

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\  
 Data File : VN064982.D  
 Acq On : 8 Dec 2020 20:14  
 Operator : JC/MD  
 Sample : PB133456ZHE#19  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB133456ZHE#19

Quant Time: Dec 09 07:51:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 164697   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 324662   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 337882   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 138114   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |                |     |            |         |      |      |
|---------------------------|----------------|-----|------------|---------|------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99           | 65  | 107825     | 56.31   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 61 - 141 |     | Recovery = | 112.62% |      |      |
| 35) Dibromofluoromethane  | 7.55           | 113 | 99779      | 51.36   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 69 - 133 |     | Recovery = | 102.72% |      |      |
| 50) Toluene-d8            | 10.06          | 98  | 402945     | 50.76   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 65 - 126 |     | Recovery = | 101.52% |      |      |
| 62) 4-Bromofluorobenzene  | 12.37          | 95  | 149586     | 52.66   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 58 - 135 |     | Recovery = | 105.32% |      |      |

## Target Compounds

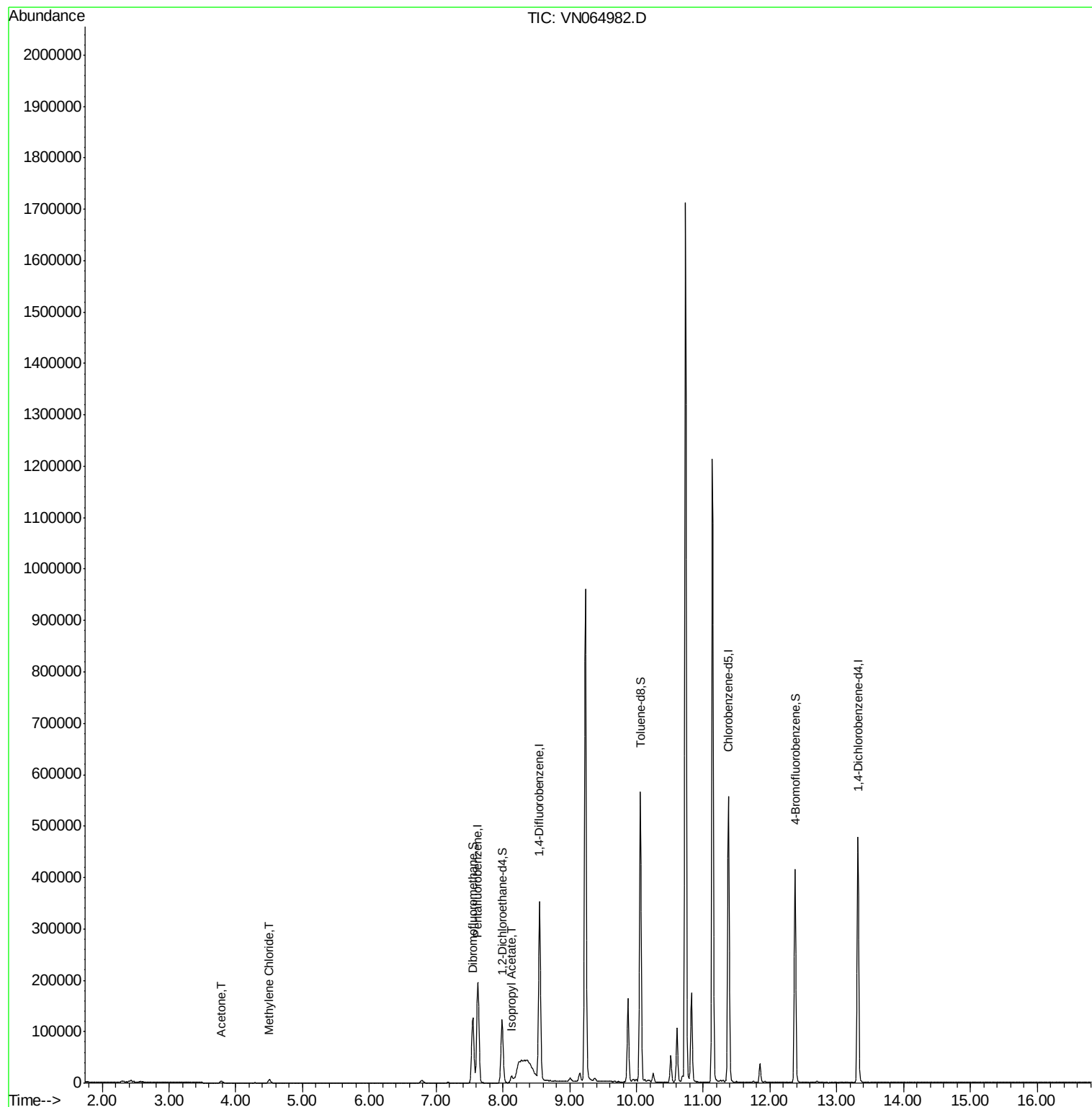
|                        |      |    |       |              | Qvalue |
|------------------------|------|----|-------|--------------|--------|
| 16) Acetone            | 3.78 | 43 | 5915  | 9.398 ug/l   | 96     |
| 20) Methylene Chloride | 4.50 | 84 | 4902  | 2.485 ug/l   | 95     |
| 43) Isopropyl Acetate  | 8.13 | 43 | 17088 | 3.663 ug/l # | 92     |

