

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082520\
 Data File : VN063113.D
 Acq On : 25 Aug 2020 14:27
 Operator : JC/MD
 Sample : L3783-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-GW-588-590

Quant Time: Aug 26 05:39:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	134498	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	221959	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	235489	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	96489	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	90198	56.58	ug/l	0.00
Spiked Amount			Recovery	=	113.16%	
35) Dibromofluoromethane	7.55	113	75725	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
50) Toluene-d8	10.06	98	284682	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	12.38	95	102592	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	

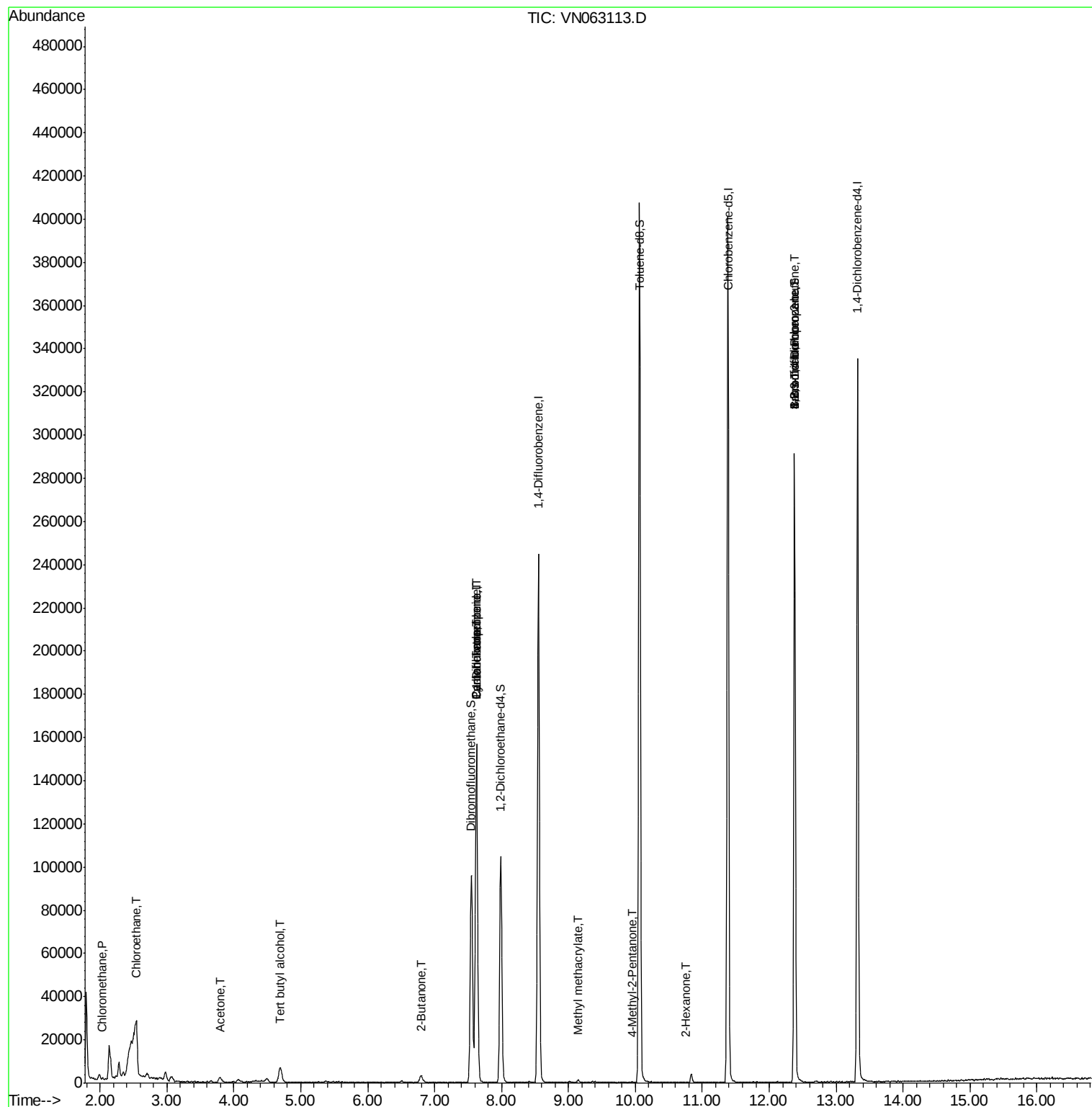
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	968	0.525	ug/l #	87
6) Chloroethane	2.53	64	316	0.300	ug/l #	43
11) Tert butyl alcohol	4.68	59	3433	15.204	ug/l #	74
16) Acetone	3.79	43	5247	6.739	ug/l	92
20) Methylene Chloride	4.49	84	1326	Below Cal		95
25) 2-Butanone	6.81	43	1521	1.797	ug/l #	48
31) Cyclohexane	7.63	56	2588	1.102	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	10060	5.143	ug/l #	48
38) Carbon Tetrachloride	7.63	117	12118	6.136	ug/l #	17
48) Methyl methacrylate	9.14	41	465	0.324	ug/l #	14
51) 4-Methyl-2-Pentanone	9.95	43	586	0.305	ug/l #	35
59) 2-Hexanone	10.74	43	338	0.252	ug/l #	23
71) Bromoform	12.38	173	790	0.540	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	49748	26.525	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	49748	72.849	ug/l #	15

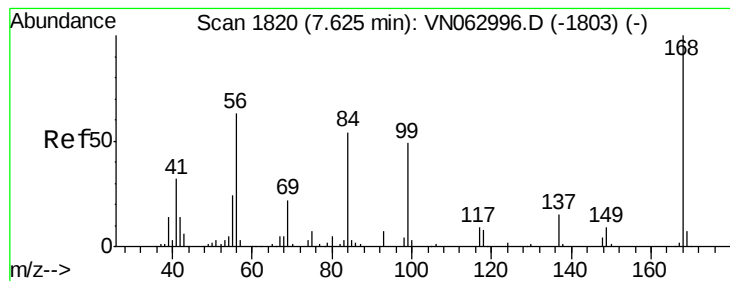
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Instrument :

MSVOA_N

ClientSampleId :

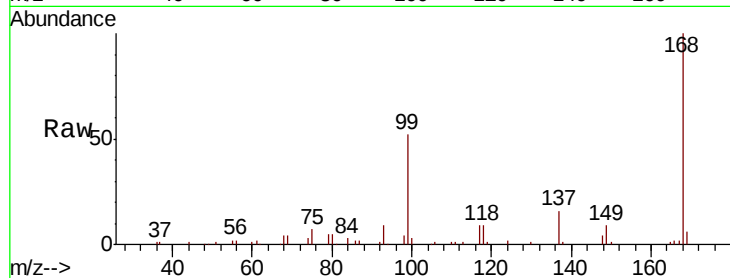
BP-VPB181-GW-588-590

Tot Ion:168 Resp: 134498

Ion Ratio Lower Upper

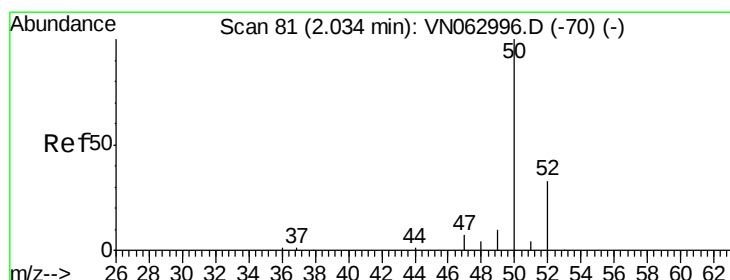
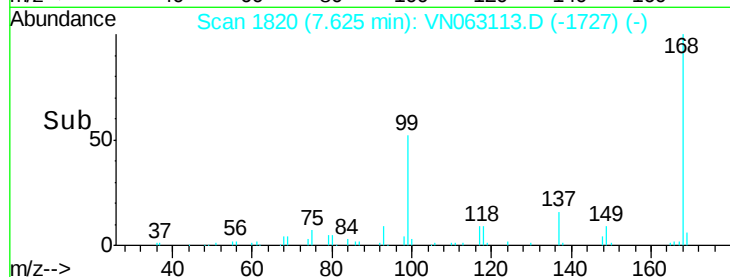
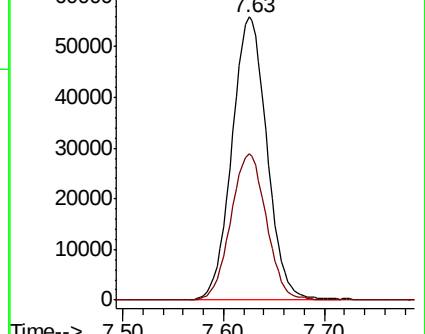
168 100

