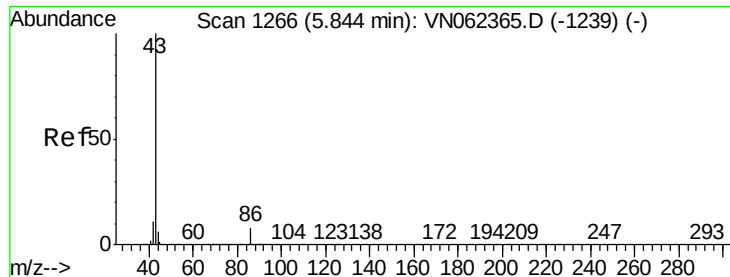
Tot Ion: 43 Resp: 879
Ion Ratio Lower Upper
43 100
74 47.4 14.2 21.4#



#20
Methylene Chloride
Concen: 7.247 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062376.D
Acq: 6 Jul 2020 20:44

Tgt Ion: 84 Resp: 98529
Ion Ratio Lower Upper
84 100
49 163.0 121.8 182.6
51 43.3 35.0 52.4
86 66.9 50.3 75.5

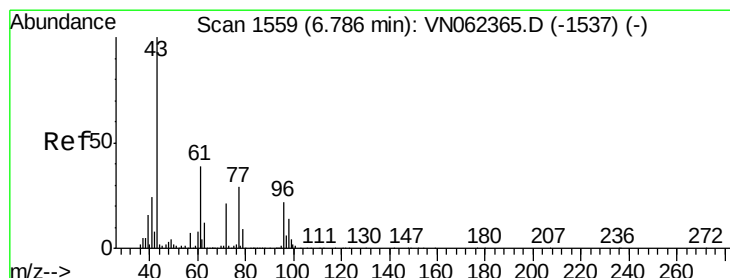
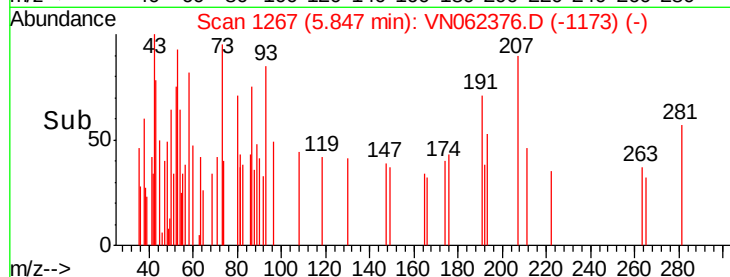
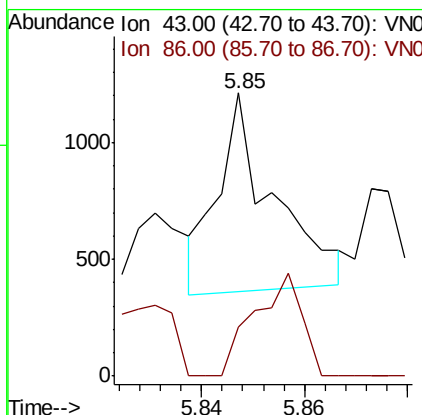
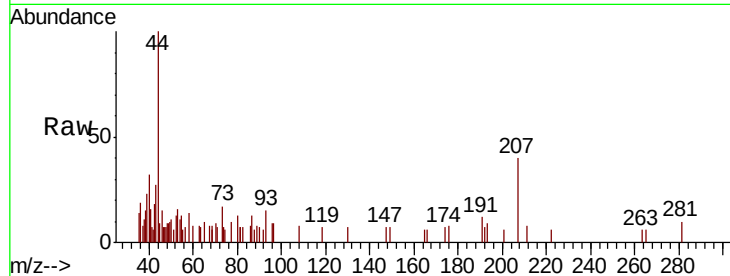




#23
 Vinyl Acetate
 Concen: Below Cal
 RT: 5.85 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VN062376.D
 Acq: 6 Jul 2020 20:44

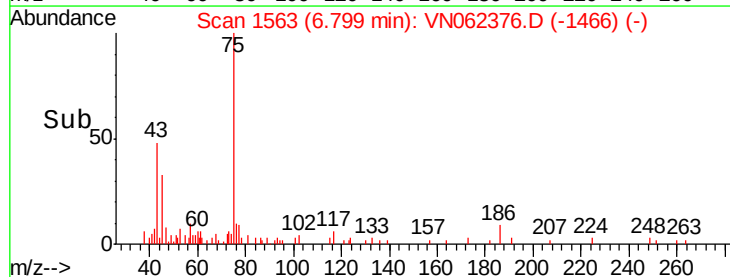
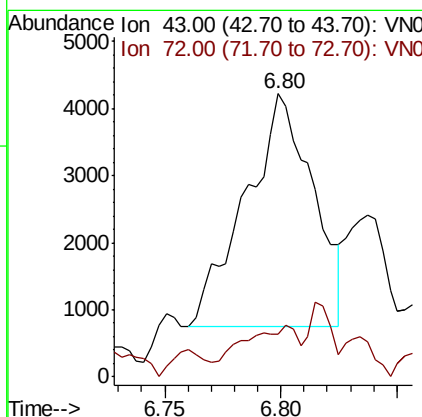
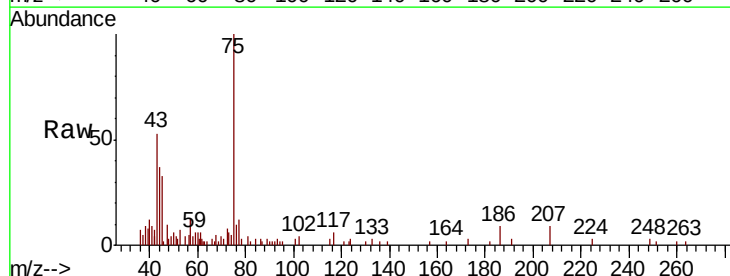
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-600-604

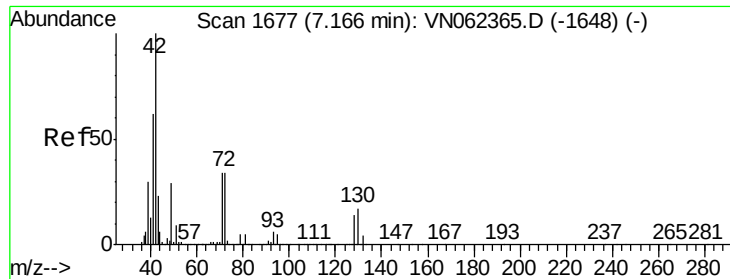
Tot Ion: 43 Resp: 632
 Ion Ratio Lower Upper
 43 100
 86 84.3 6.6 9.8#



#25
 2-Butanone
 Concen: 0.702 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. 0.01 min
 Lab File: VN062376.D
 Acq: 6 Jul 2020 20:44

Tgt Ion: 43 Resp: 7000
 Ion Ratio Lower Upper
 43 100
 72 8.5 16.4 24.6#





#29

Tetrahydrofuran

Concen: 0.202 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-600-604

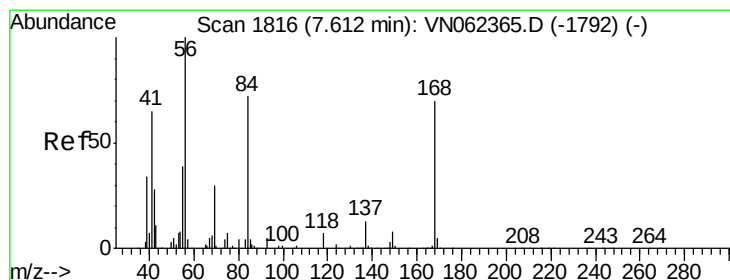
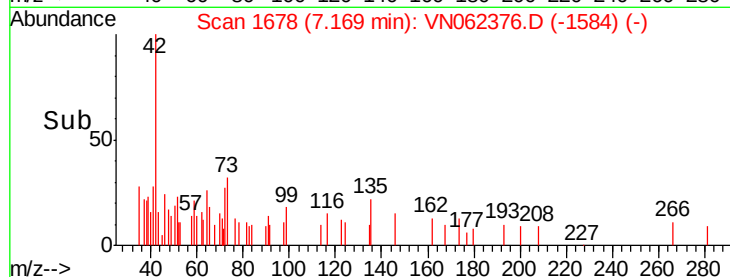
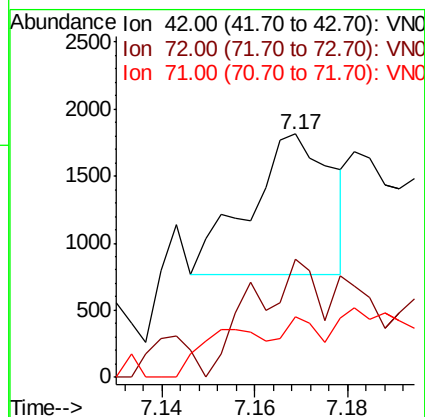
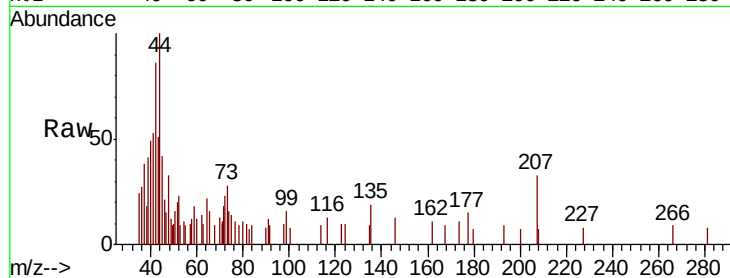
Tot Ion: 42 Resp: 1281