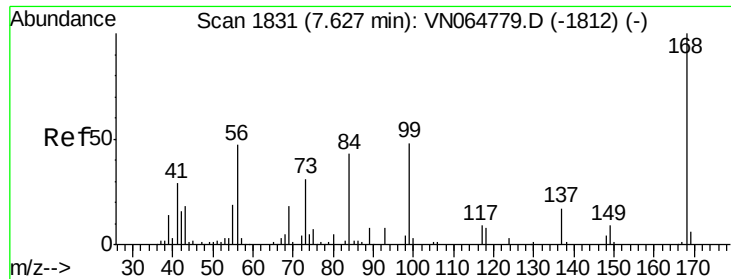
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon Nov 23 13:54:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA\_N

ClientSampleId :

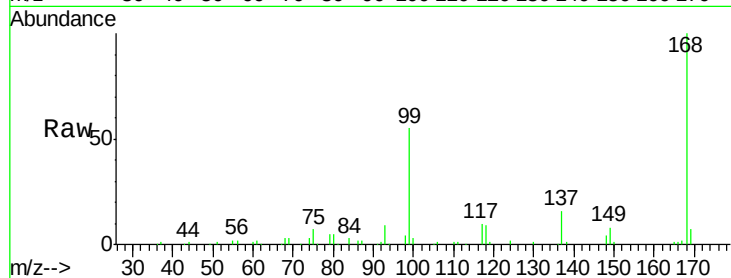
PB133456ZHE#19

Tot Ion:168 Resp: 164697

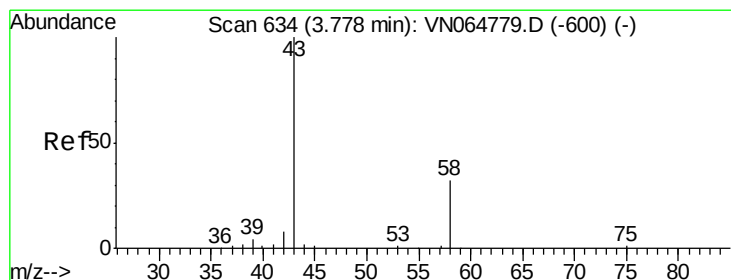
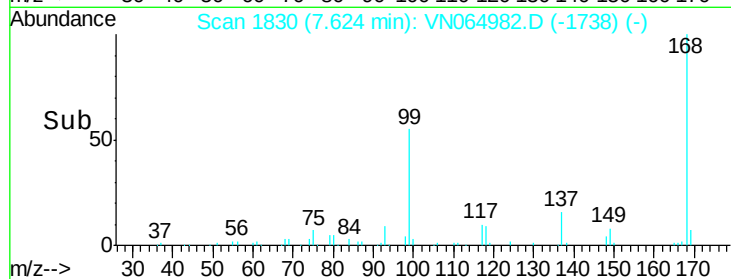
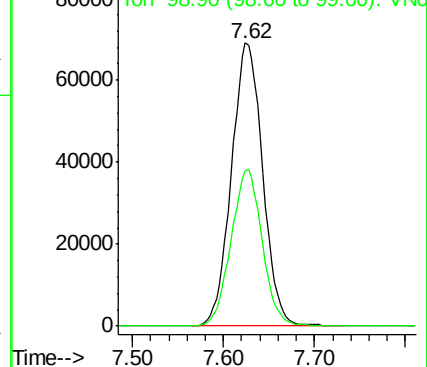
Ion Ratio Lower Upper

