

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062215.D
 Acq On : 30 Jun 2020 3:23
 Operator : JC/MD
 Sample : L3136-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-574-578

Quant Time: Jun 30 04:34:04 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	211958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	407166	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	393593	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	141166	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	161869	54.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.84%	
35) Dibromofluoromethane	7.55	113	132348	50.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.34%	
50) Toluene-d8	10.06	98	518709	49.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	12.38	95	167251	47.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.82%	

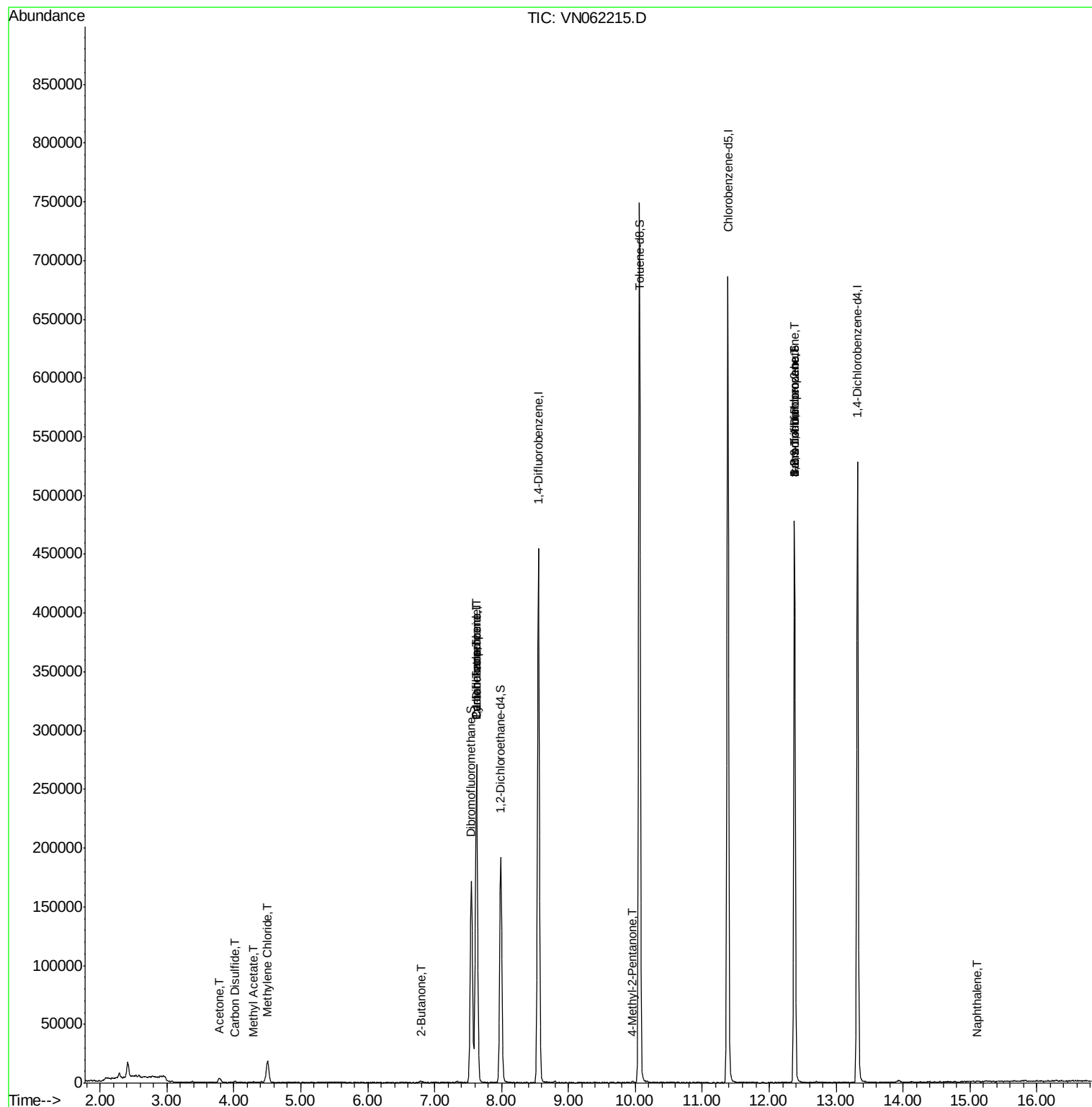
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	349	Below Cal	#	41
16) Acetone	3.78	43	6808	3.294	ug/l #	87
17) Carbon Disulfide	4.01	76	1114	0.210	ug/l #	75
18) Methyl Acetate	4.29	43	538	0.228	ug/l #	46
20) Methylene Chloride	4.51	84	13549	4.766	ug/l	97
25) 2-Butanone	6.79	43	622	0.428	ug/l #	44
31) Cyclohexane	7.63	56	5356	1.303	ug/l #	16
36) 1,1-Dichloropropene	7.62	75	18076	4.417	ug/l #	48
38) Carbon Tetrachloride	7.63	117	21093	5.467	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	1220	0.378	ug/l #	62
71) Bromoform	12.38	173	1319	0.621	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	85767	25.809	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	85767	75.372	ug/l #	13
95) Naphthalene	15.11	128	230	4.026	ug/l #	69

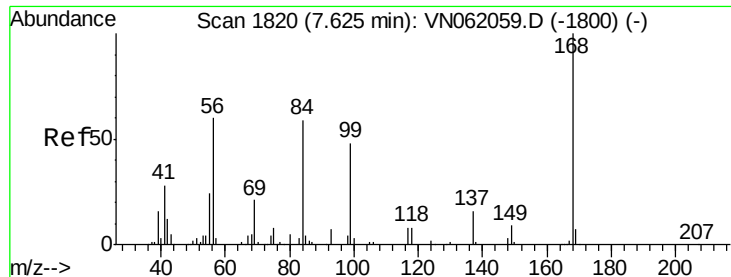
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062215.D

Acq: 30 Jun 2020 3:23

Instrument :

MSVOA_N

ClientSampleId :

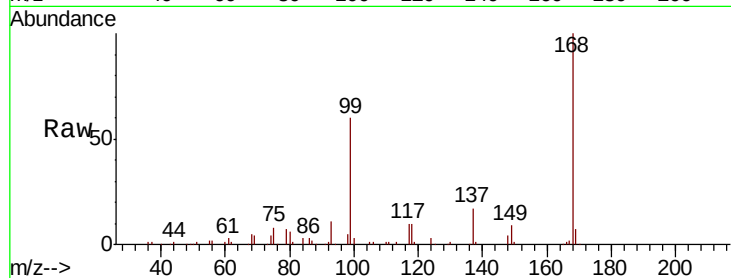
BP-MW180-SOIL-574-578

Tot Ion:168 Resp: 211958

Ion Ratio Lower Upper

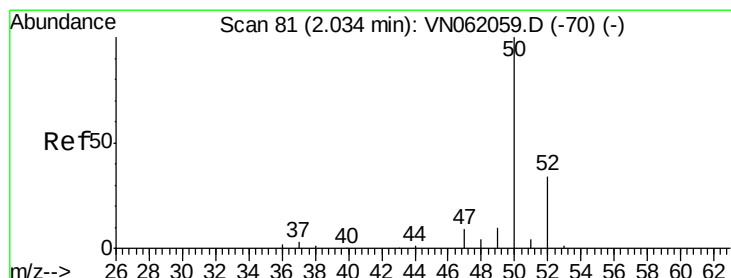
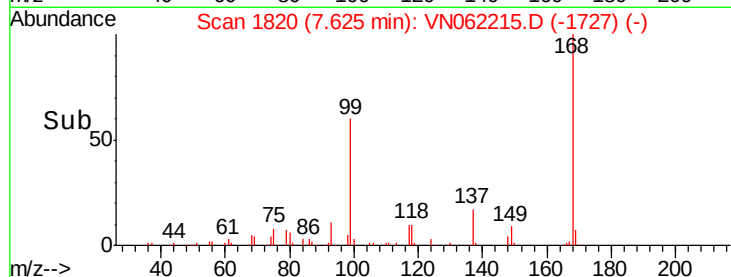
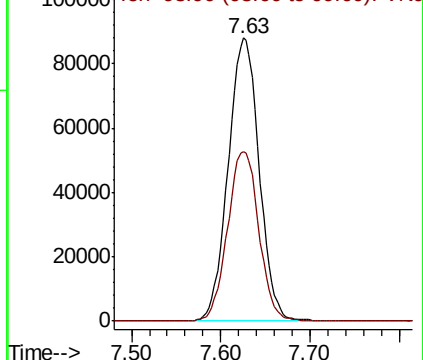
168 100