Ion Ratio Lower Upper

42 100

72 68.1 26.8 40.2#

71 21.0 26.0 39.0#



#31

Cyclohexane

Concen: 1.248 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

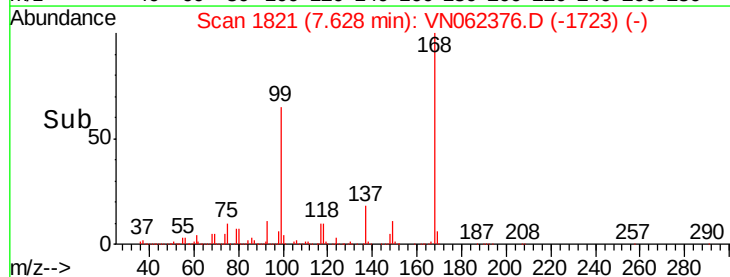
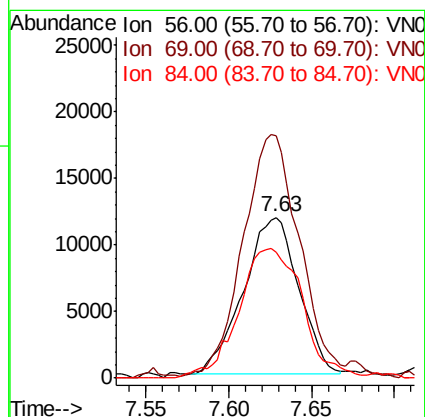
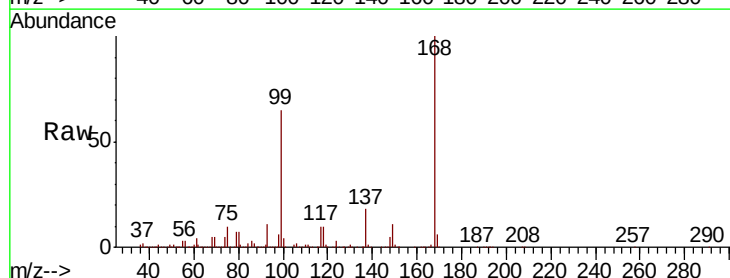
Tgt Ion: 56 Resp: 27166

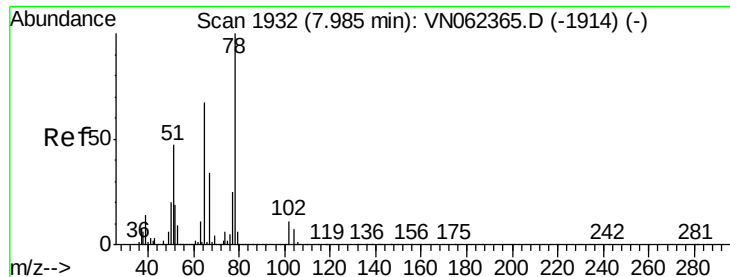
Ion Ratio Lower Upper

56 100

69 151.7 23.7 35.5#

84 76.8 57.2 85.8

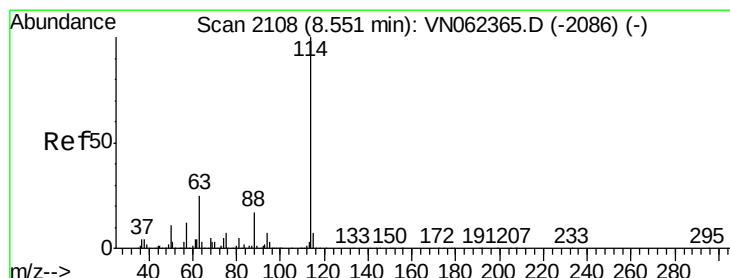
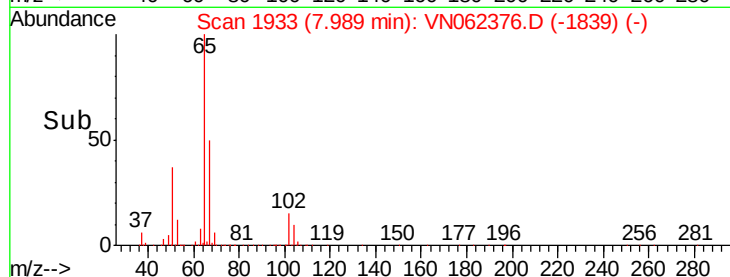
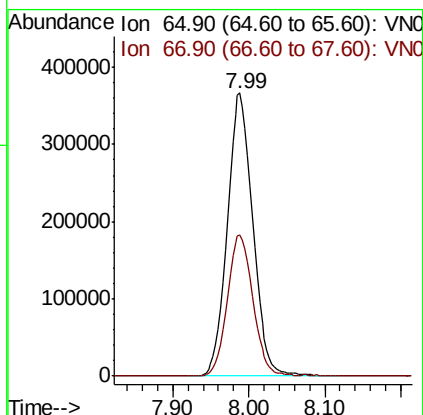
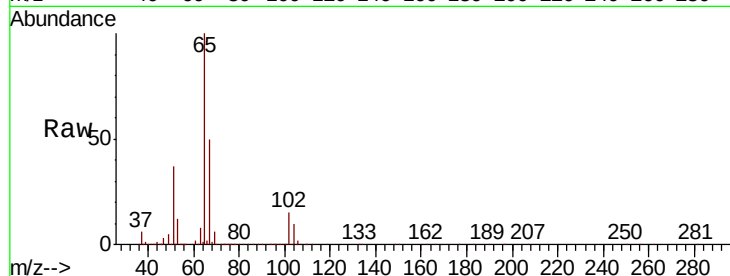




#33
 1,2-Dichloroethane-d4
 Concen: 49.956 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062376.D
 Acq: 6 Jul 2020 20:44

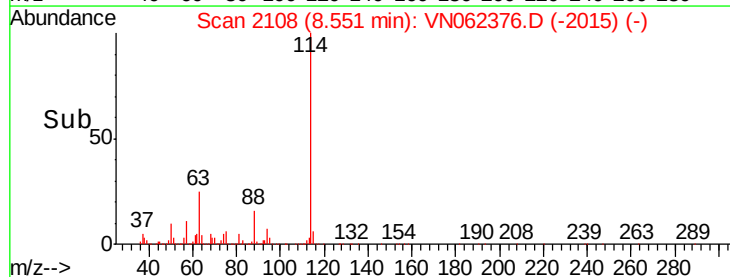
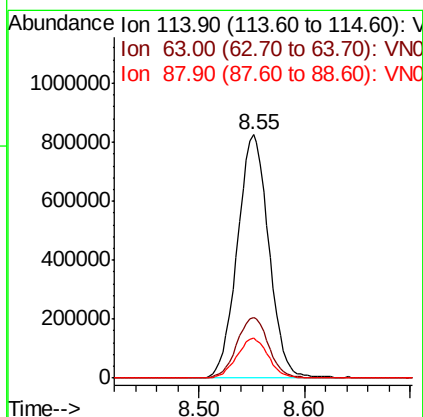
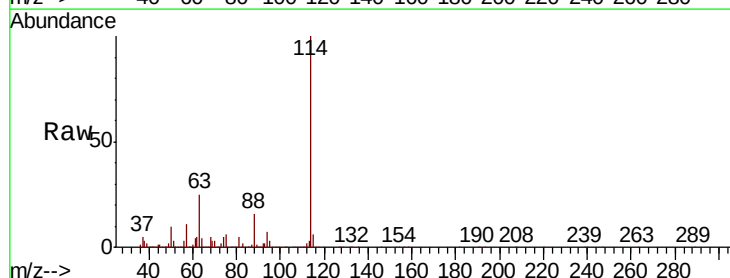
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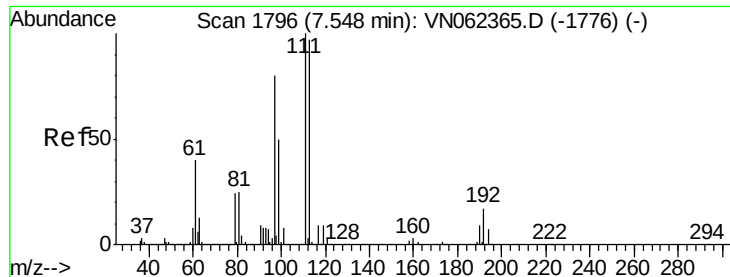
Tot Ion: 65 Resp: 857635
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 101.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062376.D
 Acq: 6 Jul 2020 20:44