168 100

99 55.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064982.D (-1738) (-)



#16

Acetone

Concen: 9.398 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064982.D

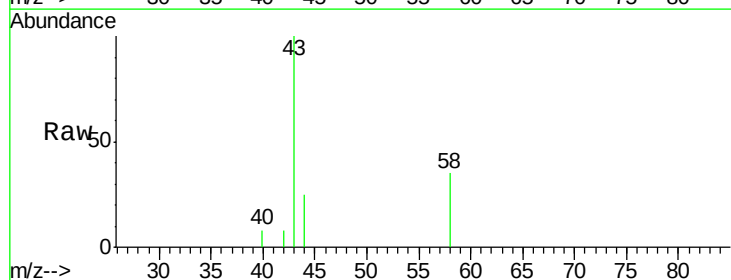
Acq: 8 Dec 2020 20:14

Tgt Ion: 43 Resp: 5915

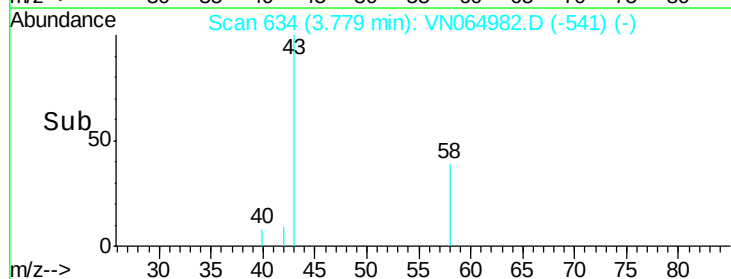
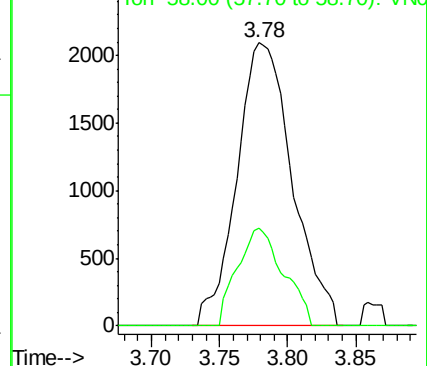
Ion Ratio Lower Upper

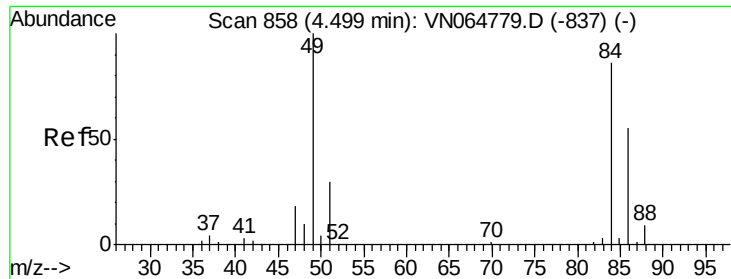
43 100

58 34.6 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064982.D (-541) (-)