99 60.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062215.D

Ion 98.90 (98.60 to 99.60): VN062215.D



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062215.D

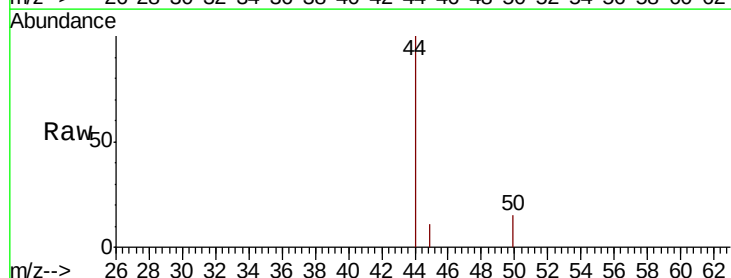
Acq: 30 Jun 2020 3:23

Tgt Ion: 50 Resp: 349

Ion Ratio Lower Upper

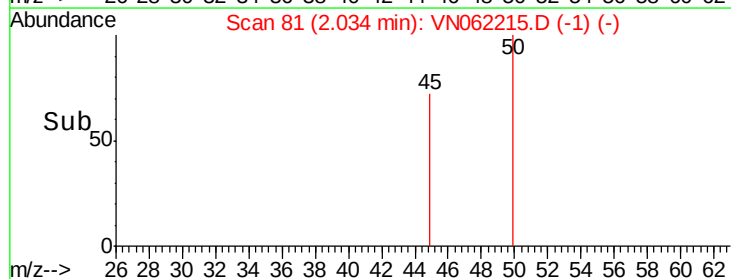
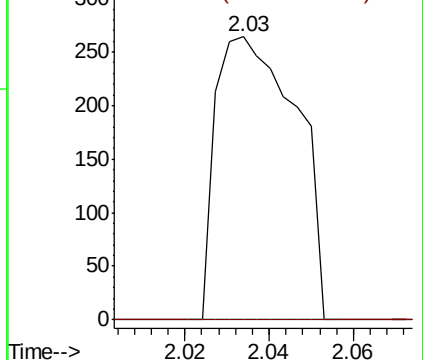
50 100

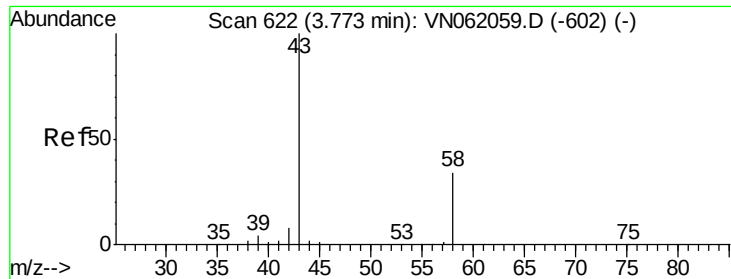
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN062215.D

Ion 51.90 (51.60 to 52.60): VN062215.D





#16

Acetone

Concen: 3.294 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062215.D

Acq: 30 Jun 2020 3:23

Instrument :

MSVOA_N

ClientSampleId :

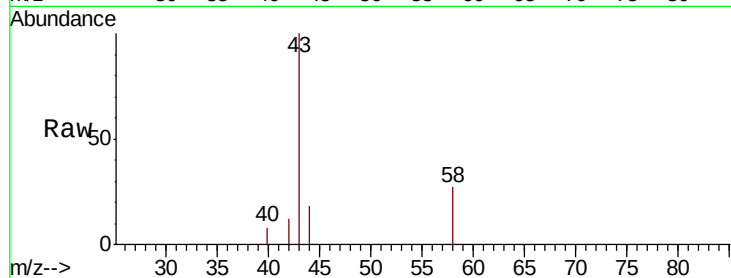
BP-MW180-SOIL-574-578

Tot Ion: 43 Resp: 6808

Ion Ratio Lower Upper

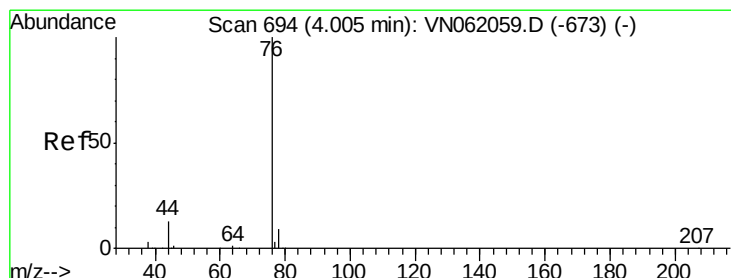
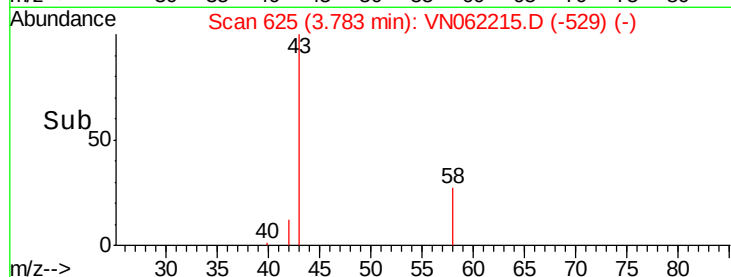
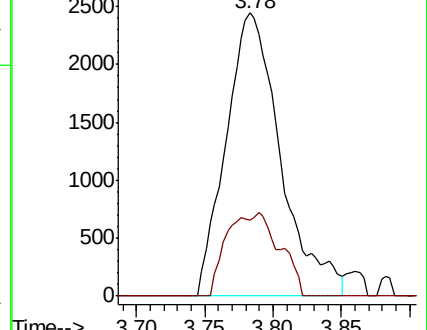
43 100

58 26.8 27.5 41.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062215.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN062215.D (-529) (-)



#17

Carbon Disulfide

Concen: 0.210 ug/l

RT: 4.01 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN062215.D

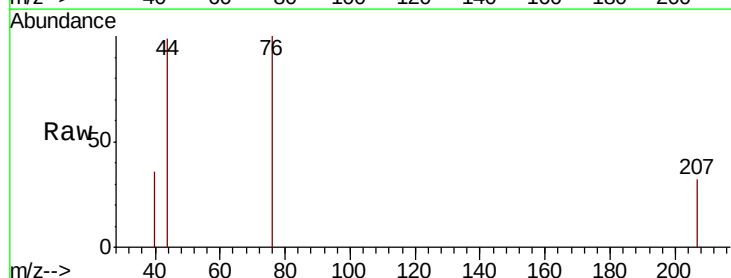
Acq: 30 Jun 2020 3:23

Tgt Ion: 76 Resp: 1114

Ion Ratio Lower Upper

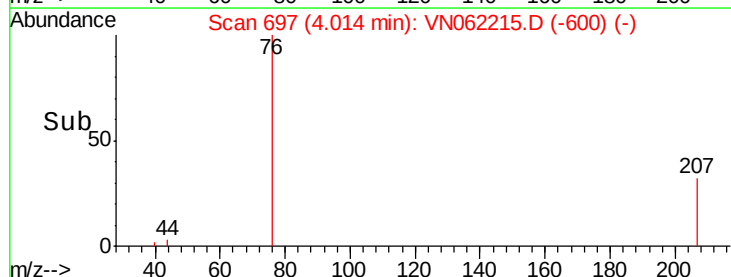
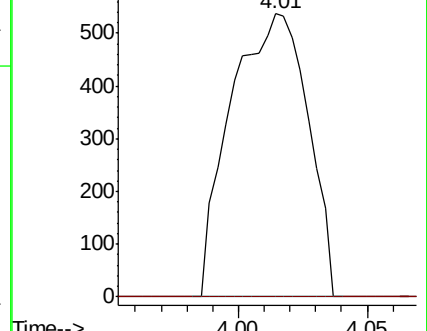
76 100