Tgt Ion: 114 Resp: 1708512
 Ion Ratio Lower Upper
 114 100
 63 25.0 0.0 49.0
 88 16.2 0.0 34.0

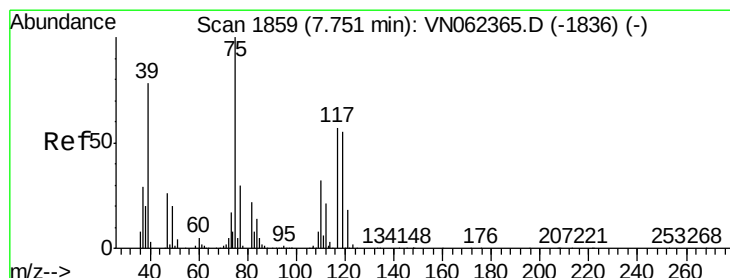
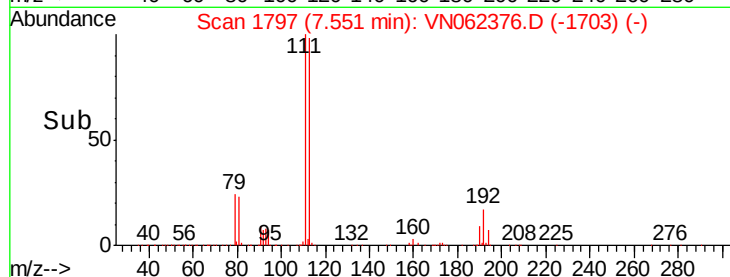
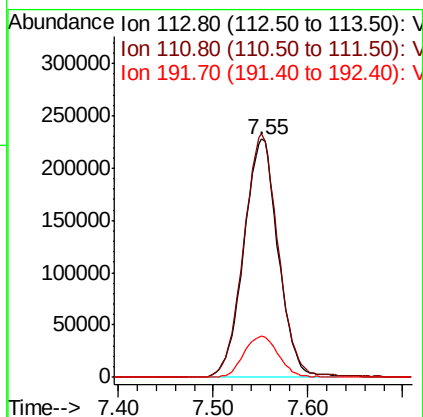
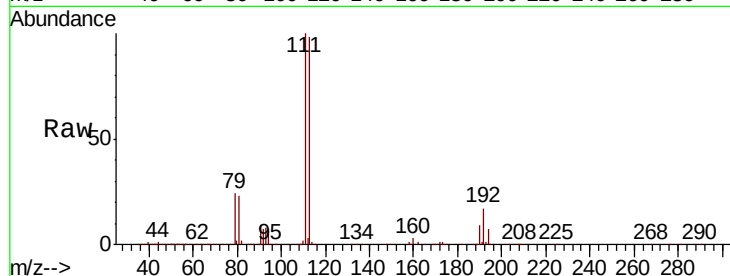




#35
 Dibromofluoromethane
 Concen: 49.288 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062376.D
 Acq: 6 Jul 2020 20:44

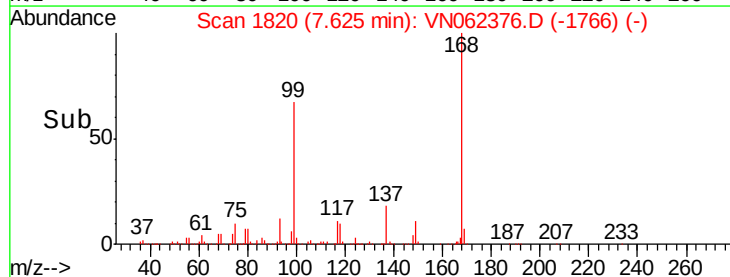
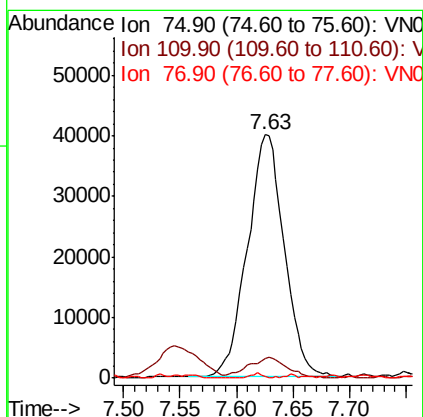
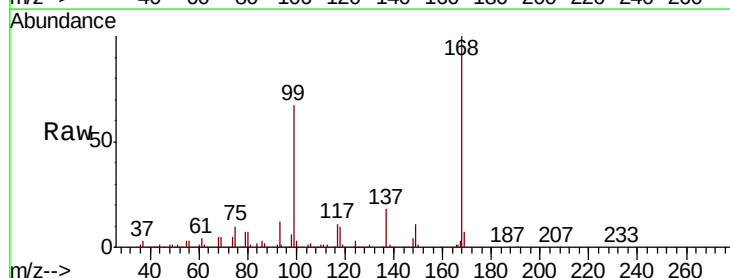
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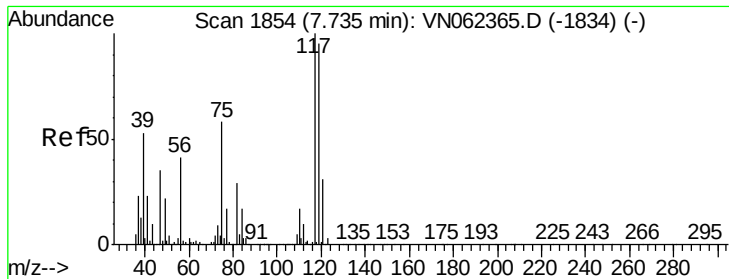
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.2	124.8
192	17.5	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 5.026 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062376.D
 Acq: 6 Jul 2020 20:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	15.7	47.1#
77	0.6	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 5.825 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-600-604

