

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061622\  
 Data File : VN072898.D  
 Acq On : 16 Jun 2022 23:16  
 Operator : JC\MD  
 Sample : N3202-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-15

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/20/2022  
 Supervised By : Mahesh Dadoda 06/30/2022

Quant Time: Jun 17 06:08:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061622W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 17 06:04:26 2022  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 8.016          | 168  | 539421     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.898          | 114  | 895559     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.680         | 117  | 806770     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.610         | 152  | 353907     | 50.000  | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.369          | 65   | 431921     | 43.340  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = | 86.680% |        |          |
| 35) Dibromofluoromethane    | 7.951          | 113  | 368919     | 45.350  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = | 90.700% |        |          |
| 50) Toluene-d8              | 10.375         | 98   | 1097982    | 34.482  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = | 68.960% |        |          |
| 62) 4-Bromofluorobenzene    | 12.663         | 95   | 457800     | 41.445  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = | 82.900% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol      | 5.293          | 59   | 1701355    | 655.671 | ug/l   | 99       |
| 16) Acetone                 | 4.234          | 43   | 96776      | 19.239  | ug/l   | 93       |
| 17) Carbon Disulfide        | 4.457          | 76   | 6666       | 0.327   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether | 5.534          | 73   | 989022     | 35.936  | ug/l   | 99       |
| 22) Diisopropyl ether       | 6.416          | 45   | 101047     | 3.585   | ug/l   | 93       |
| 25) 2-Butanone              | 7.269          | 43   | 43938      | 5.484   | ug/l   | 97       |
| 31) Cyclohexane             | 8.022          | 56   | 52878      | 3.958   | ug/l # | 86       |
| 39) Methylcyclohexane       | 9.392          | 83   | 14583      | 1.058   | ug/l   | 95       |
| 40) Benzene                 | 8.387          | 78   | 4226409    | 119.397 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone    | 10.269         | 43   | 18796      | 1.161   | ug/l   | 99       |
| 52) Toluene                 | 10.439         | 92   | 603120     | 26.328  | ug/l   | 98       |
| 67) Ethyl Benzene           | 11.780         | 91   | 7293939    | 194.150 | ug/l   | 100      |
| 68) m/p-Xylenes             | 11.892         | 106  | 5459887    | 378.503 | ug/l   | 95       |
| 69) o-Xylene                | 12.216         | 106  | 1148211    | 77.583  | ug/l   | 98       |
| 73) Isopropylbenzene        | 12.516         | 105  | 595298     | 17.638  | ug/l   | 100      |
| 78) n-propylbenzene         | 12.857         | 91   | 991555     | 28.170  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.992         | 105  | 1542675    | 57.037  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.304         | 105  | 6824722    | 262.461 | ug/l   | 98       |
| 85) sec-Butylbenzene        | 13.433         | 105  | 24449m     | 0.779   | ug/l   |          |
| 86) p-Isopropyltoluene      | 13.551         | 119  | 25349      | 1.001   | ug/l # | 76       |
| -----                       |                |      |            |         |        |          |