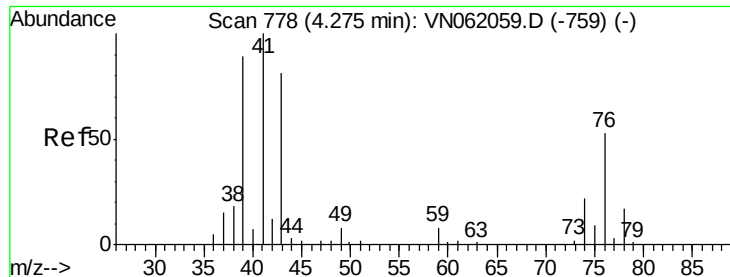
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062215.D (-600) (-)

Ion 77.90 (77.60 to 78.60): VN062215.D (-600) (-)





#18

Methyl Acetate

Concen: 0.228 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.02 min

Lab File: VN062215.D

Acq: 30 Jun 2020 3:23

Instrument :

MSVOA_N

ClientSampleId :

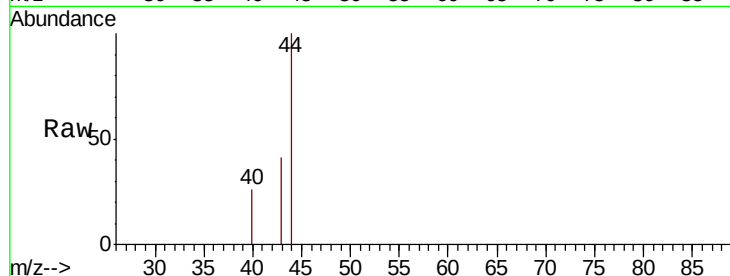
BP-MW180-SOIL-574-578

Tot Ion: 43 Resp: 538

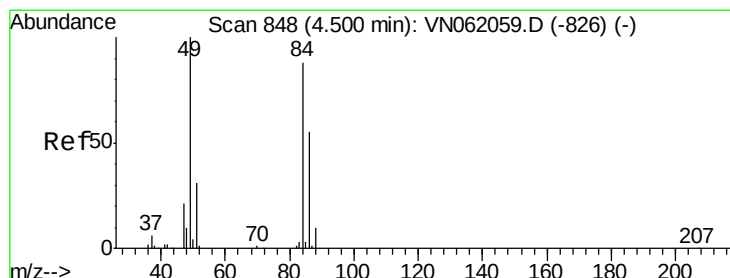
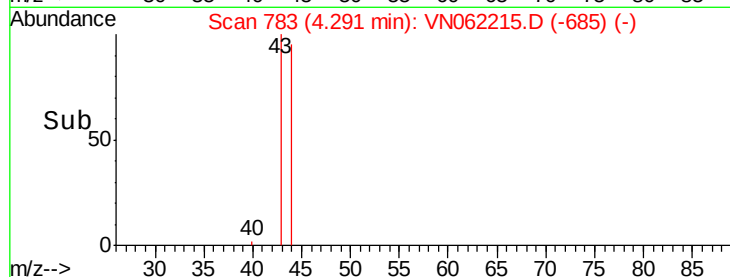
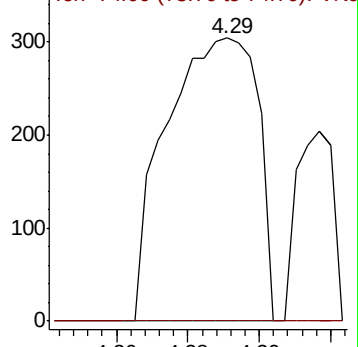
Ion Ratio Lower Upper

43 100

74 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062215.D (-685) (-)



#20

Methylene Chloride

Concen: 4.766 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.01 min

Lab File: VN062215.D

Acq: 30 Jun 2020 3:23

Tgt Ion: 84 Resp: 13549

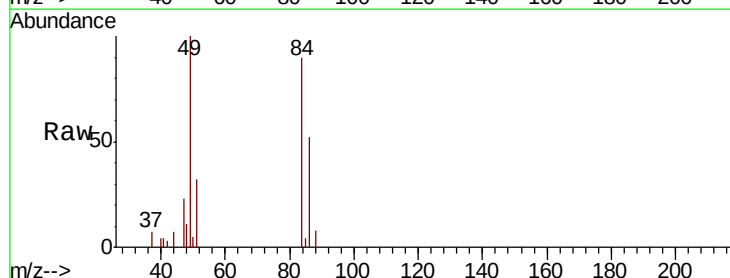
Ion Ratio Lower Upper

84 100

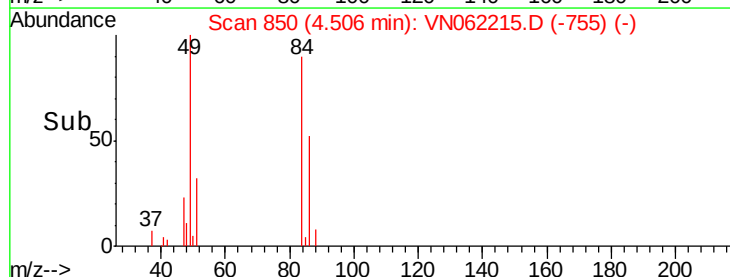
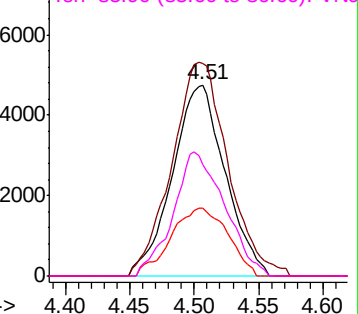
49 110.9 90.6 136.0

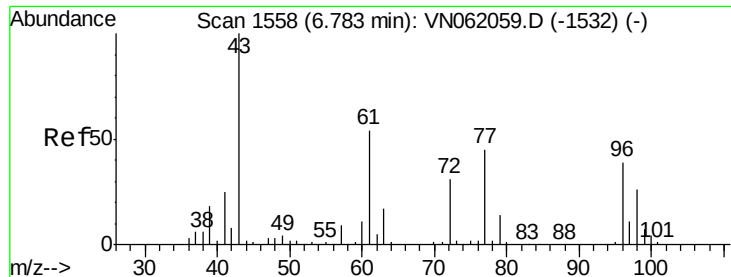
51 35.5 27.8 41.8

86 58.2 50.1 75.1



Abundance Ion 83.90 (83.60 to 84.60): VN062215.D (-755) (-)





#25

2-Butanone

Concen: 0.428 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN062215.D

Acq: 30 Jun 2020 3:23

Instrument :

MSVOA_N

ClientSampleId :

