

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\  
 Data File : VN062143.D  
 Acq On : 26 Jun 2020 16:37  
 Operator : JC/MD  
 Sample : L3127-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BRP1-20200625

Quant Time: Jun 27 03:43:24 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  | 216603   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 401523   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 380458   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 140483   | 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   | 151887   | 49.97 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.94% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 128025   | 49.70 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.40% |          |
| 50) Toluene-d8              | 10.06 | 98   | 500811   | 48.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.28% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 164531   | 47.29 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.58% |          |

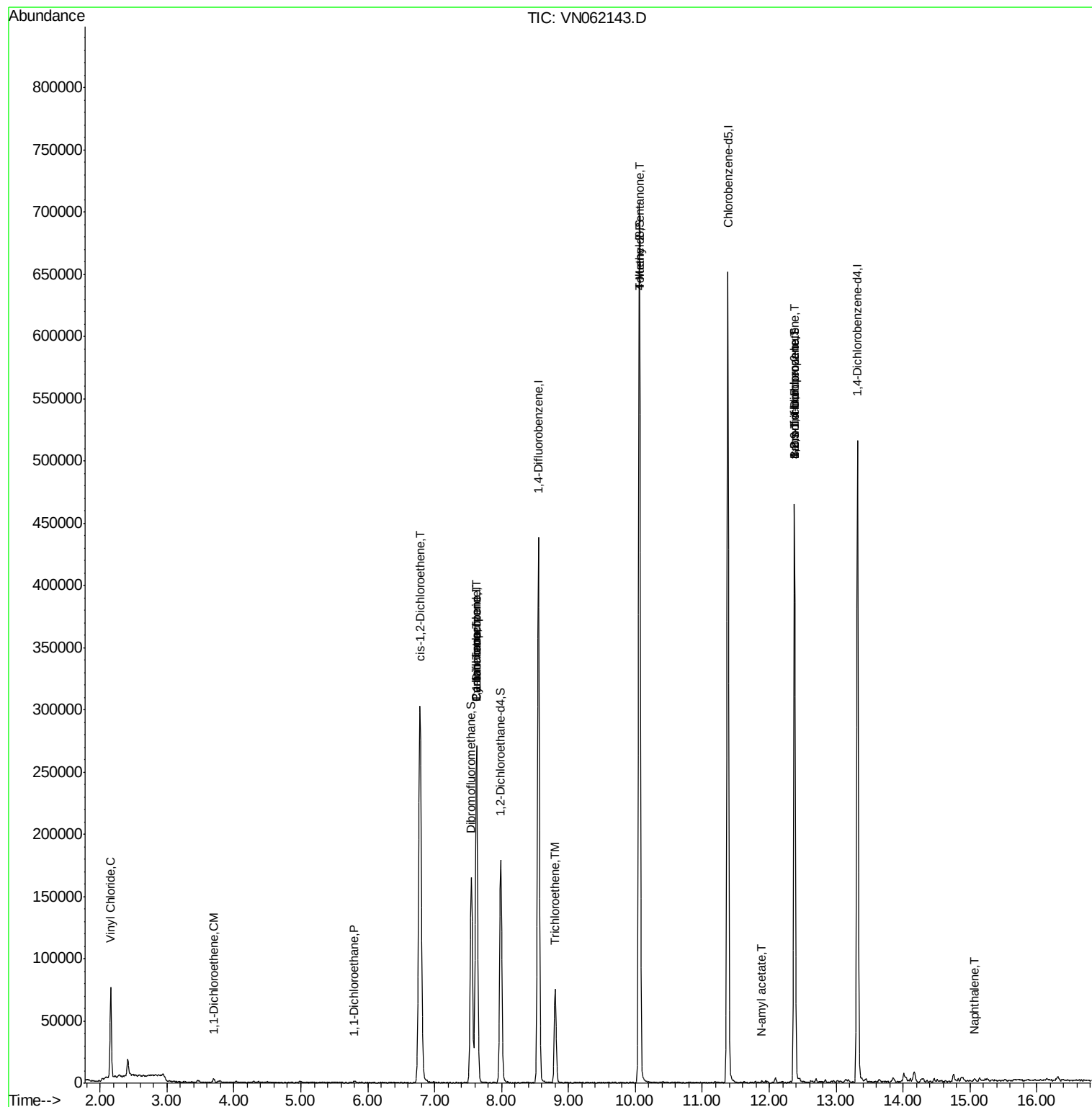
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.03  | 50   | 852      | Below Cal |        | 93     |
| 4) Vinyl Chloride              | 2.16  | 62   | 64080    | 16.620    | ug/l   | 99     |
| 12) 1,1-Dichloroethene         | 3.69  | 96   | 1459     | 0.587     | ug/l # | 78     |
| 16) Acetone                    | 3.78  | 43   | 1480     | Below Cal |        | 91     |
| 20) Methylene Chloride         | 4.49  | 84   | 142      | Below Cal | #      | 9      |
| 24) 1,1-Dichloroethane         | 5.80  | 63   | 2022     | 0.407     | ug/l # | 82     |
| 27) cis-1,2-Dichloroethene     | 6.78  | 96   | 214356   | 67.233    | ug/l   | 88     |
| 31) Cyclohexane                | 7.63  | 56   | 4743     | 1.129     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 17168    | 4.254     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 21156    | 5.560     | ug/l # | 15     |
| 44) Trichloroethene            | 8.80  | 130  | 27153    | 8.750     | ug/l   | 86     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 1913     | 0.601     | ug/l # | 1      |
| 71) Bromoform                  | 12.38 | 173  | 1499     | 0.730     | ug/l # | 1      |
| 74) N-amyl acetate             | 11.89 | 43   | 30       | 3.350     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 82382    | 24.911    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 82382    | 72.749    | ug/l # | 13     |
| 95) Naphthalene                | 15.07 | 128  | 102      | 4.009     | ug/l # | 1      |

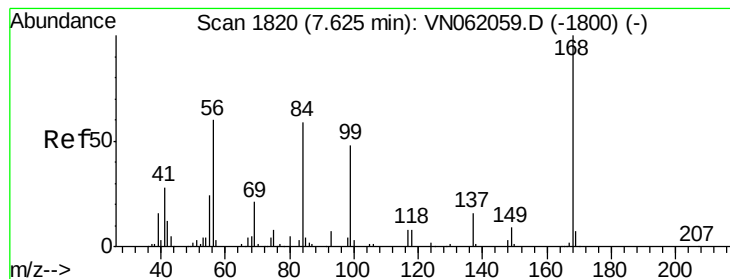
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062620\  
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Quant Time: Jun 27 03:43:24 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
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: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampleId :

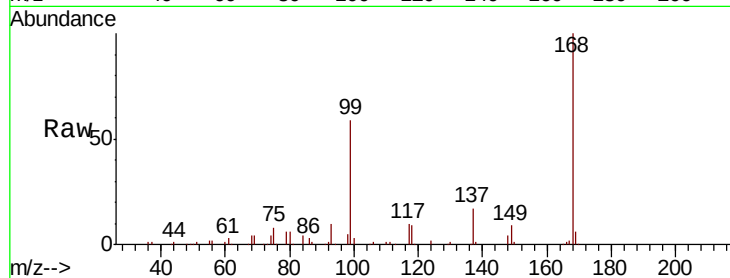
BRP1-20200625

Tot Ion:168 Resp: 216603

Ion Ratio Lower Upper

168 100

99 58.8 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

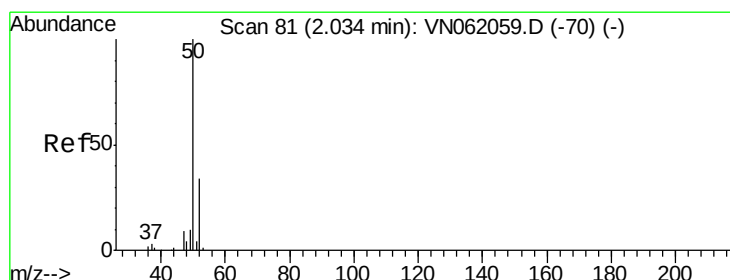
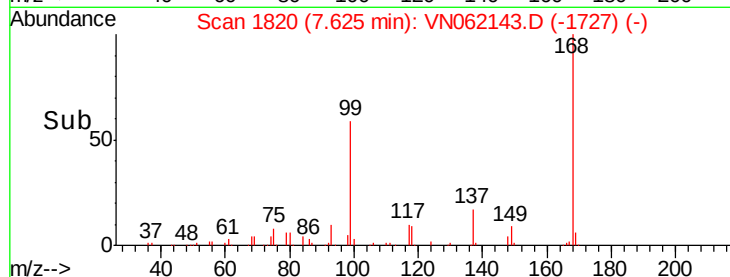
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN062143.D

