

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120420\  
 Data File : VN064923.D  
 Acq On : 4 Dec 2020 16:54  
 Operator : JC/MD  
 Sample : L4954-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS013-13-6093-120120

Quant Time: Jan 23 06:10:15 2021  
 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      | 7.63  | 168  | 170341   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 307499   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 318548   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 143212   | 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       | 107560   | 54.31 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =     | 108.62% |          |
| 35) Dibromofluoromethane    |        | 7.55  | 113      | 98316    | 53.43 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =     | 106.86% |          |
| 50) Toluene-d8              |        | 10.06 | 98       | 383421   | 51.00 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =     | 102.00% |          |
| 62) 4-Bromofluorobenzene    |        | 12.38 | 95       | 149036   | 55.39 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =     | 110.78% |          |

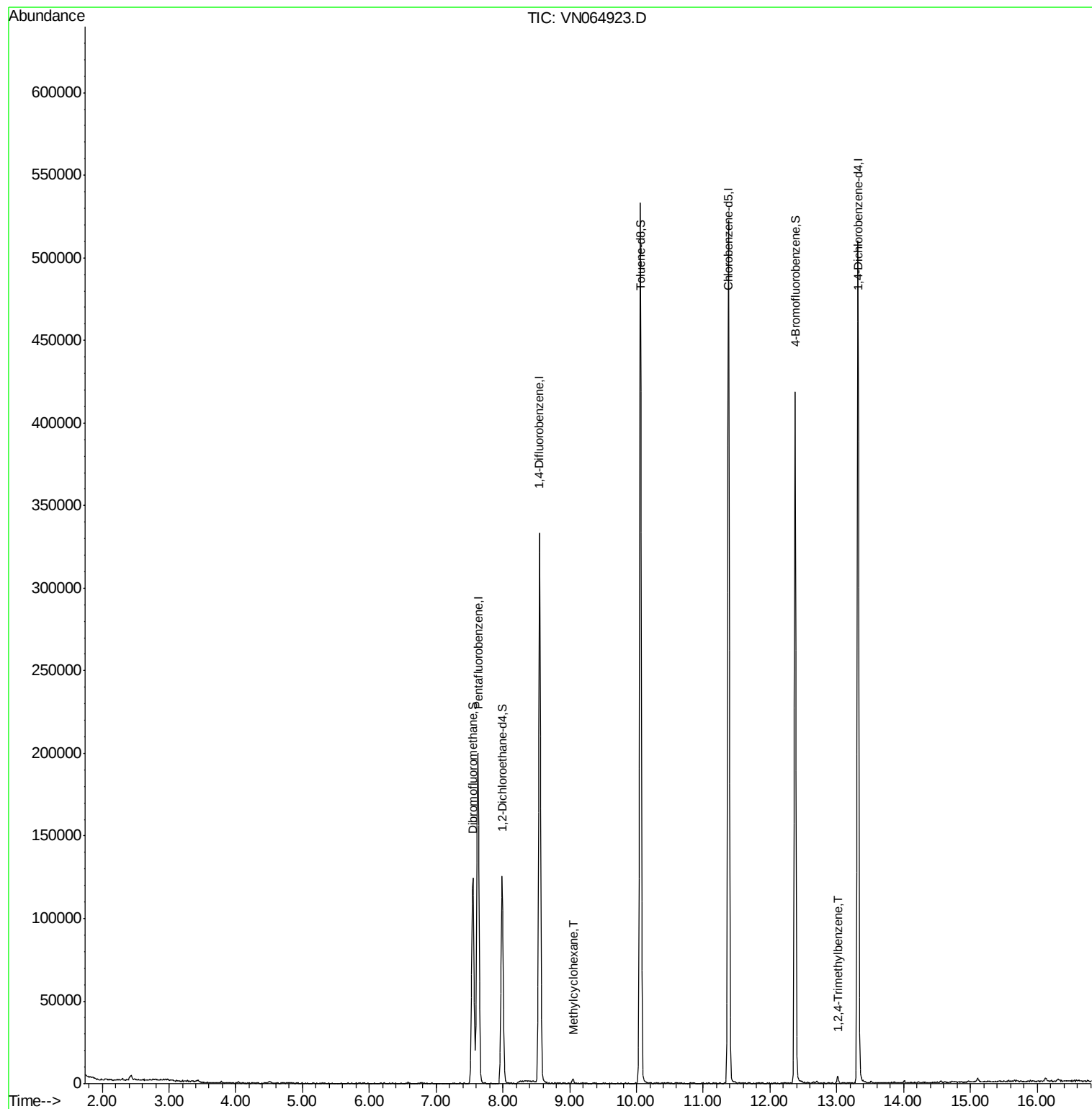
| Target Compounds           |  | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|--|-------|------|----------|-------|--------|--------|
| 39) Methylcyclohexane      |  | 9.05  | 83   | 1291     | 0.421 | ug/l # | 91     |
| 84) 1,2,4-Trimethylbenzene |  | 13.02 | 105  | 3384     | 0.404 | ug/l   | 97     |

