

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN063020\
 Data File : VN062238.D
 Acq On : 30 Jun 2020 14:38
 Operator : JC/MD
 Sample : L3151-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-EB-20200626

Quant Time: Jul 01 03:34:58 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	211502	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	404905	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	392007	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	148621	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	156440	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
35) Dibromofluoromethane	7.55	113	127731	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
50) Toluene-d8	10.06	98	522594	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
62) 4-Bromofluorobenzene	12.38	95	170977	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	

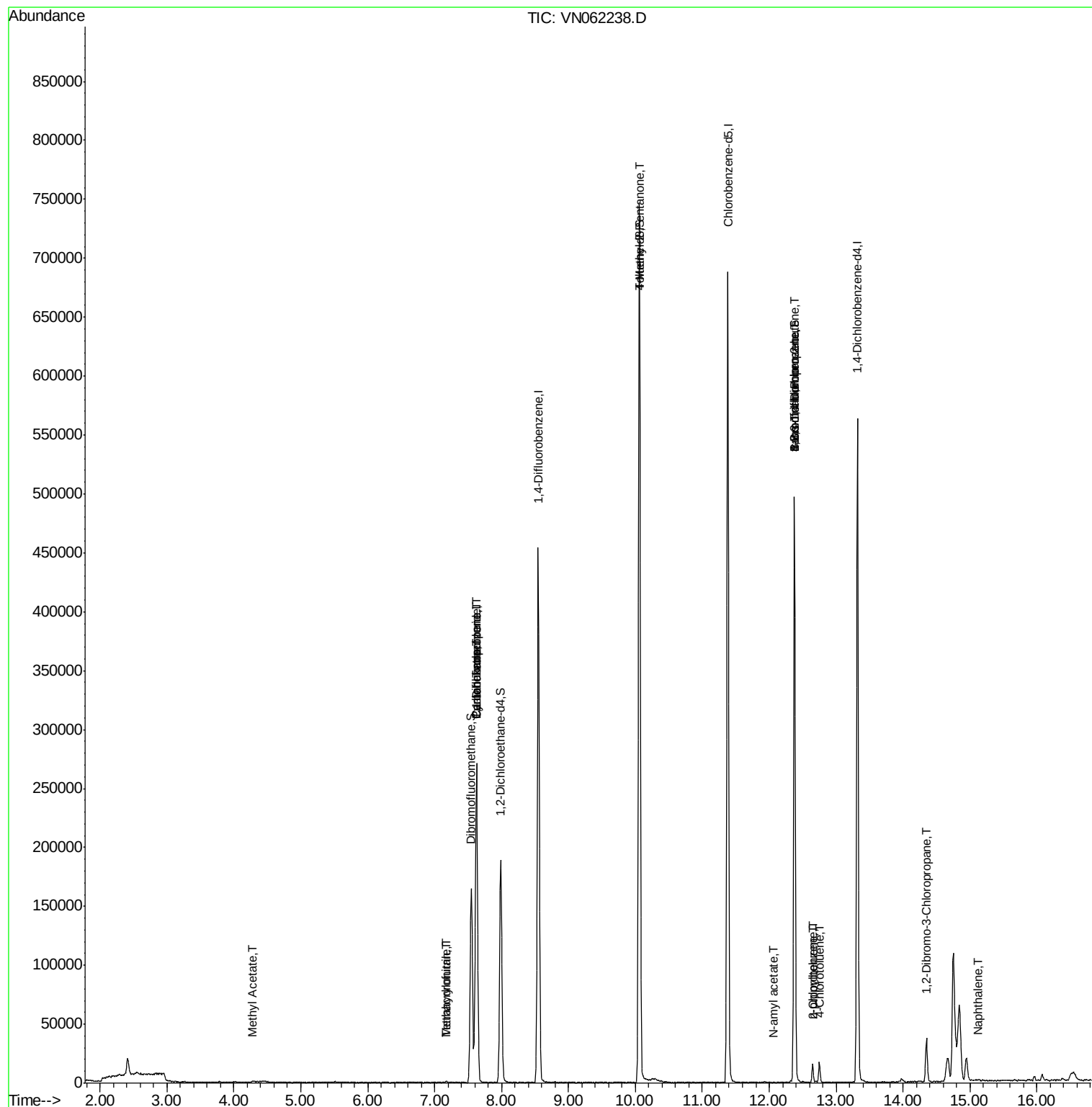
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	791	Below Cal		89
16) Acetone	3.78	43	670	Below Cal	#	40
18) Methyl Acetate	4.29	43	762	0.323	ug/l #	46
20) Methylene Chloride	4.50	84	121	Below Cal	#	48
29) Tetrahydrofuran	7.18	42	717	0.754	ug/l #	59
31) Cyclohexane	7.63	56	4976	1.213	ug/l #	4
36) 1,1-Dichloropropene	7.62	75	18625	4.576	ug/l #	48
38) Carbon Tetrachloride	7.63	117	21621	5.635	ug/l #	16
41) Methacrylonitrile	7.18	41	468	0.300	ug/l #	14
51) 4-Methyl-2-Pentanone	10.06	43	2420	0.754	ug/l #	1
71) Bromoform	12.37	173	1611	0.761	ug/l #	1
74) N-amyl acetate	12.06	43	61	3.357	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	89574	25.602	ug/l #	100
78) n-propylbenzene	12.65	91	9704	0.737	ug/l #	53
79) 2-Chlorotoluene	12.65	91	9704	1.220	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	89574	74.769	ug/l #	13
82) 4-Chlorotoluene	12.75	91	11401	1.386	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.35	75	940	1.533	ug/l #	3
95) Naphthalene	15.11	128	917	4.114	ug/l #	69

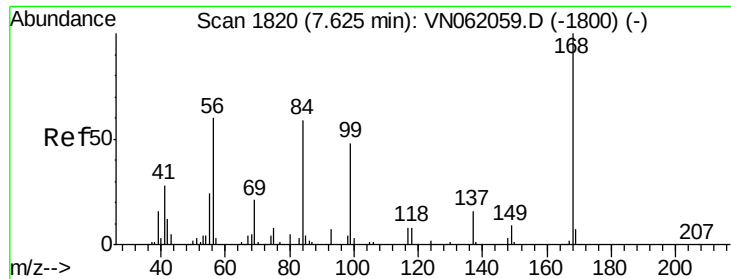
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

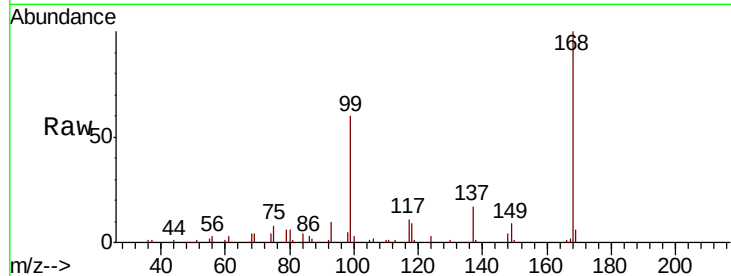
BP-MW180-EB-20200626

Tot Ion:168 Resp: 211502

Ion Ratio Lower Upper

168 100

99 59.6 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

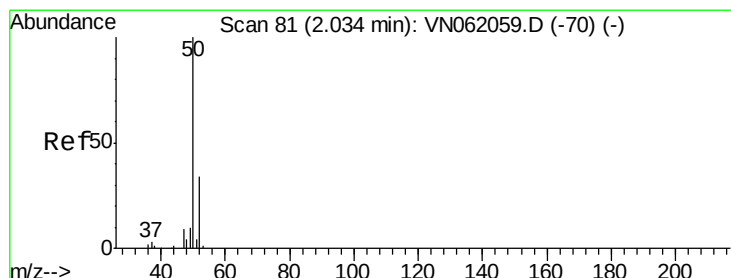
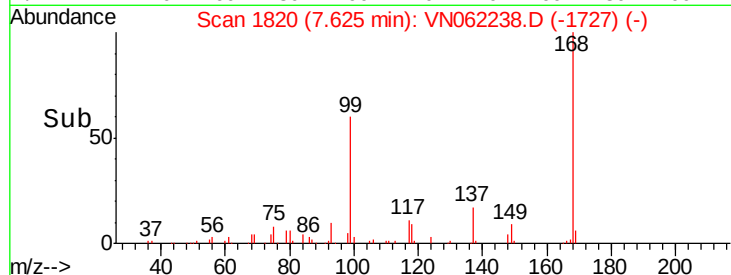
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062238.D