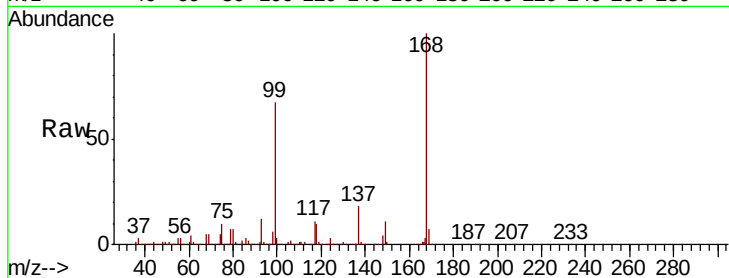
Tot Ion:117 Resp: 105161

Ion Ratio Lower Upper

117 100

119 6.8 75.9 113.9#

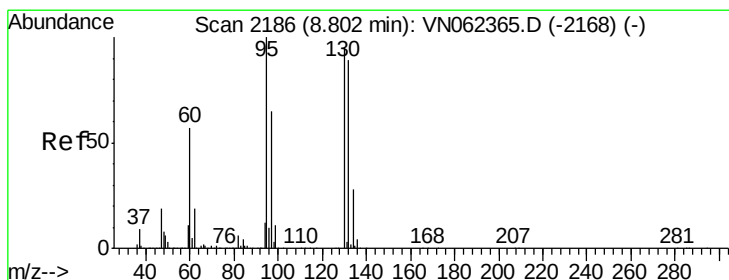
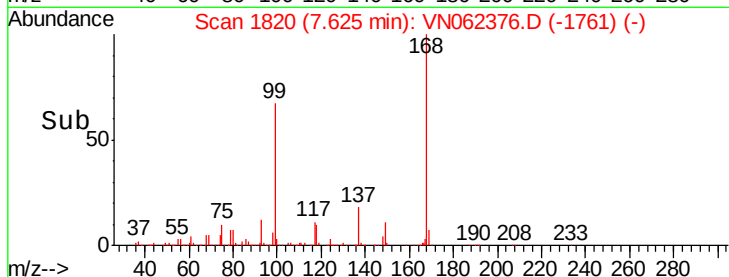
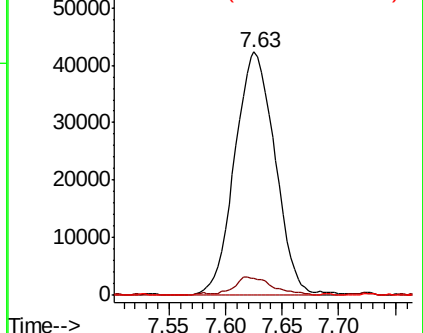
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 0.246 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN062376.D

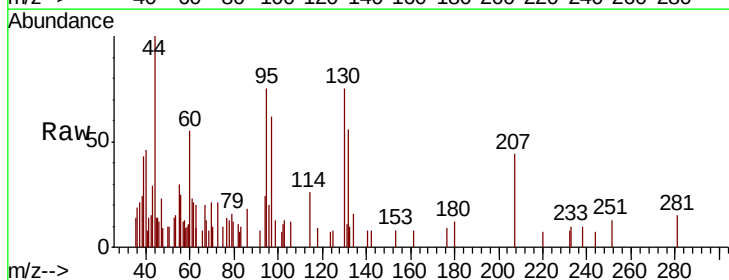
Acq: 6 Jul 2020 20:44

Tgt Ion:130 Resp: 3005

Ion Ratio Lower Upper

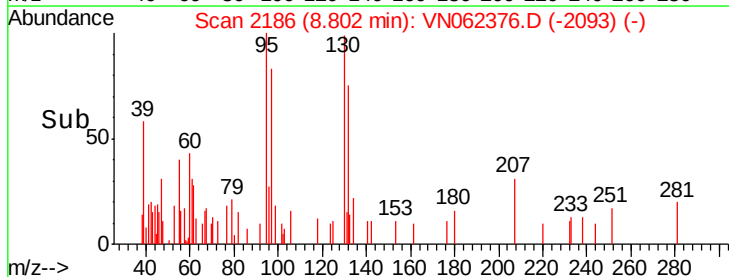
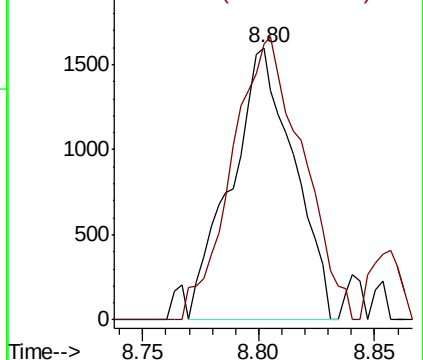
130 100

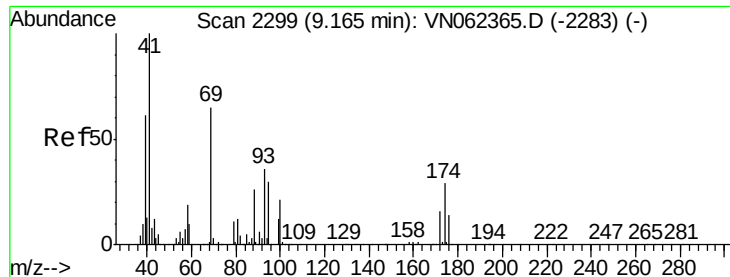
95 89.1 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

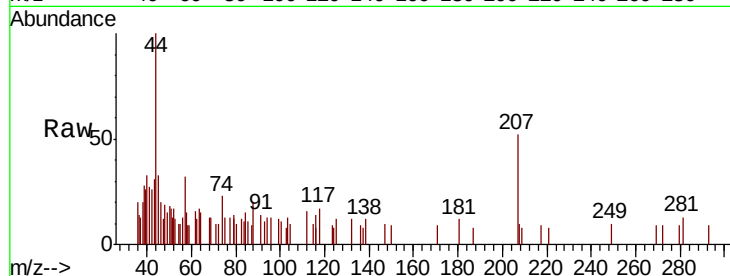




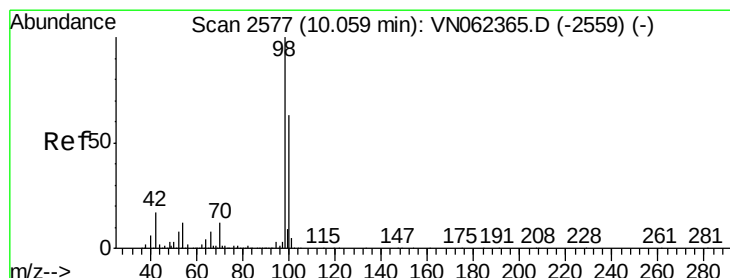
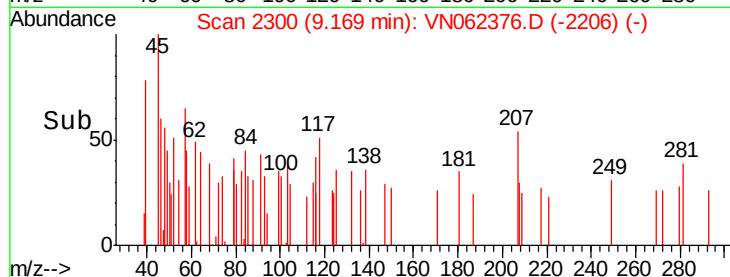
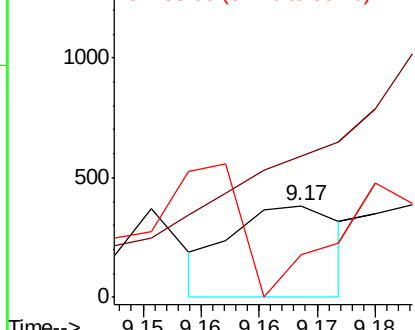
#49
1,4-Dioxane
Concen: 1.017 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VN062376.D
Acq: 6 Jul 2020 20:44

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-600-604

Tot Ion: 88 Resp: 251
Ion Ratio Lower Upper
88 100
43 411.6 34.0 51.0#
58 115.1 63.0 94.4#

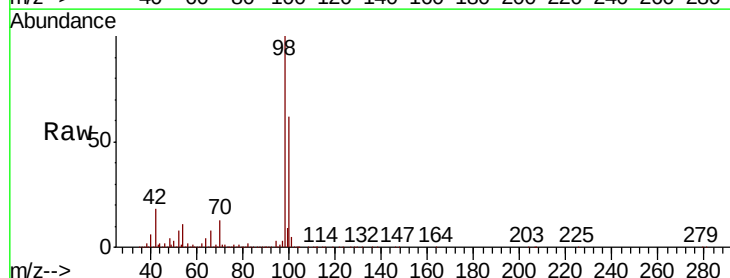


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

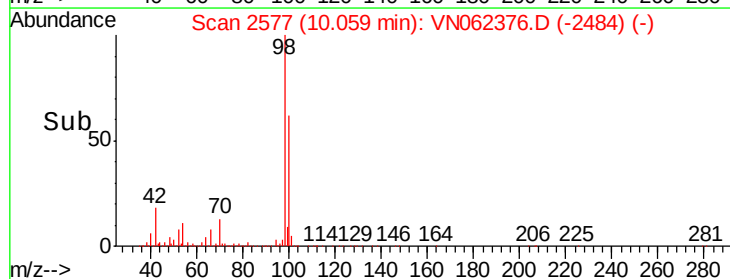
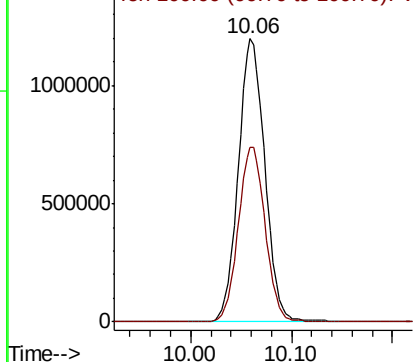