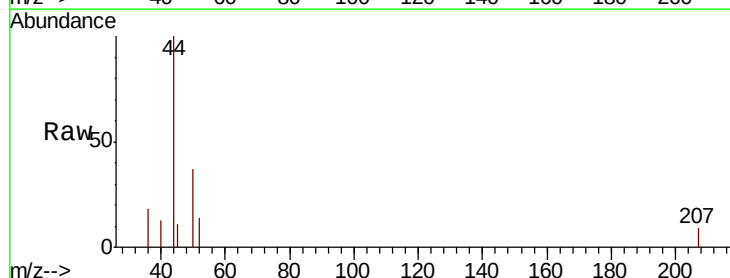
Acq: 26 Jun 2020 16:37

Tgt Ion: 50 Resp: 852

Ion Ratio Lower Upper

50 100

52 38.0 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

800

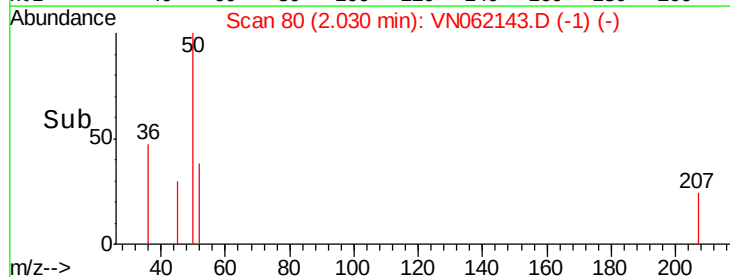
600

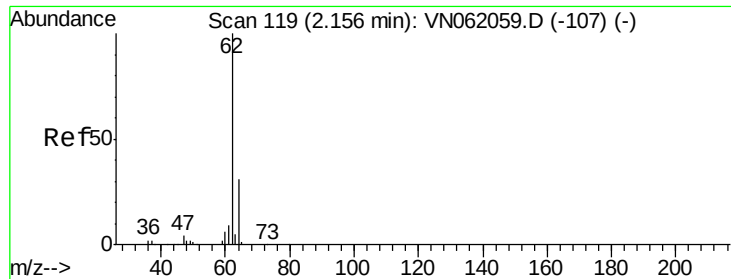
400

200

0

Time--> 2.00 2.02 2.04 2.06





#4

Vinyl Chloride

Concen: 16.620 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampleId :

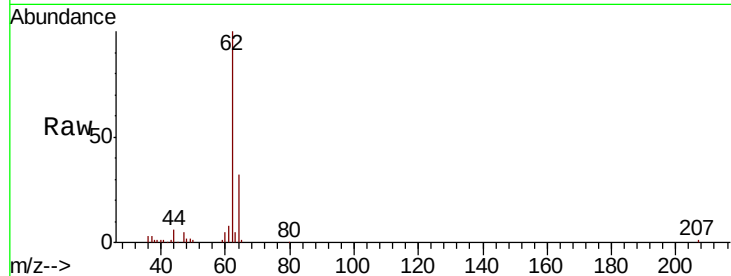
BRP1-20200625

Tot Ion: 62 Resp: 64080

Ion Ratio Lower Upper

62 100

64 32.1 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.16

40000

30000

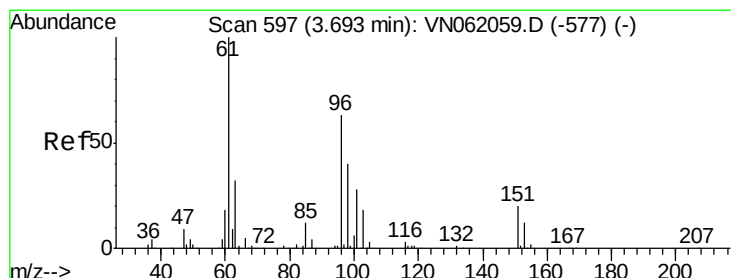
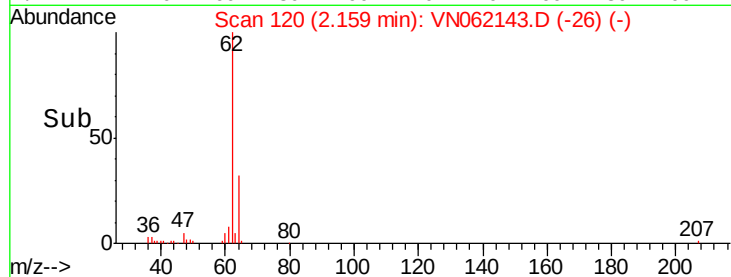
20000

10000

0

Time-->

2.10 2.15 2.20 2.25



#12

1,1-Dichloroethene

Concen: 0.587 ug/l

RT: 3.69 min Scan# 597

Delta R.T. -0.00 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

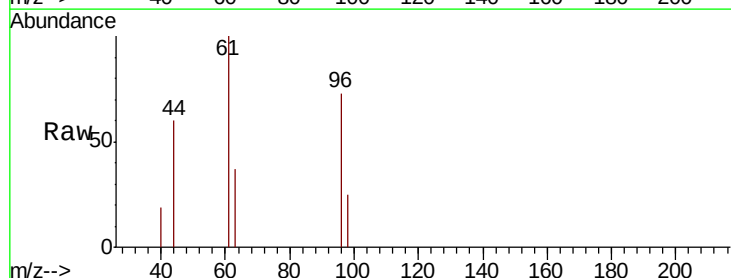
Tgt Ion: 96 Resp: 1459

Ion Ratio Lower Upper

96 100

61 137.8 126.7 190.1

98 34.5 51.0 76.4#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

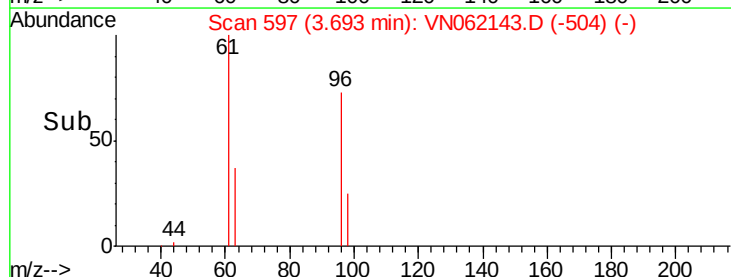
1000

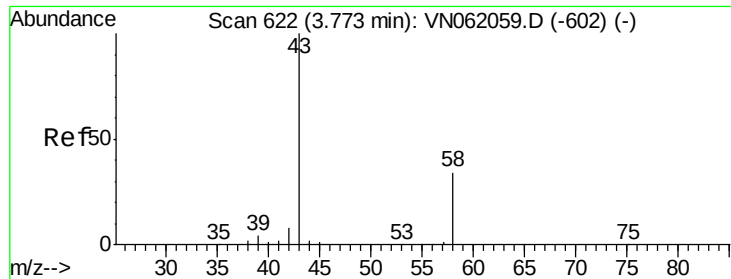
500

0

Time-->

3.65 3.70 3.75





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampleId :

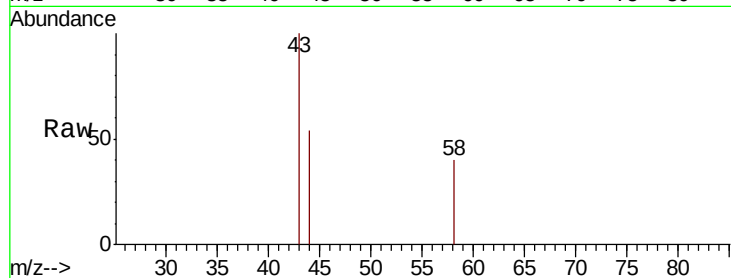
BRP1-20200625

Tot Ion: 43 Resp: 1480

Ion Ratio Lower Upper

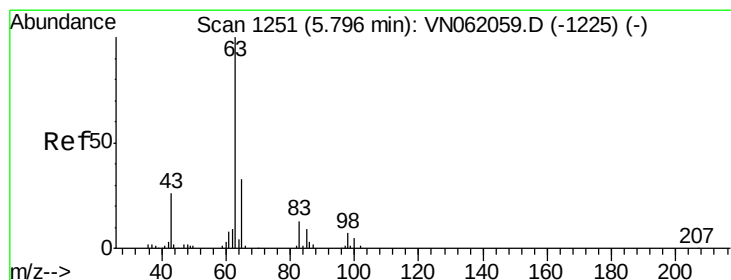
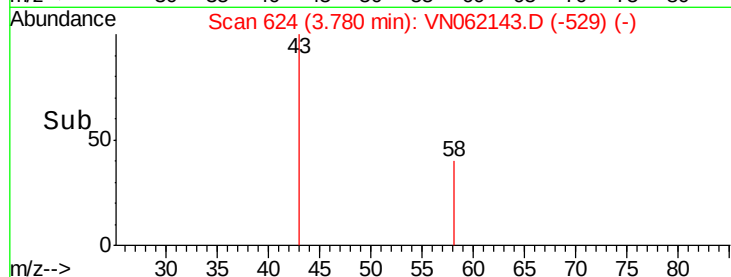
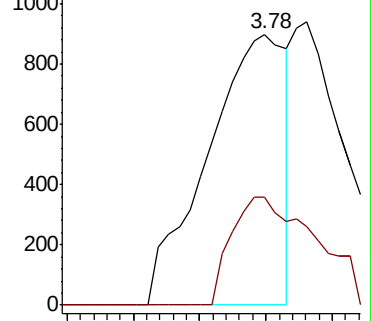
43 100