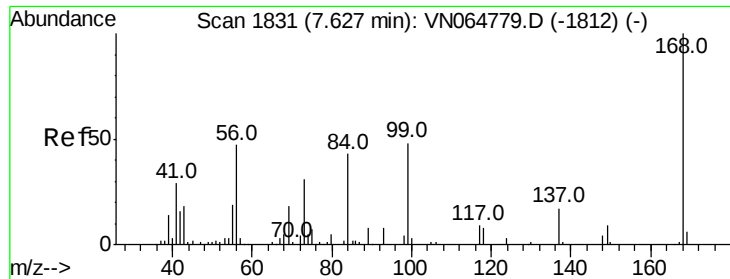
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4954-06  
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SS013-13-6093-120120

Quant Time: Jan 23 06:10:15 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
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: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA\_N

ClientSampleId :

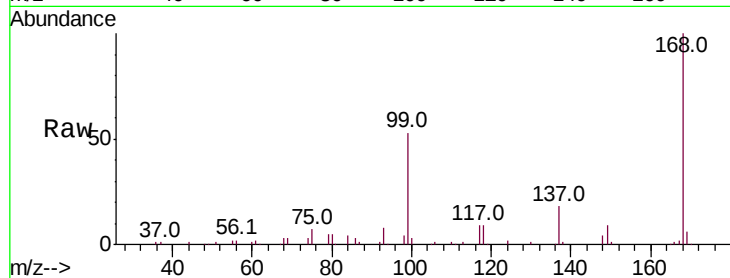
SS013-13-6093-120120

Tot Ion:168 Resp: 170341

Ion Ratio Lower Upper

168 100

99 53.0 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

60000

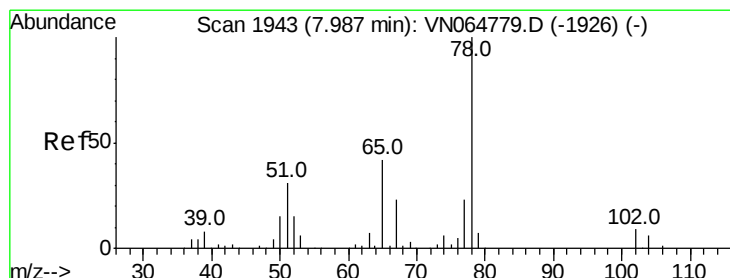
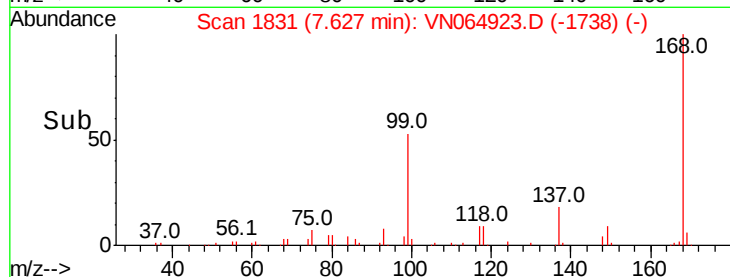
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.314 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064923.D