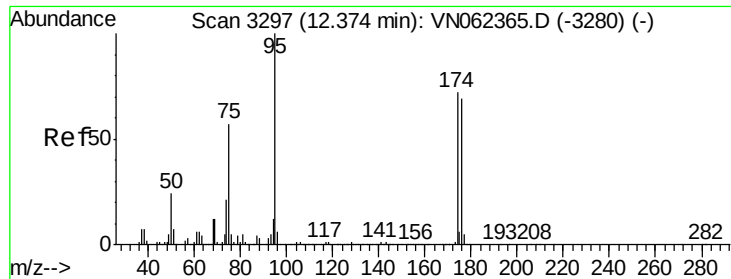
#50
Toluene-d8
Concen: 49.968 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062376.D
Acq: 6 Jul 2020 20:44

Tgt Ion: 98 Resp: 2177122
Ion Ratio Lower Upper
98 100
100 62.4 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.836 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-600-604

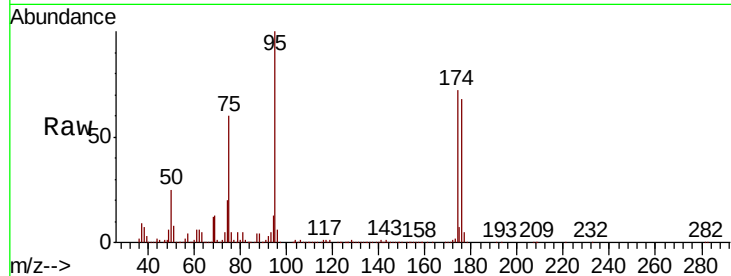
Tot Ion: 95 Resp: 764866

Ion Ratio Lower Upper

95 100

174 71.8 0.0 145.8

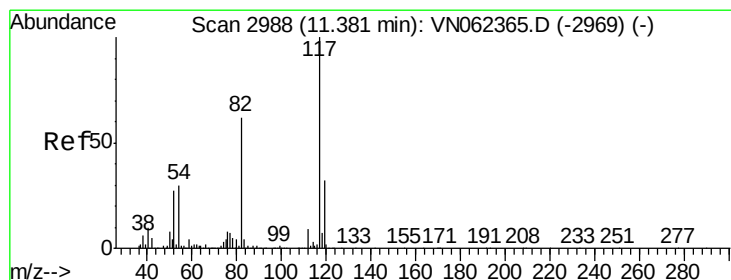
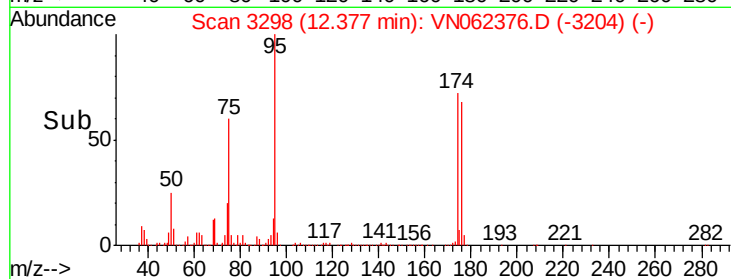
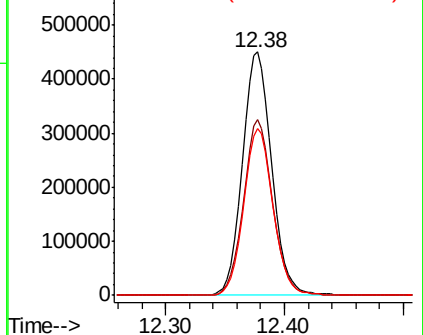
176 68.7 0.0 140.2



Abundance Ion 94.90 (94.60 to 95.60): VN062365.D (-3280) (-)

Ion 173.80 (173.50 to 174.50): VN062365.D (-3280) (-)

Ion 175.80 (175.50 to 176.50): VN062365.D (-3280) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

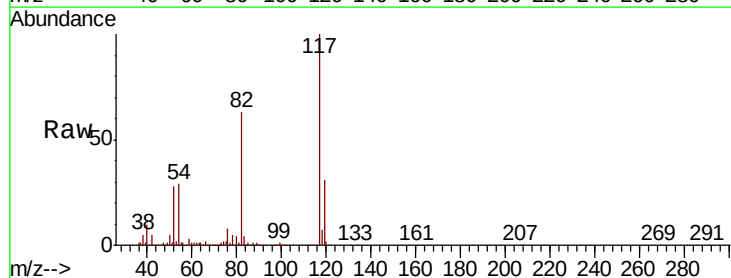
Tgt Ion: 117 Resp: 1632935

Ion Ratio Lower Upper

117 100

82 62.6 49.4 74.2

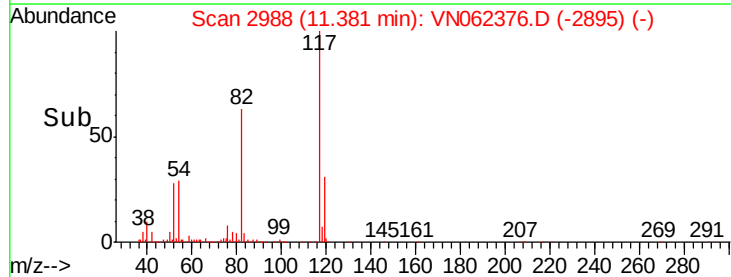
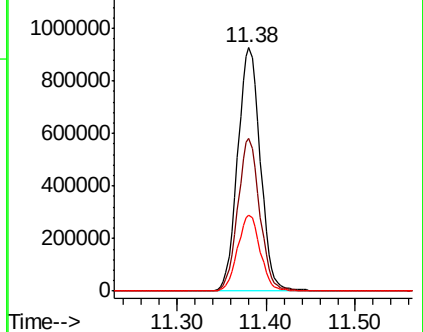
119 31.3 25.6 38.4

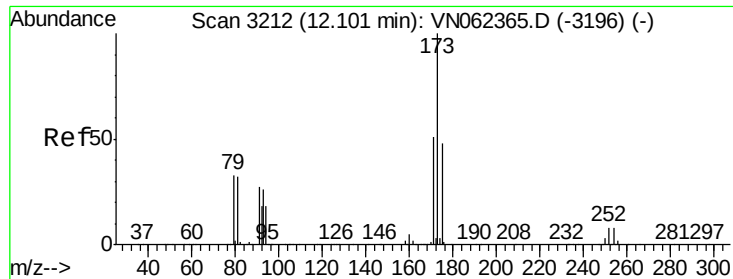


Abundance Ion 116.90 (116.60 to 117.60): VN062365.D (-2969) (-)

Ion 82.00 (81.70 to 82.70): VN062365.D (-2969) (-)

Ion 118.90 (118.60 to 119.60): VN062365.D (-2969) (-)





#71

Bromoform

Concen: 0.612 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-600-604

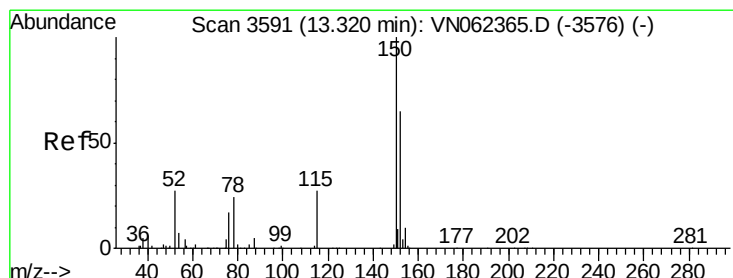
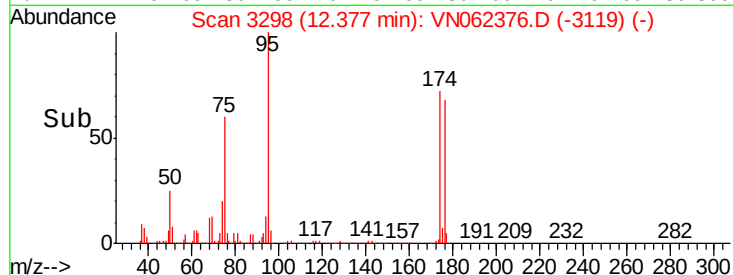
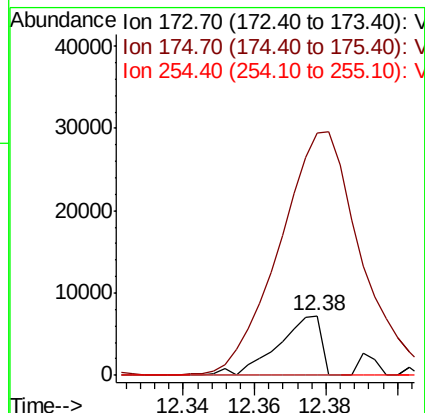
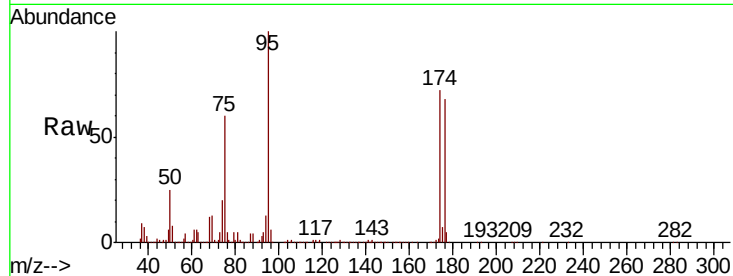
Tot Ion:173 Resp: 6054