58 39.8 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN062143.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN062143.D (-529) (-)



#24

1,1-Dichloroethane

Concen: 0.407 ug/l

RT: 5.80 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

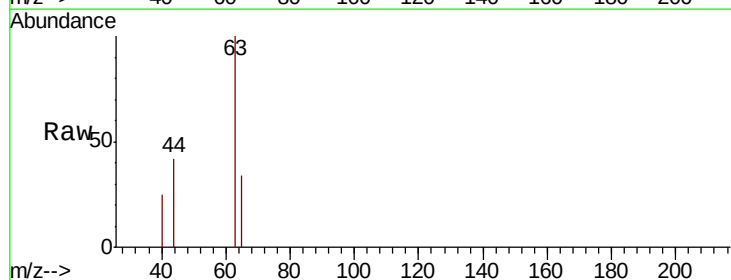
Tgt Ion: 63 Resp: 2022

Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.9#

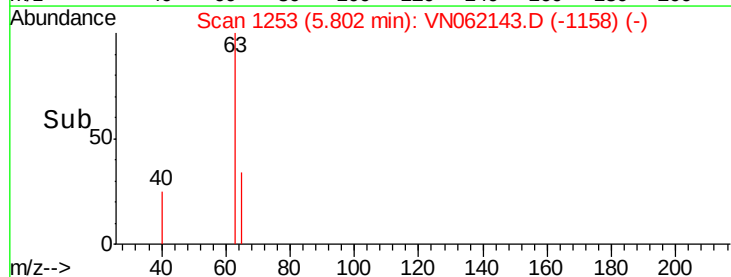
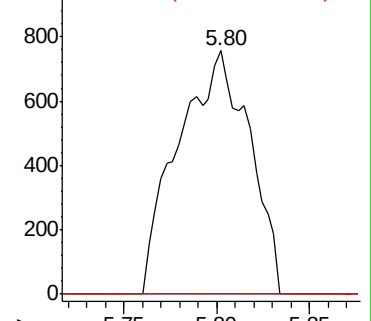
100 0.0 2.4 7.1#

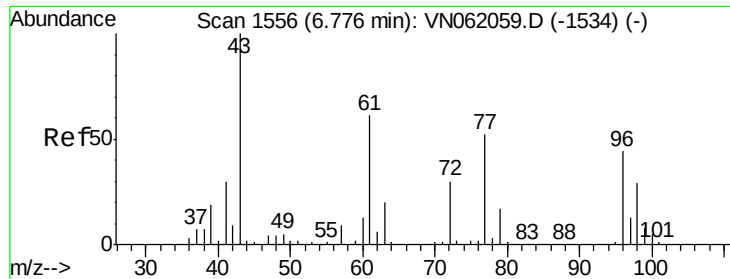


Abundance Ion 62.90 (62.60 to 63.60): VN062143.D (-1158) (-)

Ion 97.90 (97.60 to 98.60): VN062143.D (-1158) (-)

Ion 99.90 (99.60 to 100.60): VN062143.D (-1158) (-)





#27

cis-1,2-Dichloroethene

Concen: 67.233 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampleId :

BRP1-20200625

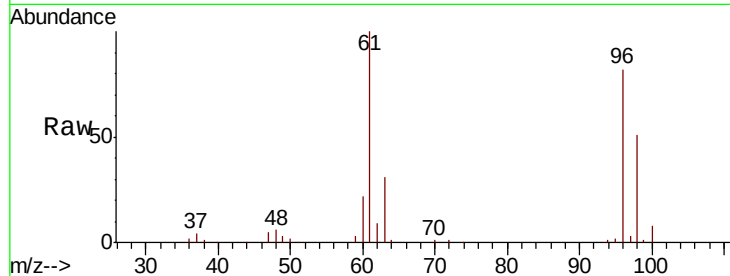
Tot Ion: 96 Resp: 214356

Ion Ratio Lower Upper

96 100

61 119.8 0.0 280.4

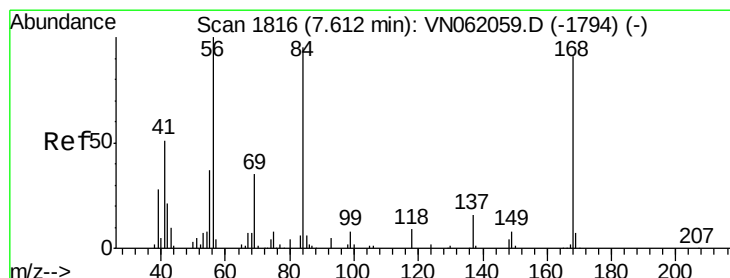
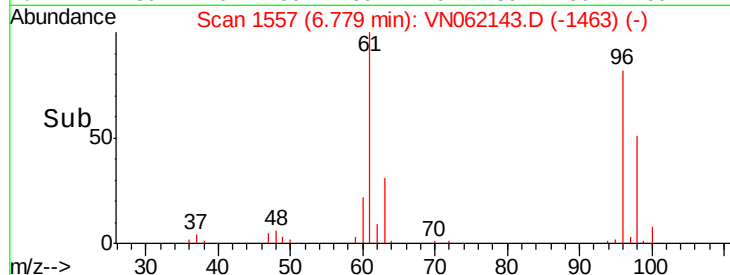
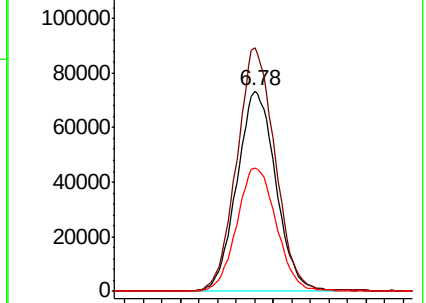
98 62.5 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN062143.D (-1463) (-)

Ion 60.90 (60.60 to 61.60): VN062143.D (-1463) (-)

Ion 97.90 (97.60 to 98.60): VN062143.D (-1463) (-)



#31

Cyclohexane

Concen: 1.129 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

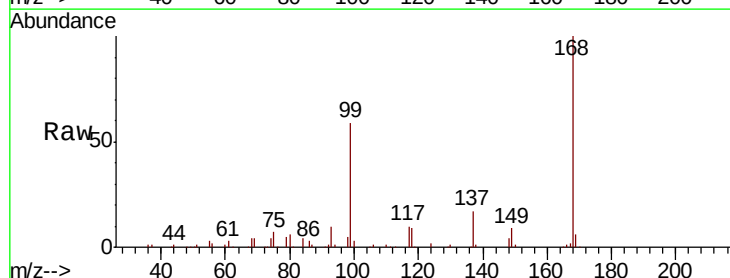
Tgt Ion: 56 Resp: 4743

Ion Ratio Lower Upper

56 100

69 157.6 28.0 42.0#

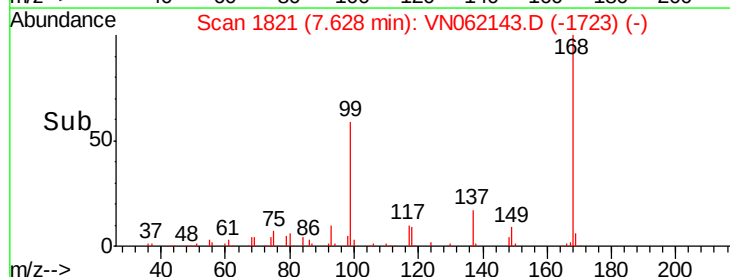
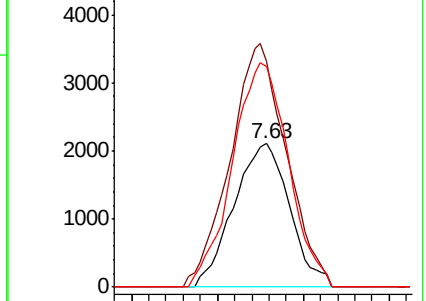
84 154.0 76.1 114.1#