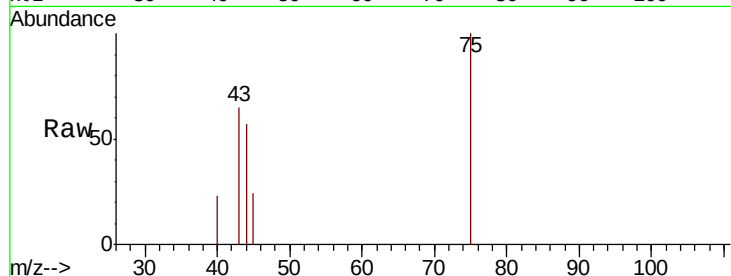
BP-MW180-SOIL-574-578

Tot Ion: 43 Resp: 622

Ion Ratio Lower Upper

43 100

72 0.0 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

400

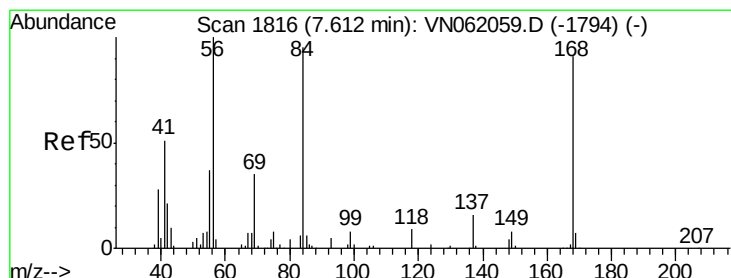
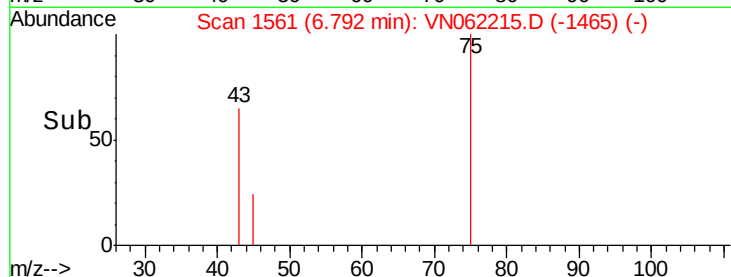
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.303 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062215.D

Acq: 30 Jun 2020 3:23

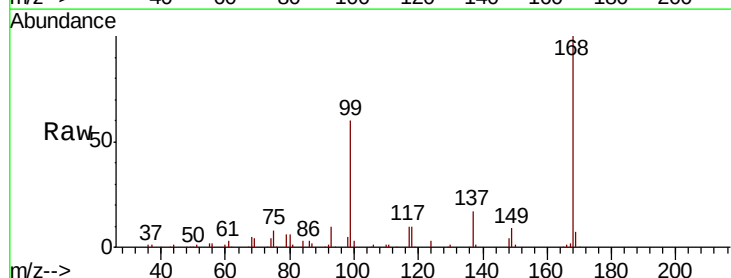
Tgt Ion: 56 Resp: 5356

Ion Ratio Lower Upper

56 100

69 174.6 28.0 42.0#

84 120.9 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

5000

4000

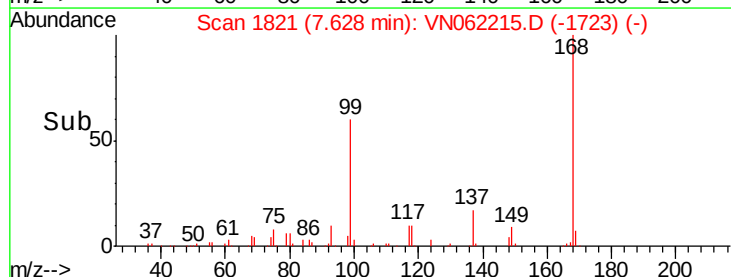
3000

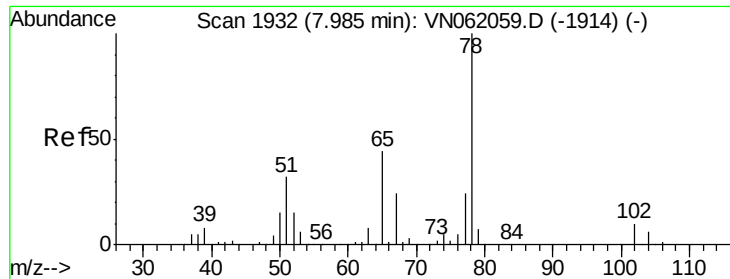
2000

1000

0

Time-->

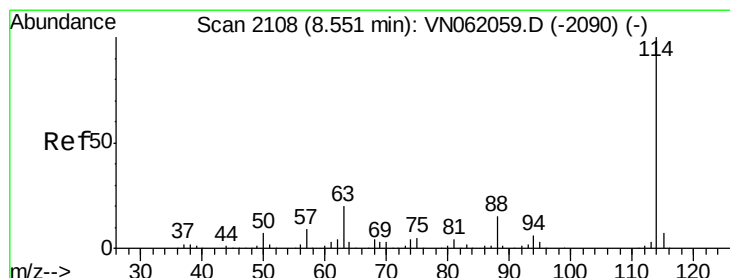
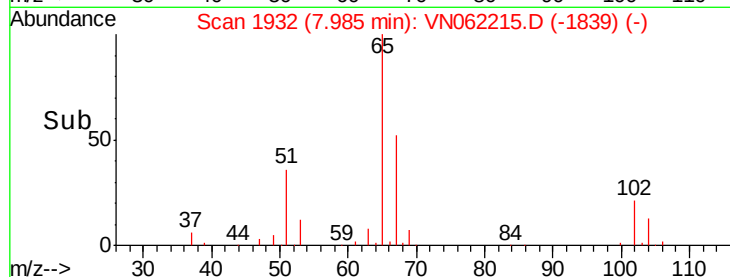
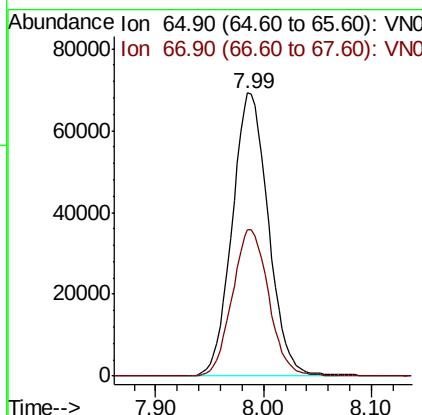
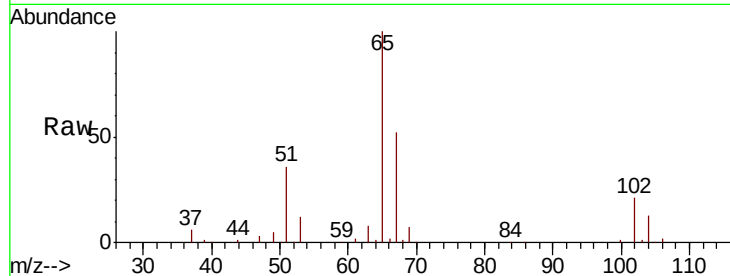




#33
 1,2-Dichloroethane-d4
 Concen: 54.419 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN062215.D
 Acq: 30 Jun 2020 3:23

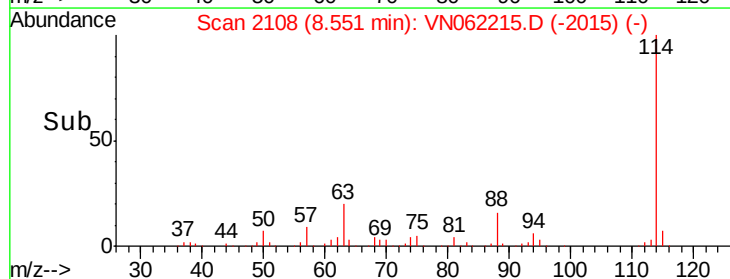
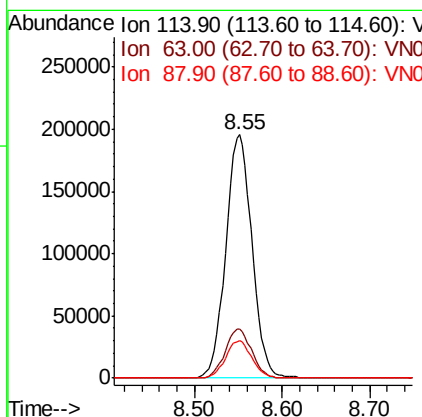
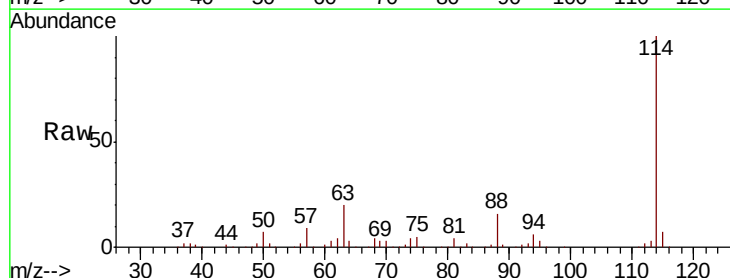
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-574-578