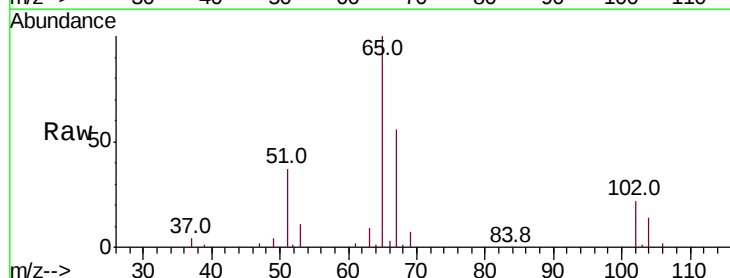
Acq: 4 Dec 2020 16:54

Tgt Ion: 65 Resp: 107560

Ion Ratio Lower Upper

65 100

67 54.0 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

7.99

50000

40000

30000

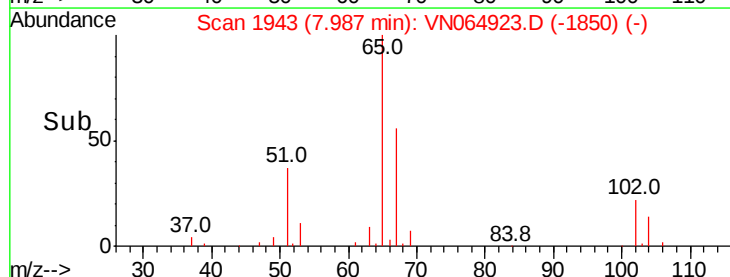
20000

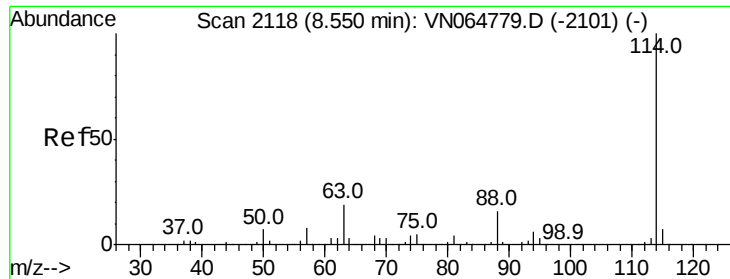
10000

0

7.90 8.00 8.10

Time-->

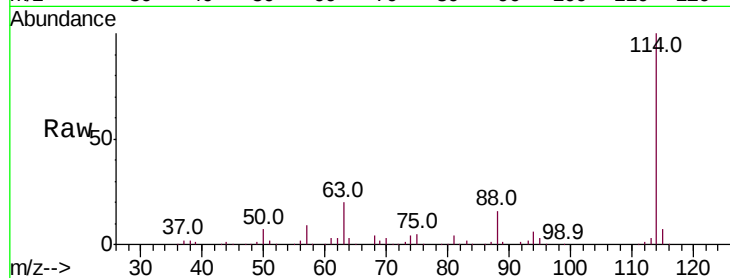




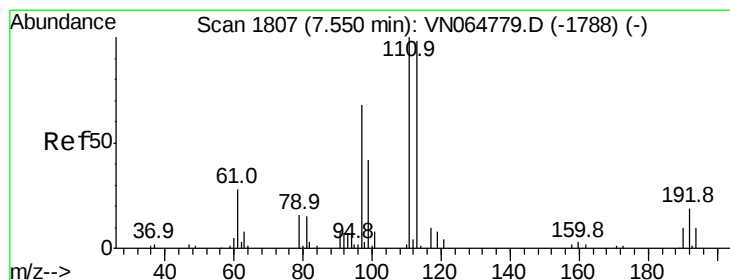
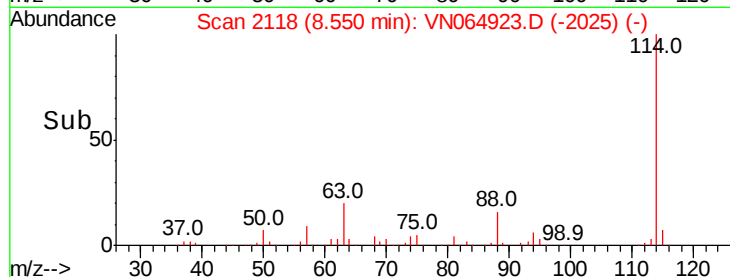
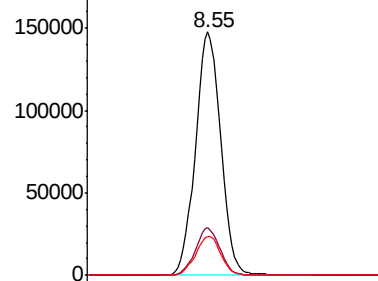
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064923.D  
 Acq: 4 Dec 2020 16:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS013-13-6093-120120