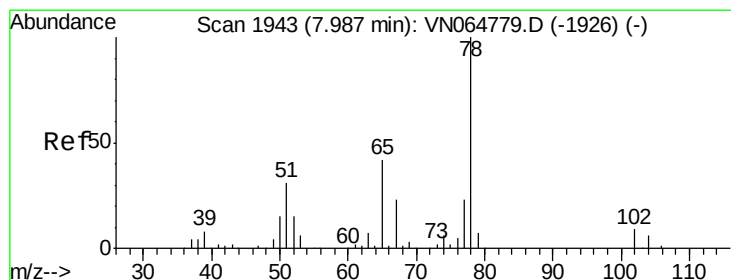
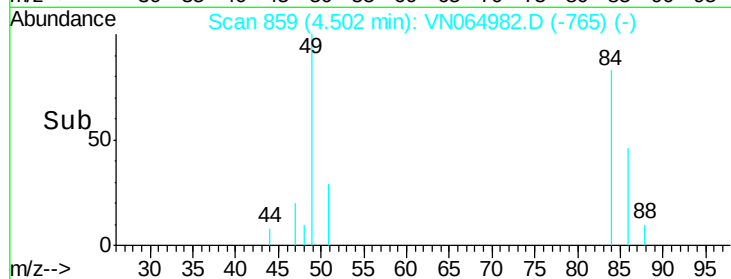
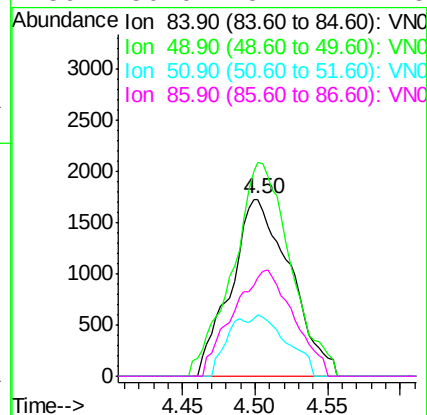
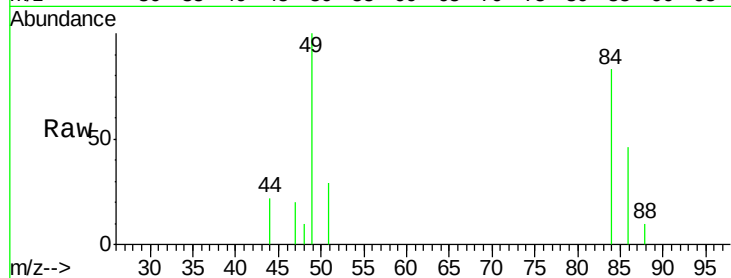


#20  
Methylene Chloride  
Concen: 2.485 ug/l  
RT: 4.50 min Scan# 859  
Delta R.T. 0.00 min  
Lab File: VN064982.D  
Acq: 8 Dec 2020 20:14

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133456ZHE#19

Tot Ion: 84 Resp: 4902

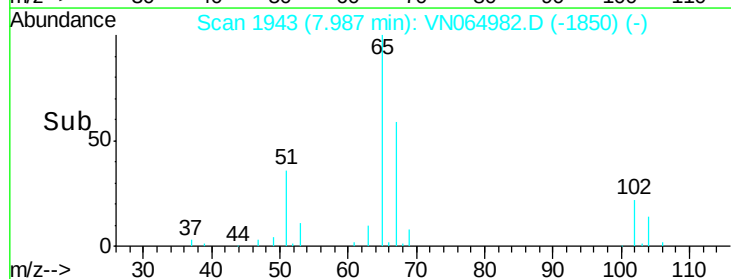
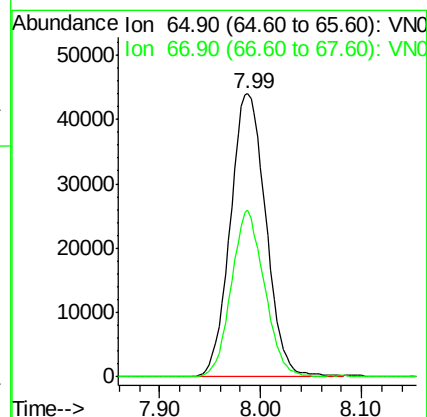
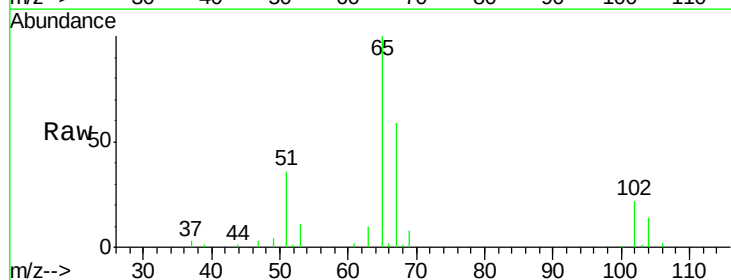
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 120.7 | 93.4  | 140.0 |
| 51  | 35.1  | 28.2  | 42.4  |
| 86  | 56.0  | 51.7  | 77.5  |

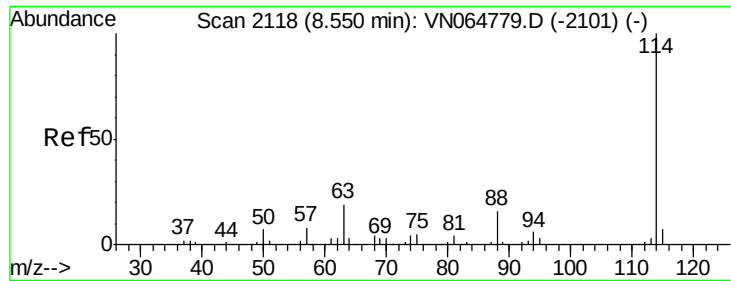


#33  
1,2-Dichloroethane-d4  
Concen: 56.314 ug/l  
RT: 7.99 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN064982.D  
Acq: 8 Dec 2020 20:14