99 51.6 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.525 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN063113.D

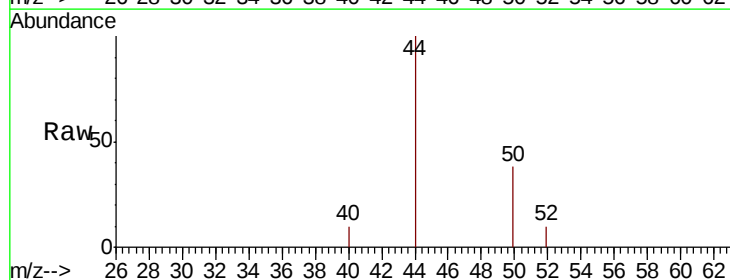
Acq: 25 Aug 2020 14:27

Tgt Ion: 50 Resp: 968

Ion Ratio Lower Upper

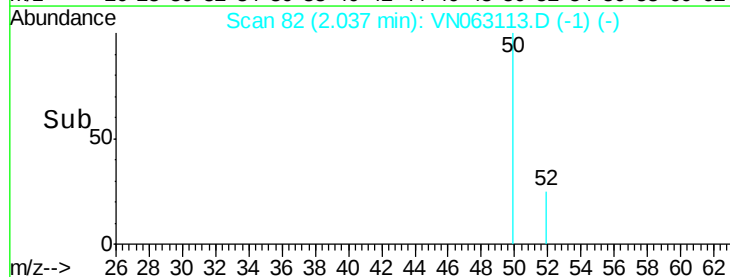
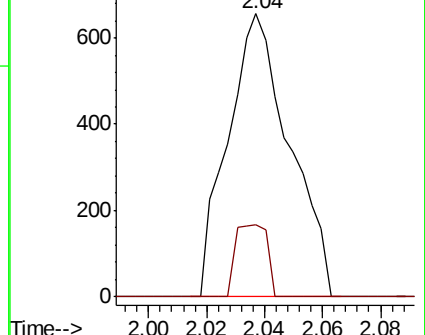
50 100

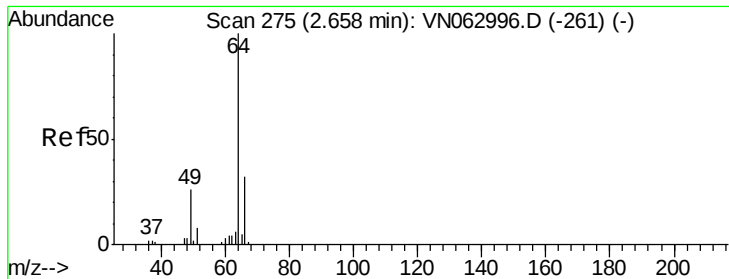
52 25.3 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#6

Chloroethane

Concen: 0.300 ug/l

RT: 2.53 min Scan# 234

Delta R.T. -0.13 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Instrument :

MSVOA_N

ClientSampleId :

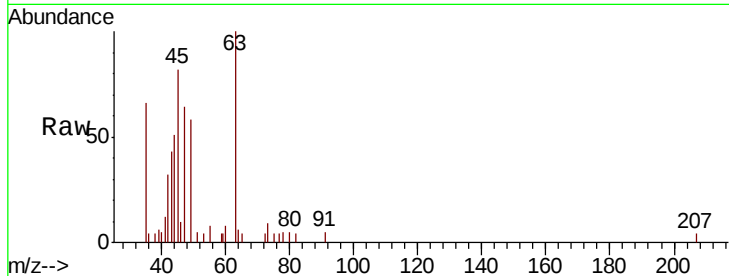
BP-VPB181-GW-588-590

Tot Ion: 64 Resp: 316

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



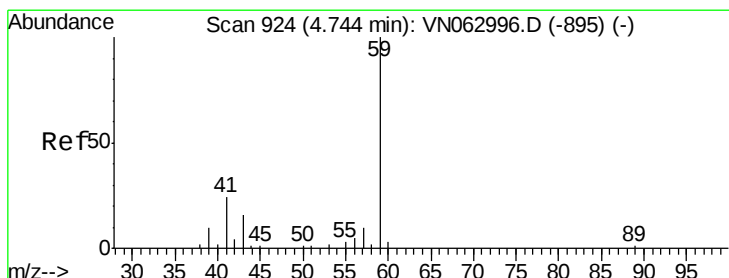
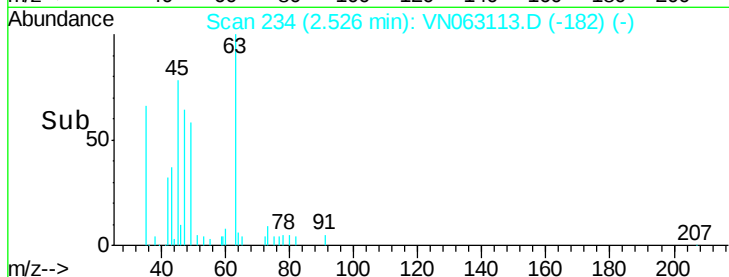
Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.53

2.52 2.54

Time-->



#11

Tert butyl alcohol

Concen: 15.204 ug/l

RT: 4.68 min Scan# 904

Delta R.T. -0.06 min

Lab File: VN063113.D

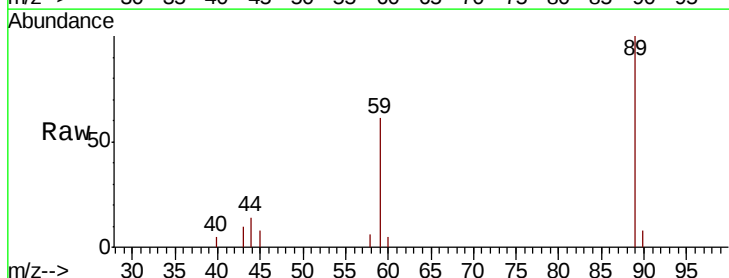
Acq: 25 Aug 2020 14:27

Tgt Ion: 59 Resp: 3433

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



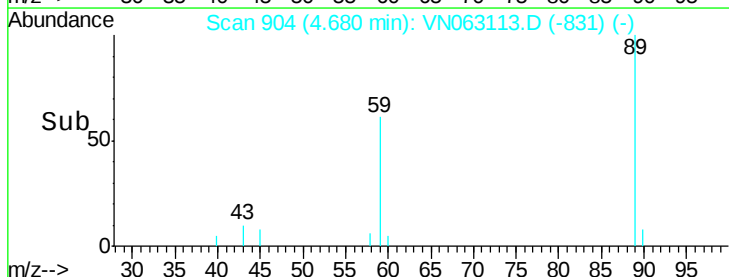
Abundance Ion 59.00 (58.70 to 59.70): VN0

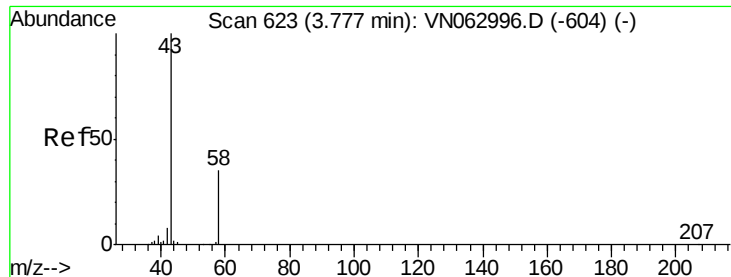
Ion 57.00 (56.70 to 57.70): VN0

4.68

4.65 4.70

Time-->





#16

Acetone

Concen: 6.739 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Instrument :

MSVOA_N

ClientSampleId :