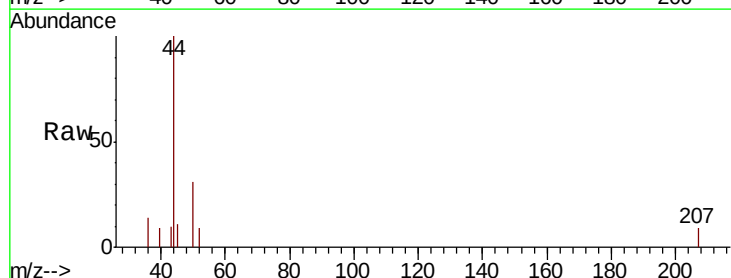
Acq: 30 Jun 2020 14:38

Tgt Ion: 50 Resp: 791

Ion Ratio Lower Upper

50 100

52 27.6 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

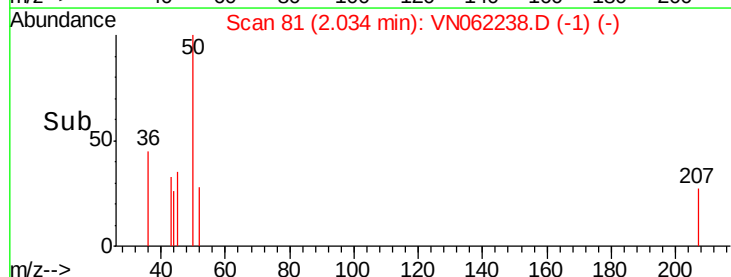
600

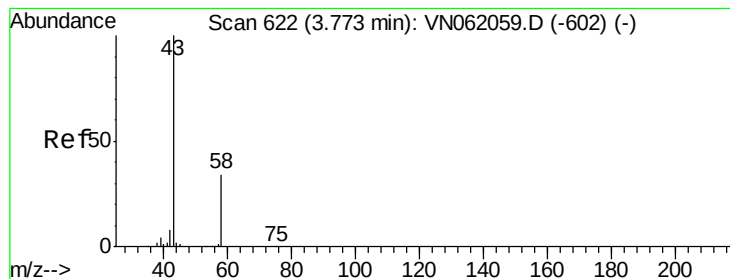
400

200

0

Time--> 2.00 2.02 2.04 2.06





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

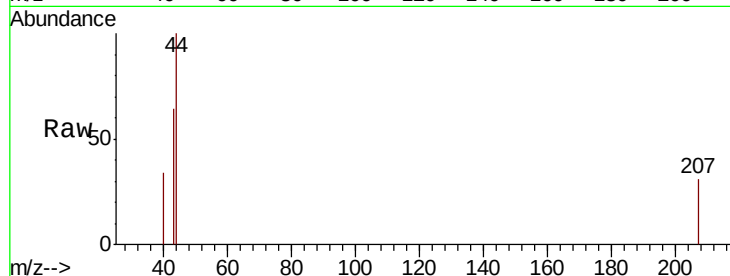
BP-MW180-EB-20200626

Tot Ion: 43 Resp: 670

Ion Ratio Lower Upper

43 100

58 0.0 27.5 41.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

400

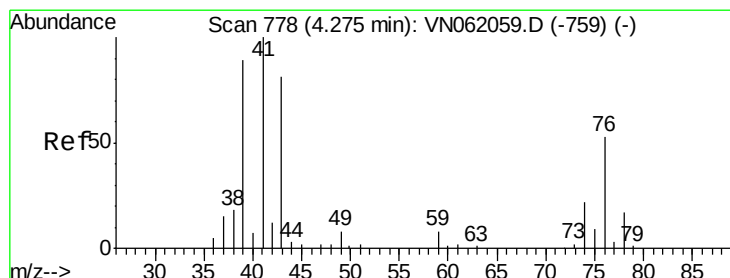
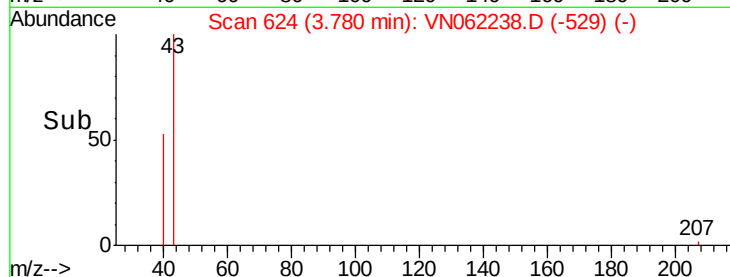
300

200

100

0

Time--> 3.74 3.76 3.78 3.80 3.82



#18

Methyl Acetate

Concen: 0.323 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062238.D

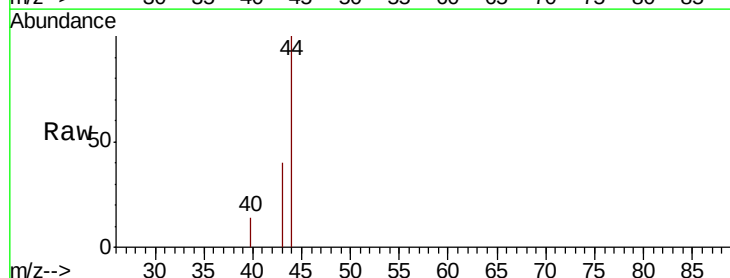
Acq: 30 Jun 2020 14:38

Tgt Ion: 43 Resp: 762

Ion Ratio Lower Upper

43 100

74 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

500

400

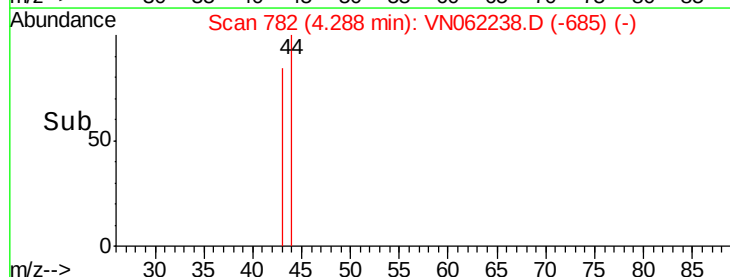
300

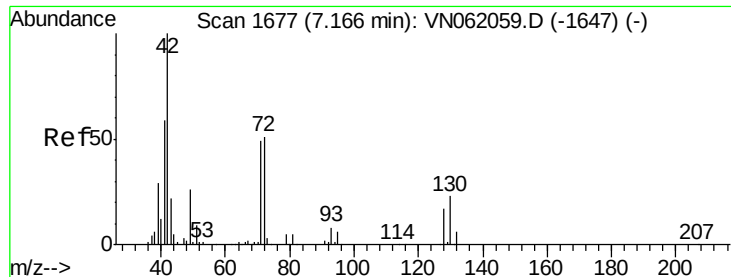
200

100

0

Time--> 4.24 4.26 4.28 4.30





#29

Tetrahydrofuran

Concen: 0.754 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-EB-20200626

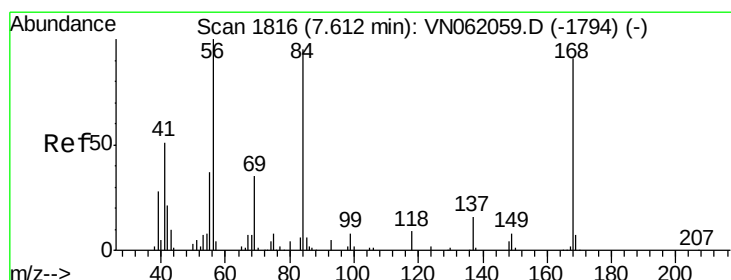
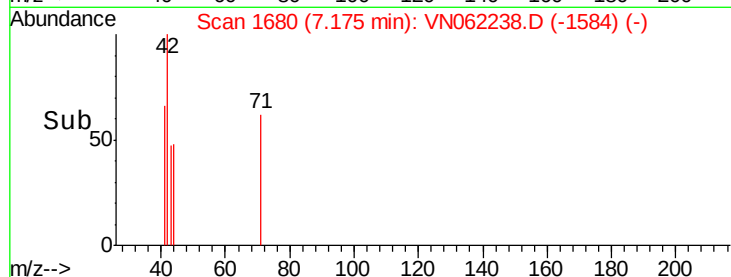
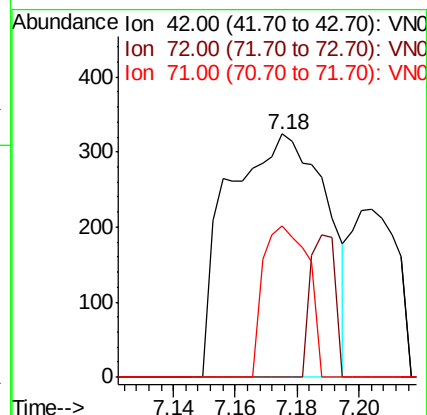
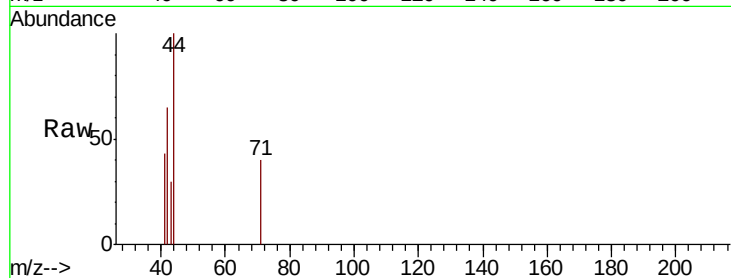
Tot Ion: 42 Resp: 717