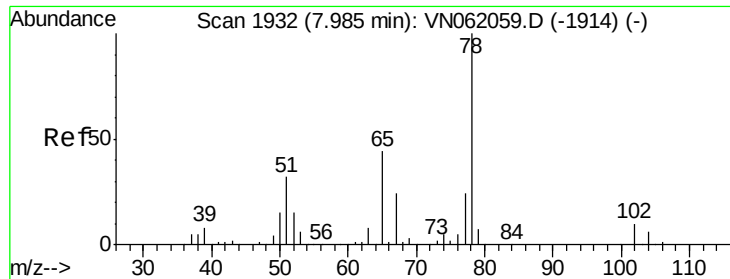


Abundance Ion 56.00 (55.70 to 56.70): VN062143.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN062143.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN062143.D (-1723) (-)

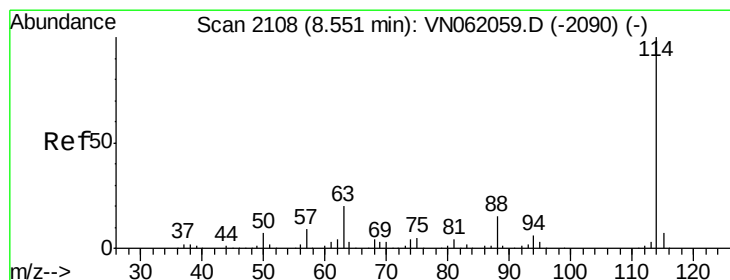
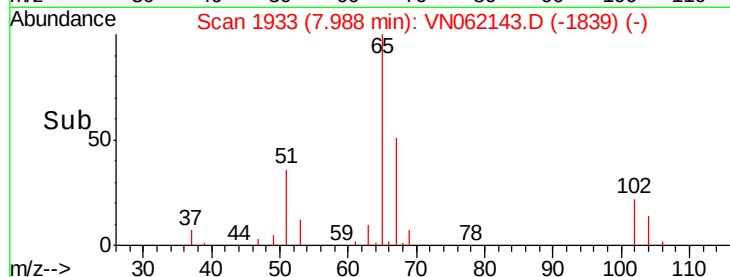
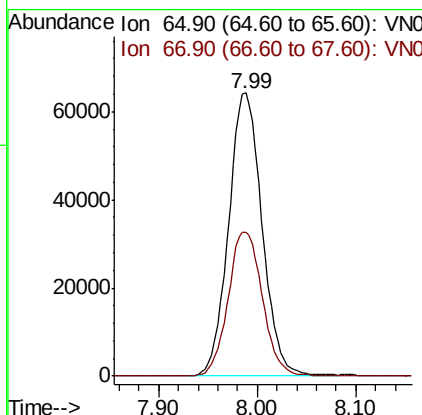
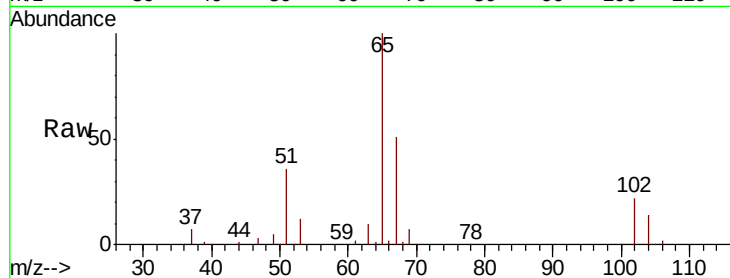




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.968 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. 0.00 min  
 Lab File: VN062143.D  
 Acq: 26 Jun 2020 16:37

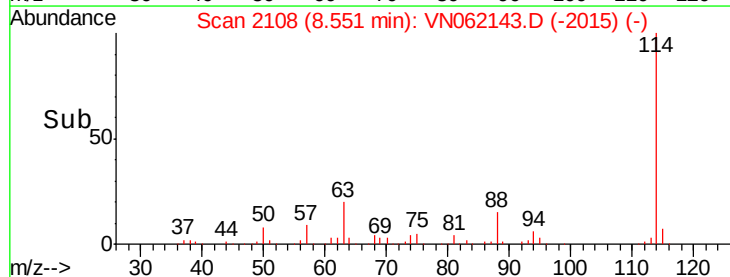
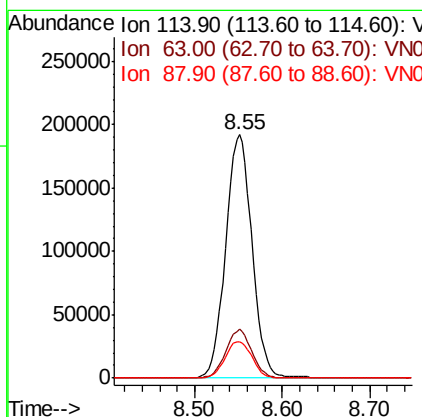
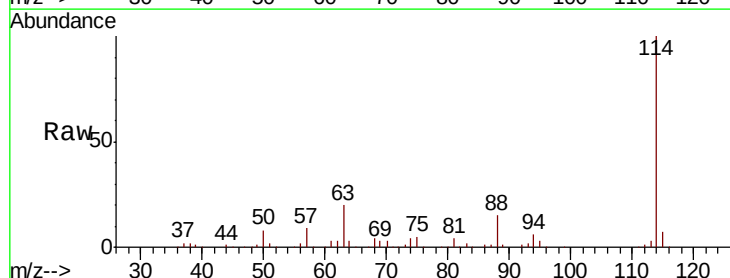
Instrument :  
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 BRP1-20200625

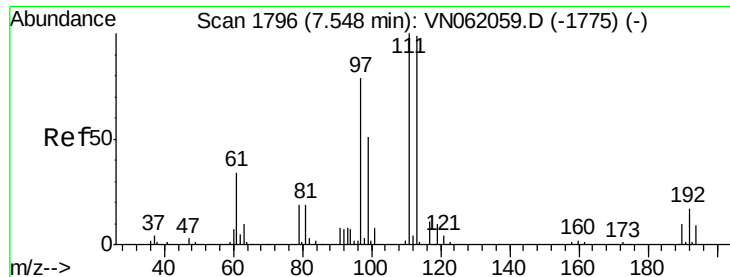
Tot Ion: 65 Resp: 151887  
 Ion Ratio Lower Upper  
 65 100  
 67 52.4 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN062143.D  
 Acq: 26 Jun 2020 16:37

Tgt Ion: 114 Resp: 401523  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 39.2  
 88 15.0 0.0 30.8

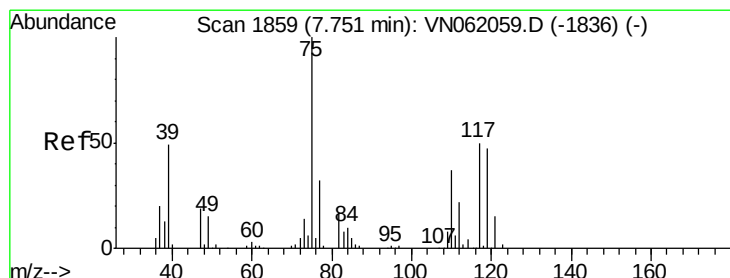
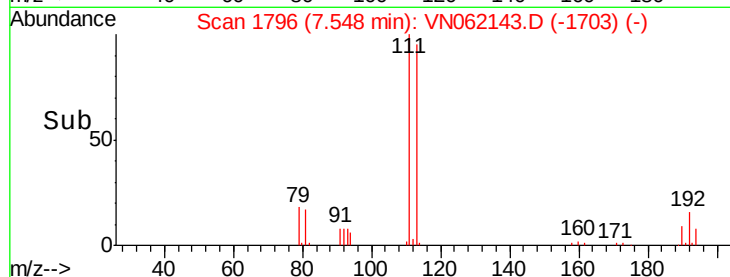
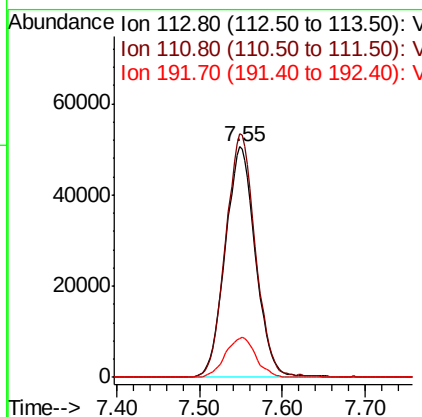
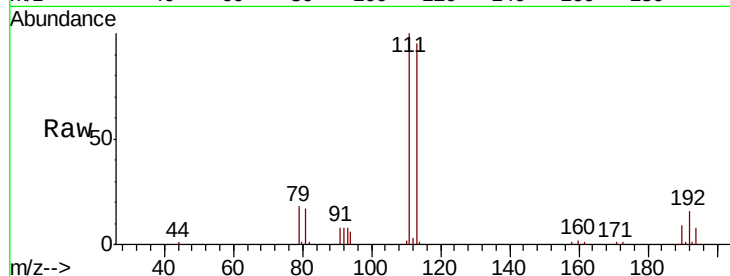




