

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051823\  
 Data File : VN077748.D  
 Acq On : 18 May 2023 19:51  
 Operator : JC\MD  
 Sample : 02834-12  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE125D3-20230517

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/19/2023  
 Supervised By : Mahesh Dadoda 05/19/2023

Quant Time: May 19 07:37:42 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Pentafluorobenzene        | 8.235          | 168  | 349432     | 50.000  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.112          | 114  | 631656     | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 556745     | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 194682     | 50.000  | ug/l  | 0.00     |
|                              |                |      |            |         |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 242655     | 46.411  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 92.820% |       |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 204232     | 49.583  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 99.160% |       |          |
| 50) Toluene-d8               | 10.571         | 98   | 787316     | 49.660  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 99.320% |       |          |
| 62) 4-Bromofluorobenzene     | 12.859         | 95   | 256874     | 45.876  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 91.760% |       |          |
|                              |                |      |            |         |       |          |
| Target Compounds             |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 1037       | 0.261   | ug/l  | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 563307     | 145.674 | ug/l  | 99       |
| 12) 1,1-Dichloroethene       | 4.359          | 96   | 5592m      | 1.522   | ug/l  |          |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 7743       | 1.564   | ug/l  | 96       |
| 38) Carbon Tetrachloride     | 8.377          | 117  | 2111m      | 0.347   | ug/l  |          |
| 44) Trichloroethene          | 9.359          | 130  | 562163     | 124.879 | ug/l  | 98       |
| 64) Tetrachloroethene        | 11.112         | 164  | 44815      | 11.510  | ug/l  | 93       |
| -----                        |                |      |            |         |       |          |

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

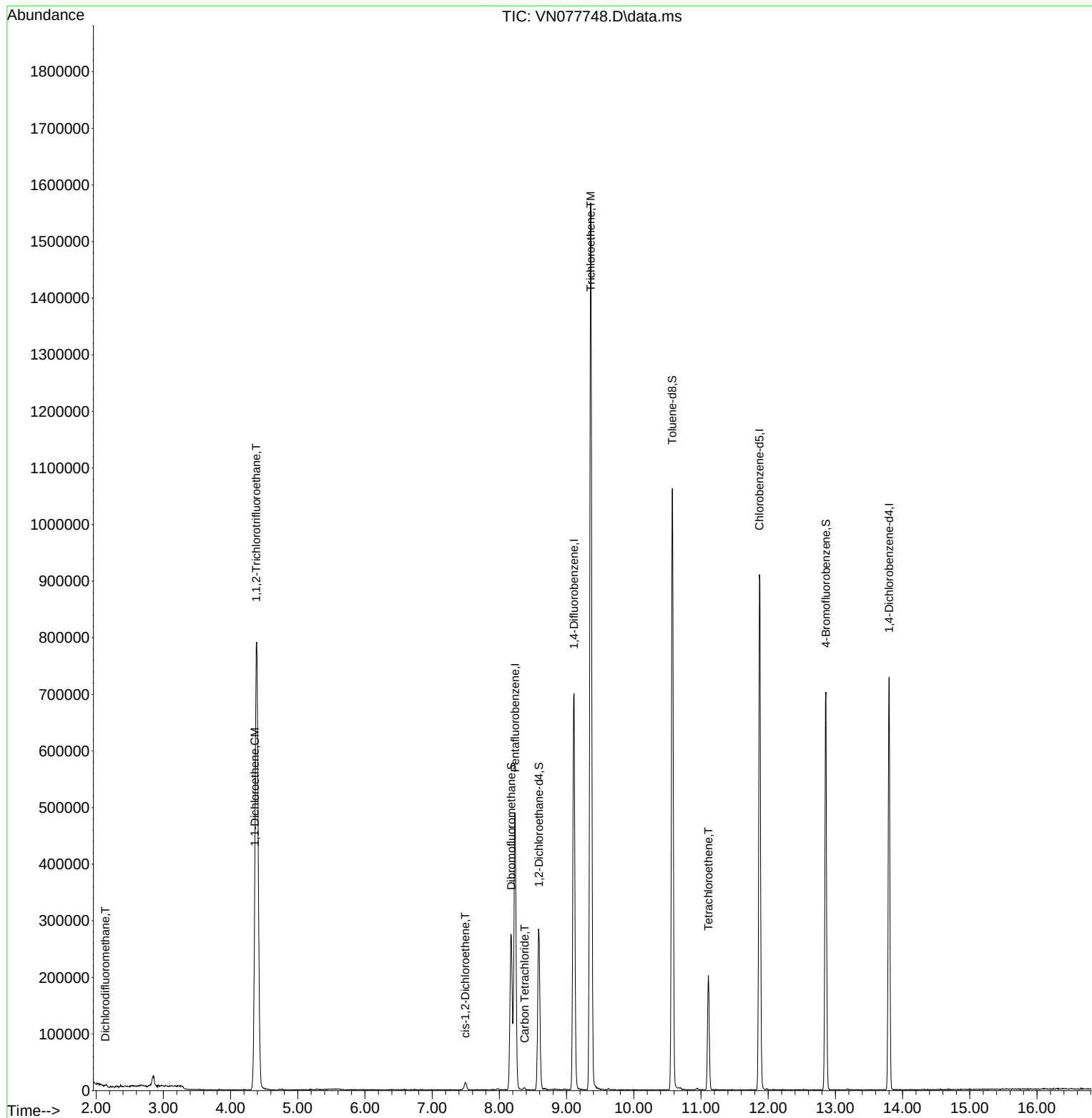
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051823\  
Data File : VN077748.D  
Acq On : 18 May 2023 19:51  
Operator : JC\MD  
Sample : 02834-12  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 20 Sample Multiplier: 1