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

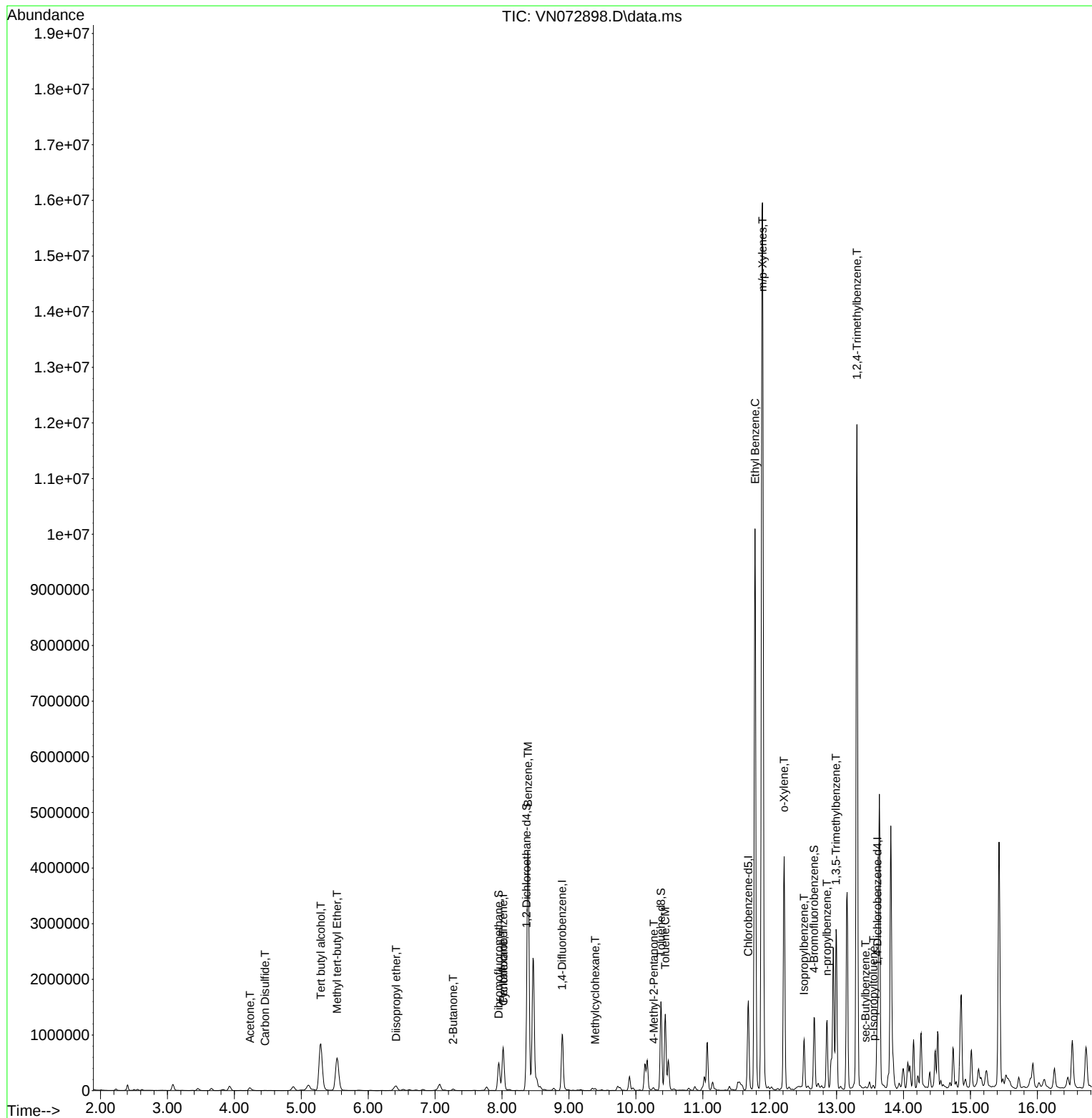
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061622\  
Data File : VN072898.D  
Acq On : 16 Jun 2022 23:16  
Operator : JC\MD  
Sample : N3202-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

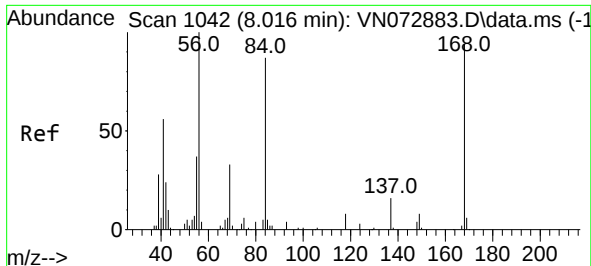
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15

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Supervised By : Mahesh Dadoda 06/30/2022

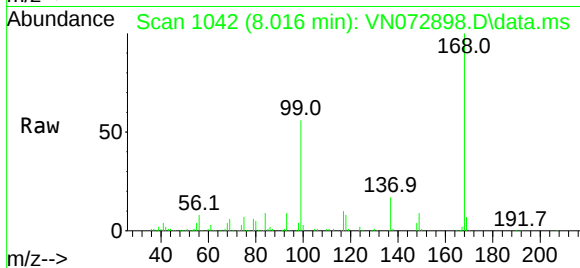
Quant Time: Jun 17 06:08:09 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061622W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 17 06:04:26 2022  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