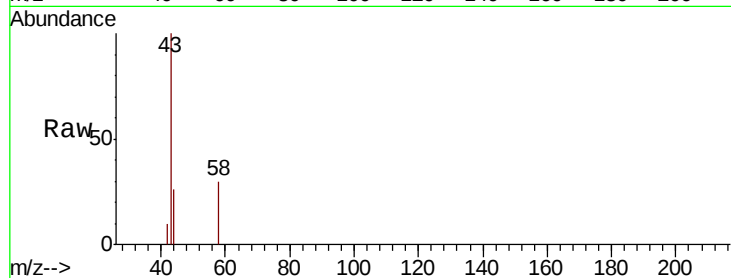
BP-VPB181-GW-588-590

Tot Ion: 43 Resp: 5247

Ion Ratio Lower Upper

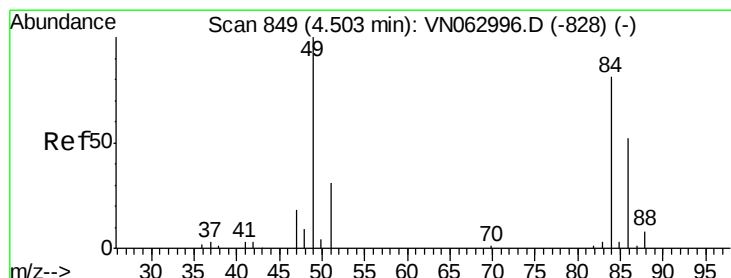
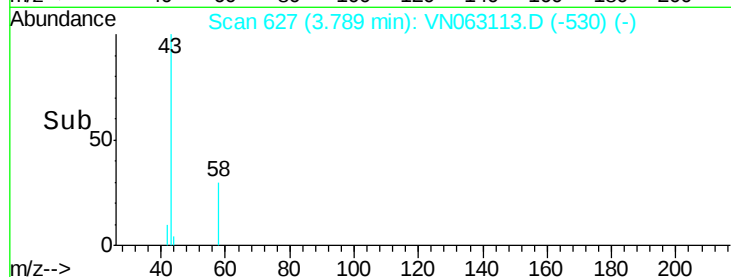
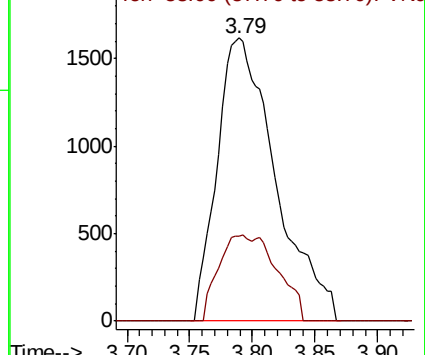
43 100

58 30.0 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: Below Cal

RT: 4.49 min Scan# 846

Delta R.T. -0.01 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Tgt Ion: 84 Resp: 1326

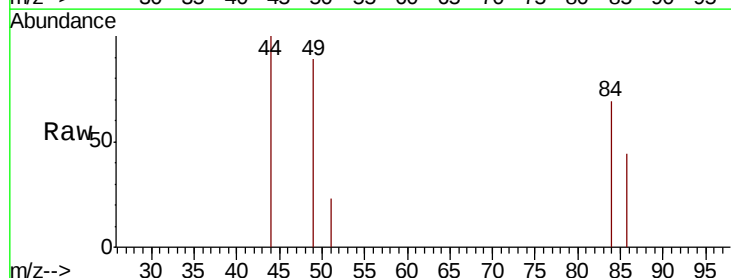
Ion Ratio Lower Upper

84 100

49 129.8 98.7 148.1

51 33.4 30.8 46.2

86 63.8 51.2 76.8

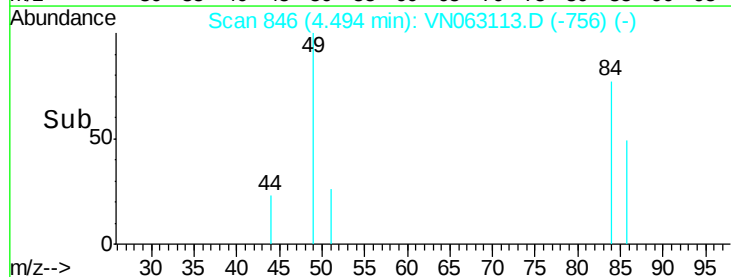
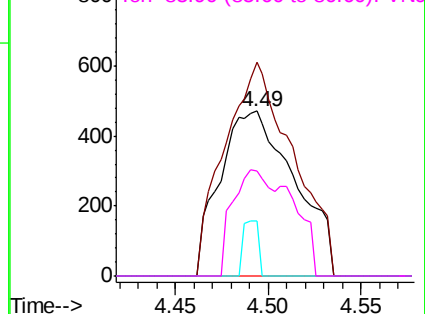


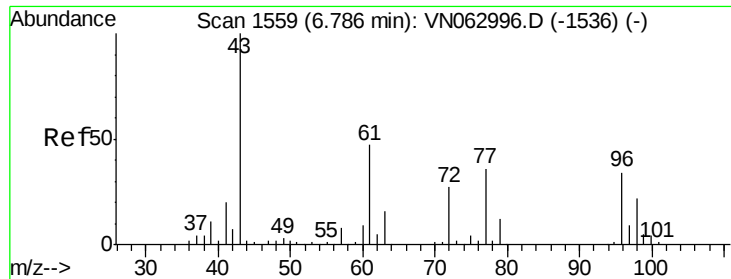
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

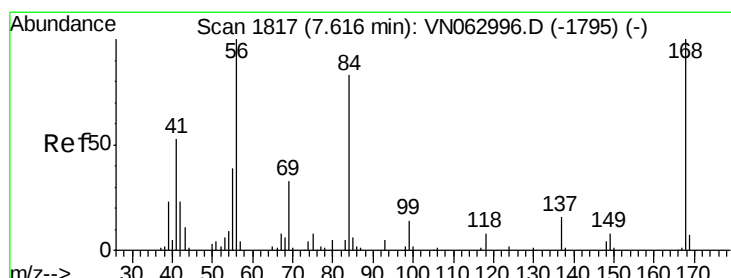
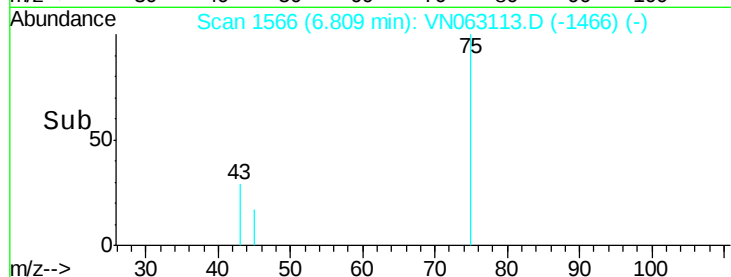
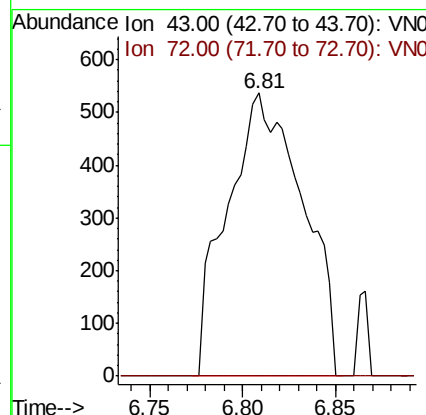
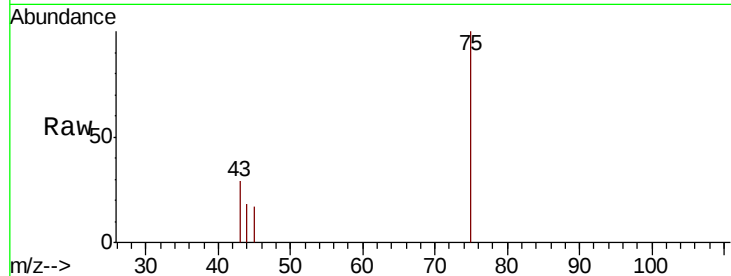




#25
2-Butanone
Concen: 1.797 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.02 min
Lab File: VN063113.D
Acq: 25 Aug 2020 14:27