Tgt Ion: 65 Resp: 107825

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 54.8  | 0.0   | 108.2 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA\_N

ClientSampleId :

PB133456ZHE#19

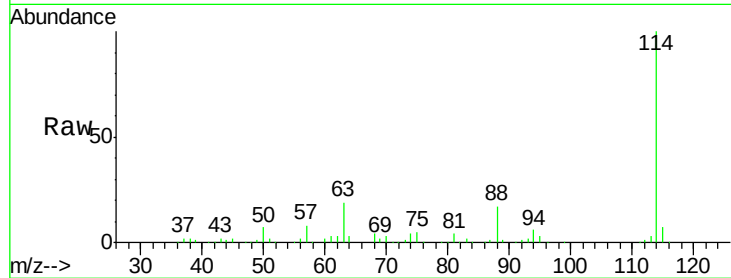
Tot Ion:114 Resp: 324662

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

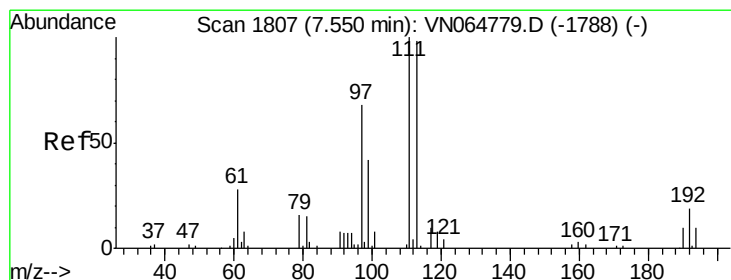
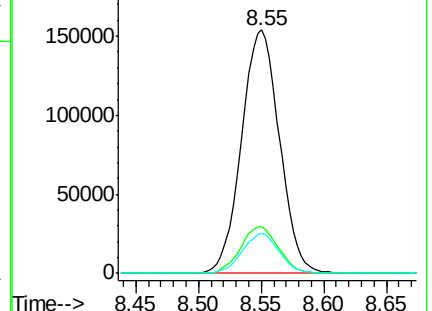
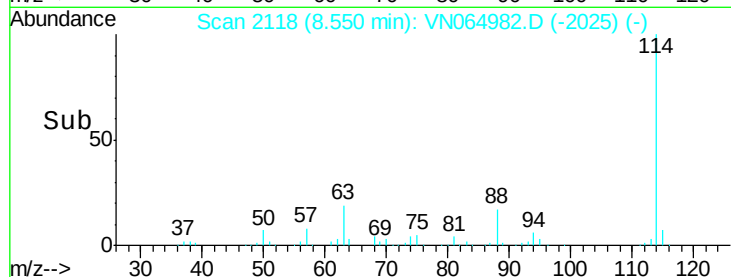
88 16.5 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 51.362 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