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.7  | 0.0   | 38.6  |
| 88      | 16.0  | 0.0   | 32.6  |

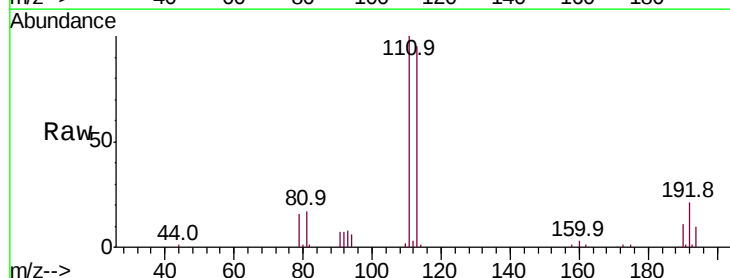


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

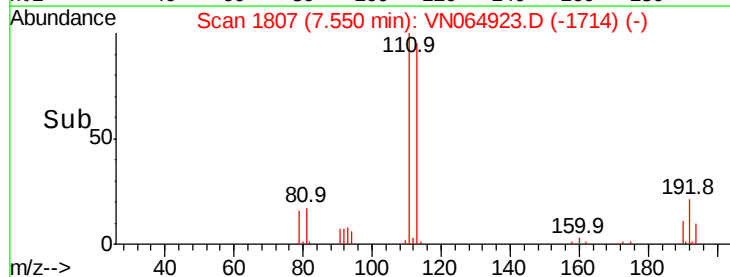
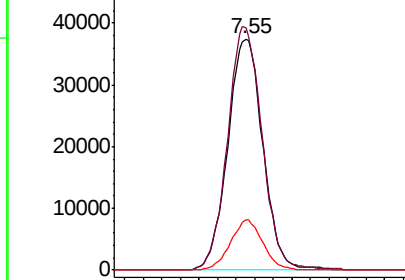


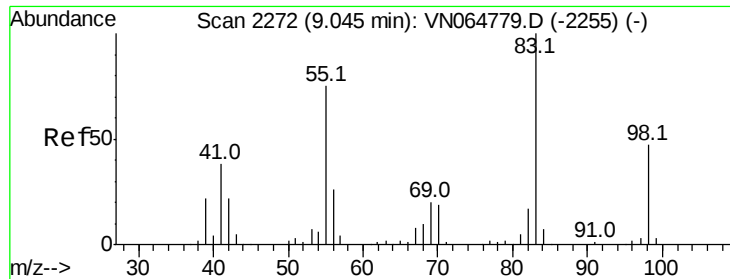
#35  
 Dibromofluoromethane  
 Concen: 53.433 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN064923.D  
 Acq: 4 Dec 2020 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 81.6  | 122.4 |
| 192     | 19.9  | 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