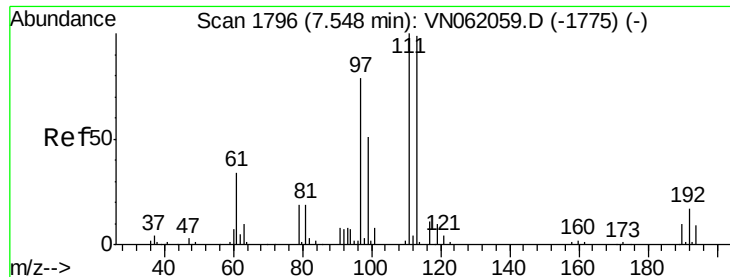
Tot Ion: 65 Resp: 161869
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062215.D
 Acq: 30 Jun 2020 3:23

Tgt Ion: 114 Resp: 407166
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 39.2
 88 15.5 0.0 30.8

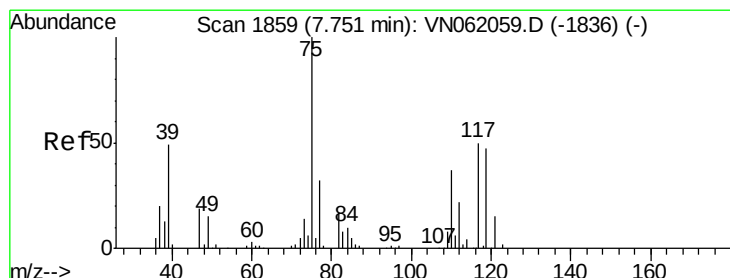
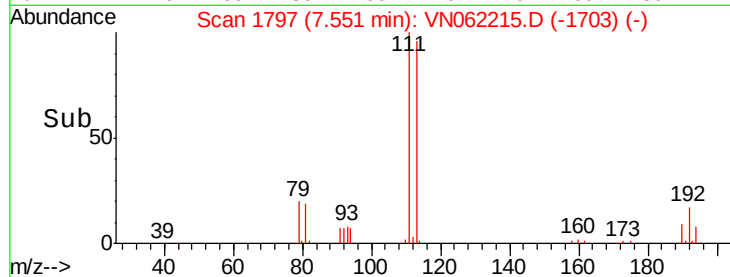
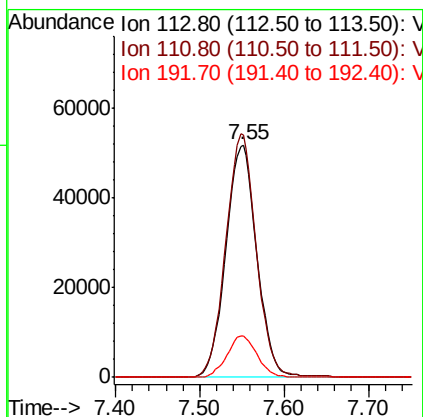
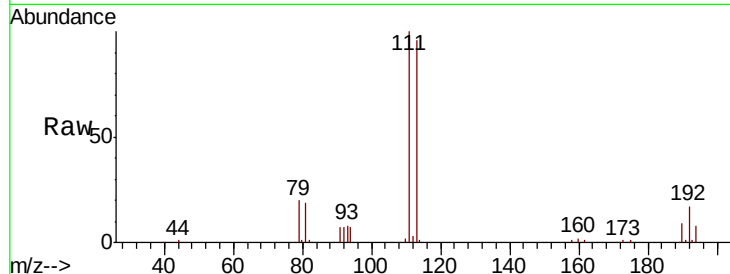




#35
 Dibromofluoromethane
 Concen: 50.666 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062215.D
 Acq: 30 Jun 2020 3:23

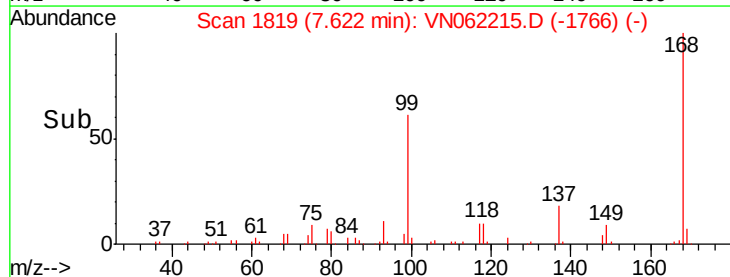
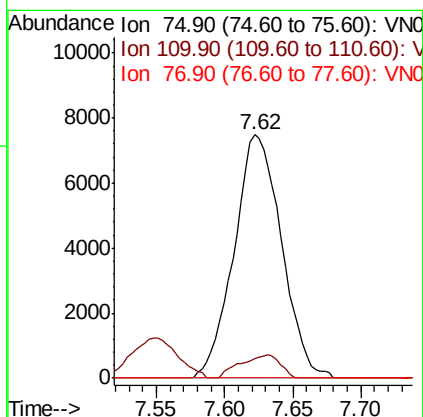
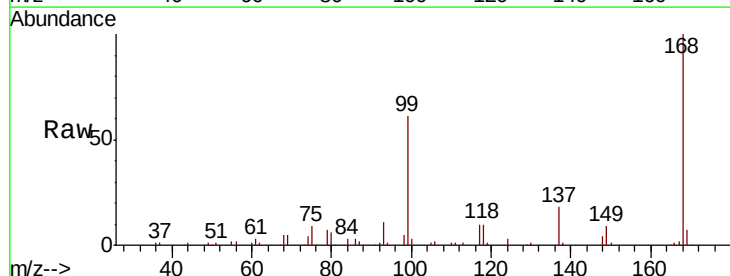
Instrument :
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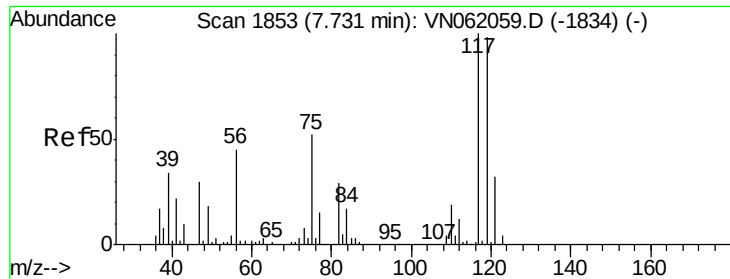
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.4
192	17.3	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.417 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062215.D
 Acq: 30 Jun 2020 3:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.9	53.8#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.467 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062215.D