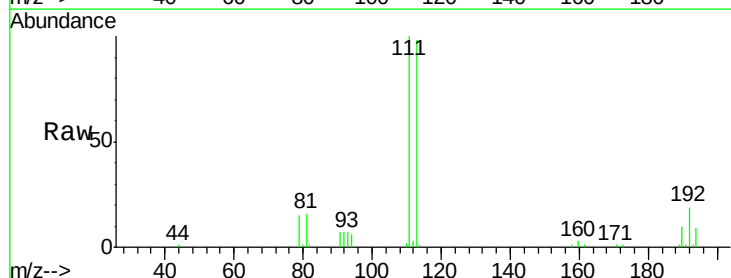
Tgt Ion:113 Resp: 99779

Ion Ratio Lower Upper

113 100

111 101.9 81.6 122.4

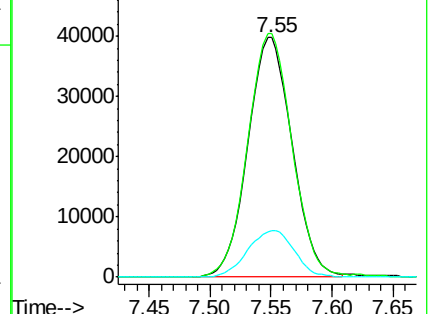
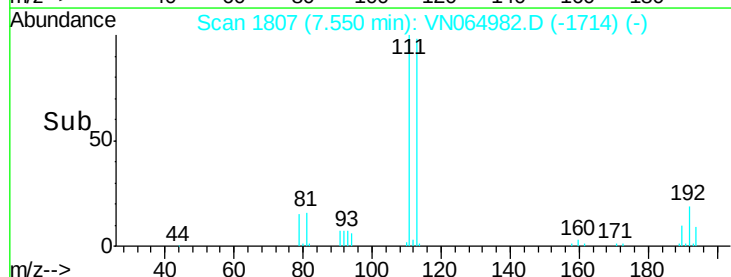
192 20.5 16.2 24.2

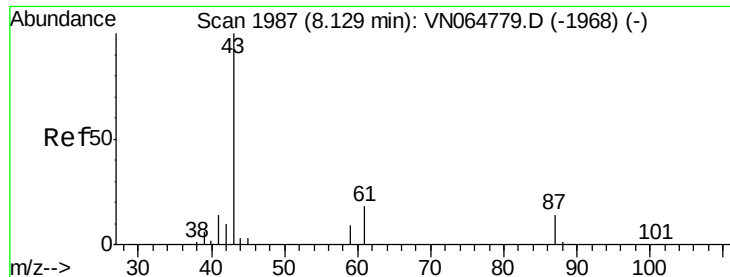


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#43

Isopropyl Acetate

Concen: 3.663 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA\_N

ClientSampleId :

PB133456ZHE#19

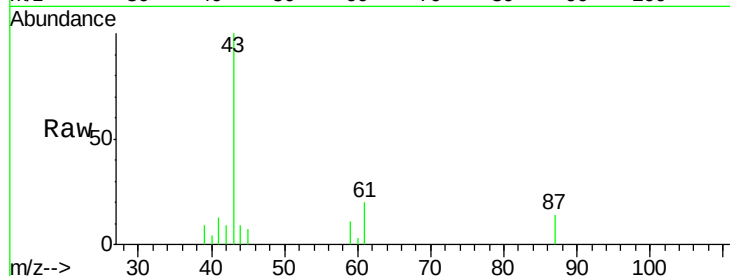
Tot Ion: 43 Resp: 17088

Ion Ratio Lower Upper

43 100

61 16.9 17.2 25.8#

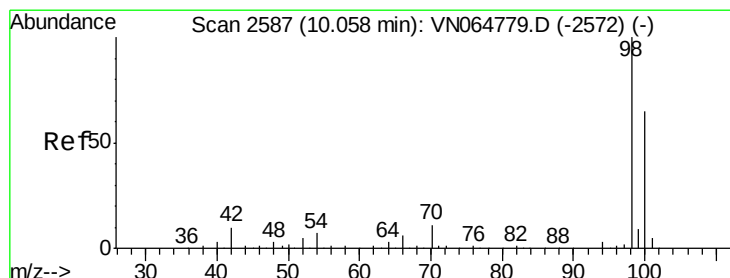
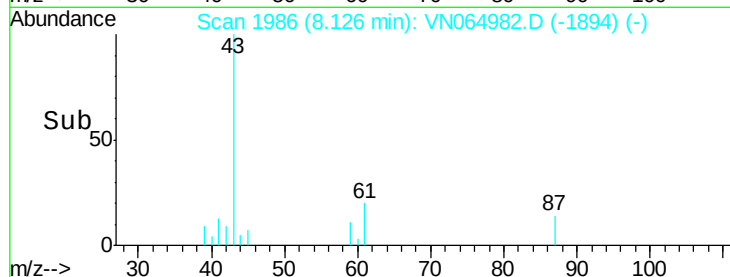
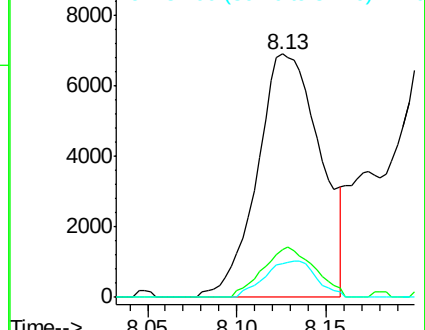
87 12.2 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN064779.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN064779.D (-1968) (-)