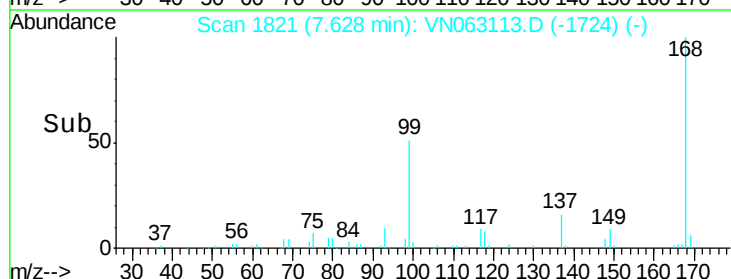
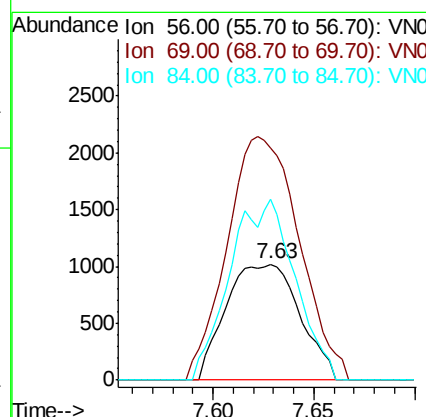
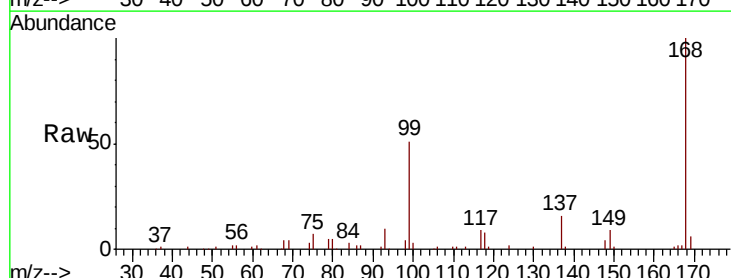
Instrument :
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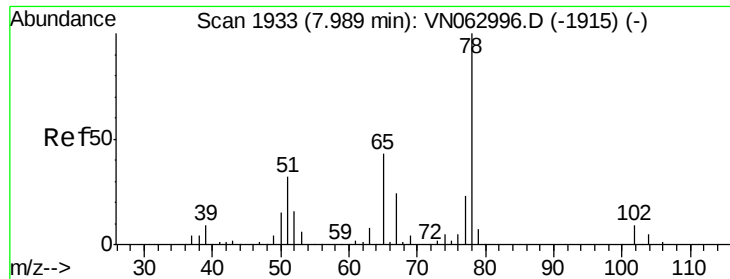
Tot Ion: 43 Resp: 1521
Ion Ratio Lower Upper
43 100
72 0.0 21.8 32.6#



#31
Cyclohexane
Concen: 1.102 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.01 min
Lab File: VN063113.D
Acq: 25 Aug 2020 14:27

Tgt Ion: 56 Resp: 2588
Ion Ratio Lower Upper
56 100
69 182.9 26.6 40.0#
84 155.9 66.4 99.6#

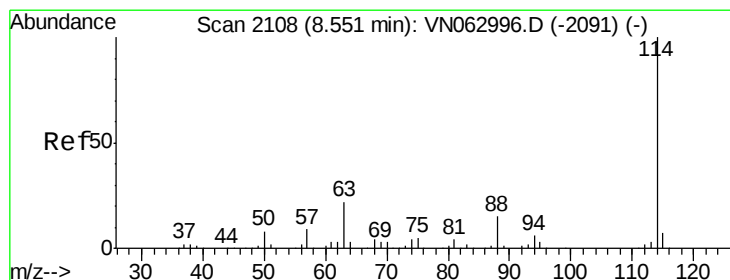
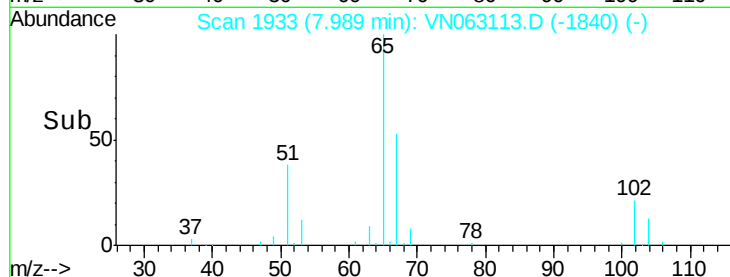
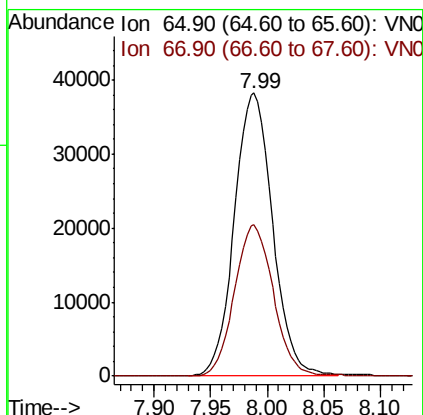
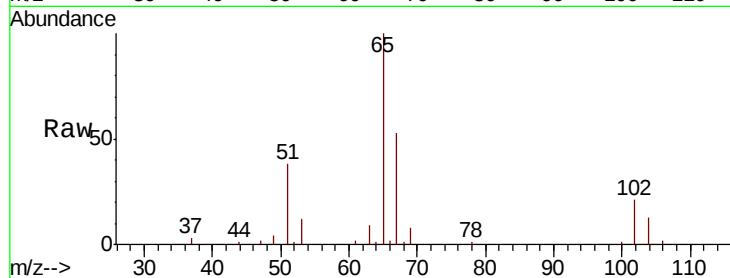




#33
 1,2-Dichloroethane-d4
 Concen: 56.584 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN063113.D
 Acq: 25 Aug 2020 14:27

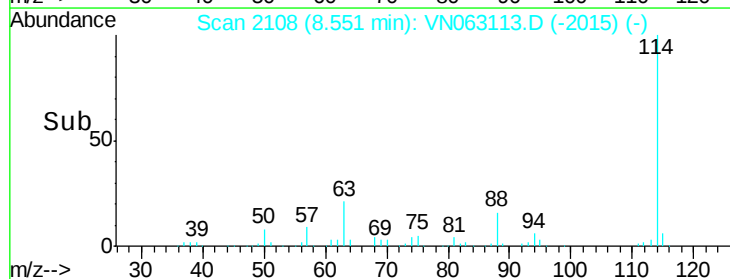
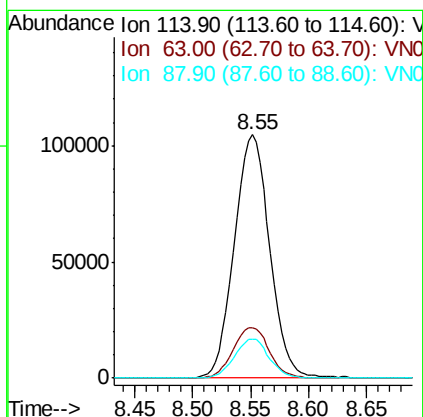
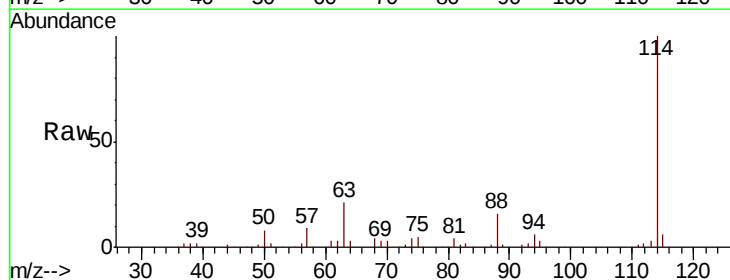
Instrument :
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 BP-VPB181-GW-588-590

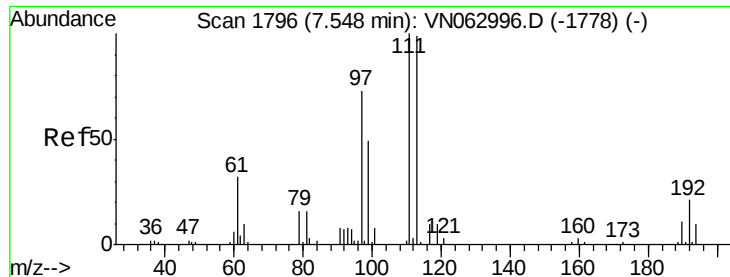
Tot Ion: 65 Resp: 90198
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN063113.D
 Acq: 25 Aug 2020 14:27

Tgt Ion: 114 Resp: 221959
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 43.2
 88 16.2 0.0 30.6