Ion Ratio Lower Upper

42 100

72 14.5 41.1 61.7#

71 28.6 38.2 57.4#



#31

Cyclohexane

Concen: 1.213 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

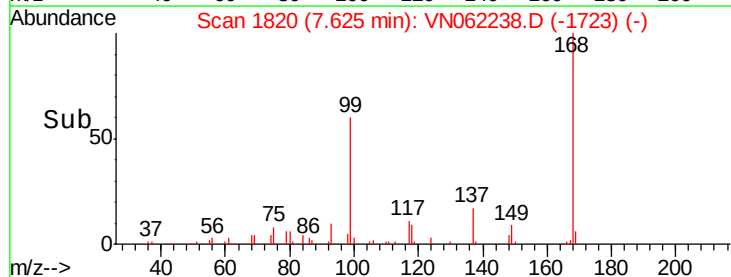
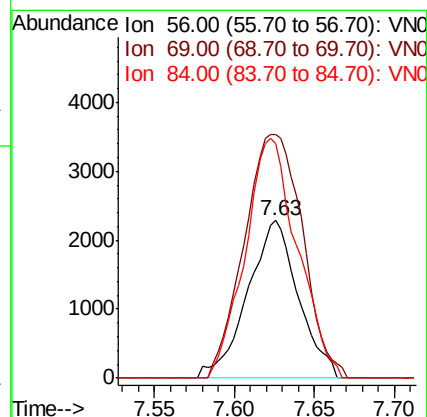
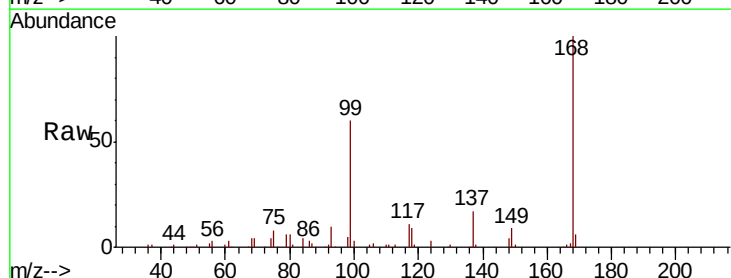
Tgt Ion: 56 Resp: 4976

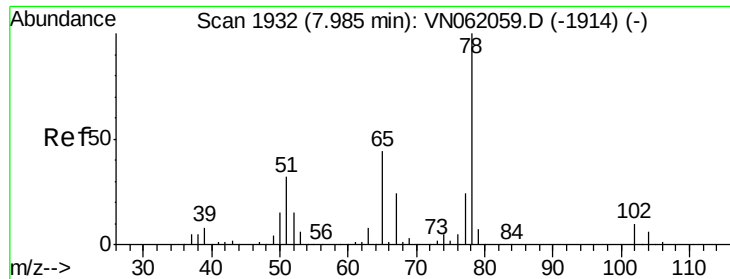
Ion Ratio Lower Upper

56 100

69 154.3 28.0 42.0#

84 149.2 76.1 114.1#

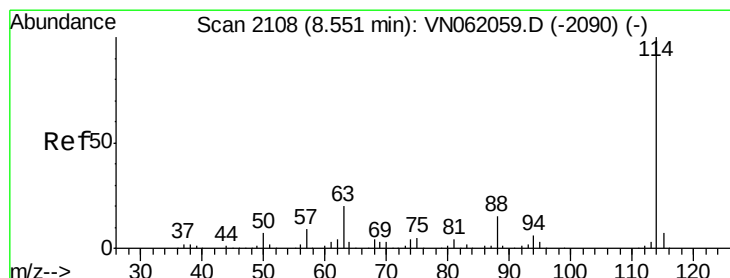
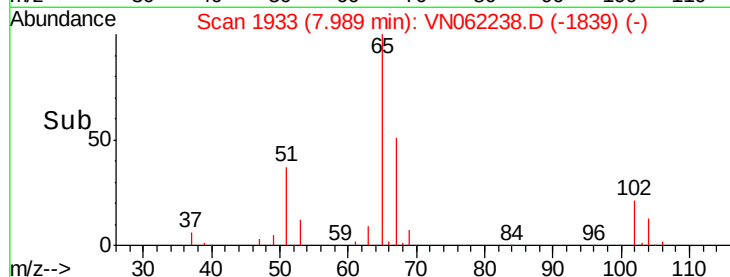
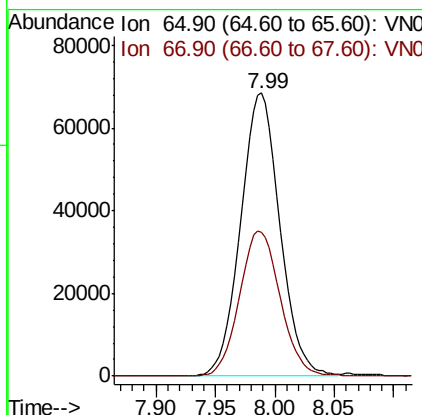
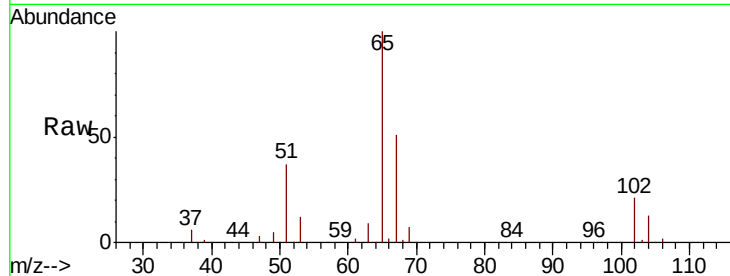




#33
 1,2-Dichloroethane-d4
 Concen: 52.707 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062238.D
 Acq: 30 Jun 2020 14:38

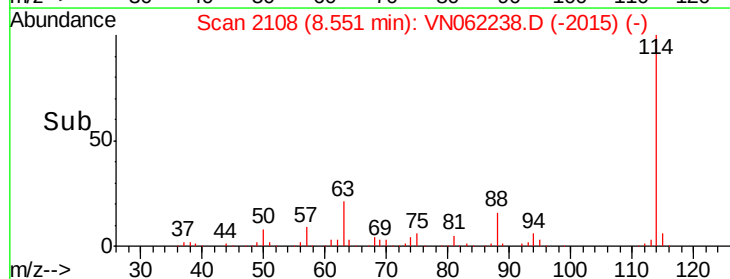
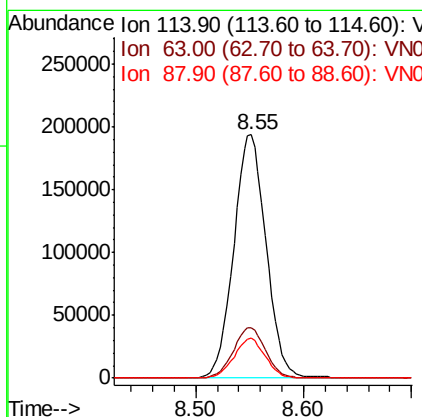
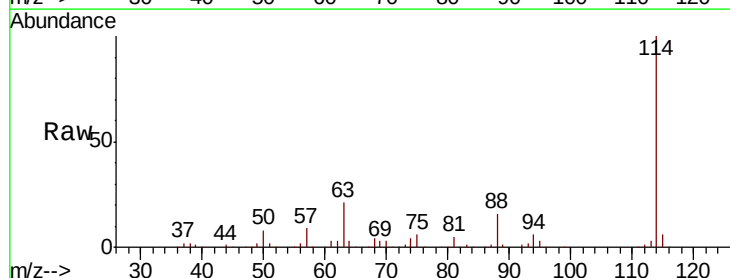
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-EB-20200626

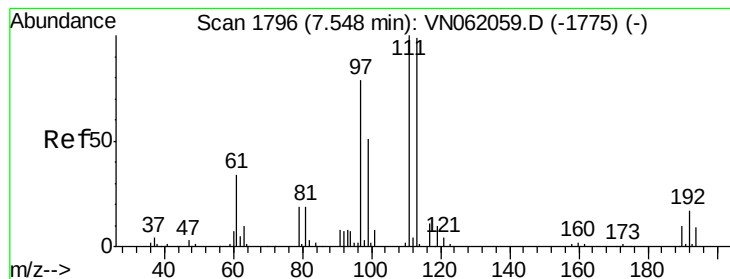
Tot Ion: 65 Resp: 156440
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062238.D
 Acq: 30 Jun 2020 14:38