Acq: 30 Jun 2020 3:23

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-574-578

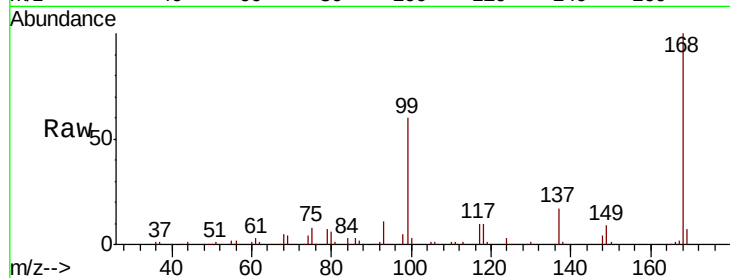
Tot Ion:117 Resp: 21093

Ion Ratio Lower Upper

117 100

119 5.0 78.2 117.2#

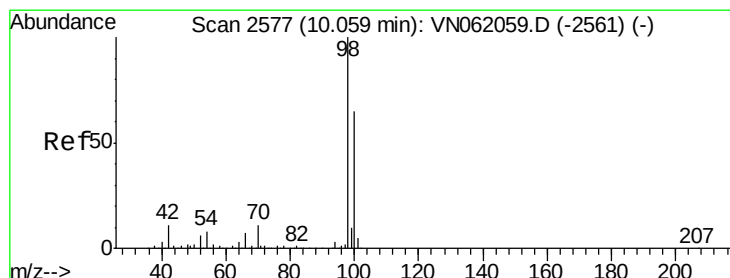
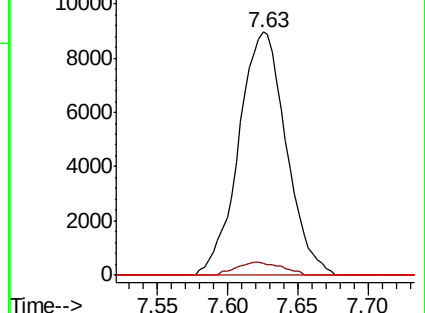
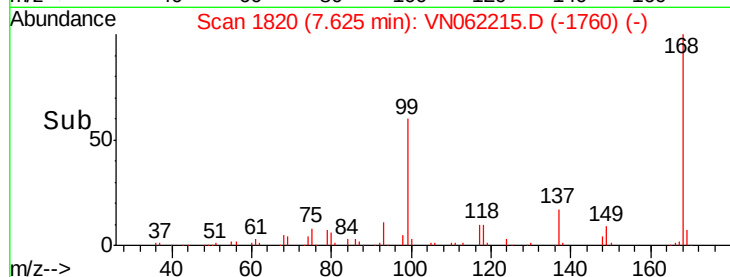
121 0.0 25.8 38.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.677 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062215.D

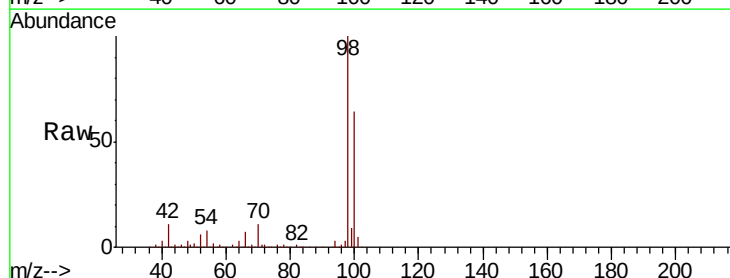
Acq: 30 Jun 2020 3:23

Tgt Ion: 98 Resp: 518709

Ion Ratio Lower Upper

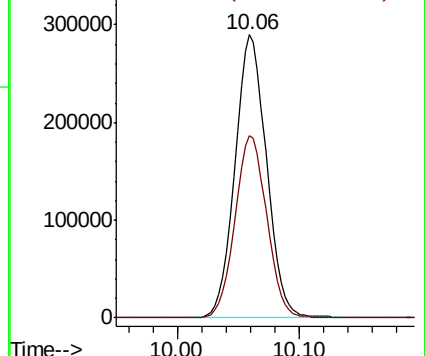
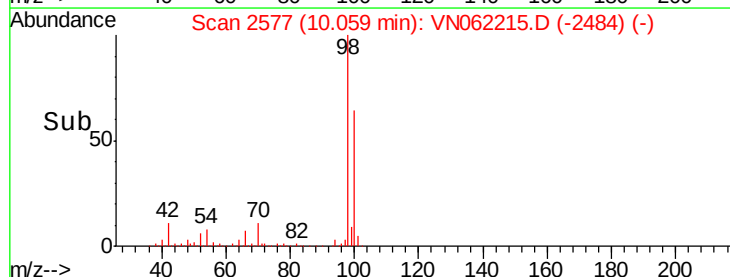
98 100

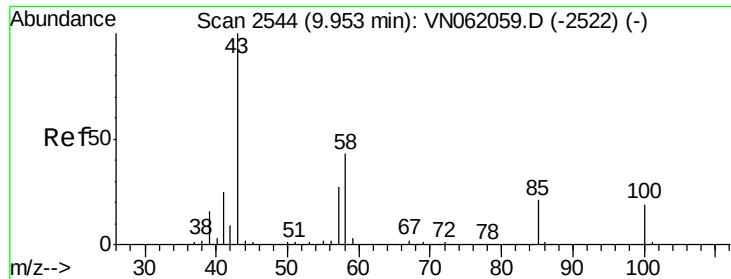
100 65.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.378 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062215.D

Acq: 30 Jun 2020 3:23

Instrument :

MSVOA_N

ClientSampleId :

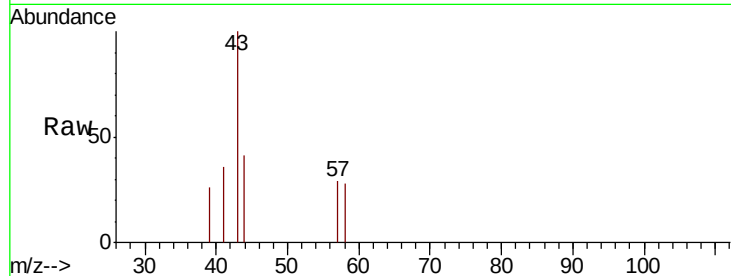
BP-MW180-SOIL-574-578

Tot Ion: 43 Resp: 1220

Ion Ratio Lower Upper

43 100

58 18.7 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) (-)

9.96

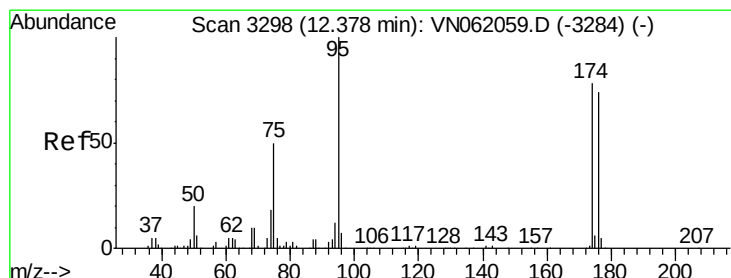
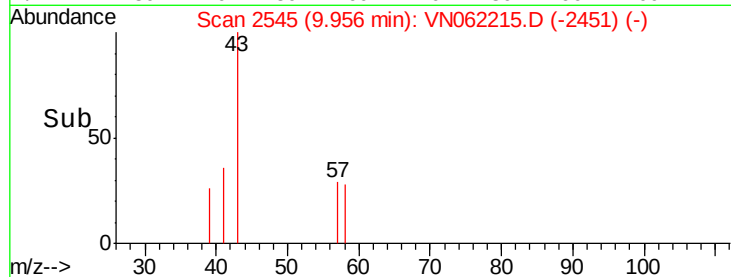
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.409 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062215.D

Acq: 30 Jun 2020 3:23

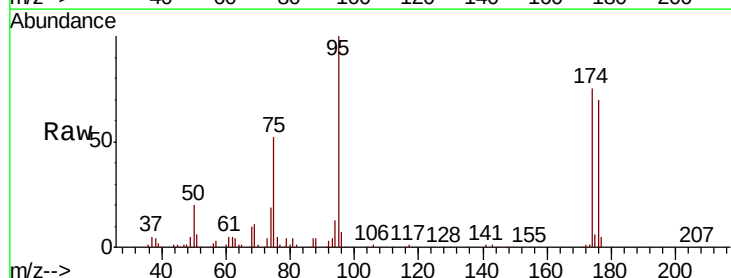
Tgt Ion: 95 Resp: 167251

Ion Ratio Lower Upper

95 100

174 75.4 0.0 154.8

176 71.5 0.0 147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062059.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062059.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062059.D (-3284) (-)