#35  
 Dibromofluoromethane  
 Concen: 49.700 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VN062143.D  
 Acq: 26 Jun 2020 16:37

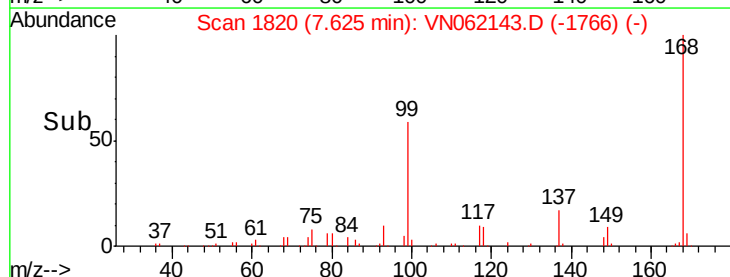
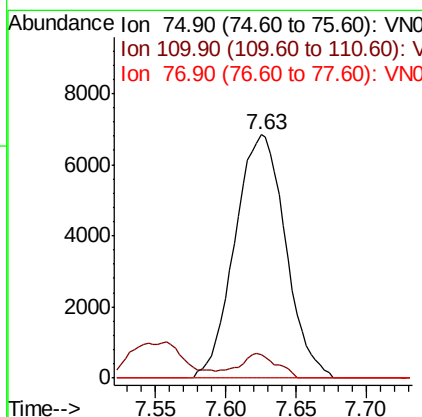
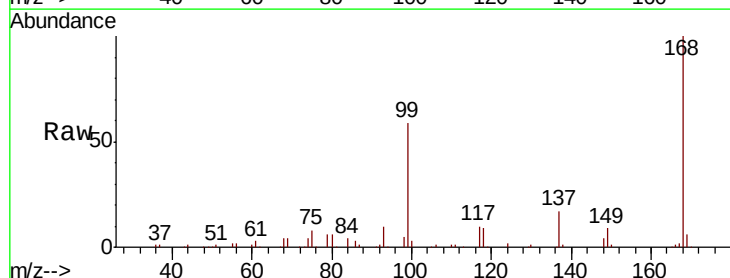
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BRP1-20200625

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.3 | 82.2  | 123.4 |
| 192     | 17.4  | 14.0  | 21.0  |

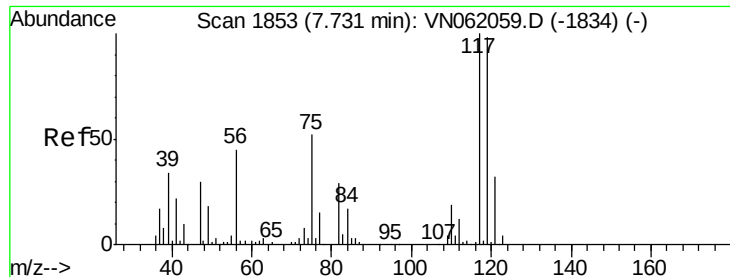


#36  
 1,1-Dichloropropene  
 Concen: 4.254 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN062143.D  
 Acq: 26 Jun 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.5   | 17.9  | 53.8# |
| 77      | 0.0   | 24.9  | 37.3# |







#38

Carbon Tetrachloride

Concen: 5.560 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampleId :

BRP1-20200625

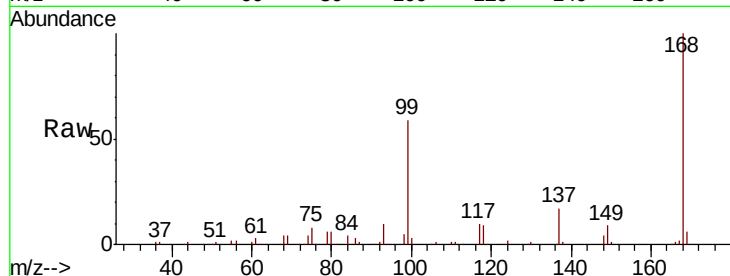
Tot Ion:117 Resp: 21156

Ion Ratio Lower Upper

117 100

119 4.3 78.2 117.2#

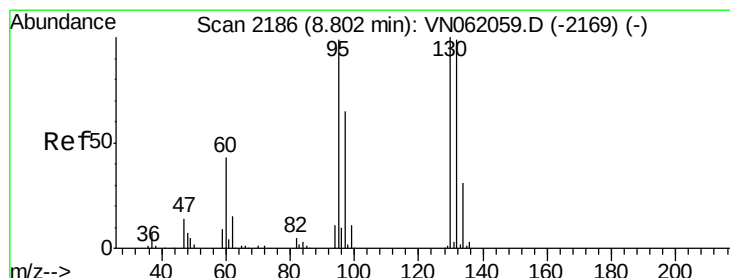
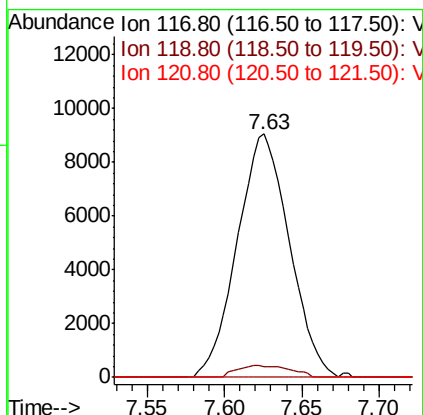
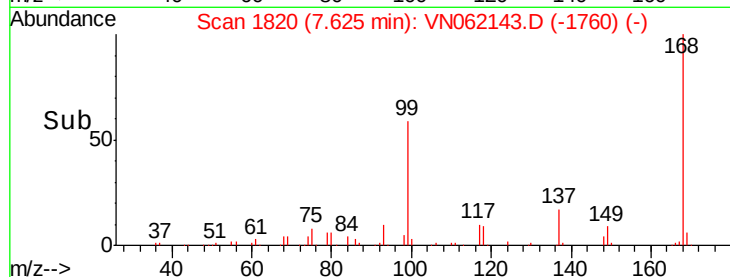
121 0.0 25.8 38.6#



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



#44

Trichloroethene

Concen: 8.750 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN062143.D

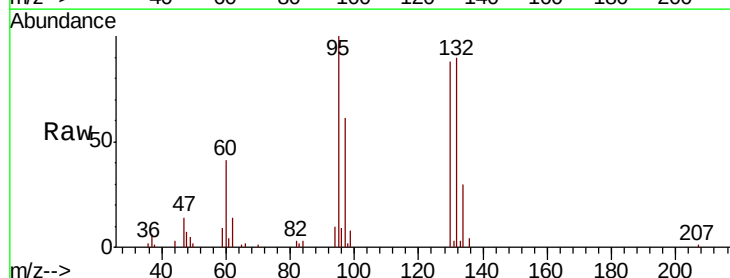
Acq: 26 Jun 2020 16:37

Tgt Ion:130 Resp: 27153

Ion Ratio Lower Upper

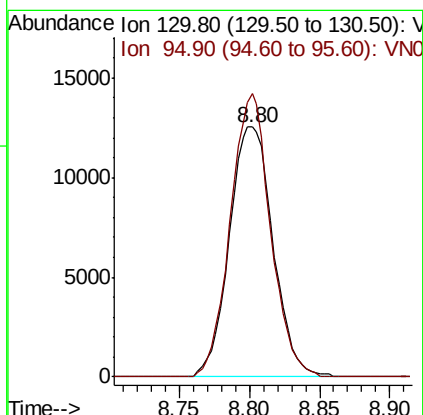
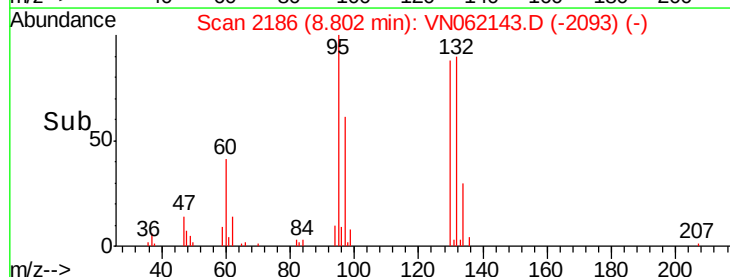
130 100