Tgt Ion: 114 Resp: 404905
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 39.2
 88 16.3 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.172 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-EB-20200626

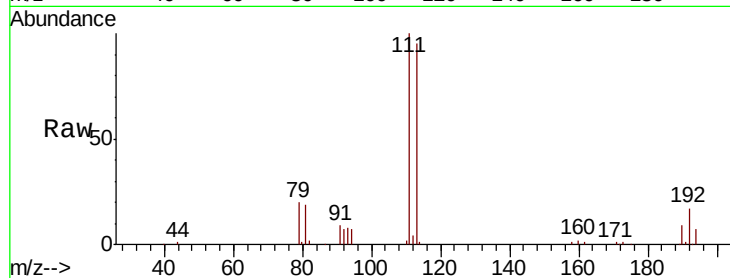
Tot Ion:113 Resp: 127731

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

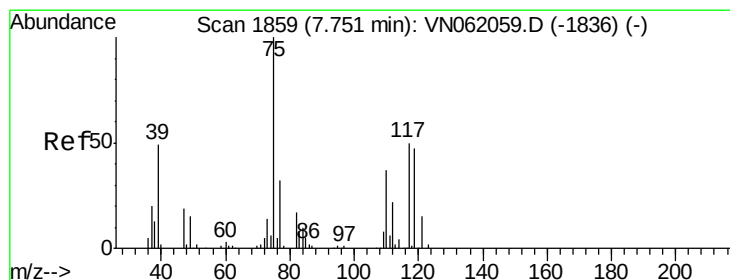
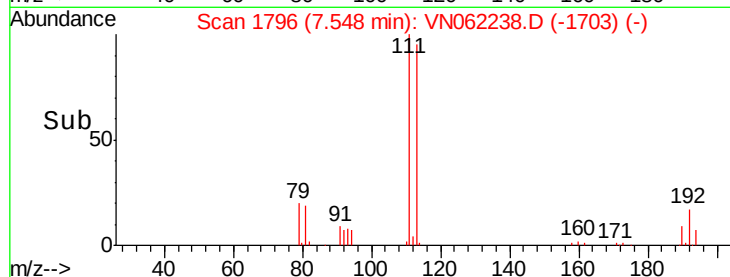
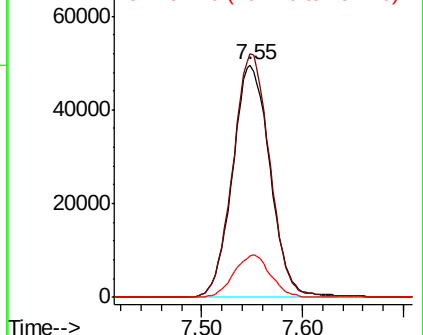
192 17.9 14.0 21.0



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



#36

1,1-Dichloropropene

Concen: 4.576 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

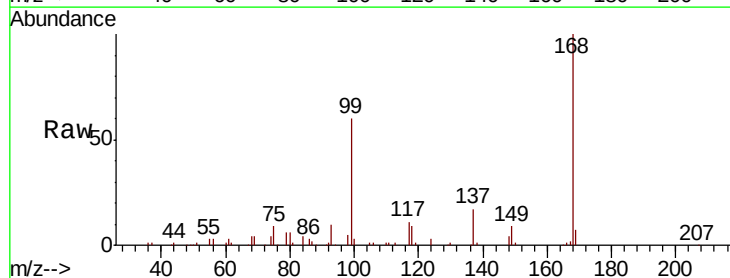
Tgt Ion: 75 Resp: 18625

Ion Ratio Lower Upper

75 100

110 7.4 17.9 53.8#

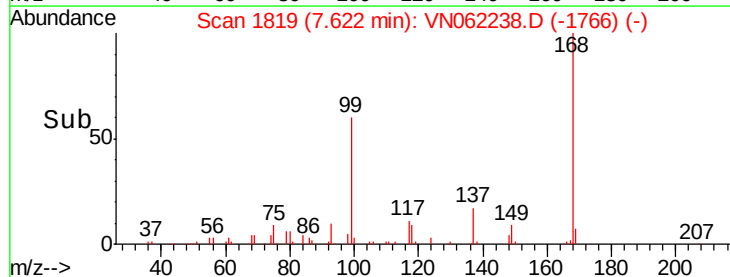
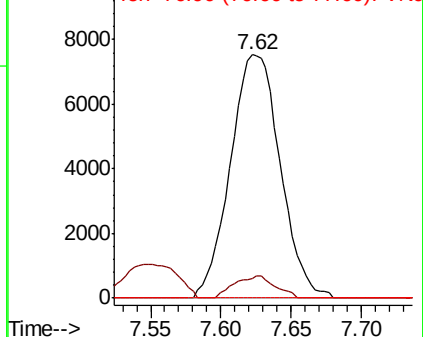
77 0.0 24.9 37.3#

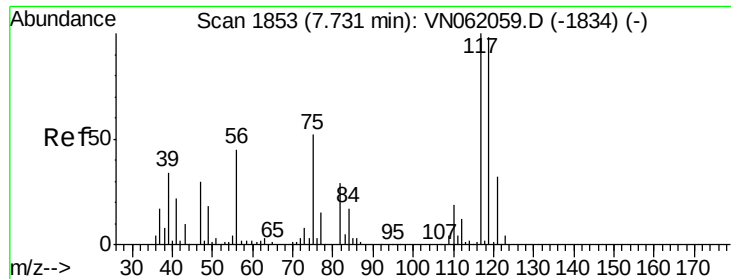


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 5.635 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

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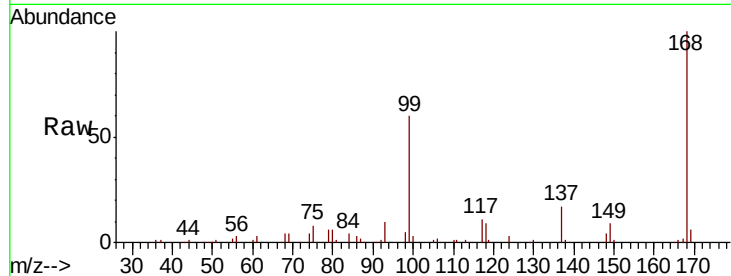
Tot Ion:117 Resp: 21621

Ion Ratio Lower Upper

117 100

119 5.9 78.2 117.2#

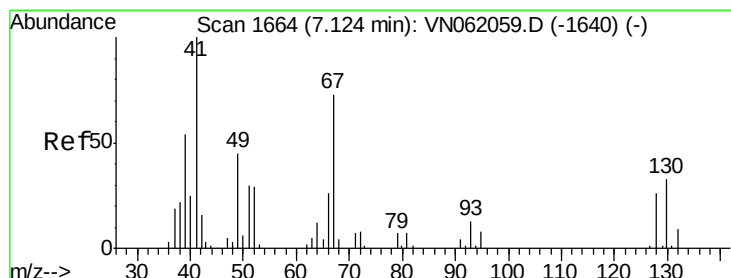
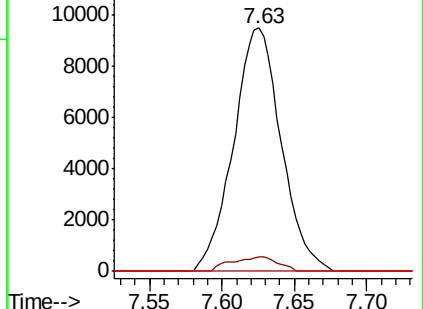
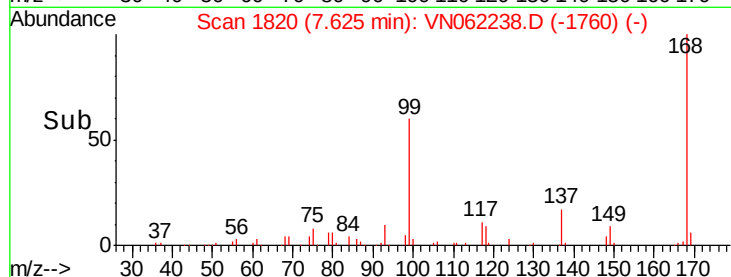
121 0.0 25.8 38.6#



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



#41

Methacrylonitrile

Concen: 0.300 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.06 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Tgt Ion: 41 Resp: 468