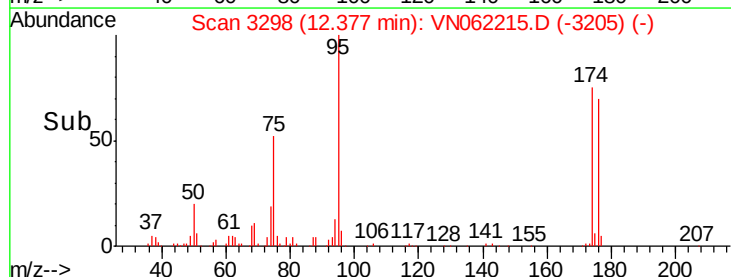
12.38

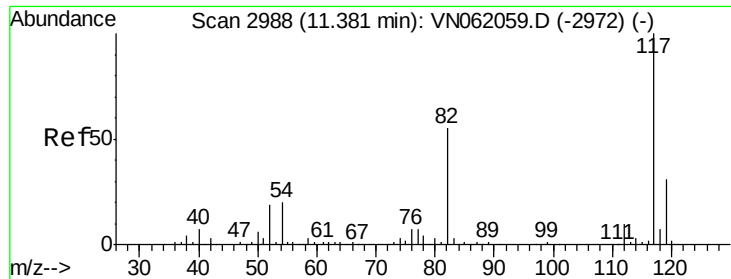
100000

50000

0

Time-->

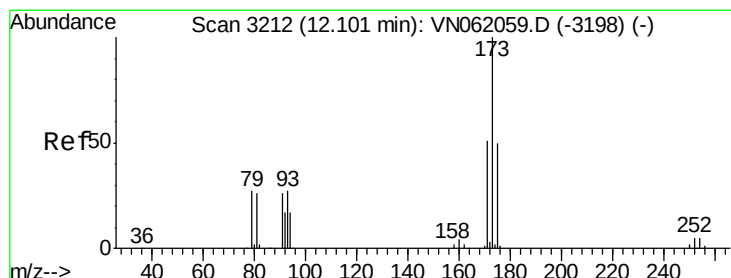
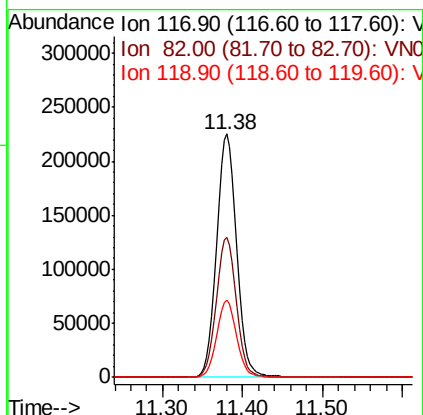
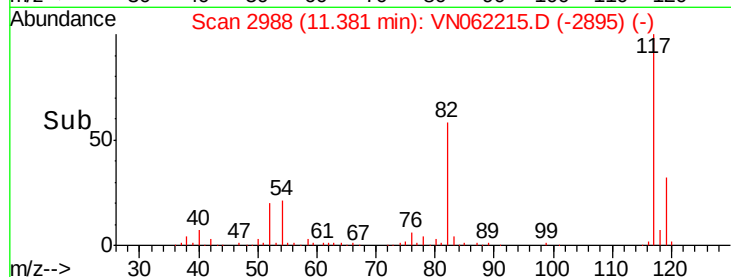
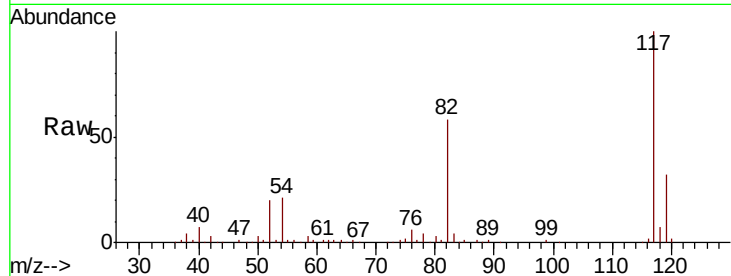




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062215.D
Acq: 30 Jun 2020 3:23

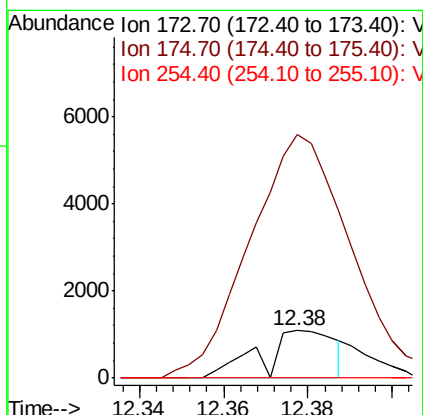
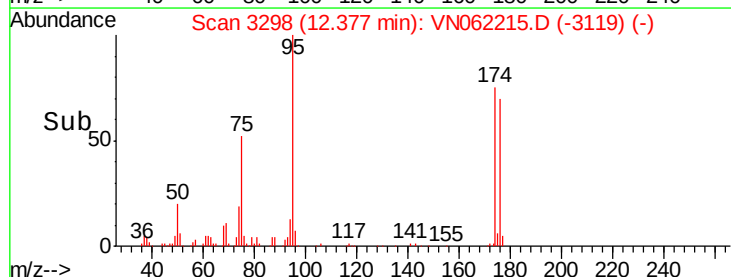
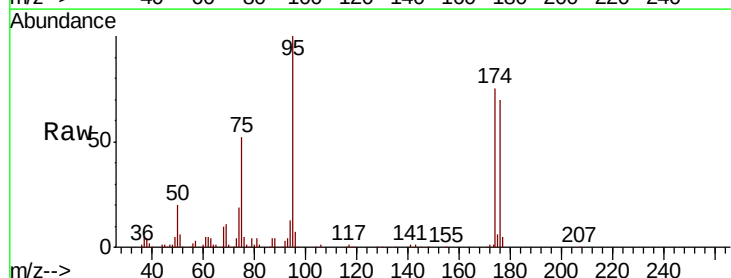
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-574-578

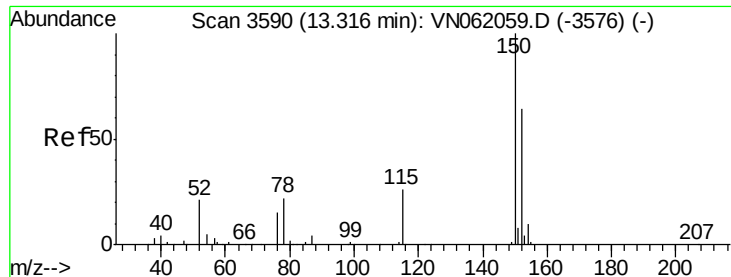
Tot Ion:117 Resp: 393593
Ion Ratio Lower Upper
117 100
82 57.6 43.8 65.8
119 31.7 25.2 37.8



#71
Bromoform
Concen: 0.621 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062215.D
Acq: 30 Jun 2020 3:23

Tgt Ion:173 Resp: 1319
Ion Ratio Lower Upper
173 100
175 574.8 24.7 74.1#
254 0.0 0.0 0.0