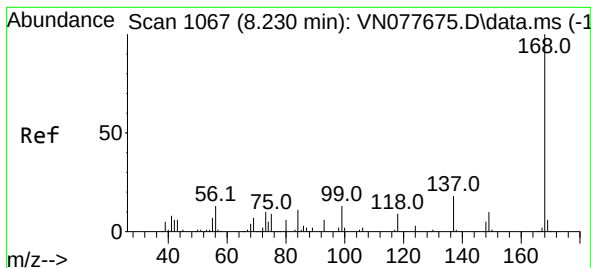
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D3-20230517

Quant Time: May 19 07:37:42 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/19/2023  
Supervised By :Mahesh Dadoda 05/19/2023





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

Instrument :

MSVOA\_N

ClientSampleId :

RE125D3-20230517

Tgt Ion:168 Resp: 34943

Ion Ratio Lower Upper

168 100

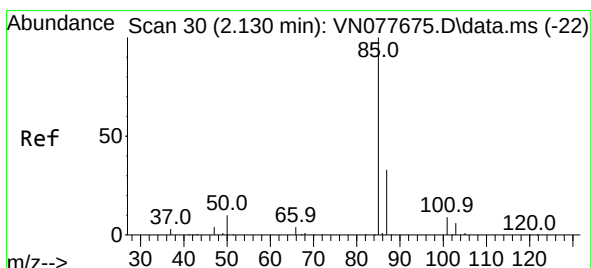
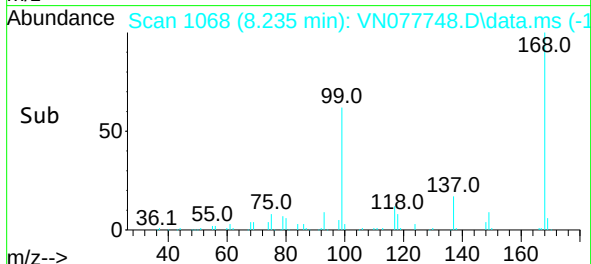
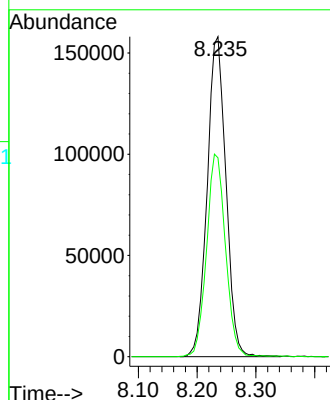
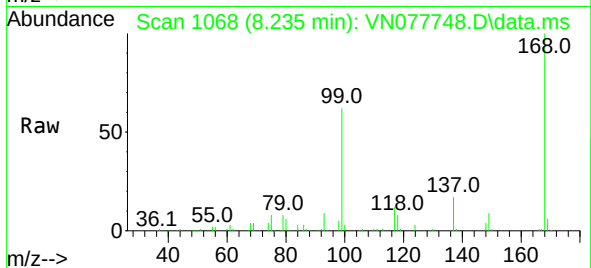
99 62.0 53.0 79.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/19/2023

Supervised By :Mahesh Dadoda 05/19/2023



#2

Dichlorodifluoromethane

Concen: 0.261 ug/l

RT: 2.136 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN077748.D

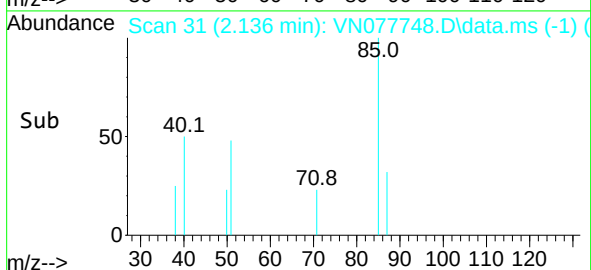
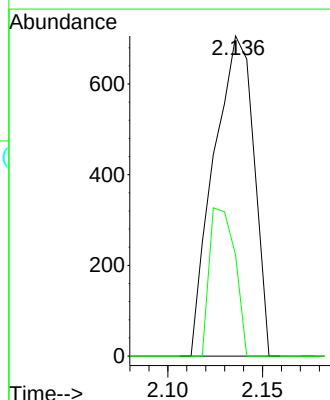
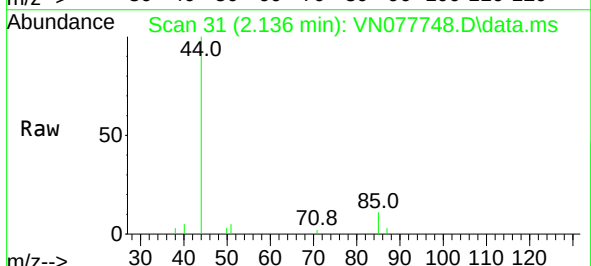
Acq: 18 May 2023 19:51