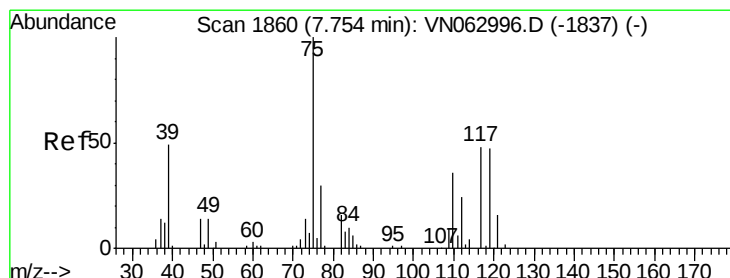
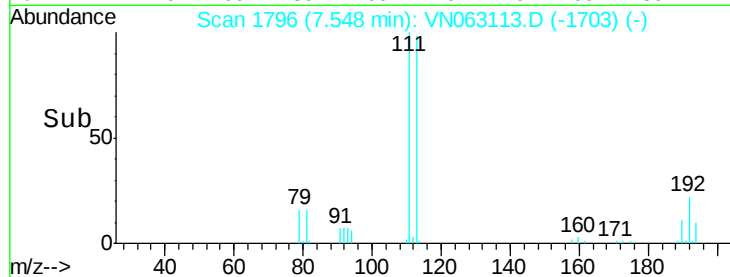
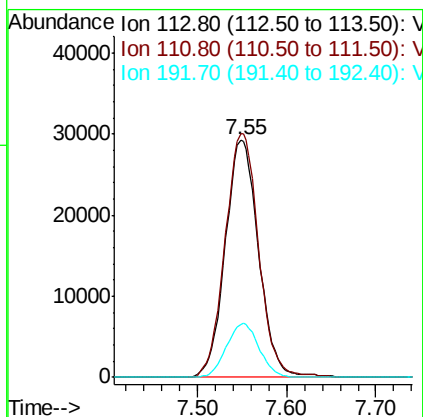
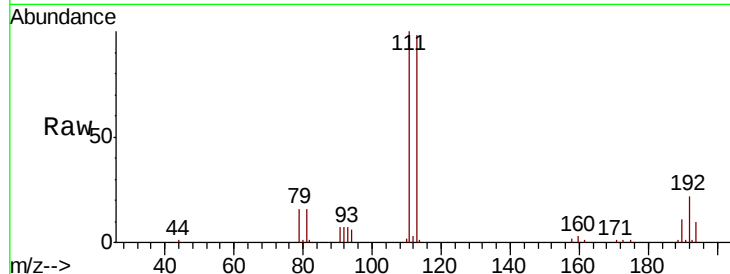




#35
 Dibromofluoromethane
 Concen: 52.359 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN063113.D
 Acq: 25 Aug 2020 14:27

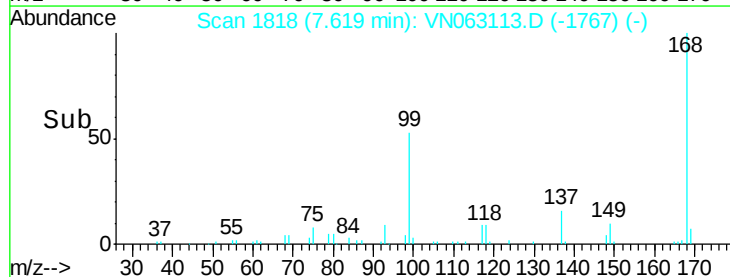
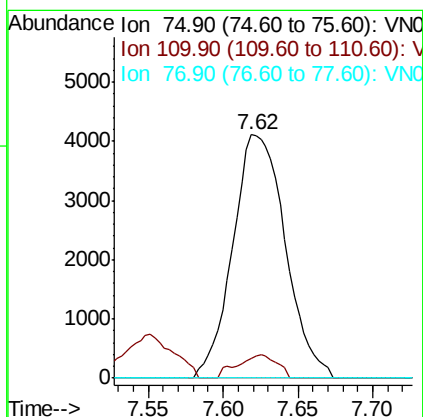
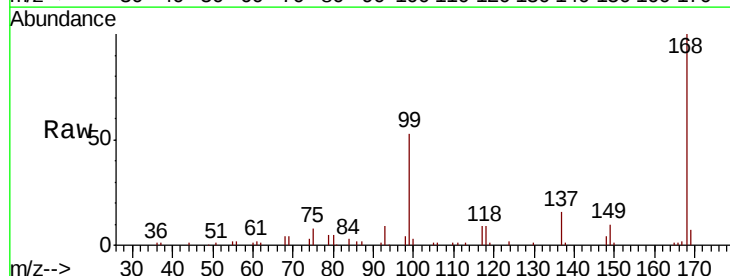
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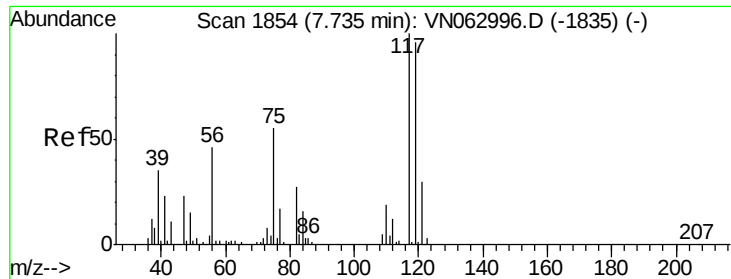
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.7	122.5
192	22.1	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 5.143 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.14 min
 Lab File: VN063113.D
 Acq: 25 Aug 2020 14:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.2	17.5	52.6#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 6.136 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-588-590

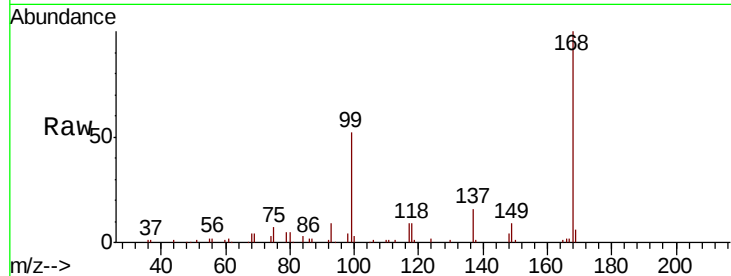
Tot Ion:117 Resp: 12118

Ion Ratio Lower Upper

117 100

119 6.2 76.2 114.4#

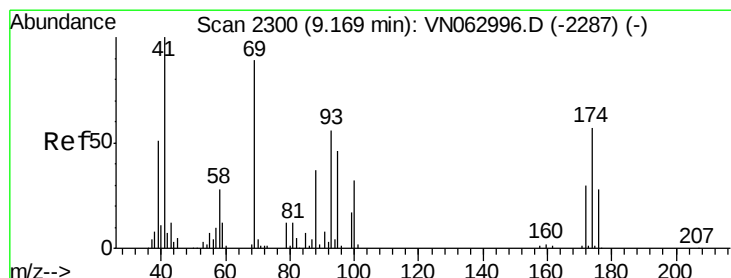
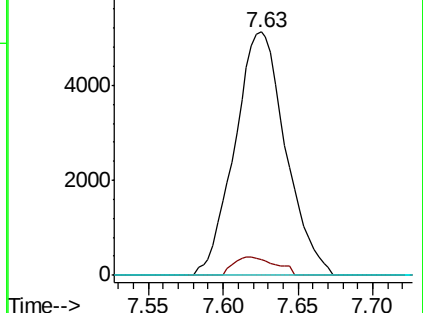
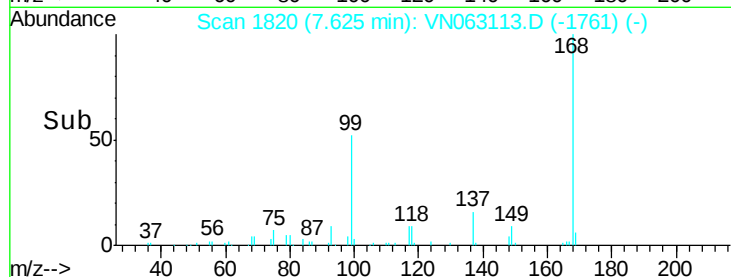
121 0.0 24.2 36.2#



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



#48

Methyl methacrylate

Concen: 0.324 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.03 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