Ion Ratio Lower Upper

173 100

175 641.6 24.1 72.2#

254 0.0 0.2 0.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

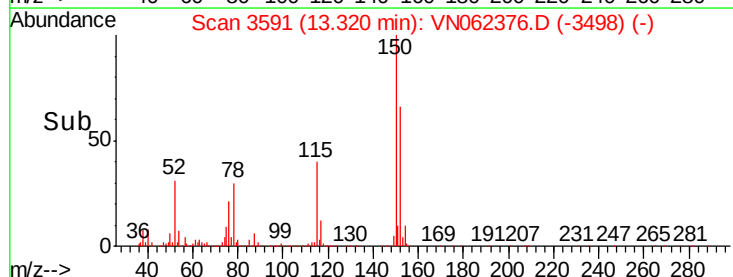
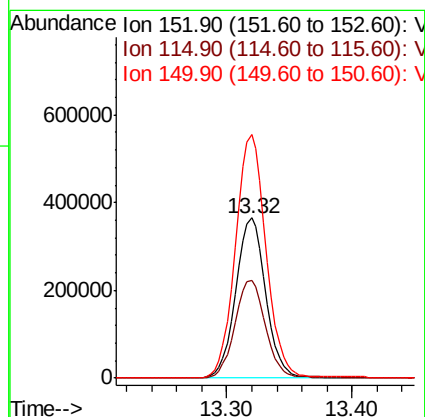
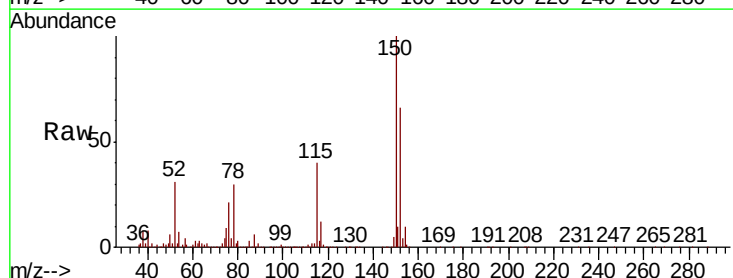
Tgt Ion:152 Resp: 606838

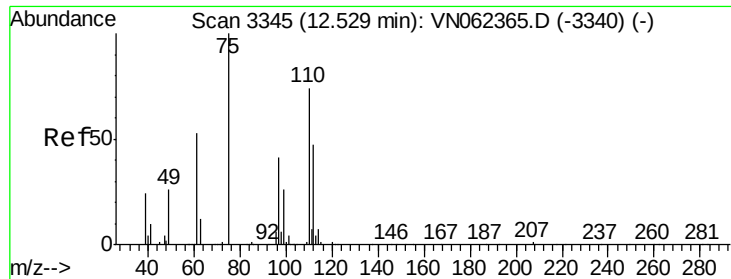
Ion Ratio Lower Upper

152 100

115 62.0 30.5 91.5

150 155.2 0.0 346.8

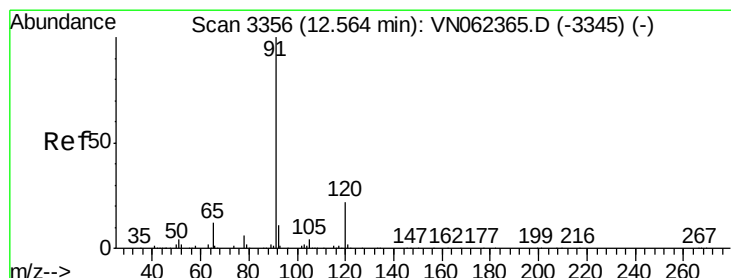
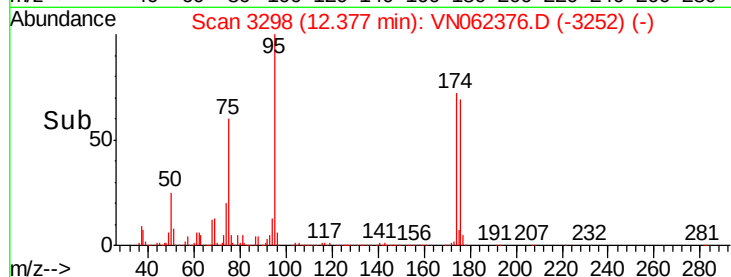
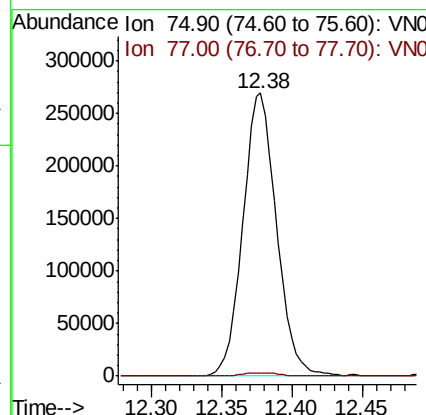
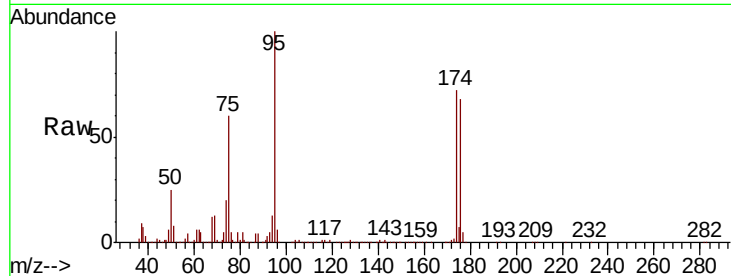




#76
 1,2,3-Trichloropropane
 Concen: 30.729 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062376.D
 Acq: 6 Jul 2020 20:44

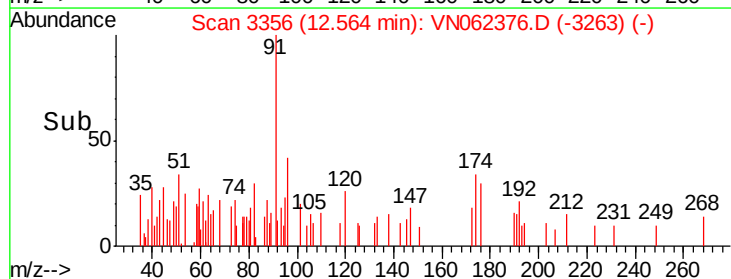
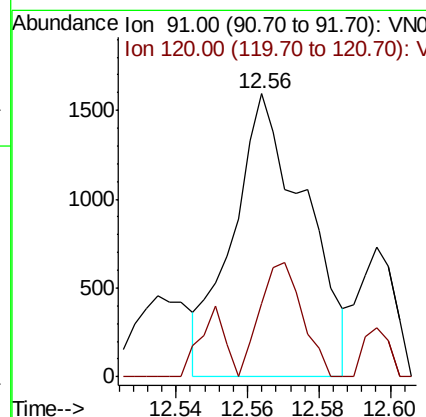
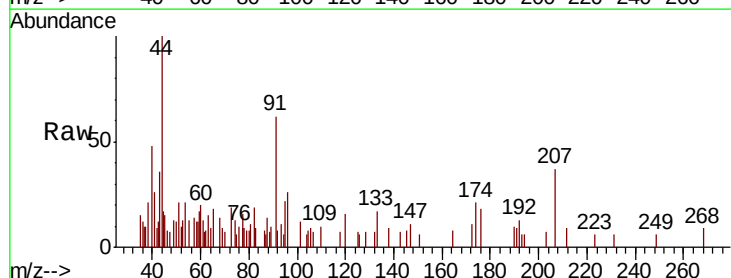
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-600-604