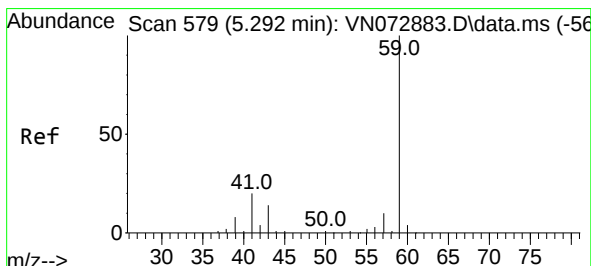
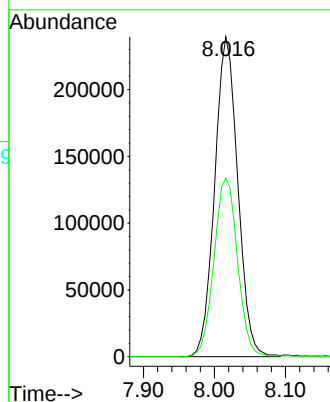
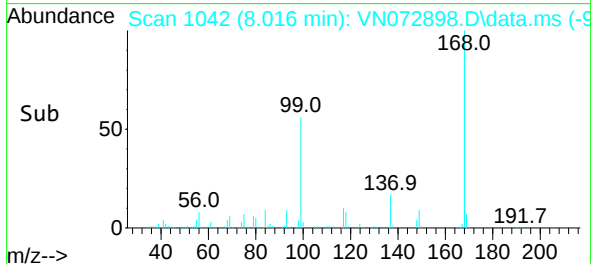
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



Tgt Ion:168 Resp: 53942  
Ion Ratio Lower Upper  
168 100  
99 55.9 42.3 63.5

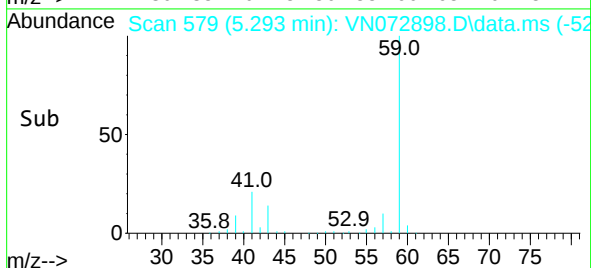
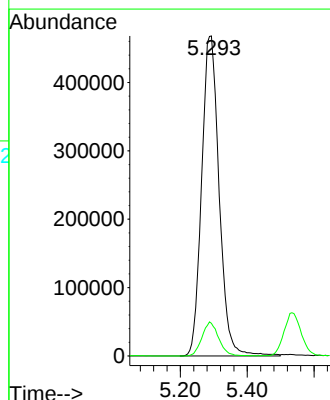
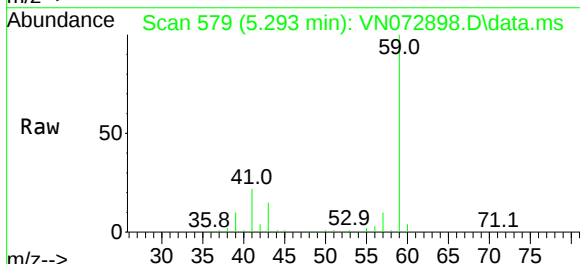
Manual Integrations  
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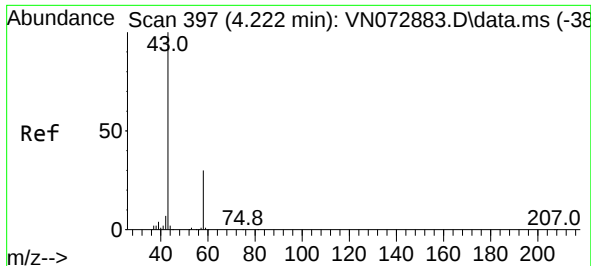
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#11  
Tert butyl alcohol  
Concen: 655.671 ug/l  
RT: 5.293 min Scan# 579  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

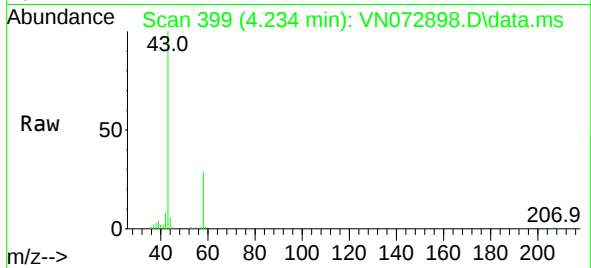
Tgt Ion: 59 Resp: 1701355  
Ion Ratio Lower Upper  
59 100  
57 10.1 8.3 12.5





#16  
Acetone  
Concen: 19.239 ug/l  
RT: 4.234 min Scan# 399  
Delta R.T. 0.012 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