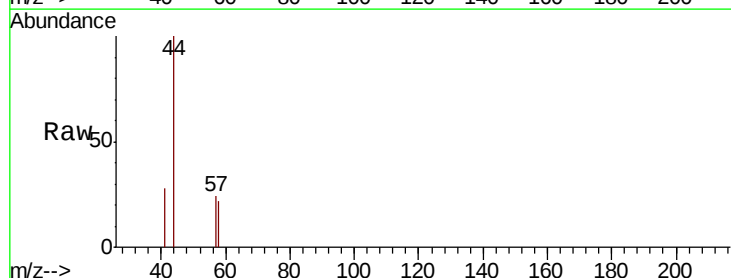
Tgt Ion: 41 Resp: 465

Ion Ratio Lower Upper

41 100

69 0.0 74.2 111.4#

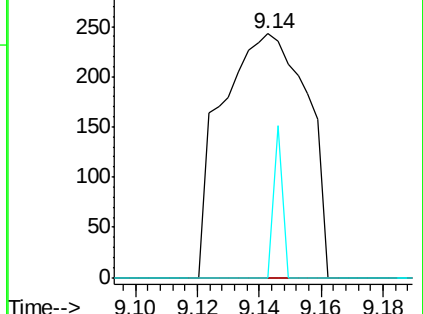
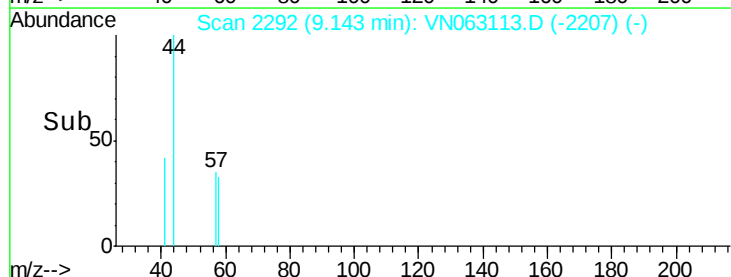
39 6.2 42.5 63.7#

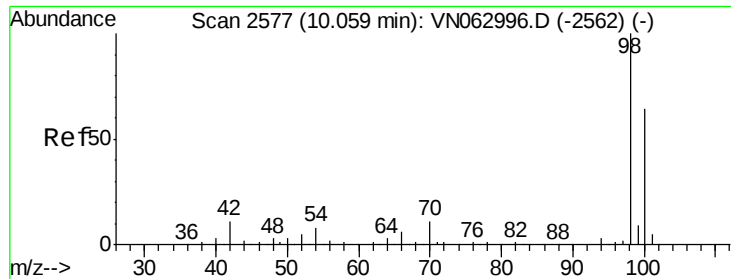


Abundance Ion 41.00 (40.70 to 41.70): V

Ion 69.00 (68.70 to 69.70): V

Ion 39.00 (38.70 to 39.70): V





#50

Toluene-d8

Concen: 51.246 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Instrument :

MSVOA_N

ClientSampleId :

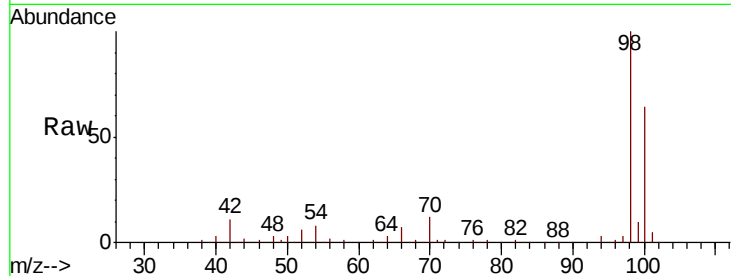
BP-VPB181-GW-588-590

Tot Ion: 98 Resp: 284682

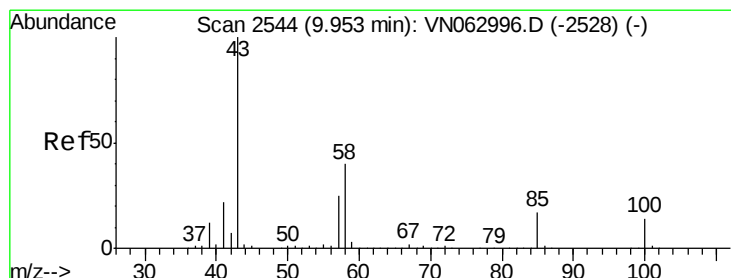
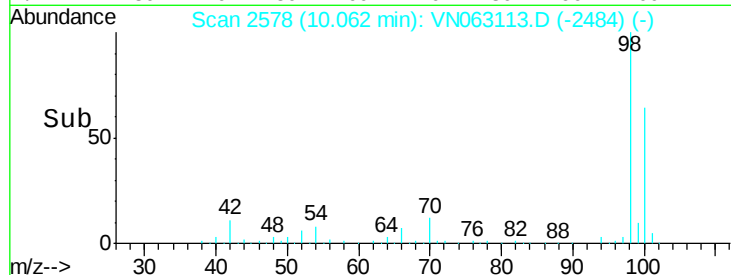
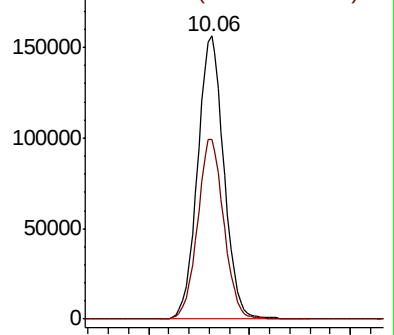
Ion Ratio Lower Upper

98 100

100 63.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062996.D (-2562) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.305 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN063113.D

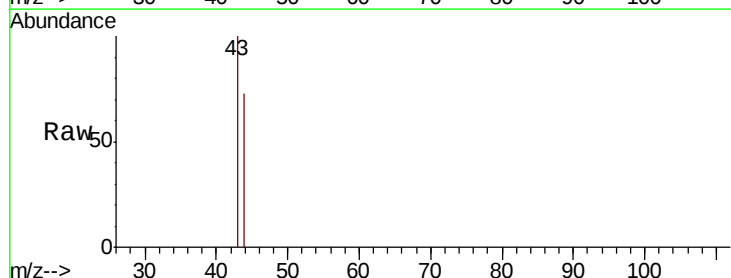
Acq: 25 Aug 2020 14:27

Tgt Ion: 43 Resp: 586

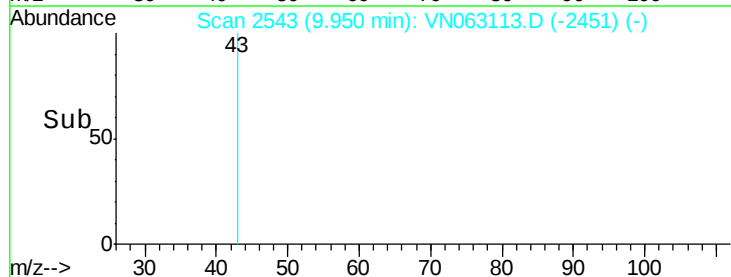
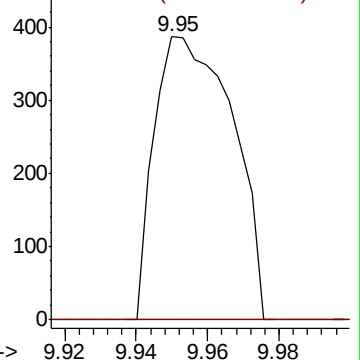
Ion Ratio Lower Upper

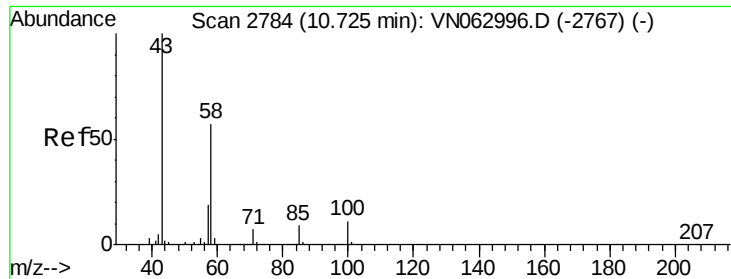
43 100

58 0.0 32.2 48.2#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-2528) (-)





#59

2-Hexanone

Concen: 0.252 ug/l

RT: 10.74 min Scan# 2790

Delta R.T. 0.02 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Instrument :

MSVOA_N

ClientSampleId :