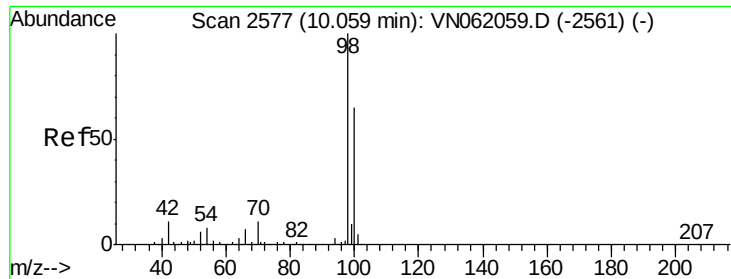
95 113.2 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

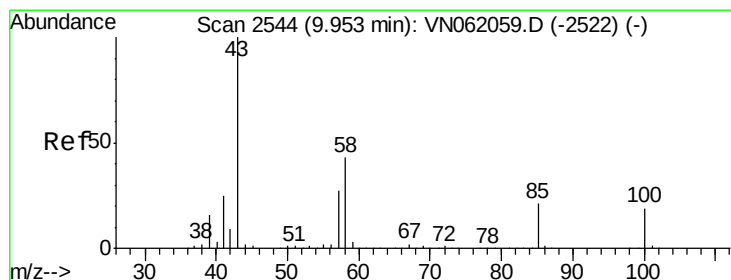
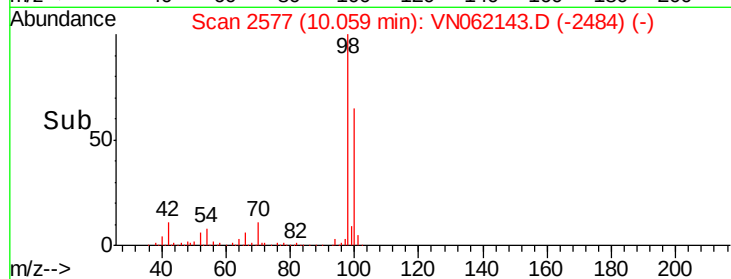
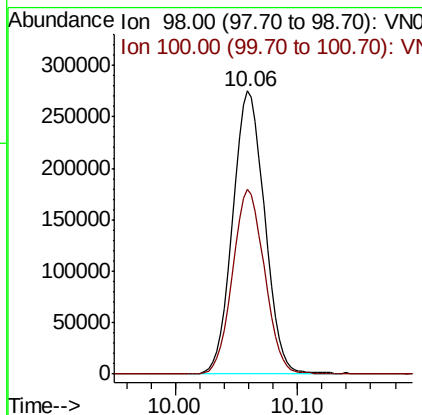
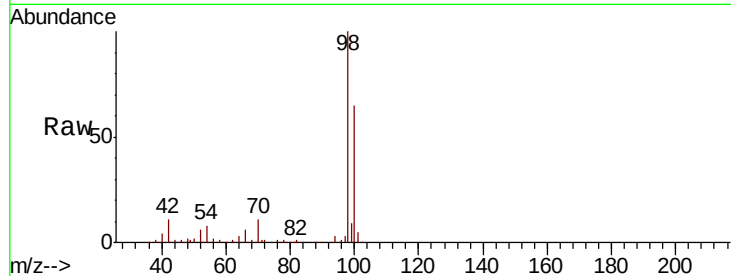




#50  
Toluene-d8  
Concen: 48.637 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. -0.00 min  
Lab File: VN062143.D  
Acq: 26 Jun 2020 16:37

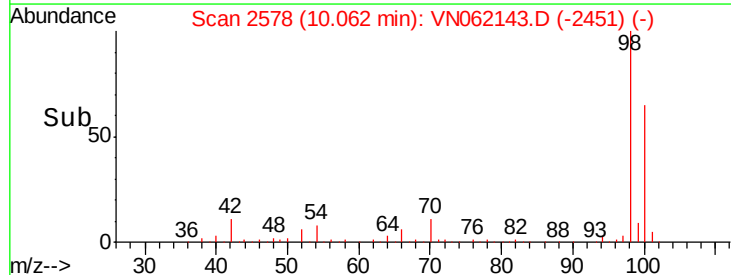
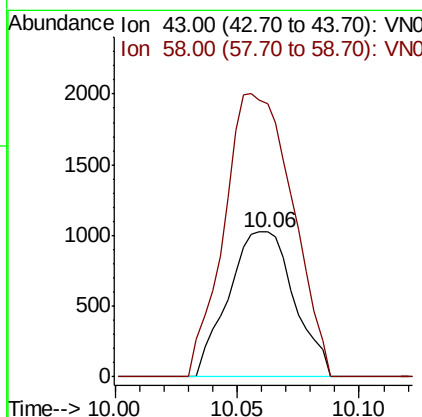
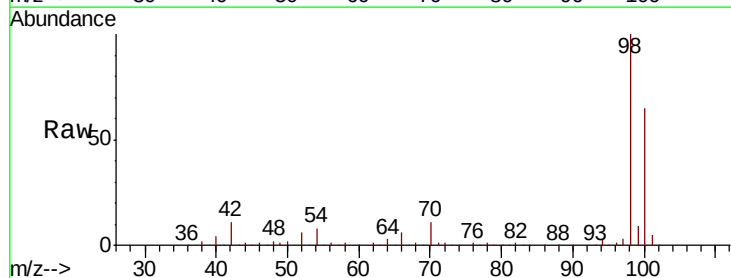
Instrument :  
MSVOA\_N  
ClientSampleId :  
BRP1-20200625

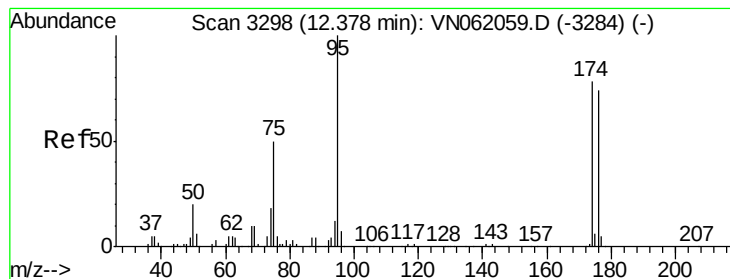
Tot Ion: 98 Resp: 500811  
Ion Ratio Lower Upper  
98 100  
100 65.4 51.2 76.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.601 ug/l  
RT: 10.06 min Scan# 2578  
Delta R.T. 0.11 min  
Lab File: VN062143.D  
Acq: 26 Jun 2020 16:37

Tgt Ion: 43 Resp: 1913  
Ion Ratio Lower Upper  
43 100  
58 203.7 34.2 51.2#





#62

4-Bromofluorobenzene

Concen: 47.294 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampleId :

BRP1-20200625

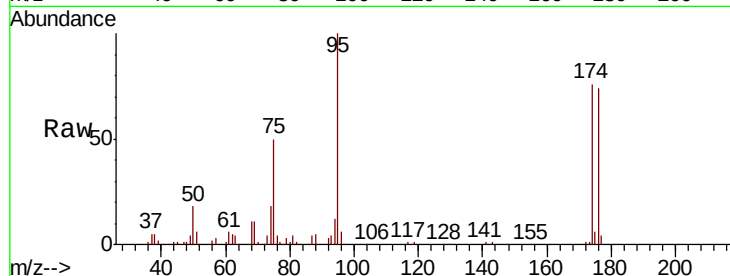
Tot Ion: 95 Resp: 164531

Ion Ratio Lower Upper

95 100

174 76.0 0.0 154.8

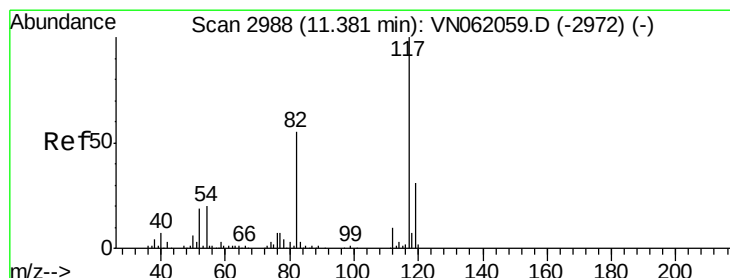
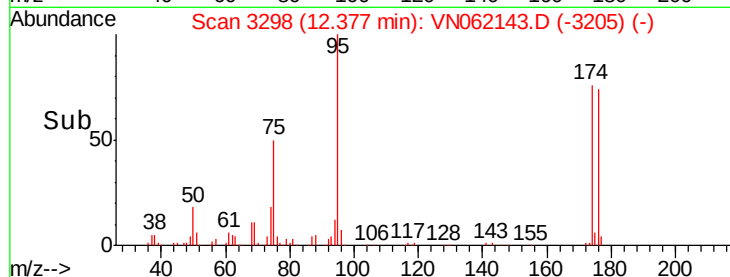
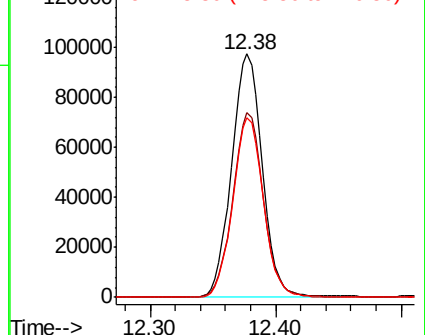
176 74.1 0.0 147.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