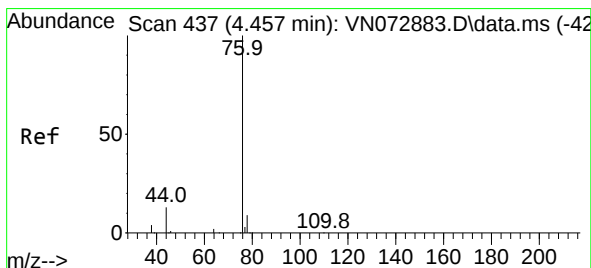
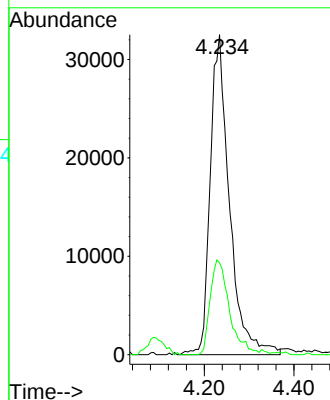
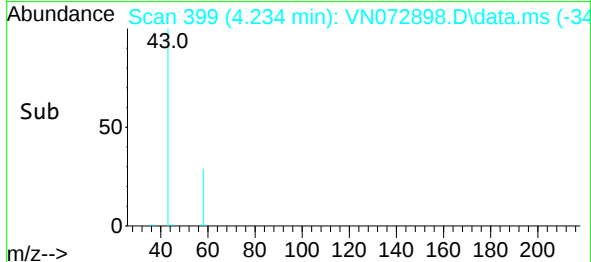
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



Tgt Ion: 43 Resp: 96770  
Ion Ratio Lower Upper  
43 100  
58 28.7 26.0 39.0

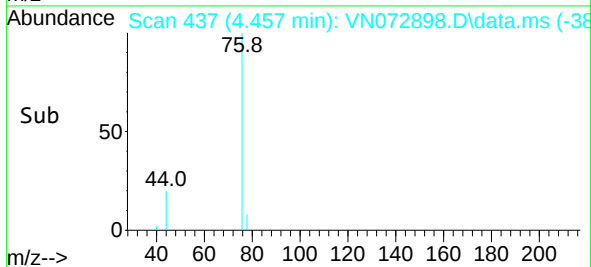
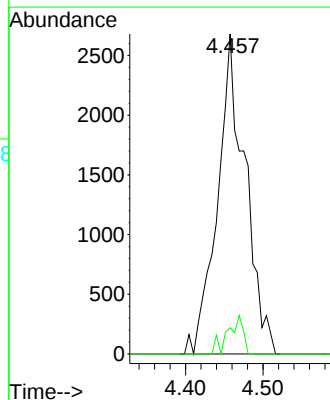
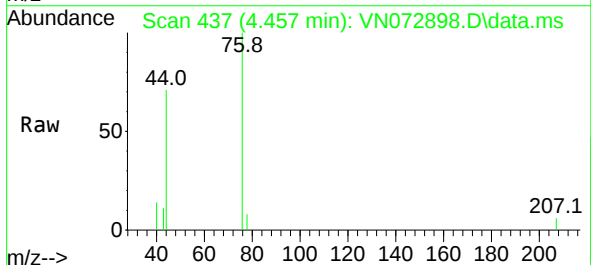
Manual Integrations  
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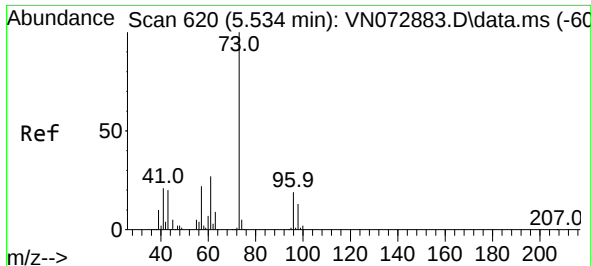
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#17  
Carbon Disulfide  
Concen: 0.327 ug/l  
RT: 4.457 min Scan# 437  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