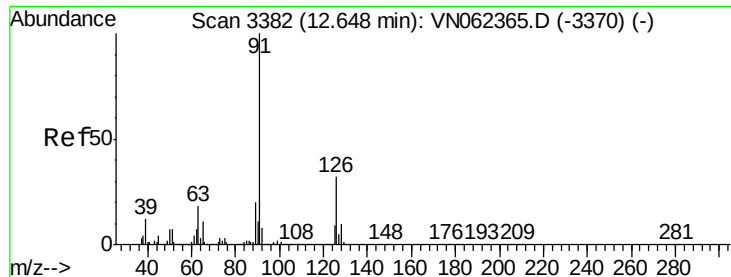
Tot Ion: 75 Resp: 450413
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#78
 n-propylbenzene
 Concen: 0.320 ug/l
 RT: 12.56 min Scan# 3356
 Delta R.T. -0.00 min
 Lab File: VN062376.D
 Acq: 6 Jul 2020 20:44

Tgt Ion: 91 Resp: 2254
 Ion Ratio Lower Upper
 91 100
 120 23.5 10.9 32.6





#79

2-Chlorotoluene

Concen: 0.252 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. 0.00 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

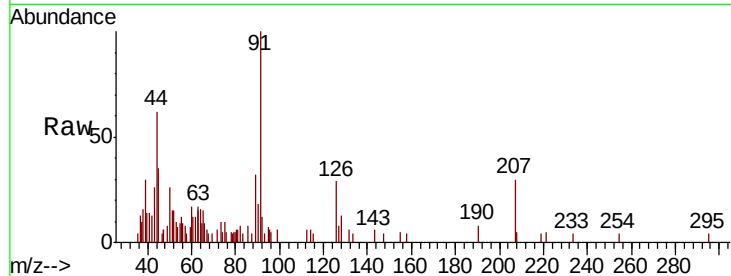
BP-MW180-SOIL-600-604

Tot Ion: 91 Resp: 8202

Ion Ratio Lower Upper

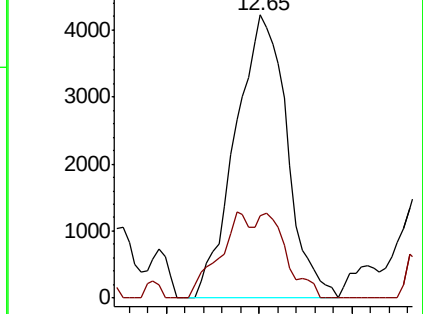
91 100

126 17.3 15.8 47.4

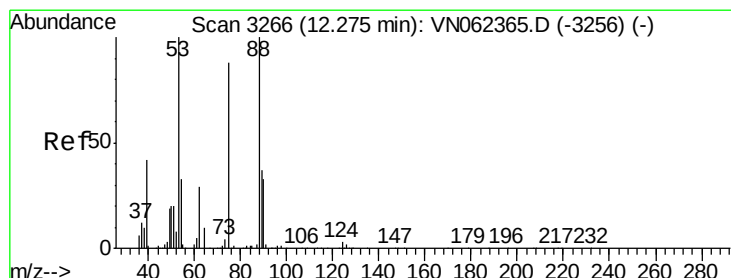
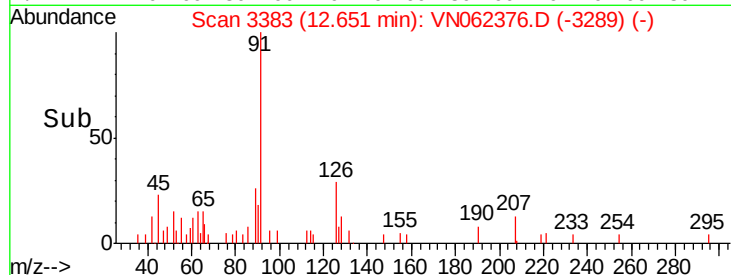


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 87.876 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

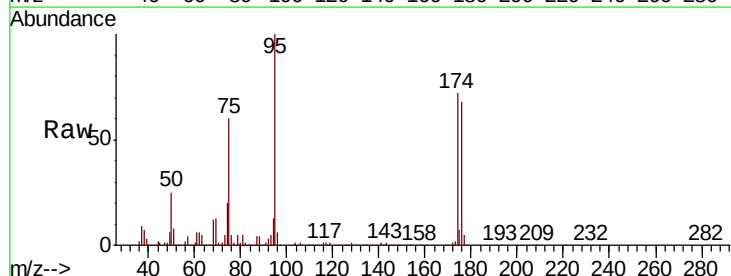
Tgt Ion: 75 Resp: 450413

Ion Ratio Lower Upper

75 100

53 0.2 92.3 138.5#

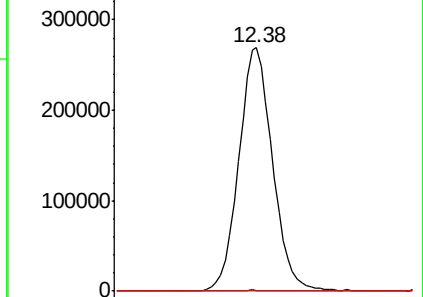
89 0.1 37.0 55.4#



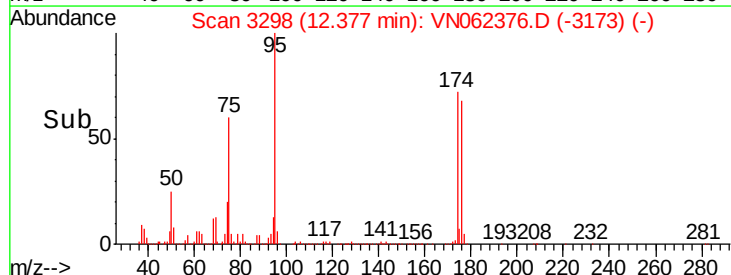
Abundance Ion 74.90 (74.60 to 75.60): VN0

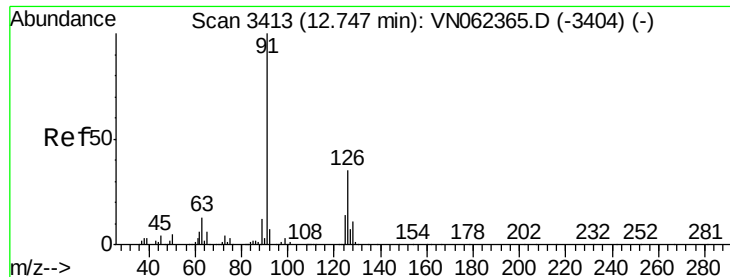
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->