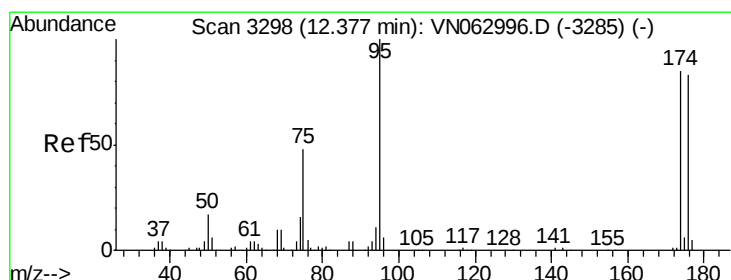
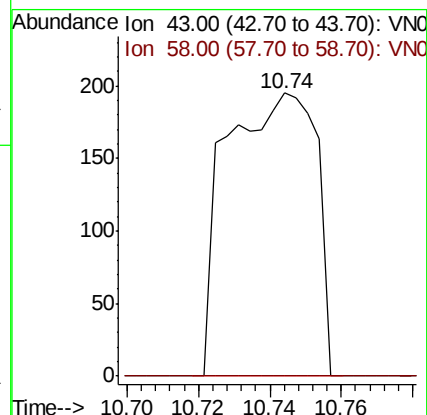
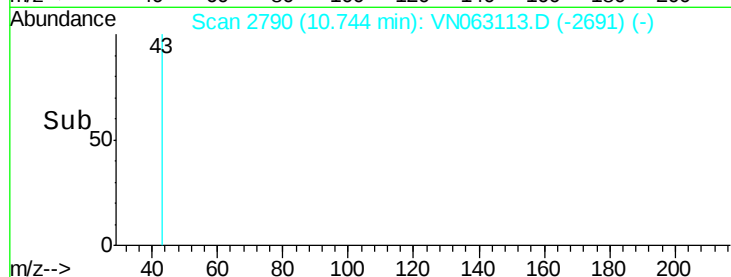
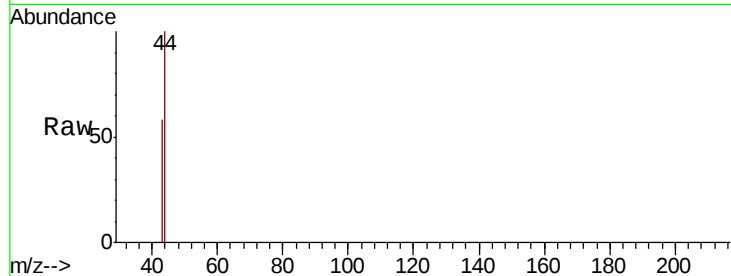
BP-VPB181-GW-588-590

Tot Ion: 43 Resp: 338

Ion Ratio Lower Upper

43 100

58 0.0 28.1 84.3#



#62

4-Bromofluorobenzene

Concen: 52.334 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.00 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

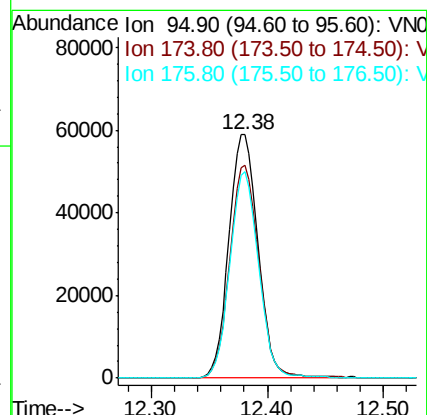
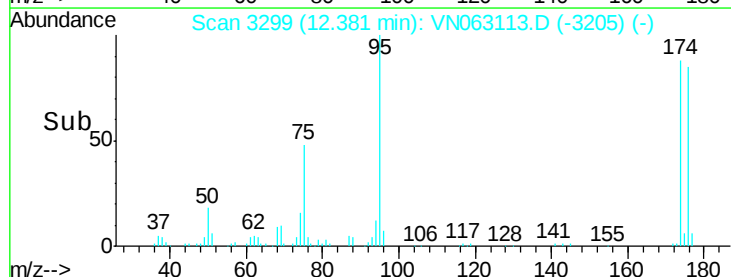
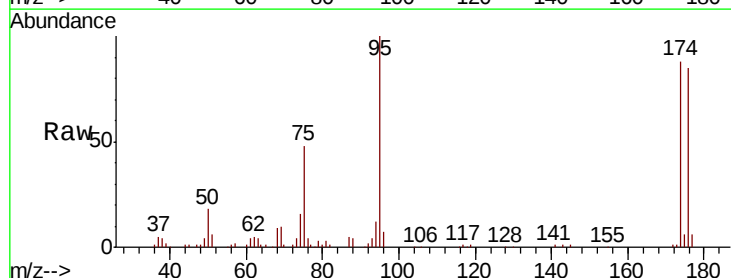
Tgt Ion: 95 Resp: 102592

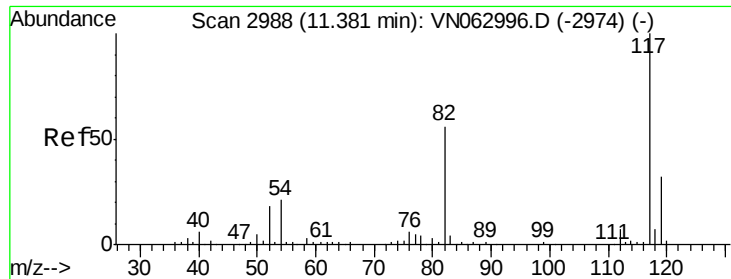
Ion Ratio Lower Upper

95 100

174 86.8 0.0 170.8

176 83.1 0.0 164.8

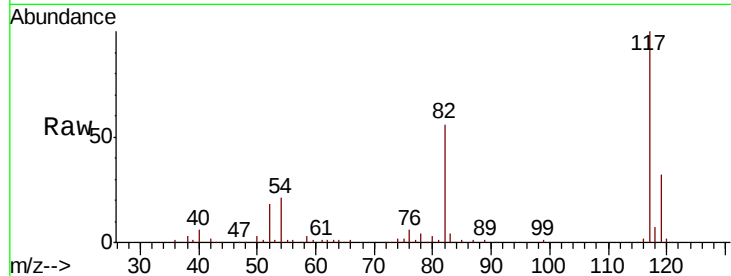




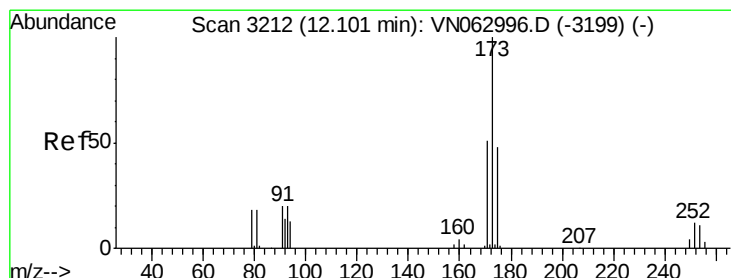
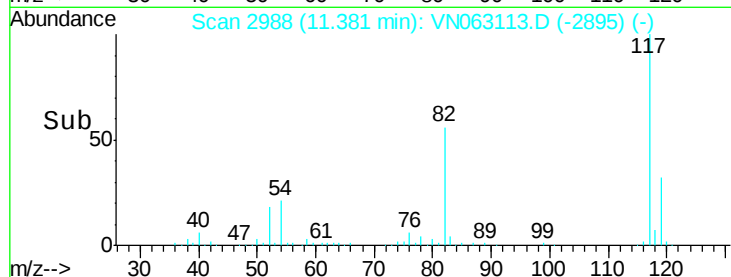
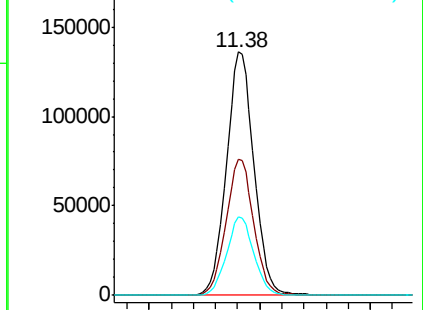
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN063113.D
Acq: 25 Aug 2020 14:27

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-GW-588-590

Tot Ion:117 Resp: 235489
Ion Ratio Lower Upper
117 100
82 55.8 44.5 66.7
119 32.1 25.5 38.3