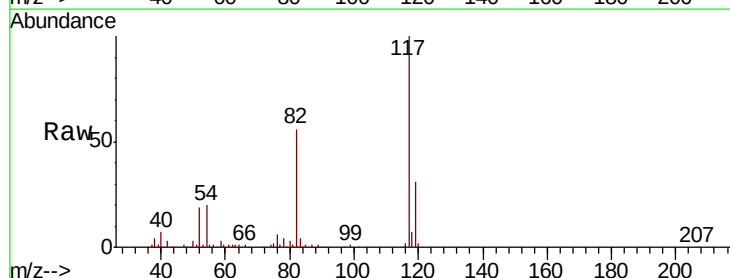
Tgt Ion: 117 Resp: 380458

Ion Ratio Lower Upper

117 100

82 56.5 43.8 65.8

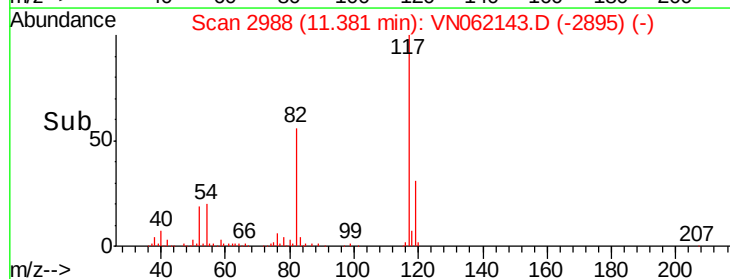
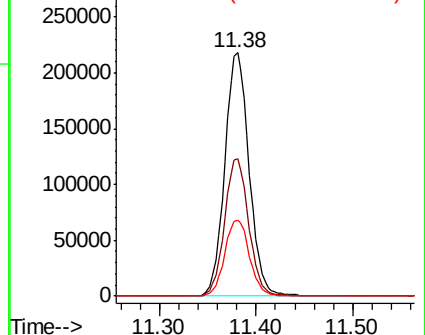
119 31.4 25.2 37.8

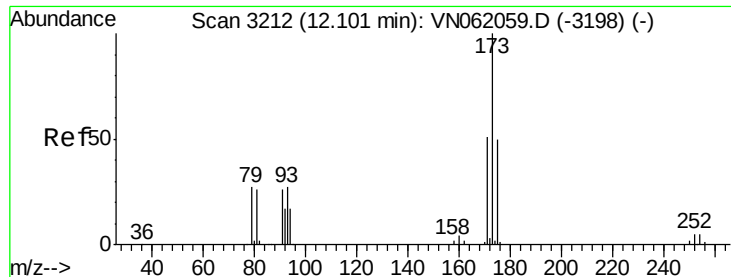


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.730 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampleId :

BRP1-20200625

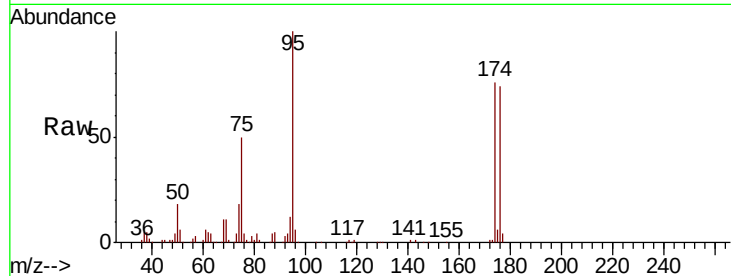
Tot Ion:173 Resp: 1499

Ion Ratio Lower Upper

173 100

175 516.3 24.7 74.1#

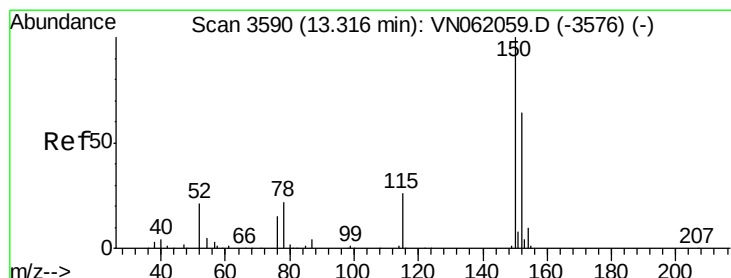
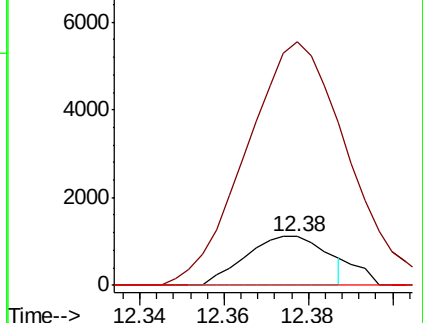
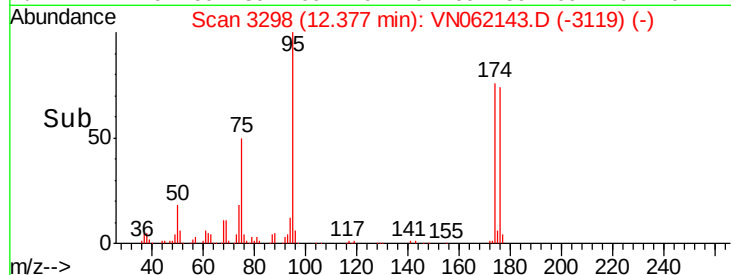
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

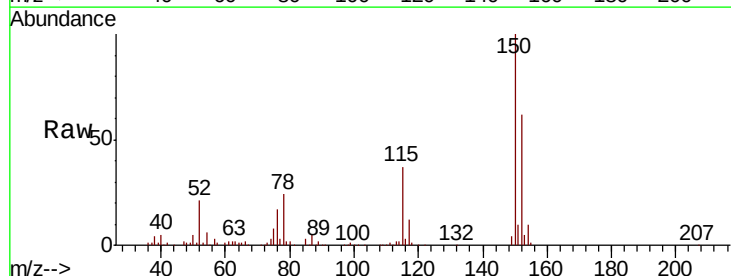
Tgt Ion:152 Resp: 140483

Ion Ratio Lower Upper

152 100

115 59.3 29.5 88.5

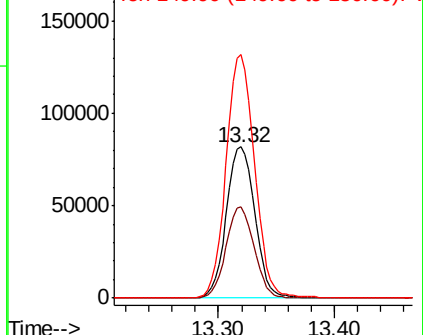
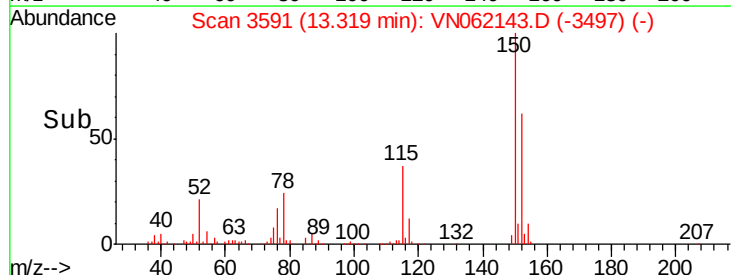
150 159.9 0.0 351.4

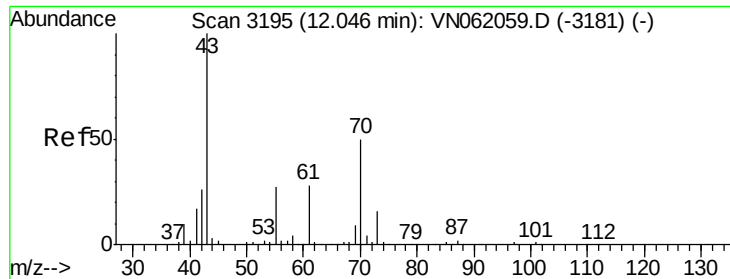


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.350 ug/l

RT: 11.89 min Scan# 3146

Delta R.T. -0.16 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampled :