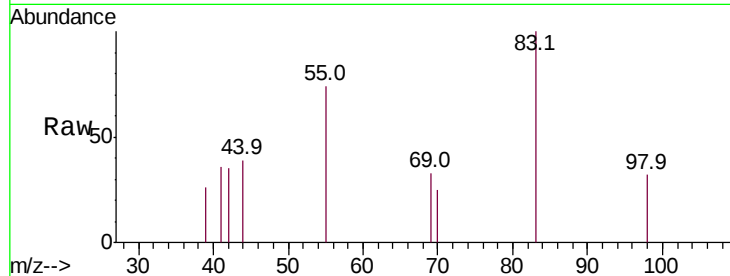




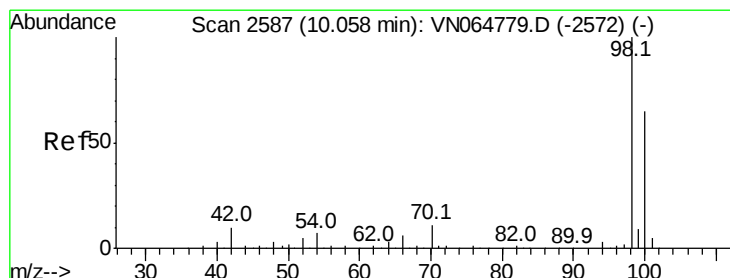
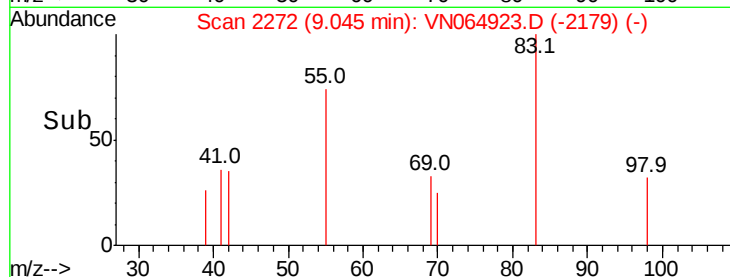
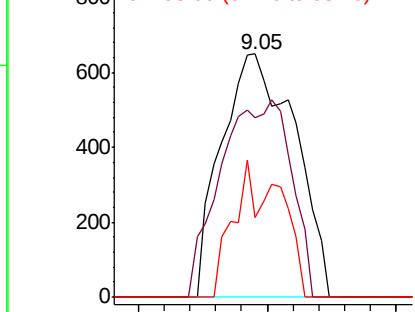
#39  
Methvlcvclohexane  
Concen: 0.421 ug/l  
RT: 9.05 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: VN064923.D  
Acq: 4 Dec 2020 16:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
SS013-13-6093-120120

Tot Ion: 83 Resp: 1291  
Ion Ratio Lower Upper  
83 100  
55 73.8 60.2 90.2  
98 32.5 37.4 56.2#

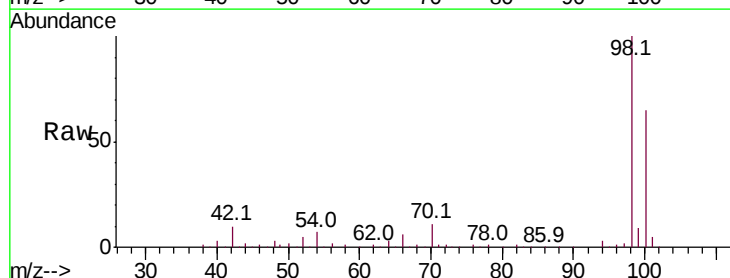


Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

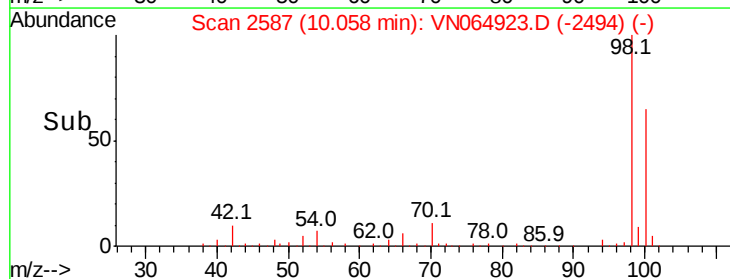
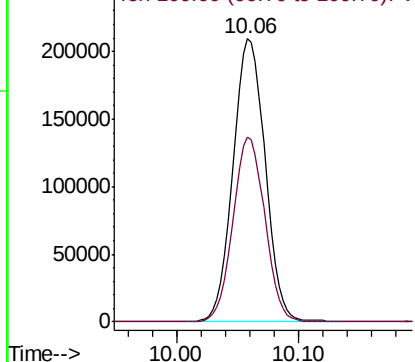


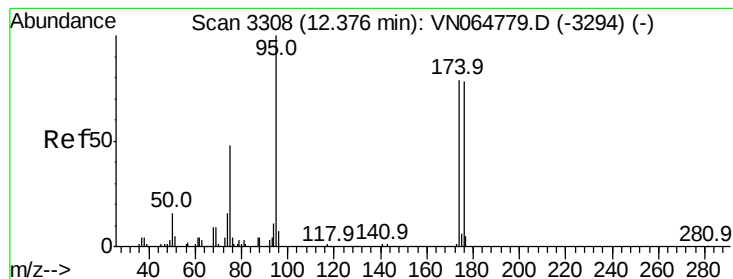
#50  
Toluene-d8  
Concen: 51.000 ug/l  
RT: 10.06 min Scan# 2587  
Delta R.T. 0.00 min  
Lab File: VN064923.D  
Acq: 4 Dec 2020 16:54

Tgt Ion: 98 Resp: 383421  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 55.392 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA\_N

ClientSampleId :