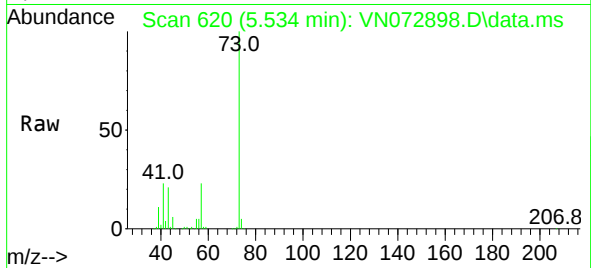
Tgt Ion: 76 Resp: 6666  
Ion Ratio Lower Upper  
76 100  
78 8.2 7.2 10.8





#19  
Methyl tert-butyl Ether  
Concen: 35.936 ug/l  
RT: 5.534 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

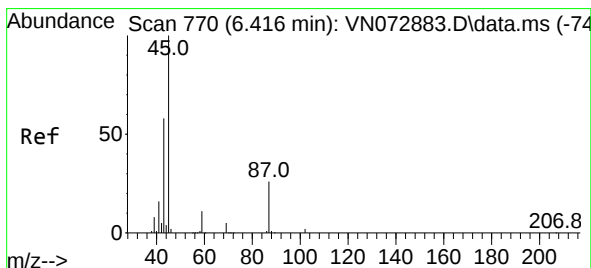
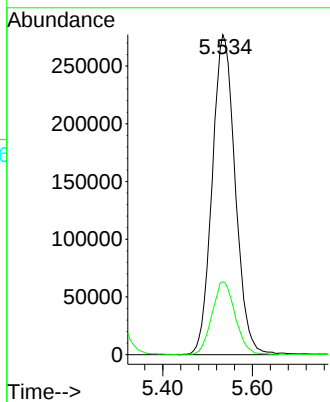
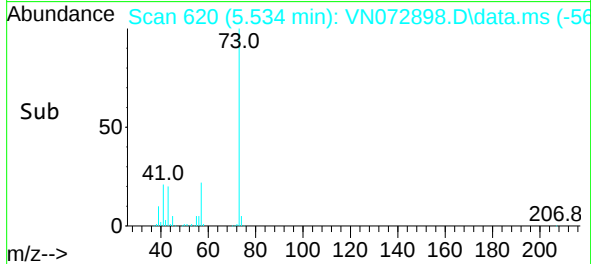
Instrument :  
MSVOA\_N  
Client Sample Id :  
MW-15



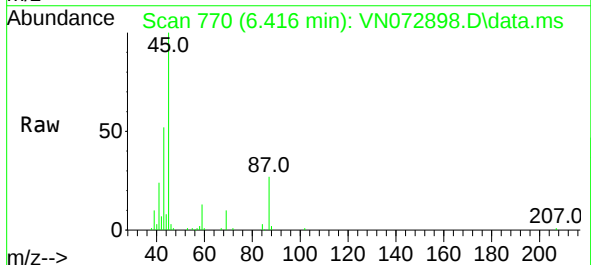
Tgt Ion: 73 Resp: 98902  
Ion Ratio Lower Upper  
73 100  
57 22.7 17.6 26.4

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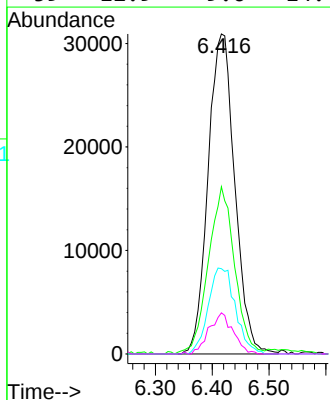
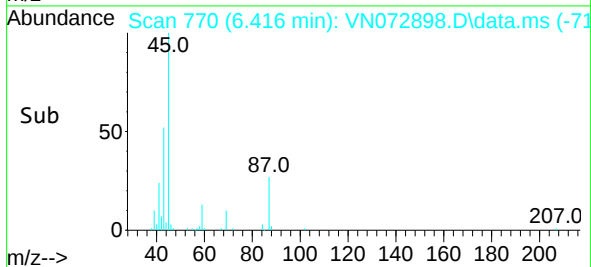
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022

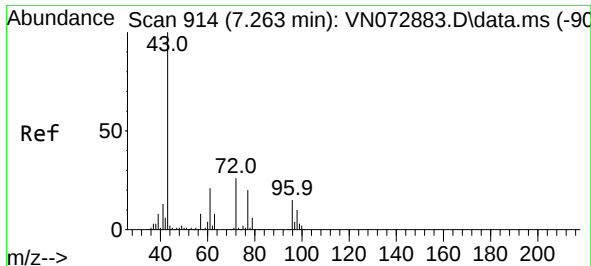


#22  
Diisopropyl ether  
Concen: 3.585 ug/l  
RT: 6.416 min Scan# 770  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16