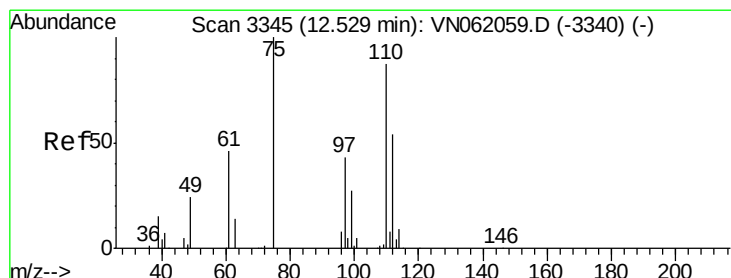
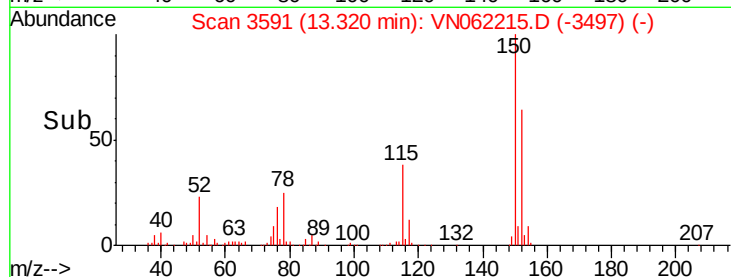
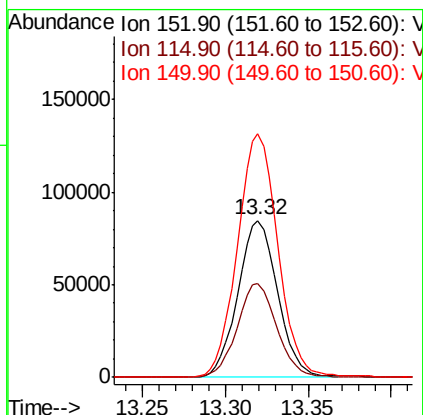
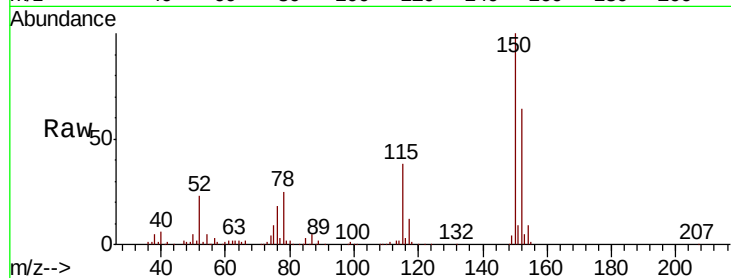




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VN062215.D
 Acq: 30 Jun 2020 3:23

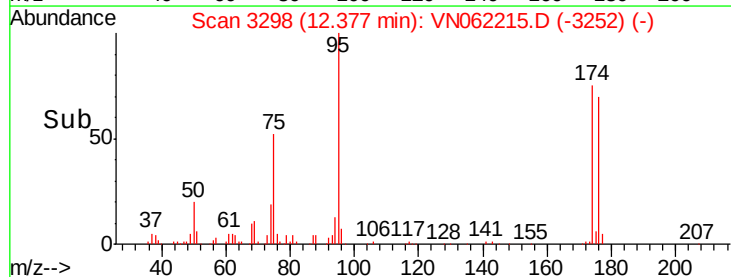
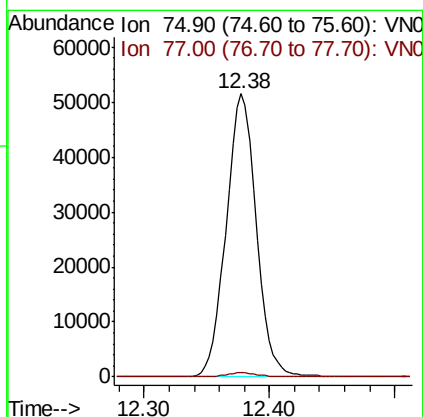
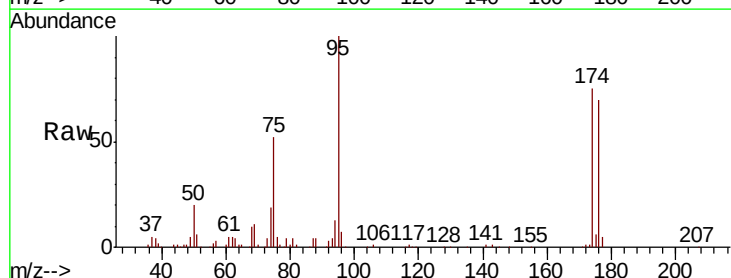
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-574-578

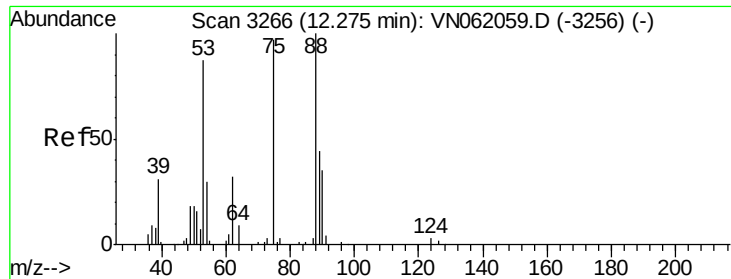
Tot Ion:152 Resp: 141166
 Ion Ratio Lower Upper
 152 100
 115 59.9 29.5 88.5
 150 158.4 0.0 351.4



#76
 1,2,3-Trichloropropane
 Concen: 25.809 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062215.D
 Acq: 30 Jun 2020 3:23

Tgt Ion: 75 Resp: 85767
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#

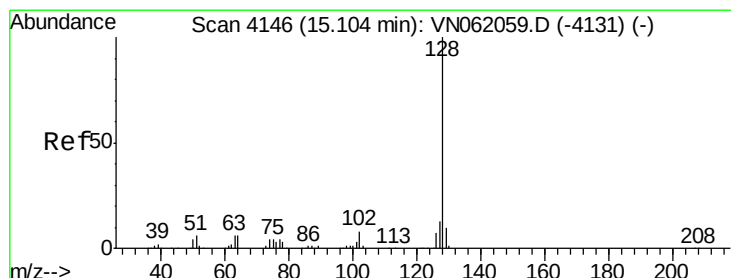
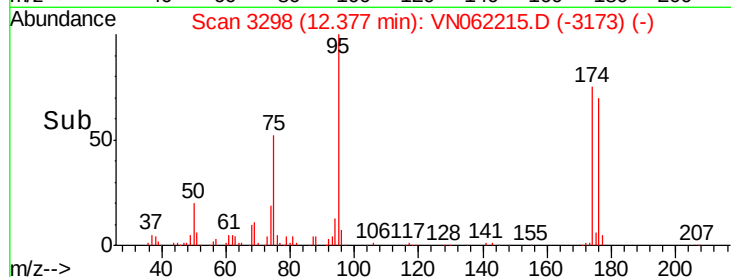
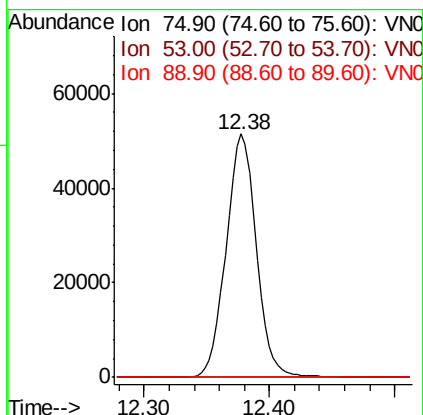
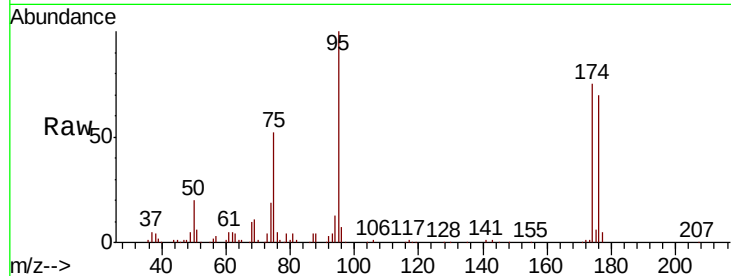




#81
trans-1,4-Dichloro-2-butene
Concen: 75.372 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062215.D
Acq: 30 Jun 2020 3:23

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-574-578

Tot Ion: 75 Resp: 85767
Ion Ratio Lower Upper
75 100
53 0.0 72.0 108.0#
89 0.0 36.9 55.3#



#95
Naphthalene
Concen: 4.026 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN062215.D
Acq: 30 Jun 2020 3:23

Tgt Ion: 128 Resp: 230
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#