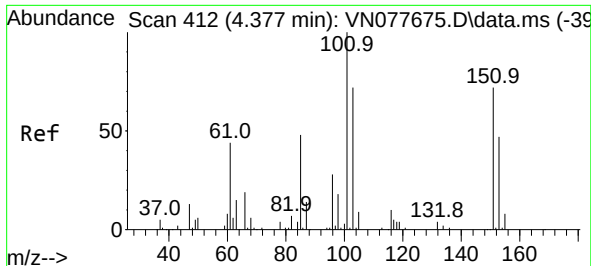
Tgt Ion: 85 Resp: 1037

Ion Ratio Lower Upper

85 100

87 31.6 15.8 47.4





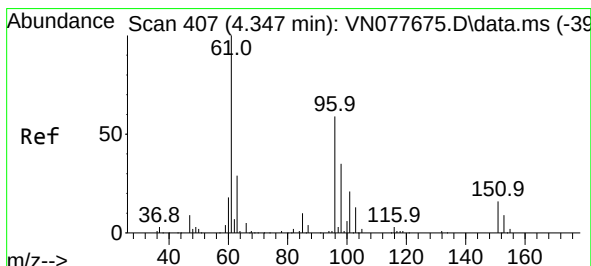
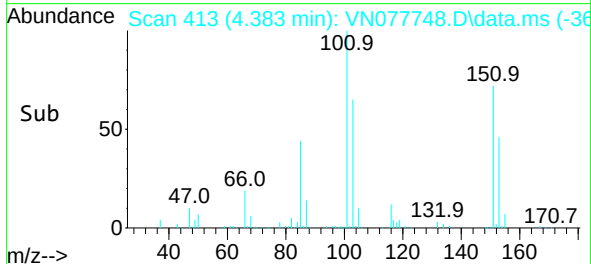
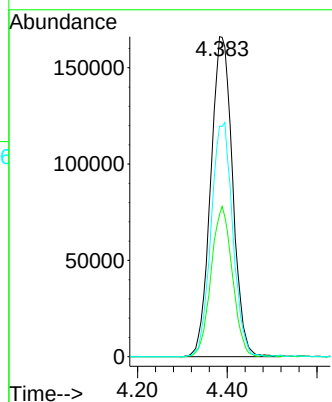
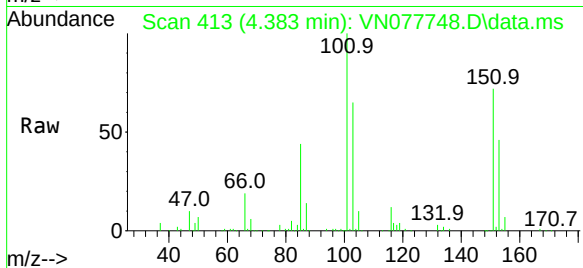
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 145.674 ug/l  
RT: 4.383 min Scan# 412  
Delta R.T. 0.006 min  
Lab File: VN077748.D  
Acq: 18 May 2023 19:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D3-20230517

Tgt Ion:101 Resp: 56330  
Ion Ratio Lower Upper  
101 100  
85 45.5 36.6 55.0  
151 72.5 57.6 86.4

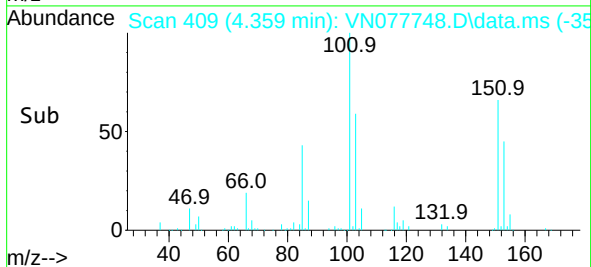
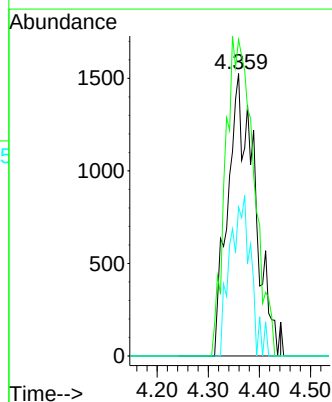
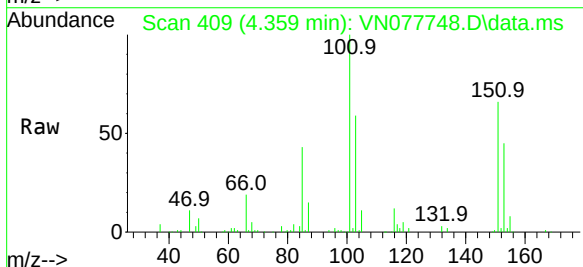
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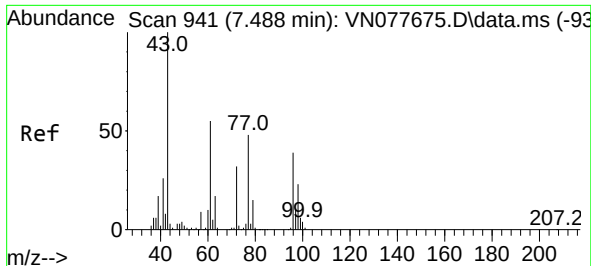
Reviewed By :John Carlone 05/19/2023  
Supervised By :Mahesh Dadoda 05/19/2023