BRP1-20200625

Tot Ion: 43 Resp: 30

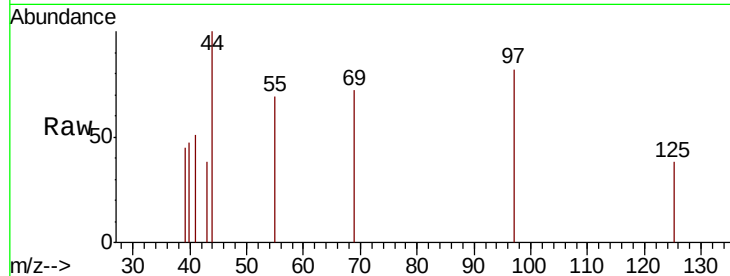
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 1663.3 21.7 32.5#

61 0.0 21.3 31.9#



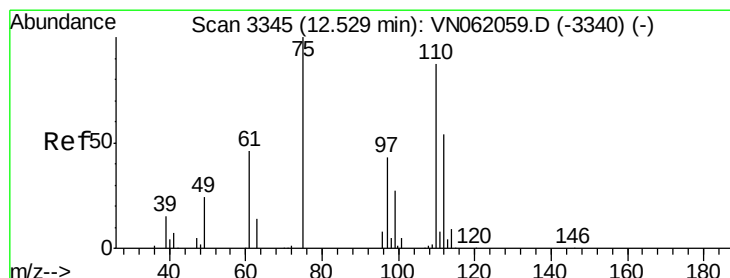
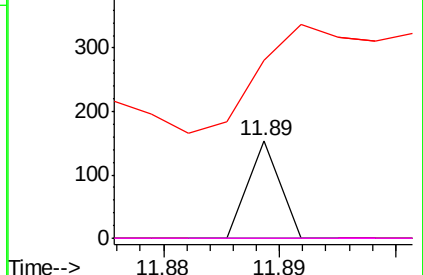
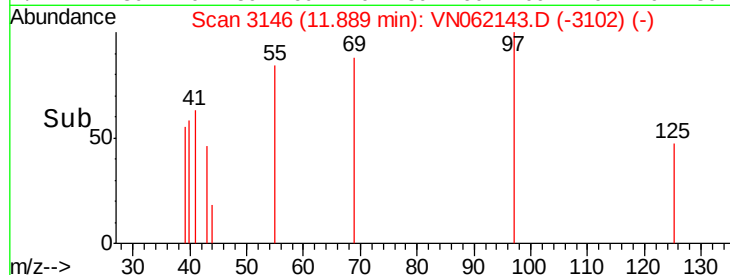
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Time-->



#76

1,2,3-Trichloropropane

Concen: 24.911 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062143.D

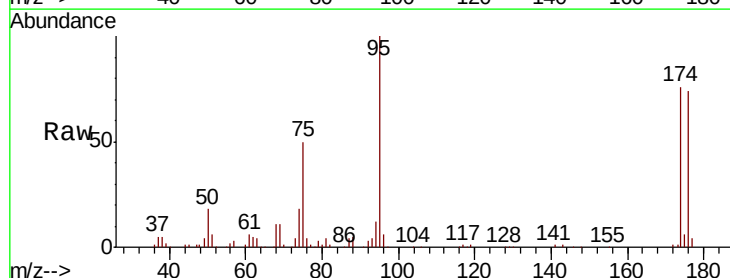
Acq: 26 Jun 2020 16:37

Tgt Ion: 75 Resp: 82382

Ion Ratio Lower Upper

75 100

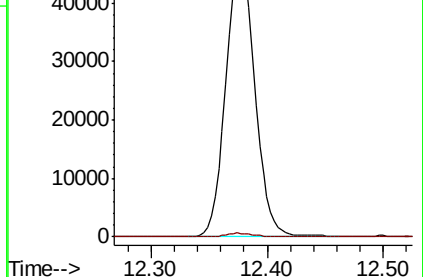
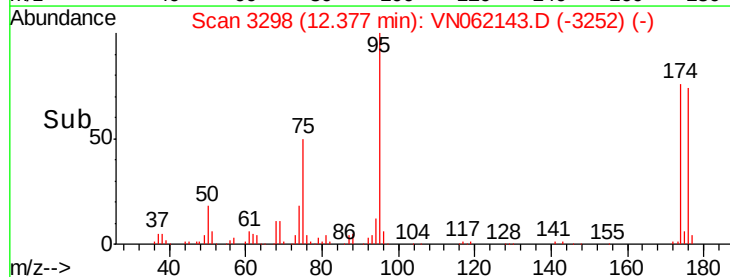
77 1.2 0.0 0.0#

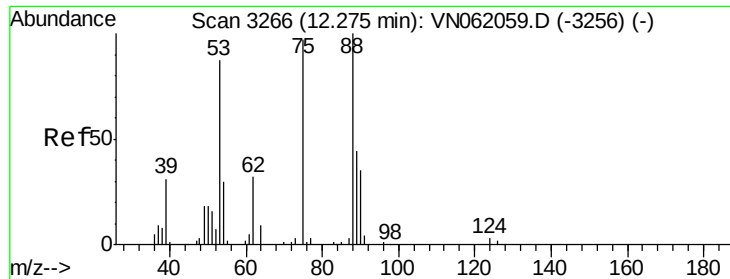


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 72.749 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

Instrument :

MSVOA\_N

ClientSampleId :

BRP1-20200625

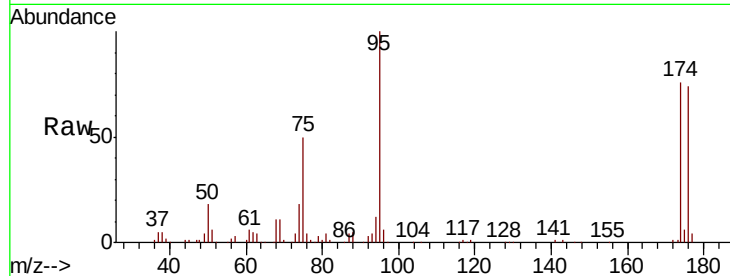
Tot Ion: 75 Resp: 82382

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

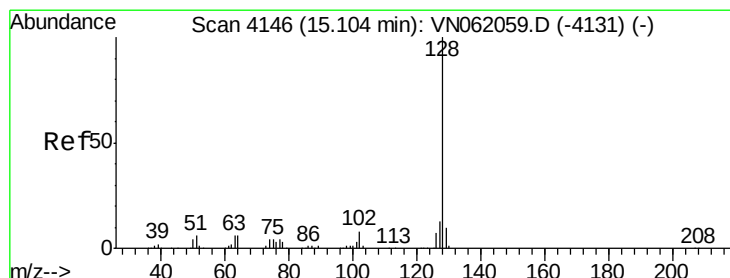
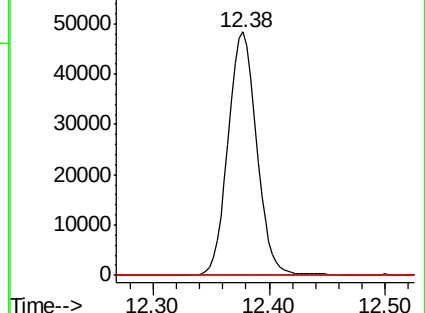
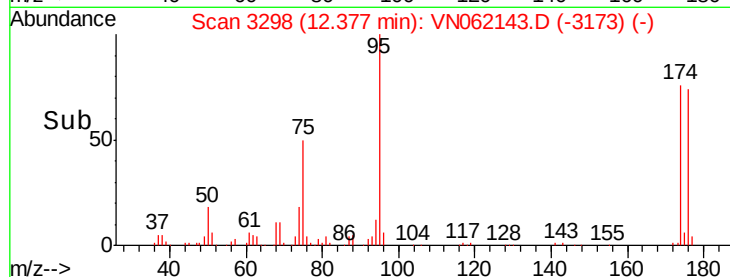
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062143.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062143.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062143.D (-3173) (-)



#95

Naphthalene

Concen: 4.009 ug/l

RT: 15.07 min Scan# 4137

Delta R.T. -0.03 min

Lab File: VN062143.D

Acq: 26 Jun 2020 16:37

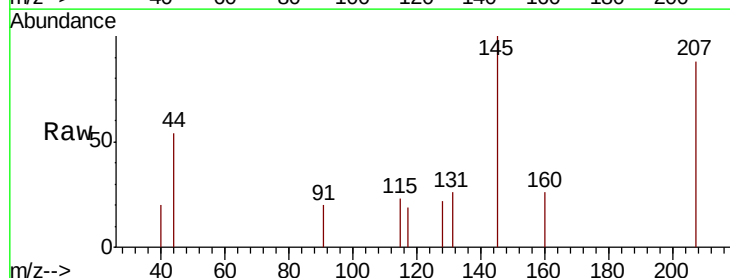
Tgt Ion: 128 Resp: 102

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 106.9 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN062143.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062143.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062143.D (-4053) (-)