SS013-13-6093-120120

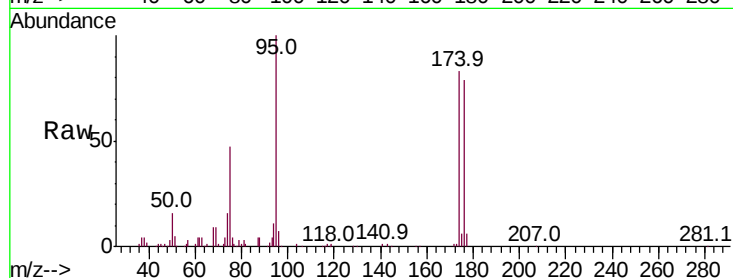
Tot Ion: 95 Resp: 149036

Ion Ratio Lower Upper

95 100

174 82.6 0.0 160.4

176 78.2 0.0 158.4



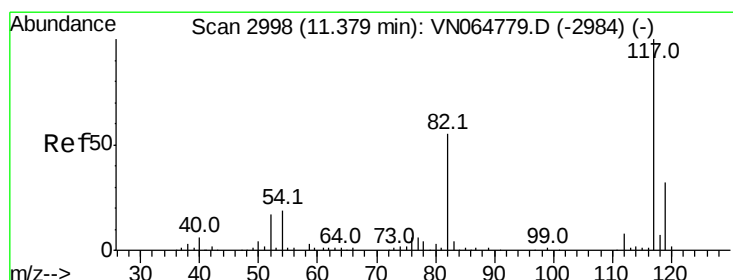
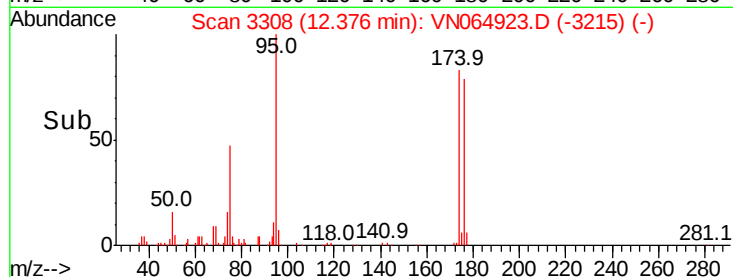
Abundance Ion 94.90 (94.60 to 95.60): VN064923.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN064923.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN064923.D (-2905) (-)

12.38

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

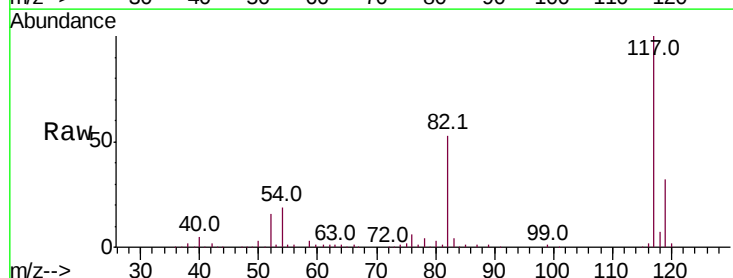
Tgt Ion: 117 Resp: 318548

Ion Ratio Lower Upper

117 100

82 53.5 44.2 66.2

119 32.1 25.8 38.6



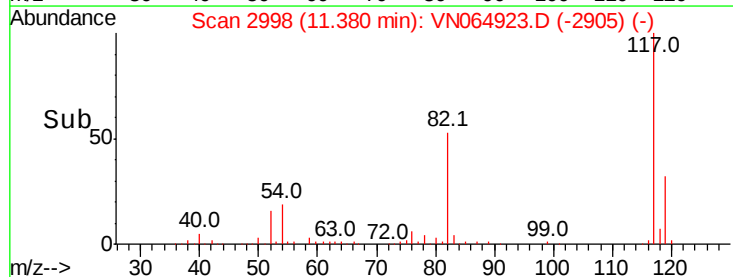
Abundance Ion 116.90 (116.60 to 117.60): VN064923.D (-2905) (-)