#50

Toluene-d8

Concen: 50.764 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064982.D

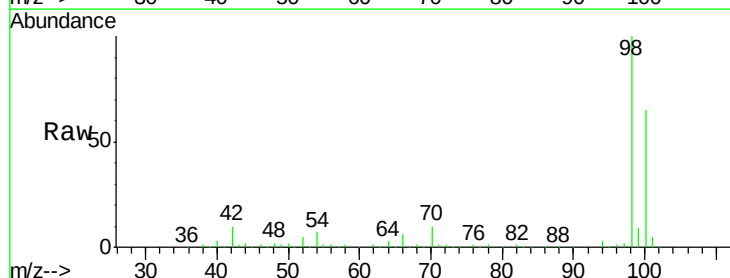
Acq: 8 Dec 2020 20:14

Tgt Ion: 98 Resp: 402945

Ion Ratio Lower Upper

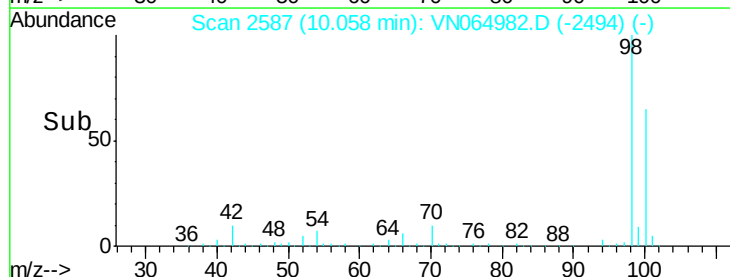
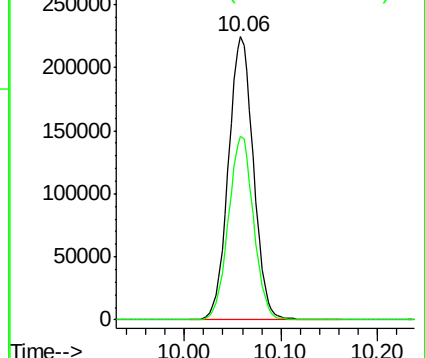
98 100

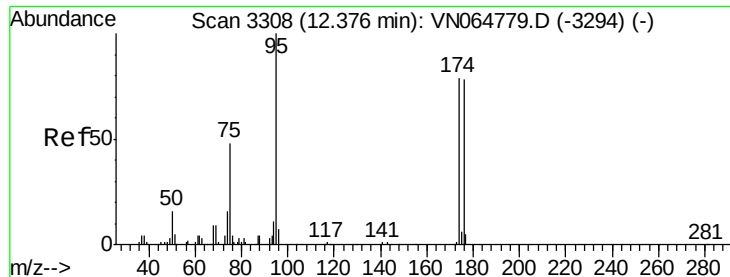
100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)





#62

4-Bromofluorobenzene

Concen: 52.658 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA\_N

ClientSampleId :