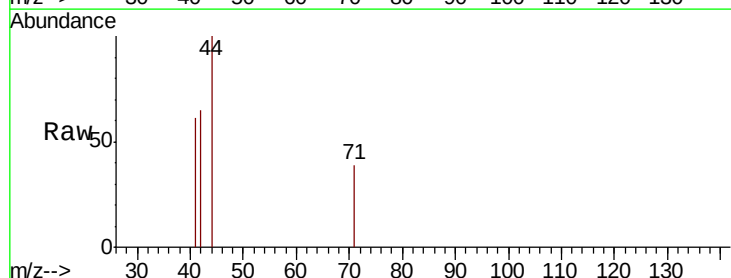
Ion Ratio Lower Upper

41 100

39 0.0 44.2 66.2#

67 0.0 79.5 119.3#

52 0.0 32.3 48.5#

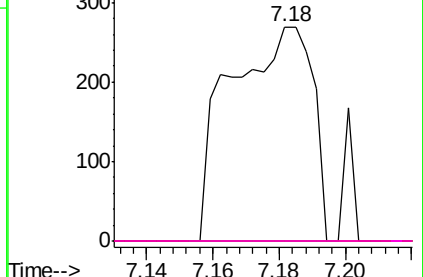
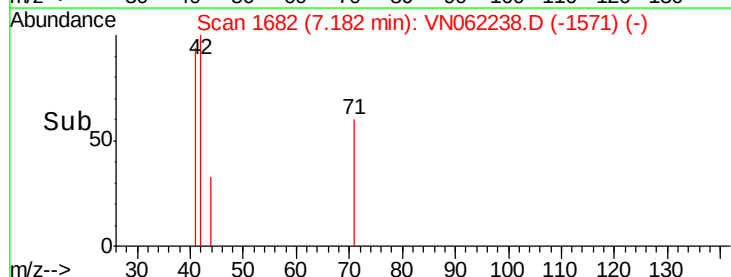


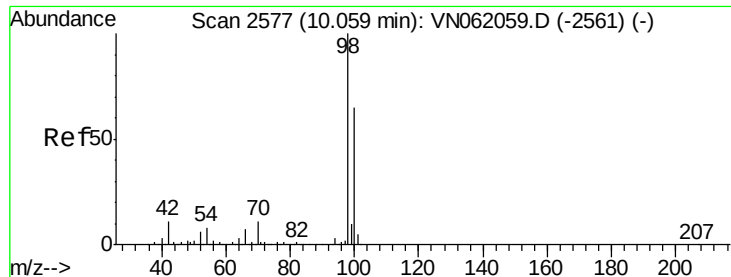
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#50

Toluene-d8

Concen: 50.328 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

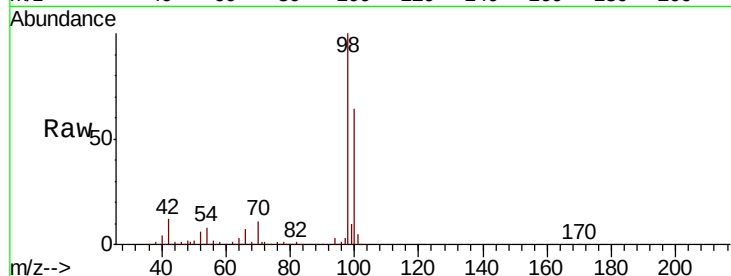
BP-MW180-EB-20200626

Tot Ion: 98 Resp: 522594

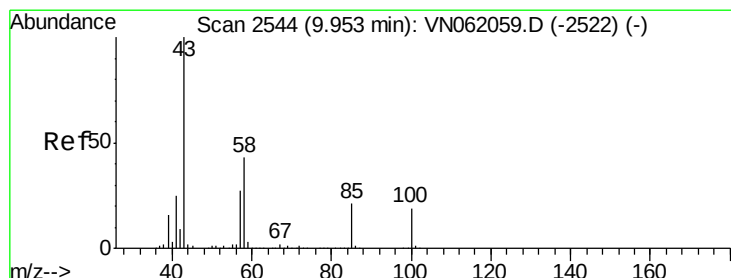
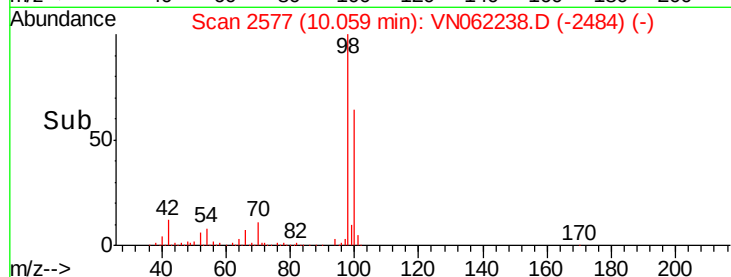
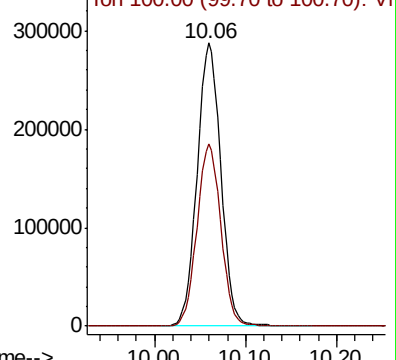
Ion Ratio Lower Upper

98 100

100 64.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062238.D (-2484) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.754 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN062238.D

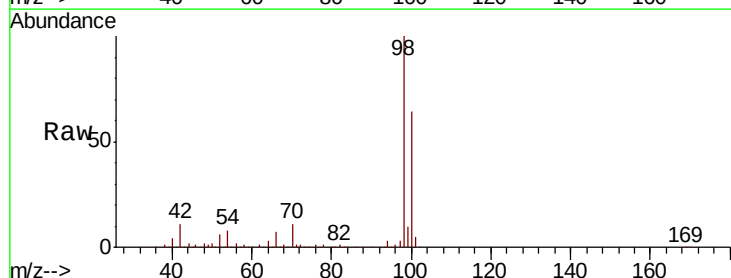
Acq: 30 Jun 2020 14:38

Tgt Ion: 43 Resp: 2420

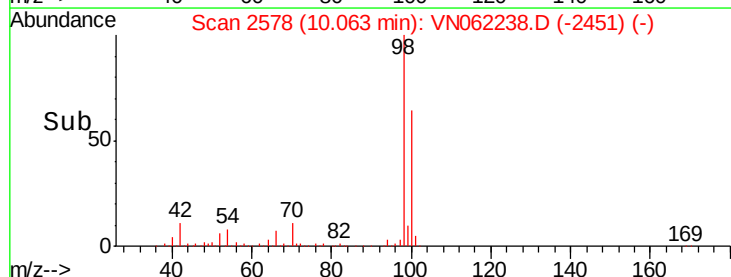
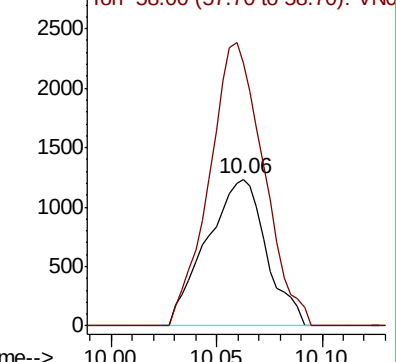
Ion Ratio Lower Upper

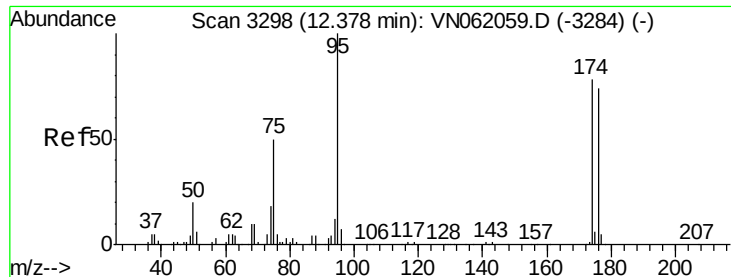
43 100

58 176.4 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VN062238.D (-2451) (-)