#12  
1,1-Dichloroethene  
Concen: 1.522 ug/l m  
RT: 4.359 min Scan# 409  
Delta R.T. 0.012 min  
Lab File: VN077748.D  
Acq: 18 May 2023 19:51

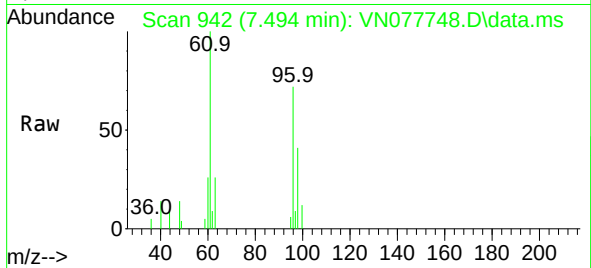
Tgt Ion: 96 Resp: 5592  
Ion Ratio Lower Upper  
96 100  
61 112.1 112.7 169.1#  
98 52.8 51.2 76.8





#27  
 cis-1,2-Dichloroethene  
 Concen: 1.564 ug/l  
 RT: 7.494 min Scan# 941  
 Delta R.T. 0.006 min  
 Lab File: VN077748.D  
 Acq: 18 May 2023 19:51

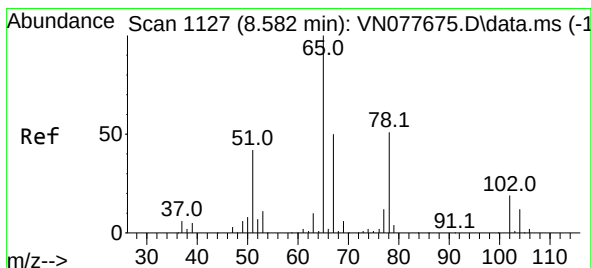
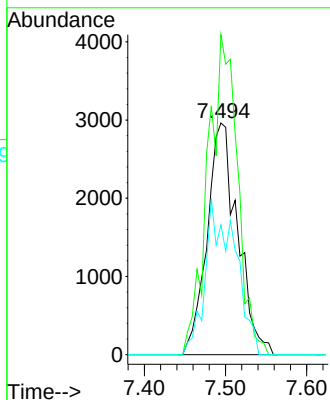
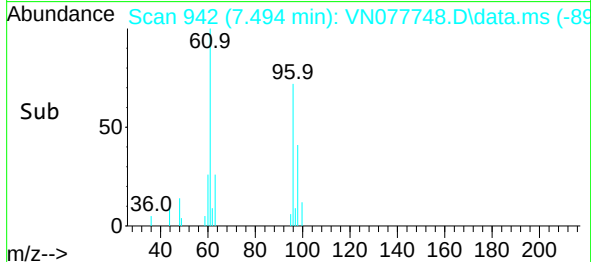
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE125D3-20230517



Tgt Ion: 96 Resp: 774  
 Ion Ratio Lower Upper  
 96 100  
 61 133.6 0.0 255.2  
 98 65.7 0.0 128.8

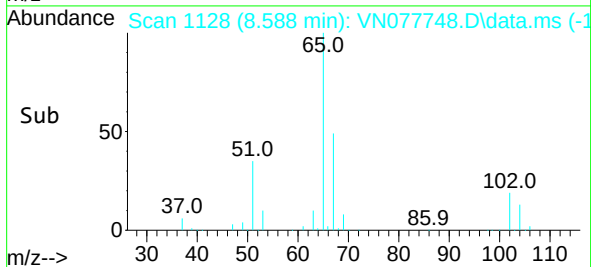
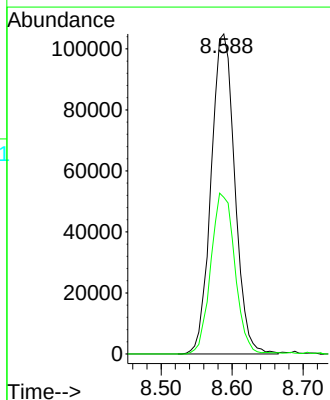
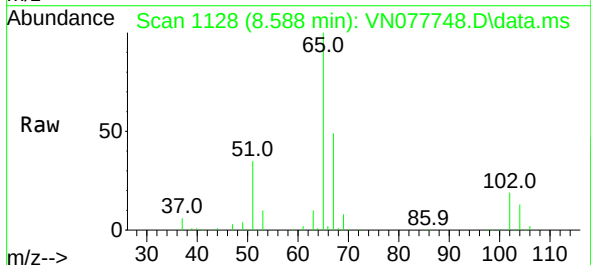
Manual Integrations  
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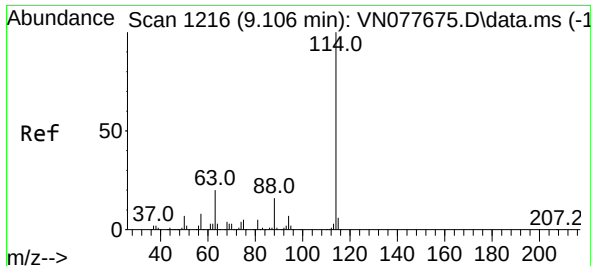
Reviewed By :John Carlone 05/19/2023  
 Supervised By :Mahesh Dadoda 05/19/2023