PB133456ZHE#19

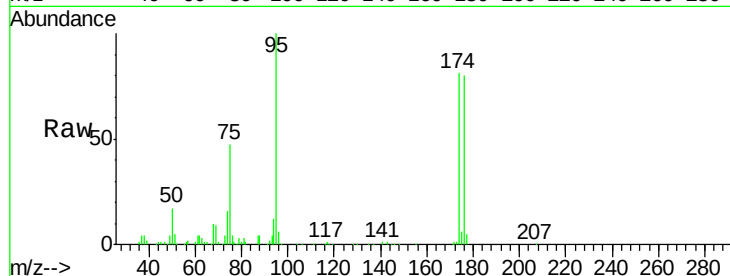
Tot Ion: 95 Resp: 149586

Ion Ratio Lower Upper

95 100

174 82.8 0.0 160.4

176 80.4 0.0 158.4



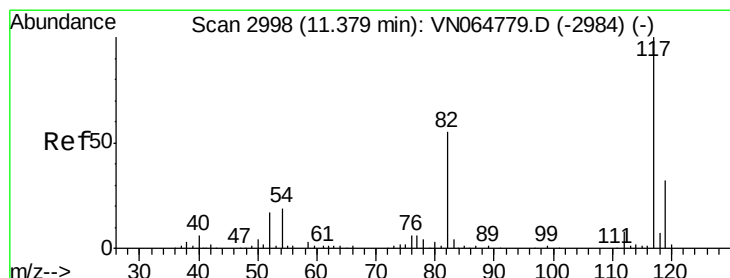
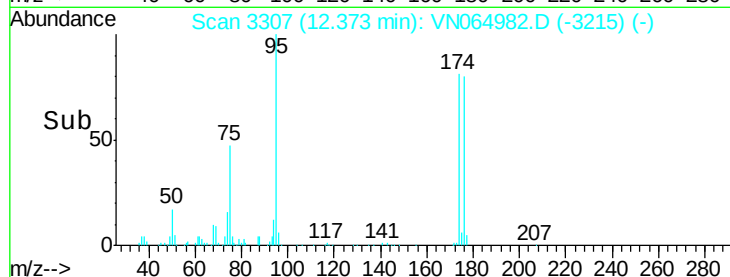
Abundance Ion 94.90 (94.60 to 95.60): VN064779.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN064779.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN064779.D (-3294) (-)

12.37

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

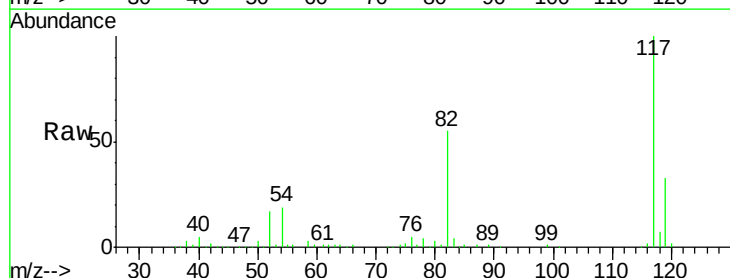
Tgt Ion: 117 Resp: 337882

Ion Ratio Lower Upper

117 100

82 54.6 44.2 66.2

119 33.0 25.8 38.6



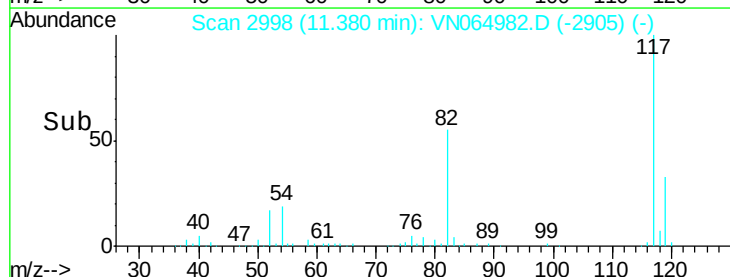
Abundance Ion 116.90 (116.60 to 117.60): VN064779.D (-2984) (-)

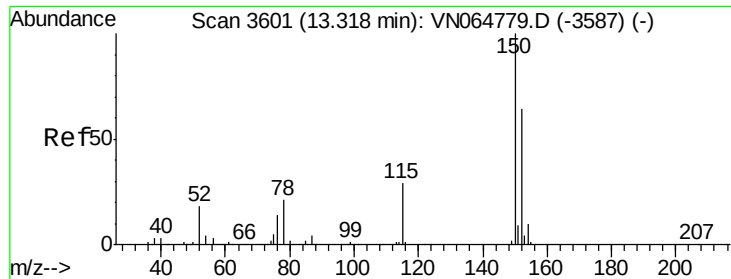
Ion 82.00 (81.70 to 82.70): VN064779.D (-2984) (-)

Ion 118.90 (118.60 to 119.60): VN064779.D (-2984) (-)

11.38

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA\_N

ClientSampleId :

PB133456ZHE#19

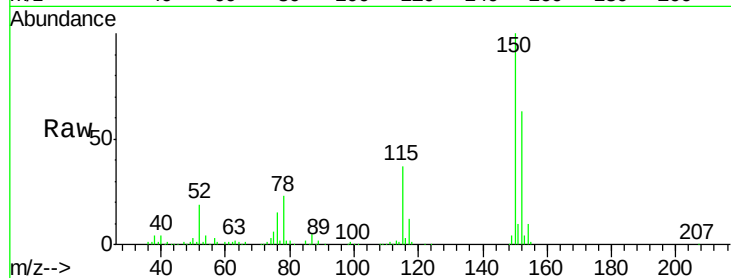
Tot Ion:152 Resp: 138114

Ion Ratio Lower Upper

152 100

115 59.1 29.7 89.1

150 159.3 0.0 350.6



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