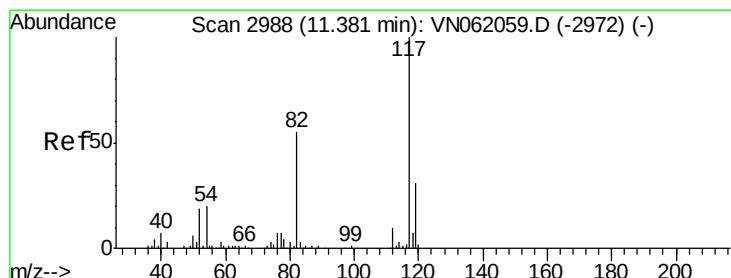
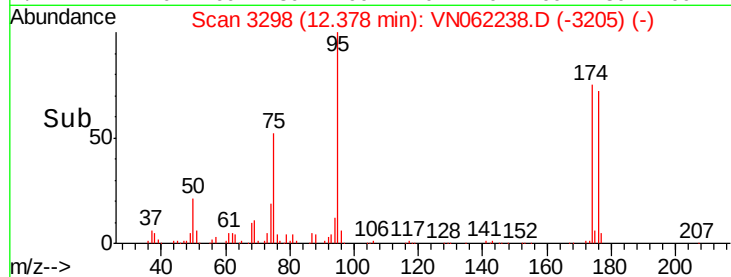
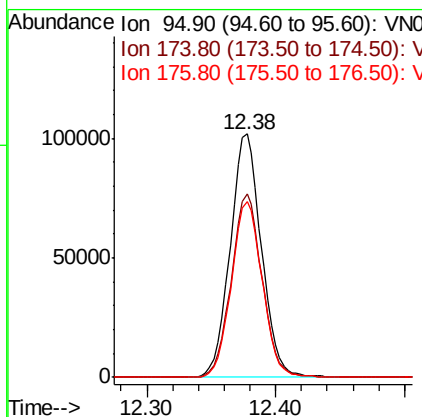
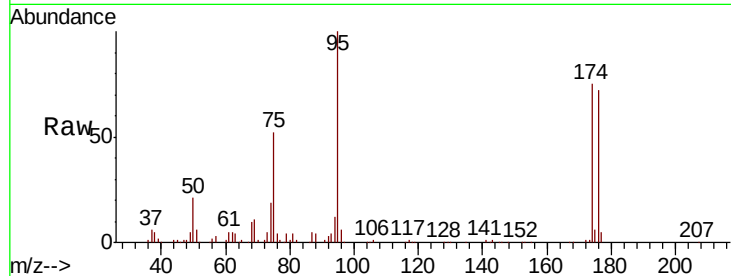




#62
4-Bromofluorobenzene
Concen: 48.736 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062238.D
Acq: 30 Jun 2020 14:38

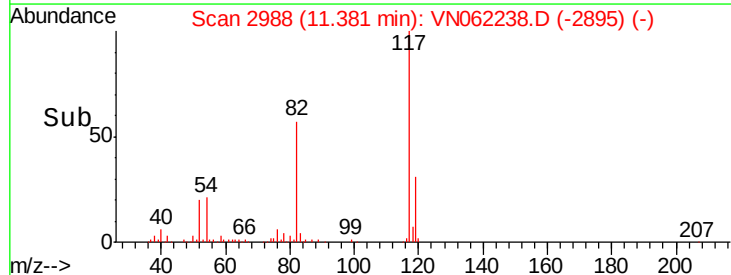
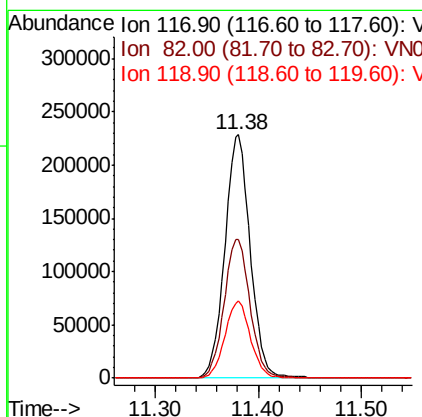
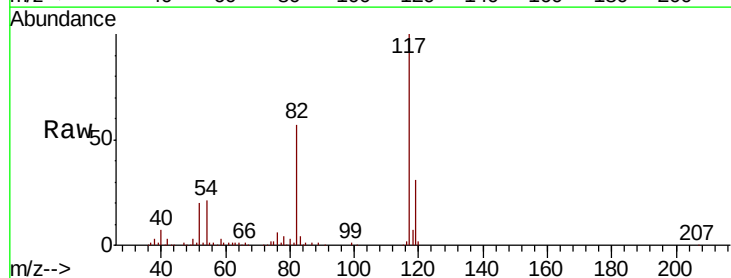
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-EB-20200626

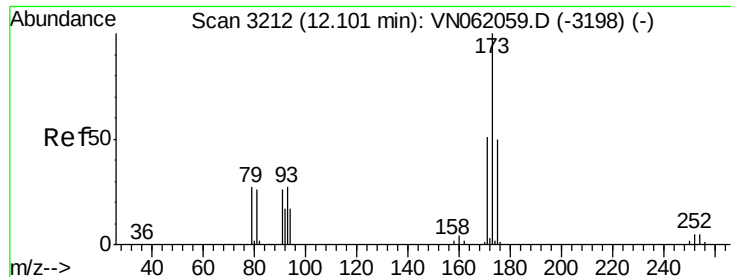
Tot Ion: 95 Resp: 170977
Ion Ratio Lower Upper
95 100
174 74.6 0.0 154.8
176 71.6 0.0 147.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062238.D
Acq: 30 Jun 2020 14:38

Tgt Ion: 117 Resp: 392007
Ion Ratio Lower Upper
117 100
82 56.9 43.8 65.8
119 31.5 25.2 37.8





#71

Bromoform

Concen: 0.761 ug/l

RT: 12.37 min Scan# 3296

Delta R.T. 0.27 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-EB-20200626

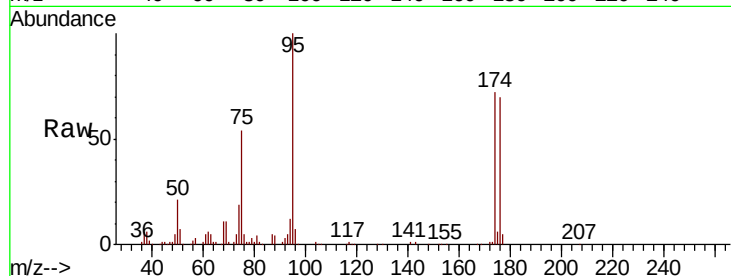
Tot Ion:173 Resp: 1611

Ion Ratio Lower Upper

173 100

175 526.9 24.7 74.1#

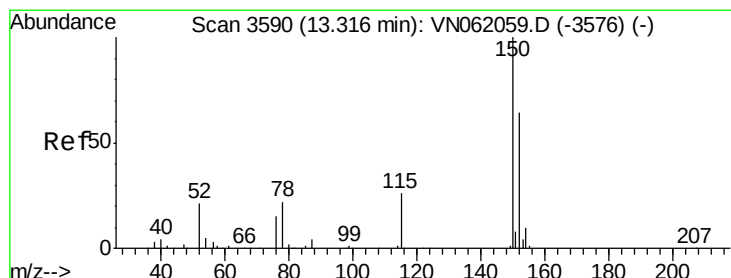
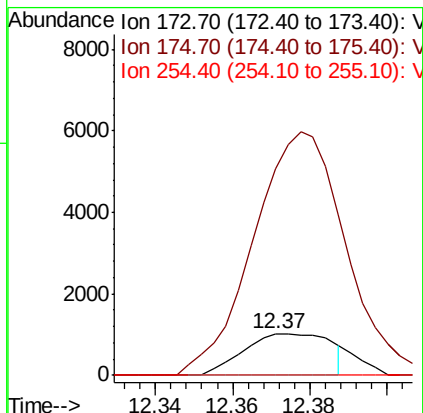
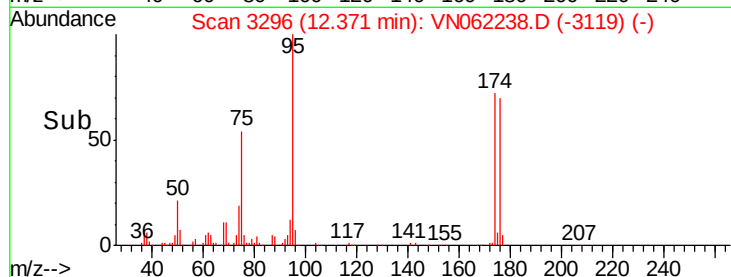
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

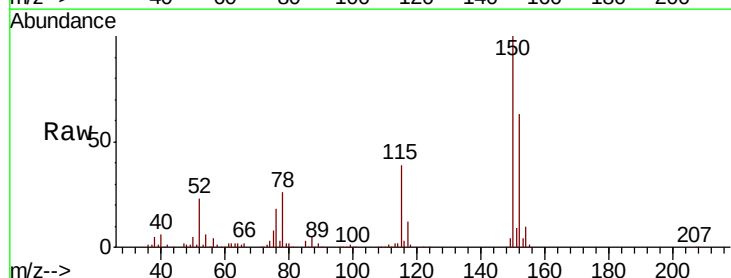
Tgt Ion:152 Resp: 148621

Ion Ratio Lower Upper

152 100

115 61.2 29.5 88.5

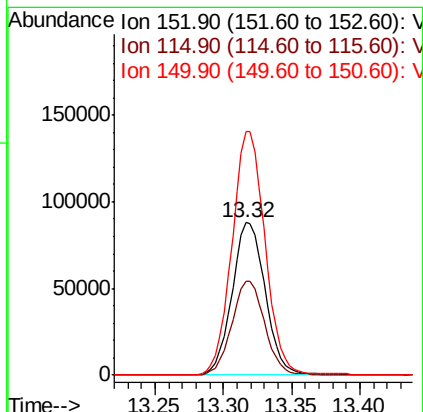
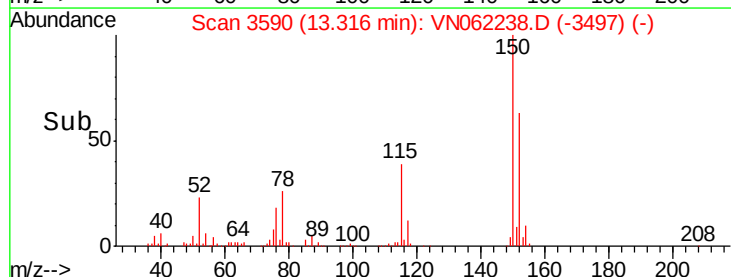
150 159.5 0.0 351.4