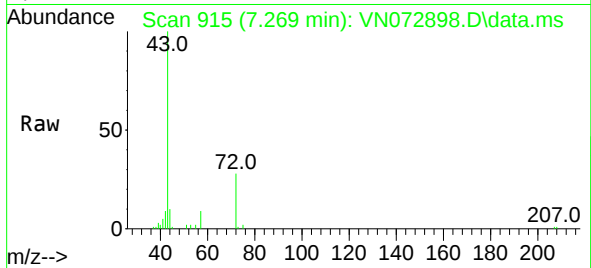
Tgt Ion: 45 Resp: 101047  
Ion Ratio Lower Upper  
45 100  
43 51.7 46.6 70.0  
87 26.7 24.3 36.5  
59 12.9 9.6 14.4





#25  
2-Butanone  
Concen: 5.484 ug/l  
RT: 7.269 min Scan# 914  
Delta R.T. 0.006 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

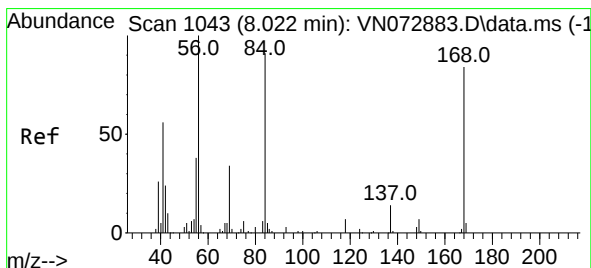
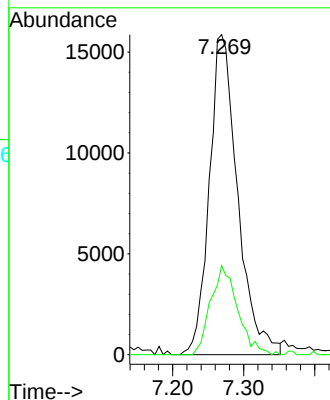
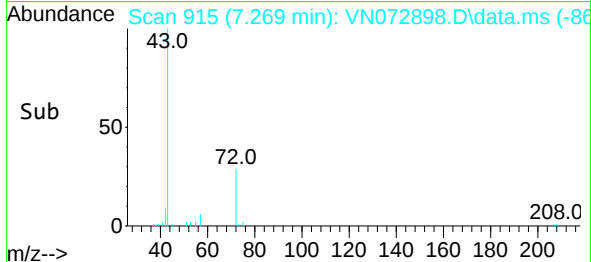
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



Tgt Ion: 43 Resp: 43938  
Ion Ratio Lower Upper  
43 100  
72 27.9 23.7 35.5

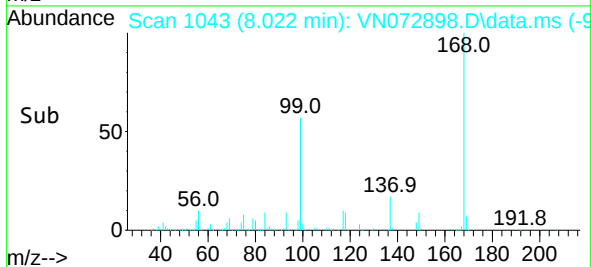
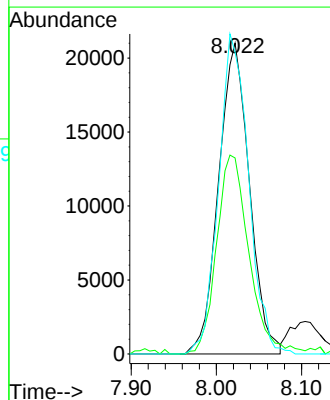
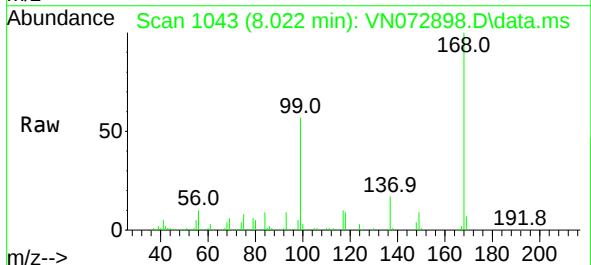
Manual Integrations  
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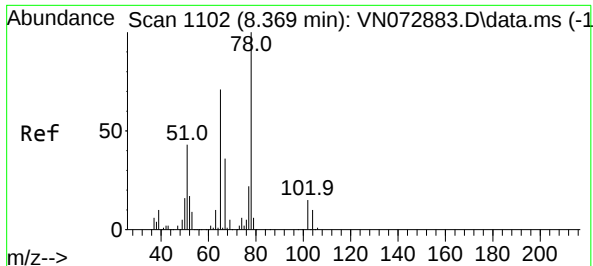
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#31  
Cyclohexane  
Concen: 3.958 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