#33  
 1,2-Dichloroethane-d4  
 Concen: 46.411 ug/l  
 RT: 8.588 min Scan# 1128  
 Delta R.T. 0.006 min  
 Lab File: VN077748.D  
 Acq: 18 May 2023 19:51

Tgt Ion: 65 Resp: 242655  
 Ion Ratio Lower Upper  
 65 100  
 67 51.1 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

Instrument :

MSVOA\_N

ClientSampleId :

RE125D3-20230517

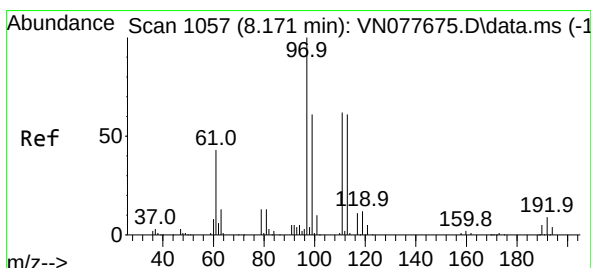
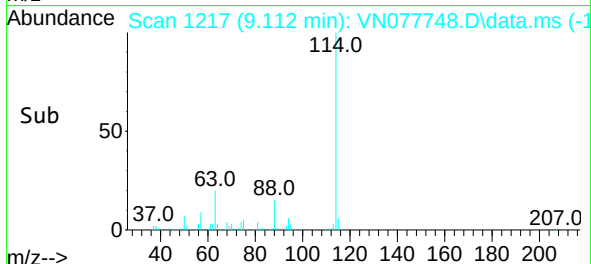
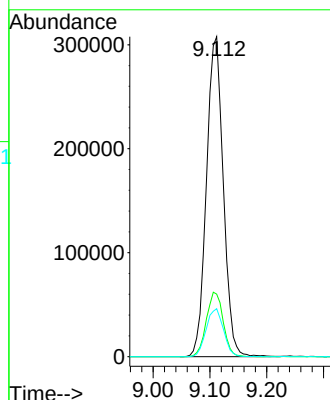
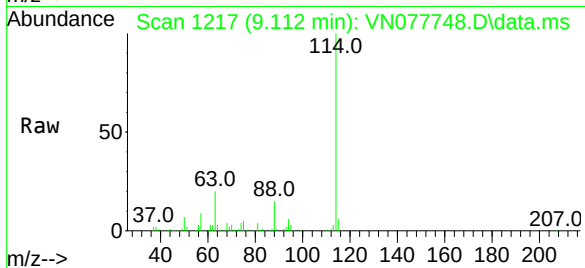
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 631650 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 19.5  | 0.0   | 36.4   |
| 88        | 15.0  | 0.0   | 30.6   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/19/2023

Supervised By :Mahesh Dadoda 05/19/2023



#35

Dibromofluoromethane

Concen: 49.583 ug/l

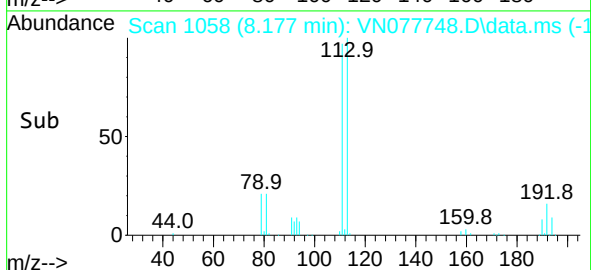
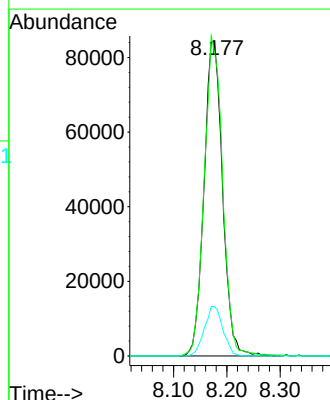
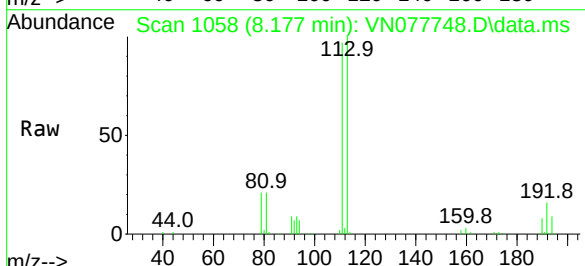
RT: 8.177 min Scan# 1058

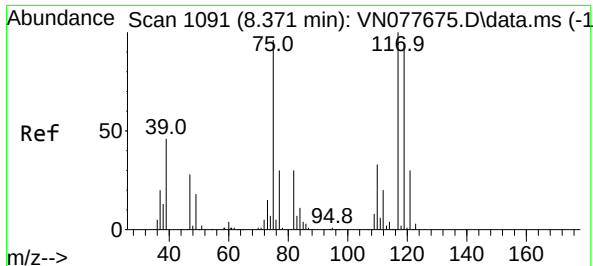
Delta R.T. 0.006 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 204232 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 101.0 | 82.6  | 123.8  |
| 192       | 15.7  | 12.7  | 19.1   |