#82

4-Chlorotoluene

Concen: 0.270 ug/l

RT: 12.75 min Scan# 3413

Delta R.T. -0.00 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

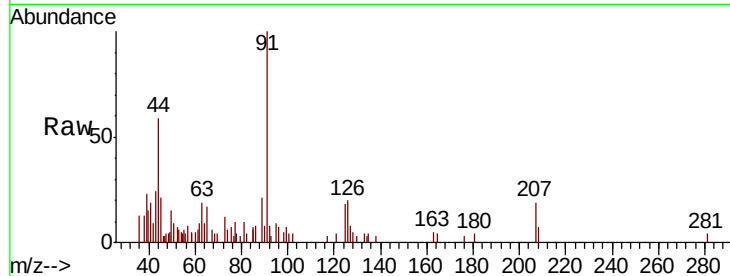
BP-MW180-SOIL-600-604

Tot Ion: 91 Resp: 9012

Ion Ratio Lower Upper

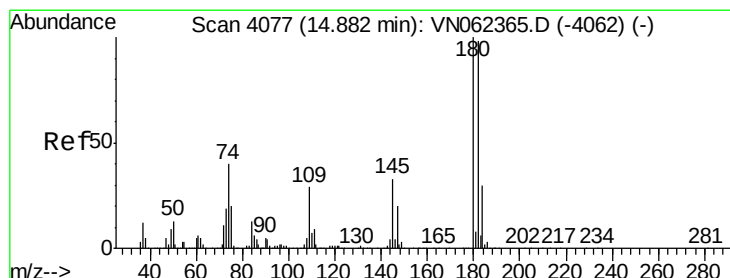
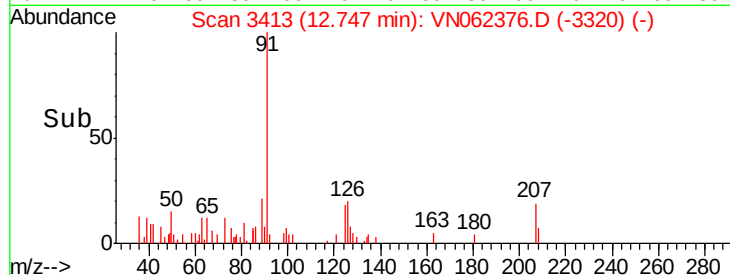
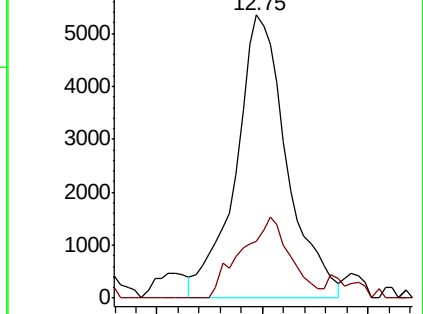
91 100

126 27.6 15.6 46.7



Abundance Ion 91.00 (90.70 to 91.70): VN062365.D (-3404) (-)

Ion 125.90 (125.60 to 126.60): VN062365.D (-3404) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.803 ug/l

RT: 14.89 min Scan# 4079

Delta R.T. 0.01 min

Lab File: VN062376.D

Acq: 6 Jul 2020 20:44

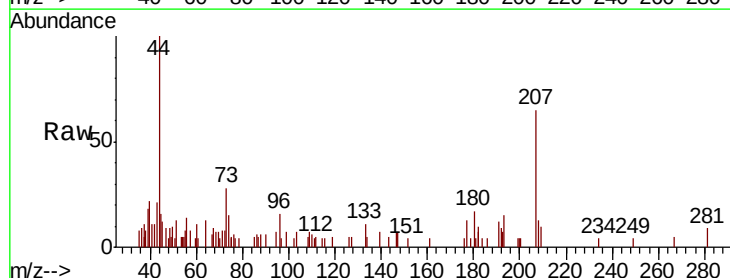
Tgt Ion: 180 Resp: 745

Ion Ratio Lower Upper

180 100

182 120.1 47.6 142.8

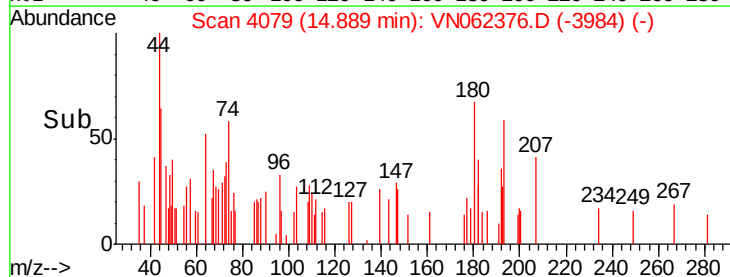
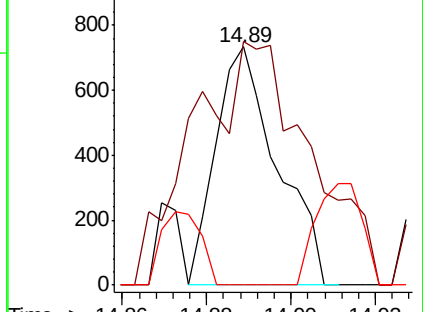
145 0.0 15.9 47.7#

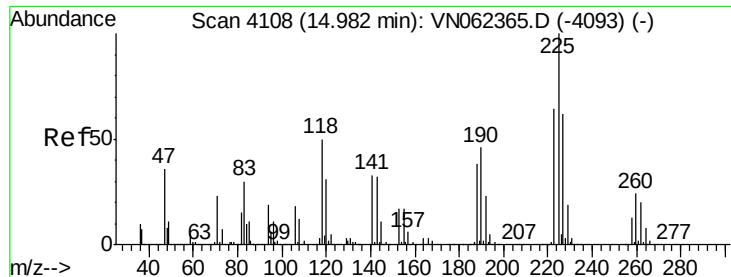


Abundance Ion 179.80 (179.50 to 180.50): VN062365.D (-4062) (-)

Ion 181.80 (181.50 to 182.50): VN062365.D (-4062) (-)

Ion 144.80 (144.50 to 145.50): VN062365.D (-4062) (-)

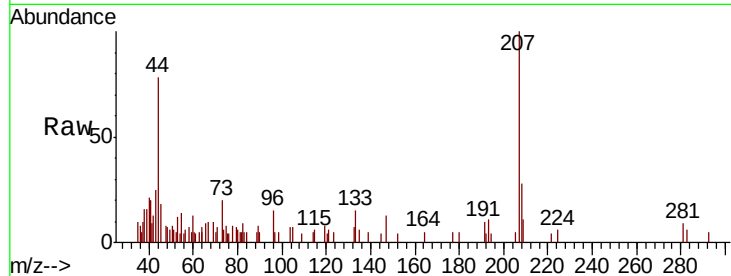




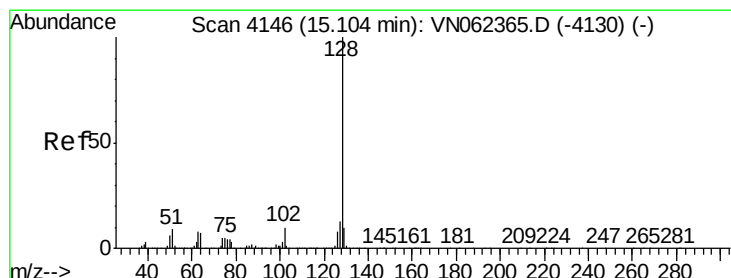
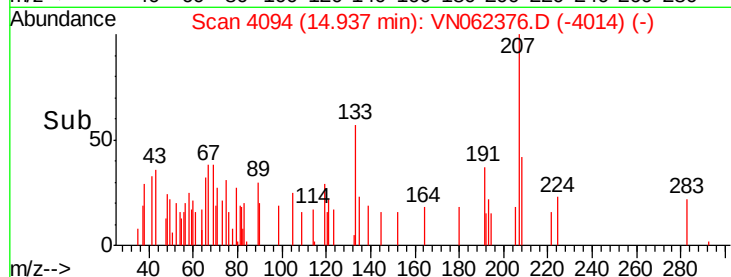
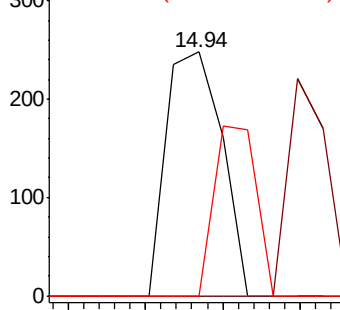
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 14.94 min Scan# 4094
Delta R.T. -0.04 min
Lab File: VN062376.D
Acq: 6 Jul 2020 20:44

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-600-604

Tot Ion:225 Resp: 124
Ion Ratio Lower Upper
225 100
223 60.5 31.7 95.1
227 53.2 30.3 90.8

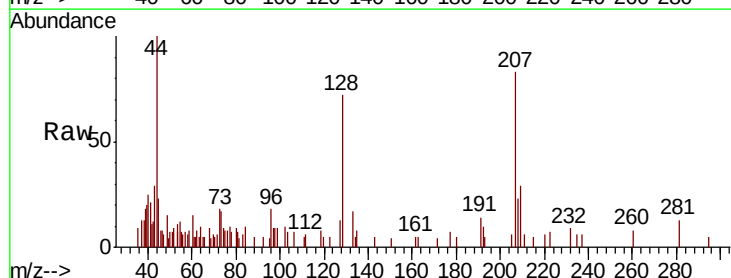


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95
Naphthalene
Concen: 2.290 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN062376.D
Acq: 6 Jul 2020 20:44

Tgt Ion:128 Resp: 6029
Ion Ratio Lower Upper
128 100
127 7.1 10.8 16.2#
129 1.7 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