Tgt Ion: 56 Resp: 52878  
Ion Ratio Lower Upper  
56 100  
69 63.0 27.8 41.8#  
84 97.1 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 43.340 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN072898.D

Acq: 16 Jun 2022 23:16

Instrument :

MSVOA\_N

ClientSampleId :

MW-15

Tgt Ion: 65 Resp: 43192

Ion Ratio Lower Upper

65 100

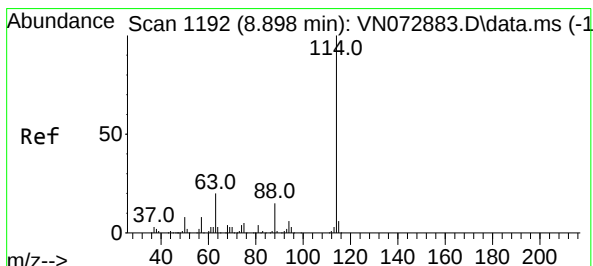
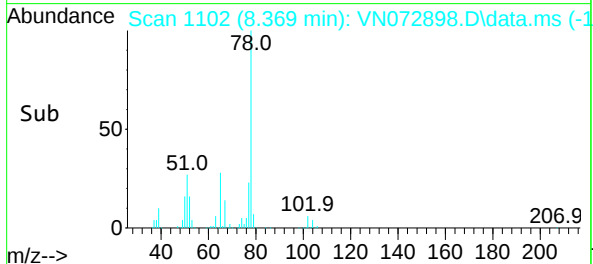
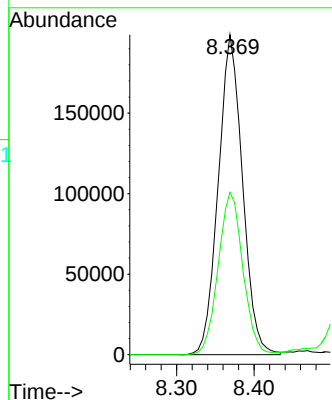
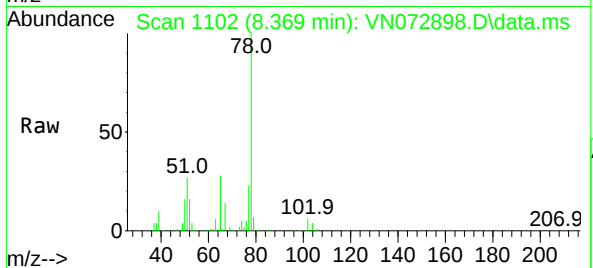
67 51.9 0.0 104.8

Manual Integrations

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Supervised By :Mahesh Dadoda 06/30/2022



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.898 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VN072898.D

Acq: 16 Jun 2022 23:16

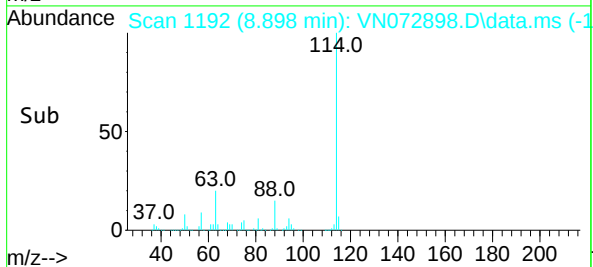
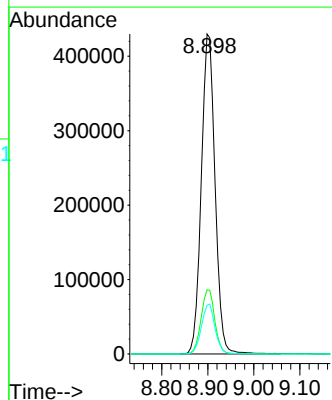
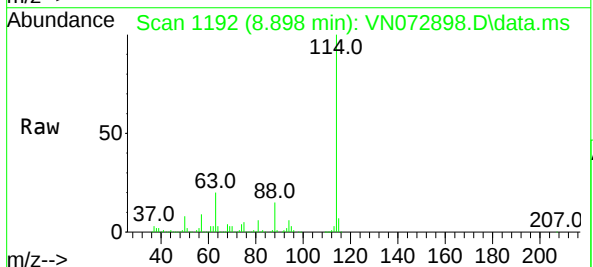
Tgt Ion:114 Resp: 895559