#38

Carbon Tetrachloride

Concen: 0.347 ug/l m

RT: 8.377 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

Instrument :

MSVOA\_N

ClientSampleId :

RE125D3-20230517

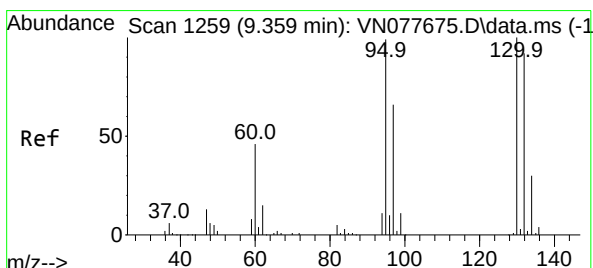
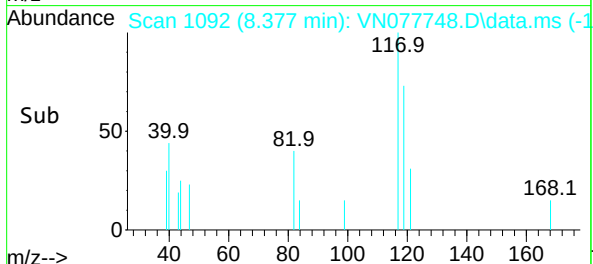
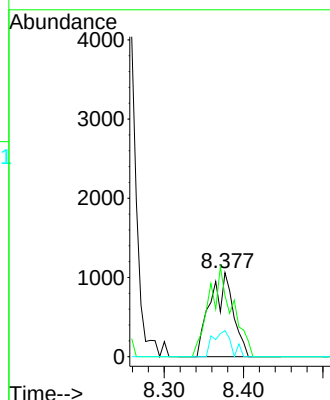
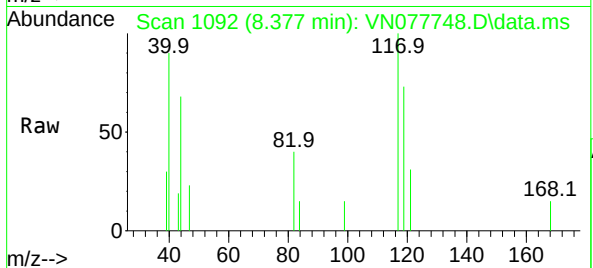
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 211   |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 72.6  | 77.3  | 115.9 |
| 121       | 31.0  | 23.3  | 34.9  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/19/2023

Supervised By :Mahesh Dadoda 05/19/2023



#44

Trichloroethene

Concen: 124.879 ug/l

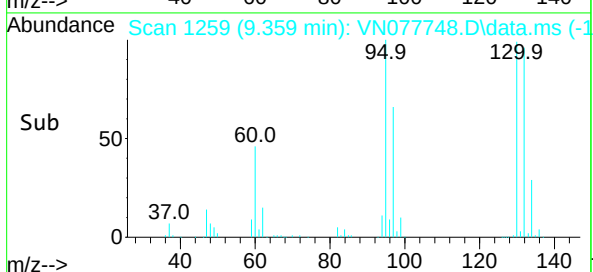
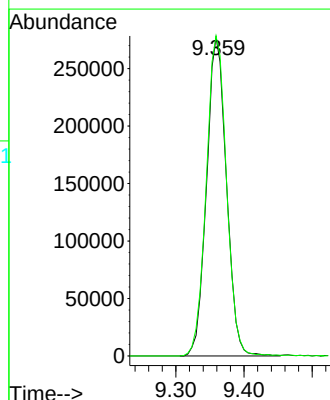
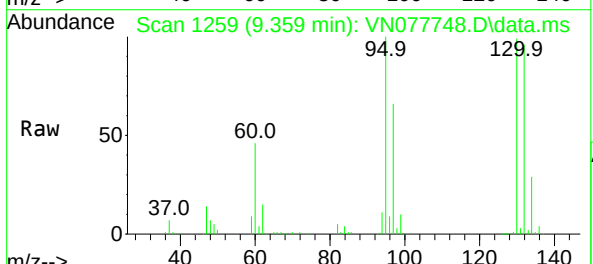
RT: 9.359 min Scan# 1259

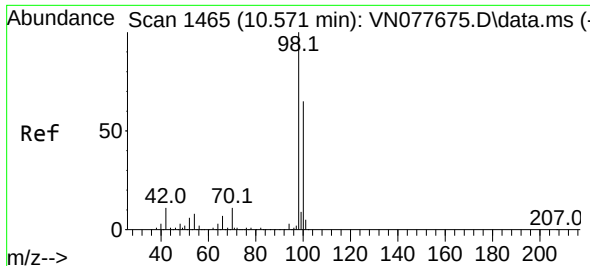
Delta R.T. -0.000 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

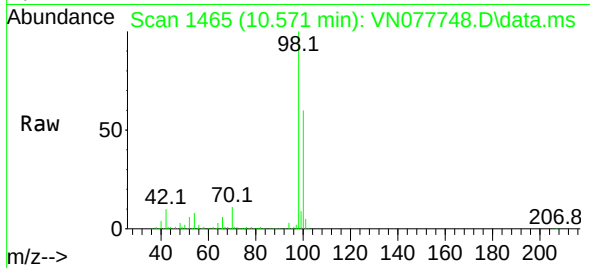
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 130   | Resp: | 562163 |
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 100.5 | 0.0   | 204.6  |