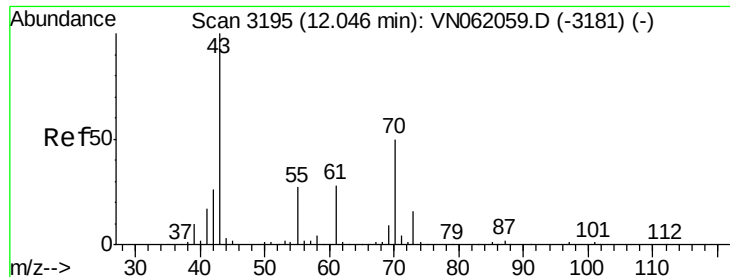


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.357 ug/l

RT: 12.06 min Scan# 3198

Delta R.T. 0.01 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

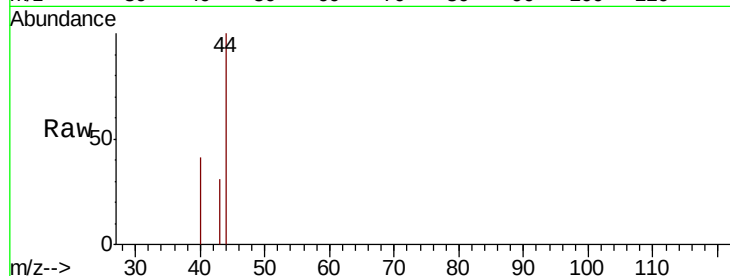
Instrument :

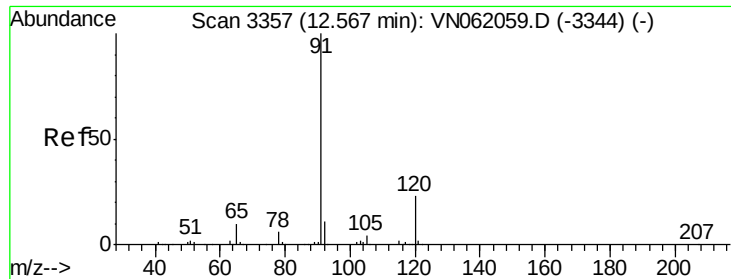
MSVOA_N

ClientSampleId :

BP-MW180-EB-20200626

Tot Ion:	43	Resp:	61
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#





#78

n-propylbenzene

Concen: 0.737 ug/l

RT: 12.65 min Scan# 3382

Delta R.T. 0.08 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

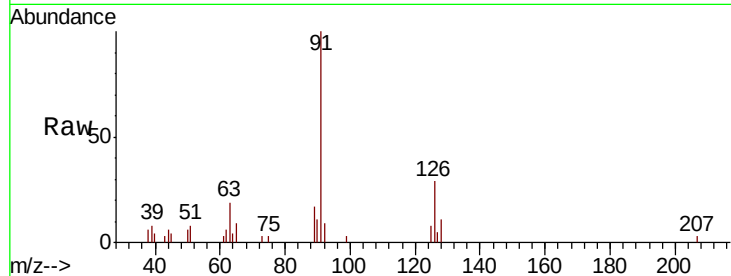
BP-MW180-EB-20200626

Tot Ion: 91 Resp: 9704

Ion Ratio Lower Upper

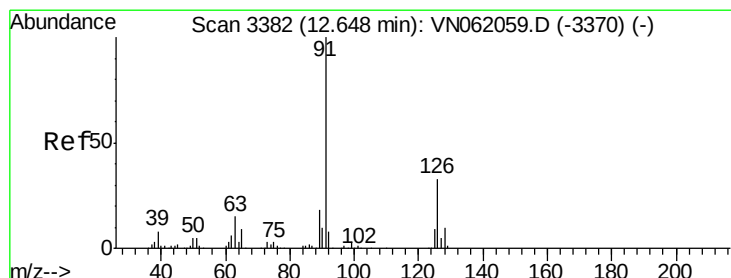
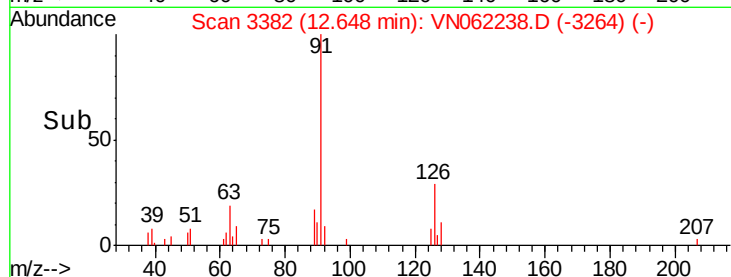
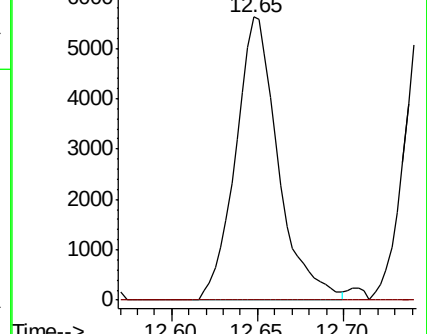
91 100

120 0.0 11.4 34.1#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 1.220 ug/l

RT: 12.65 min Scan# 3382

Delta R.T. 0.00 min

Lab File: VN062238.D

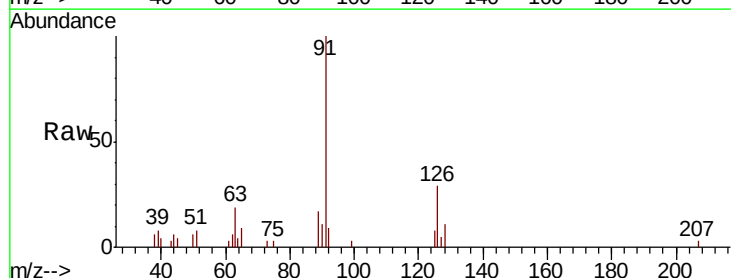
Acq: 30 Jun 2020 14:38

Tgt Ion: 91 Resp: 9704

Ion Ratio Lower Upper

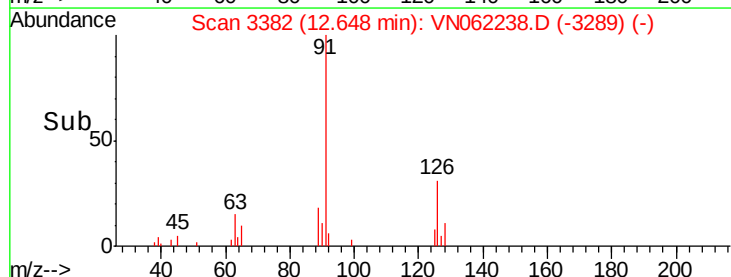
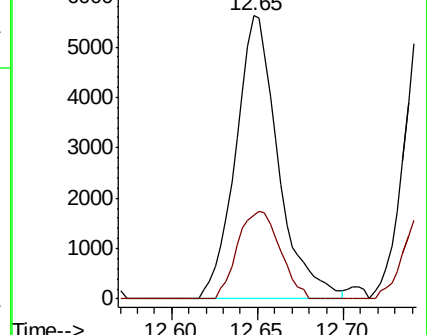
91 100

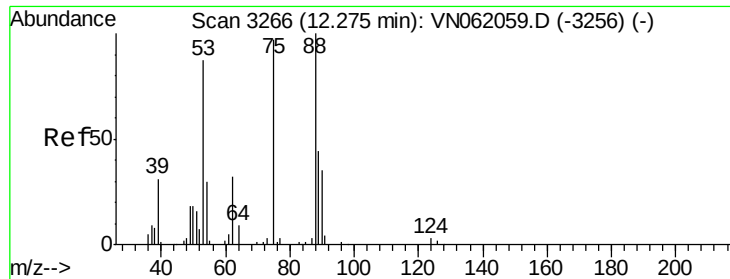
126 30.8 16.9 50.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.769 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-EB-20200626