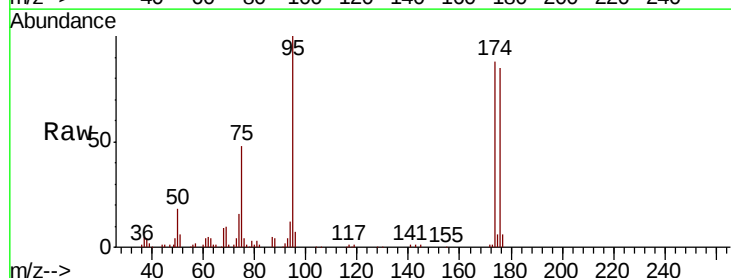


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

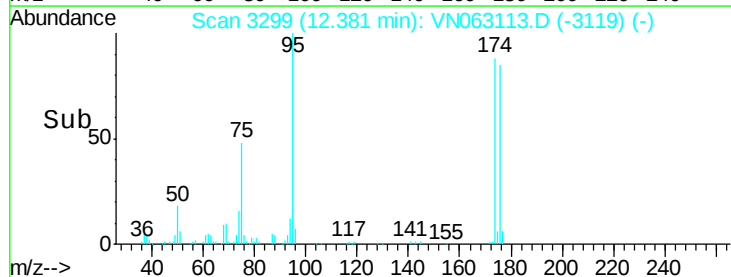
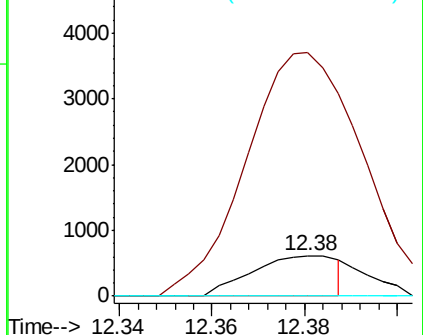


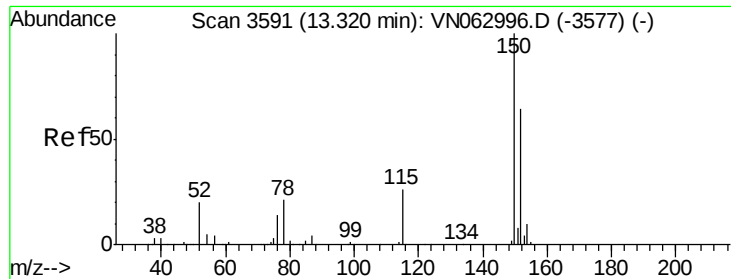
#71
Bromoform
Concen: 0.540 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN063113.D
Acq: 25 Aug 2020 14:27

Tgt Ion:173 Resp: 790
Ion Ratio Lower Upper
173 100
175 631.6 24.3 72.8#
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# 3591

Delta R.T. 0.00 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-588-590

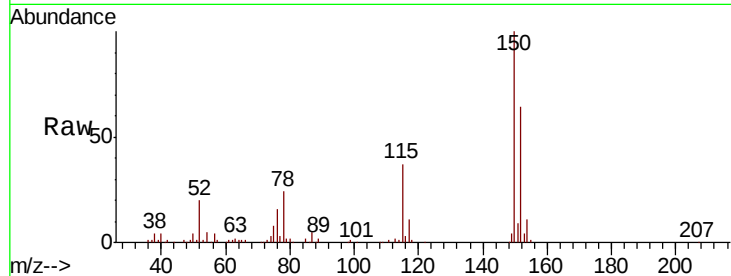
Tot Ion:152 Resp: 96489

Ion Ratio Lower Upper

152 100

115 55.7 28.7 86.3

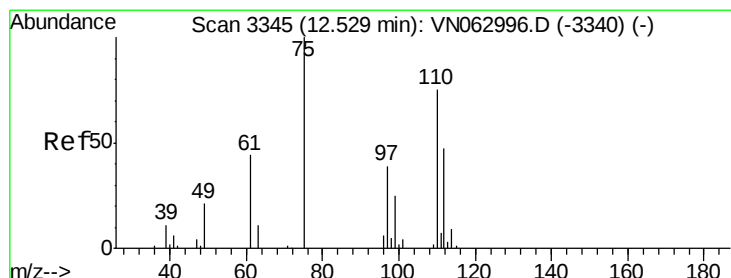
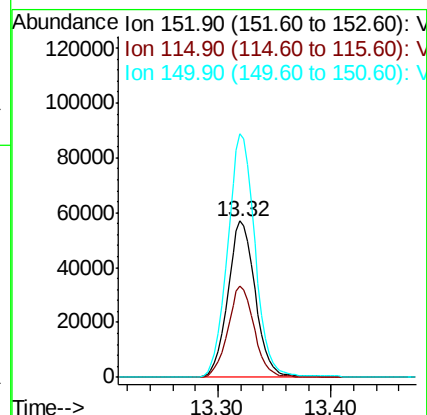
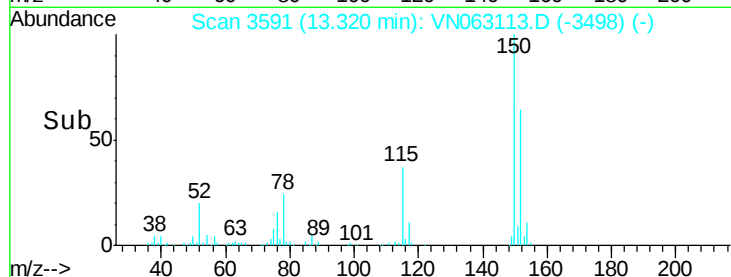
150 154.1 0.0 348.8



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: 26.525 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063113.D

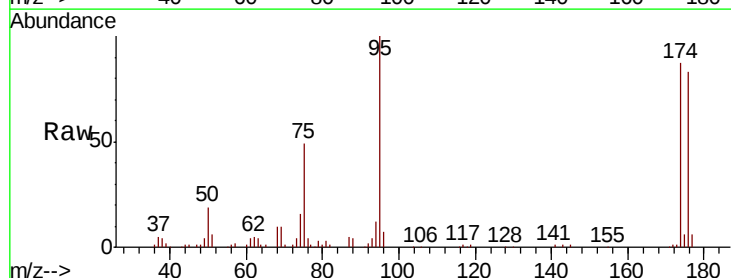
Acq: 25 Aug 2020 14:27

Tgt Ion: 75 Resp: 49748

Ion Ratio Lower Upper

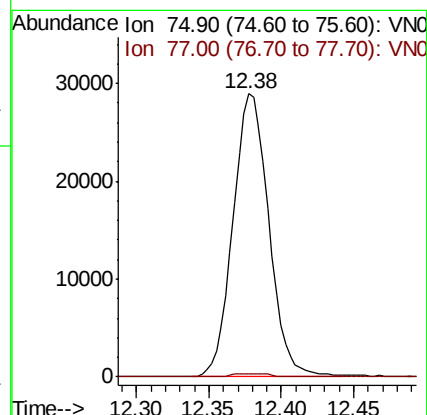
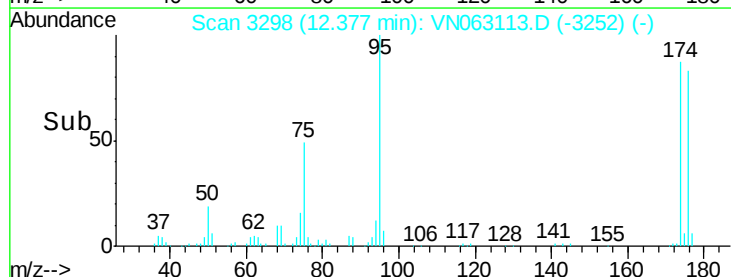
75 100

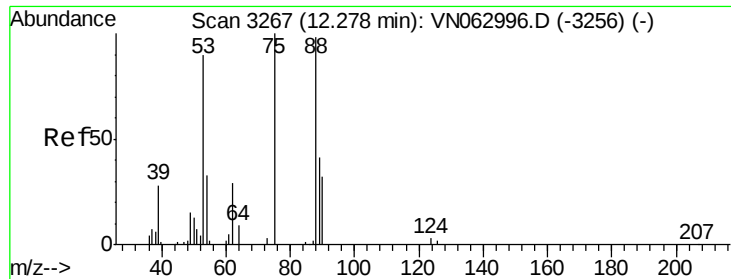
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 72.849 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063113.D

Acq: 25 Aug 2020 14:27

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-588-590

Tot Ion: 75 Resp: 49748

Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

89 0.0 34.2 51.4#