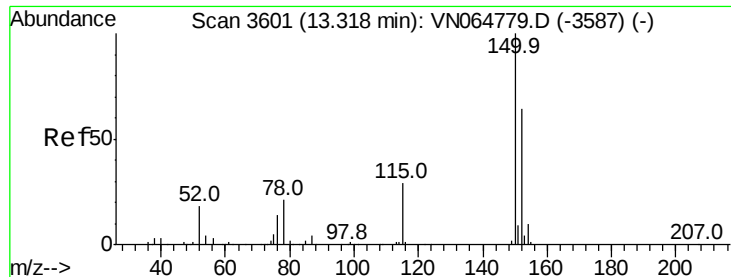
Ion 82.00 (81.70 to 82.70): VN064923.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN064923.D (-2905) (-)

11.38

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064923.D

Acq: 4 Dec 2020 16:54

Instrument :

MSVOA\_N

ClientSampleId :

SS013-13-6093-120120

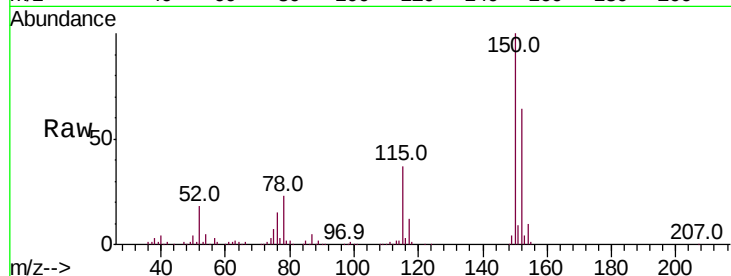
Tot Ion:152 Resp: 143212

Ion Ratio Lower Upper

152 100

115 59.1 29.7 89.1

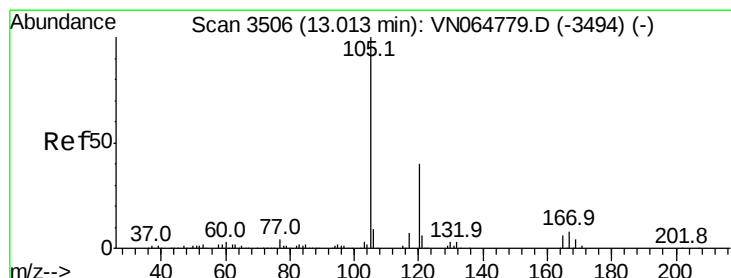
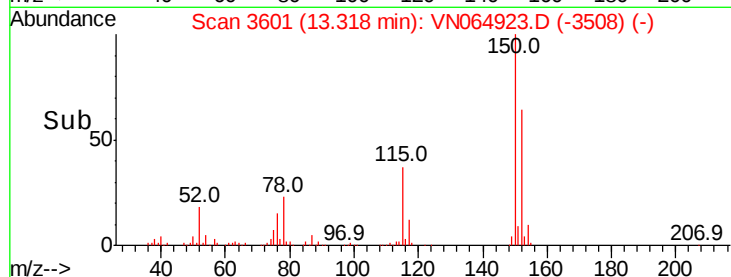
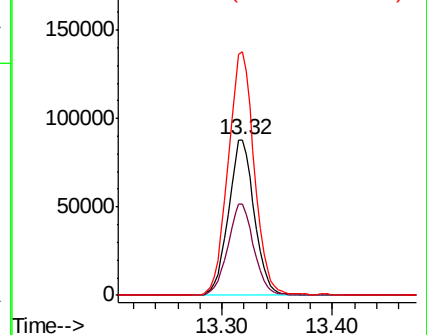
150 158.2 0.0 350.6



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



#84

1,2,4-Trimethylbenzene

Concen: 0.404 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN064923.D

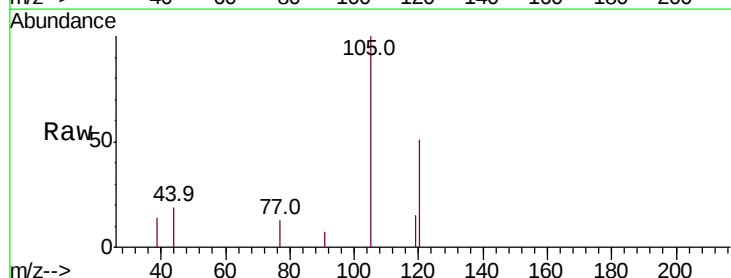
Acq: 4 Dec 2020 16:54

Tgt Ion:105 Resp: 3384

Ion Ratio Lower Upper

105 100

120 43.8 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