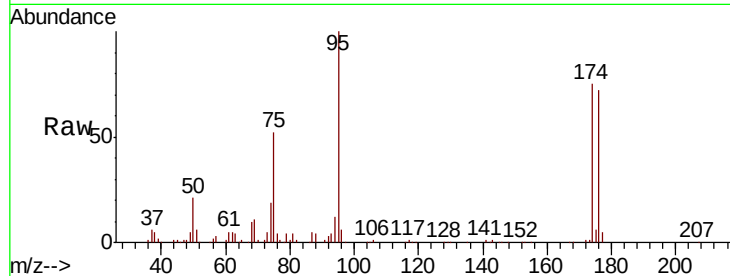
Tot Ion: 75 Resp: 89574

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

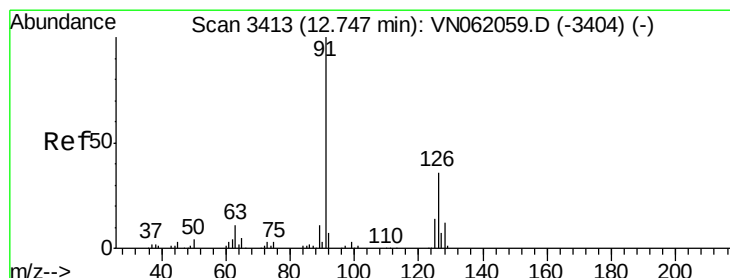
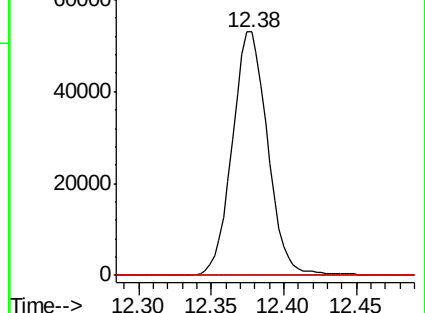
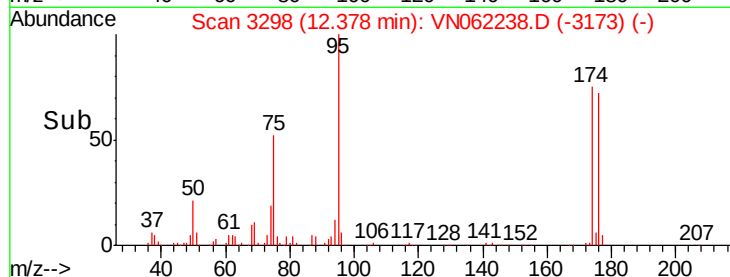
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 1.386 ug/l

RT: 12.75 min Scan# 3413

Delta R.T. 0.00 min

Lab File: VN062238.D

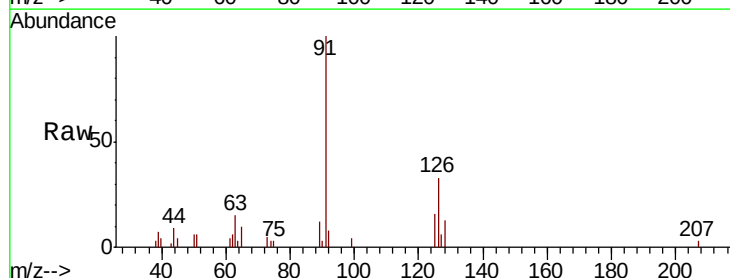
Acq: 30 Jun 2020 14:38

Tgt Ion: 91 Resp: 11401

Ion Ratio Lower Upper

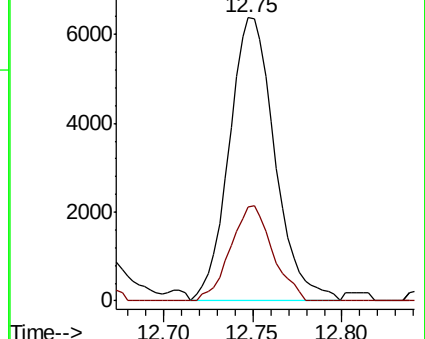
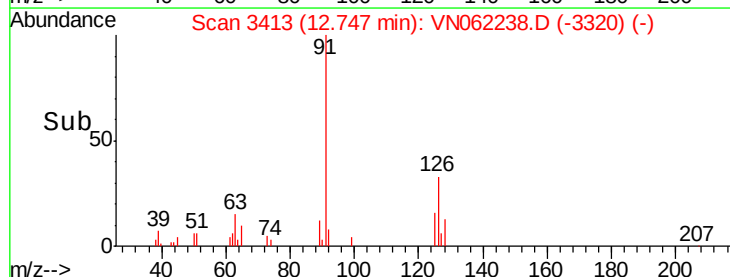
91 100

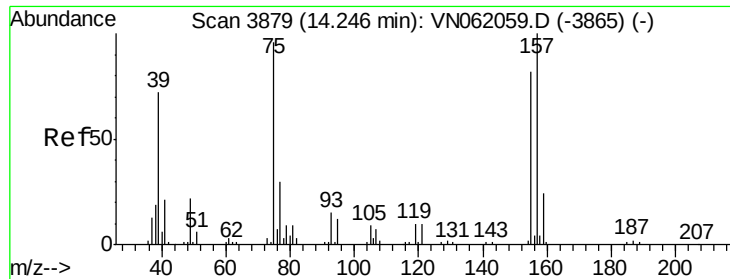
126 30.9 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.533 ug/l

RT: 14.35 min Scan# 3910

Delta R.T. 0.10 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-EB-20200626

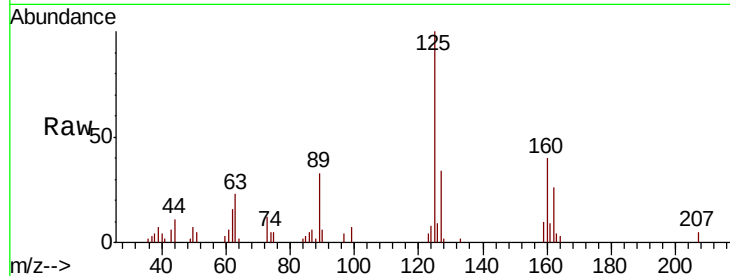
Tot Ion: 75 Resp: 940

Ion Ratio Lower Upper

75 100

155 0.0 40.8 122.4#

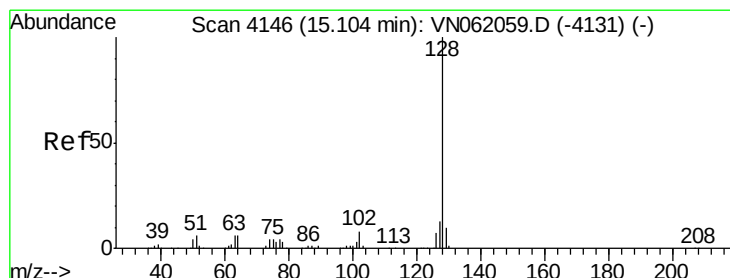
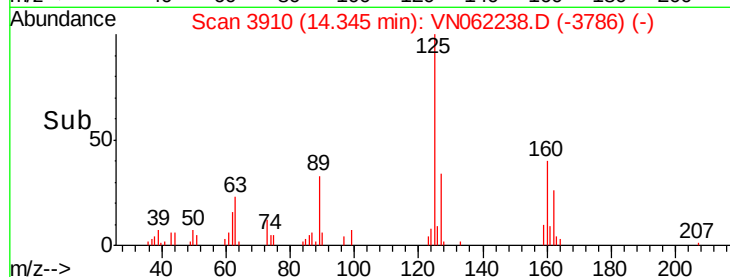
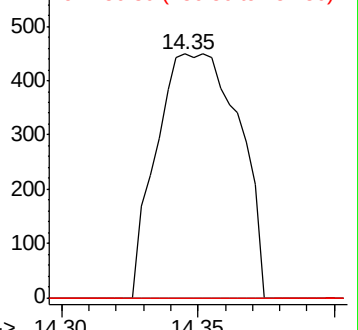
157 0.0 51.4 154.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 4.114 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

Lab File: VN062238.D

Acq: 30 Jun 2020 14:38

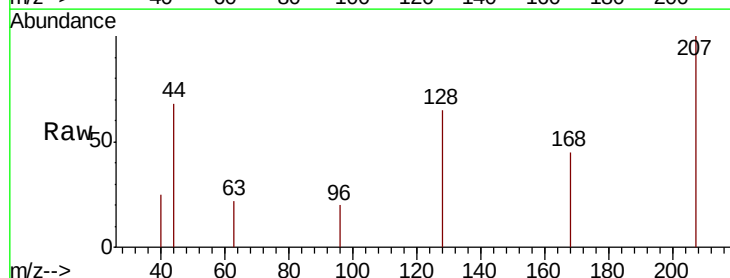
Tgt Ion: 128 Resp: 917

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 13.0#



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