#50  
Toluene-d8  
Concen: 49.660 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN077748.D  
Acq: 18 May 2023 19:51

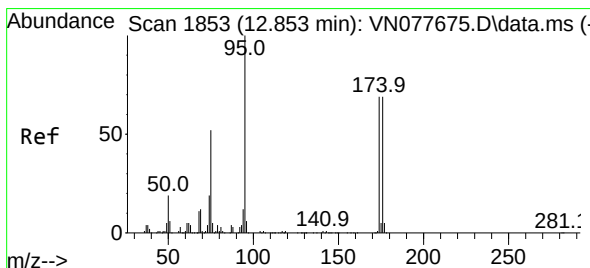
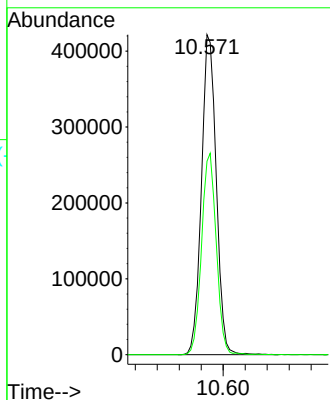
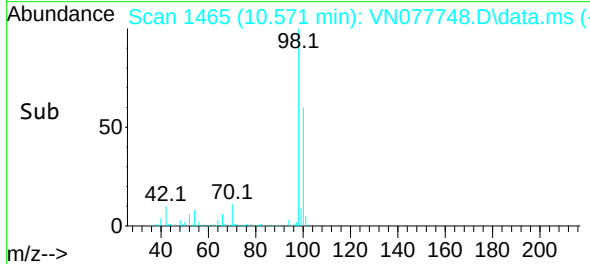
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D3-20230517



Tgt Ion: 98 Resp: 787310  
Ion Ratio Lower Upper  
98 100  
100 62.6 52.0 78.0

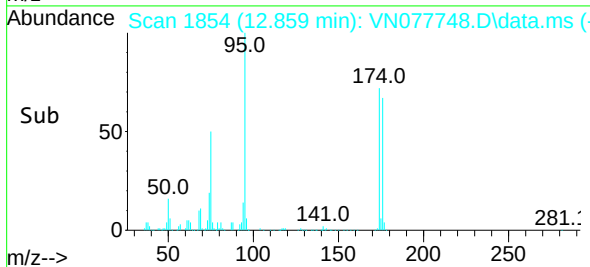
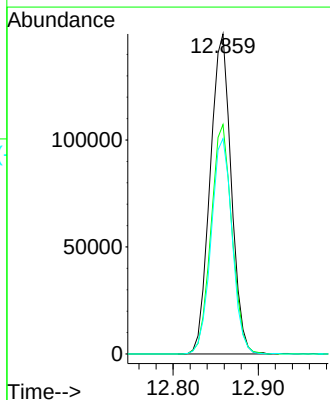
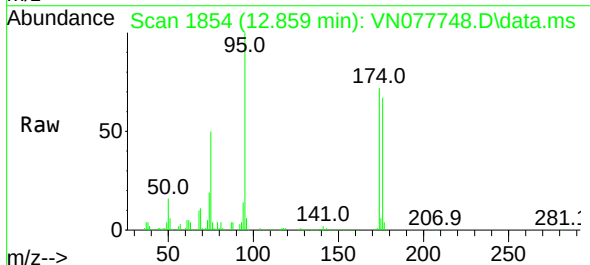
Manual Integrations  
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Reviewed By :John Carlone 05/19/2023  
Supervised By :Mahesh Dadoda 05/19/2023

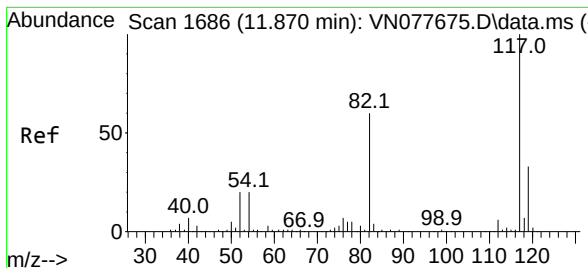


#62  
4-Bromofluorobenzene  
Concen: 45.876 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN077748.D  
Acq: 18 May 2023 19:51

Tgt Ion: 95 Resp: 256874  
Ion Ratio Lower Upper  
95 100  
174 71.4 0.0 143.8  
176 67.0 0.0 135.8

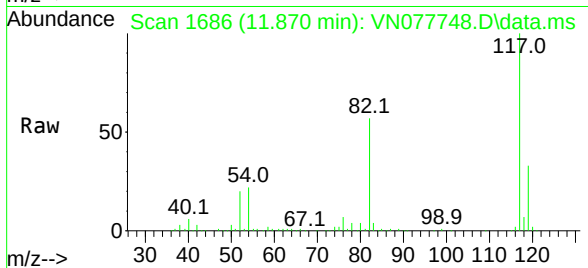






#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VN077748.D  
Acq: 18 May 2023 19:51

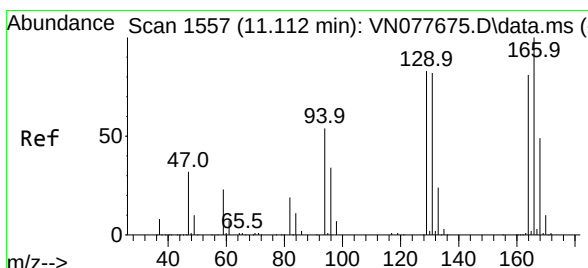
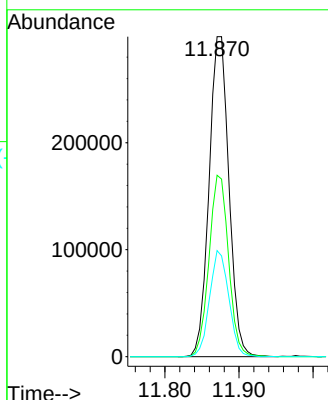
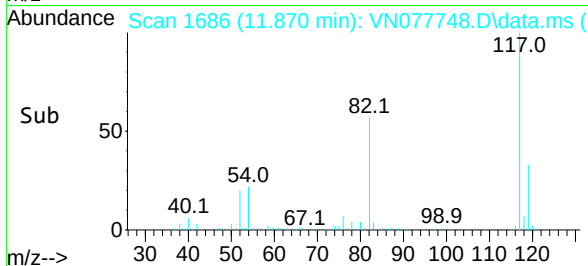
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D3-20230517



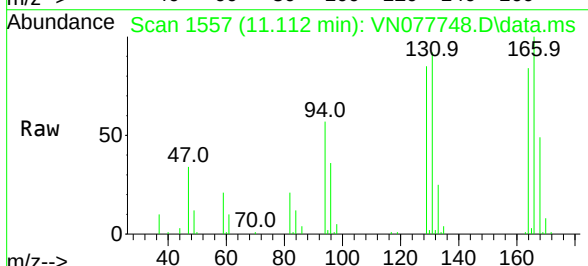
Tgt Ion:117 Resp: 556749  
Ion Ratio Lower Upper  
117 100  
82 56.7 44.0 66.0  
119 33.2 25.6 38.4

Manual Integrations  
APPROVED

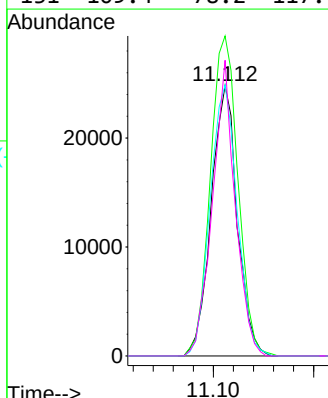
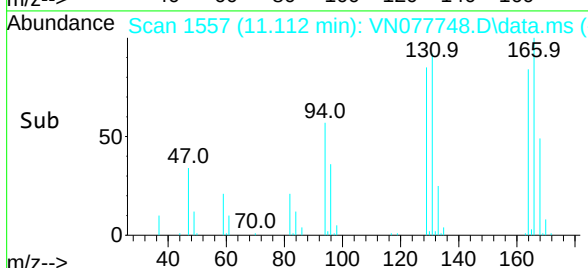
Reviewed By :John Carlone 05/19/2023  
Supervised By :Mahesh Dadoda 05/19/2023

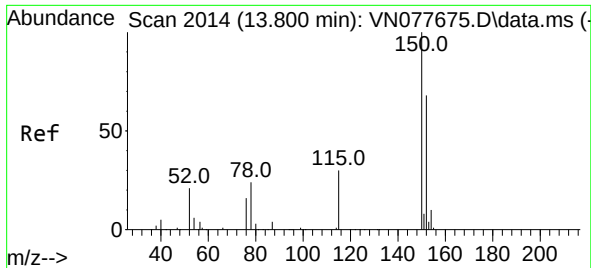


#64  
Tetrachloroethene  
Concen: 11.510 ug/l  
RT: 11.112 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: VN077748.D  
Acq: 18 May 2023 19:51



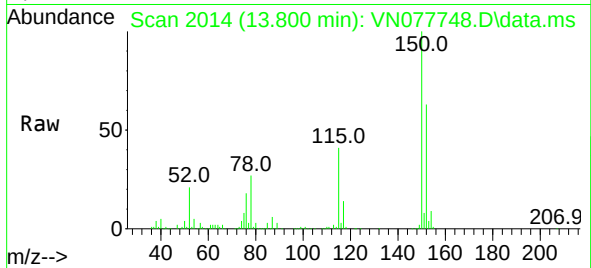
Tgt Ion:164 Resp: 44815  
Ion Ratio Lower Upper  
164 100  
166 118.4 101.4 152.0  
129 100.2 82.4 123.6  
131 109.4 78.2 117.4





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.800 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VN077748.D  
 Acq: 18 May 2023 19:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE125D3-20230517



Tgt Ion:152 Resp: 19468  
 Ion Ratio Lower Upper  
 152 100  
 115 62.9 32.3 96.8  
 150 158.3 0.0 355.8

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 05/19/2023  
 Supervised By :Mahesh Dadoda 05/19/2023