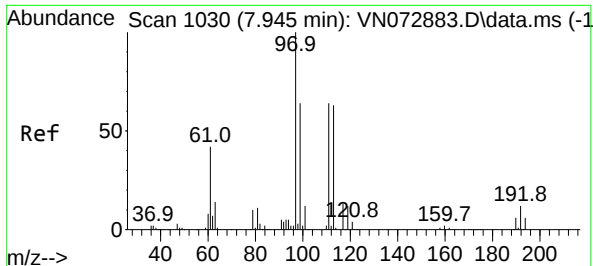
Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 45.350 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.006 min

Lab File: VN072898.D

Acq: 16 Jun 2022 23:16

Instrument :

MSVOA\_N

ClientSampleId :

MW-15

Tgt Ion: 113 Resp: 368919

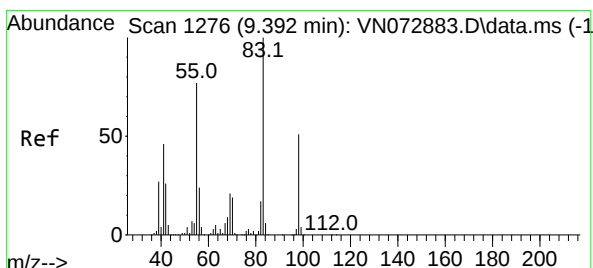
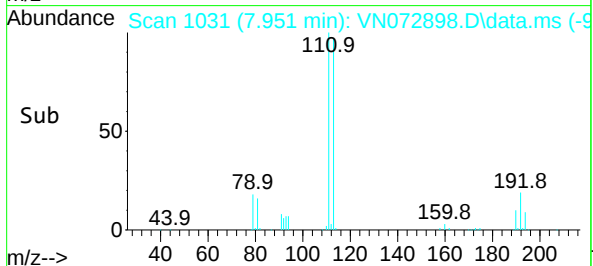
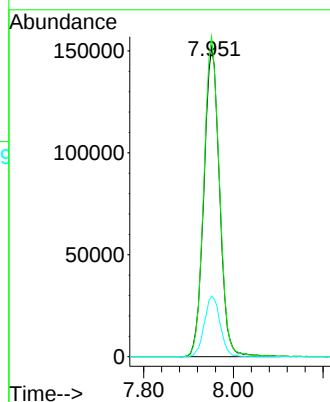
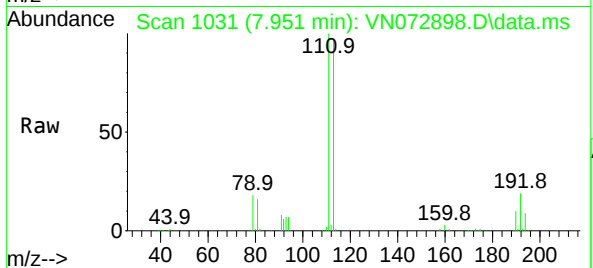
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 102.2 | 81.4  | 122.0 |
| 192 | 19.7  | 17.0  | 25.6  |

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 06/30/2022



#39

Methylcyclohexane

Concen: 1.058 ug/l

RT: 9.392 min Scan# 1276

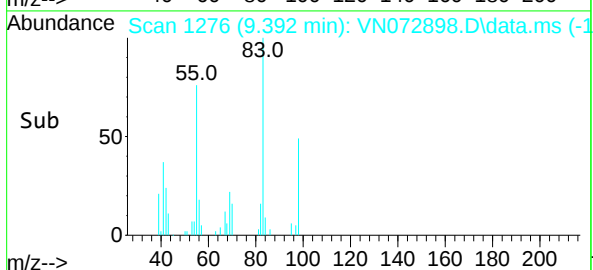
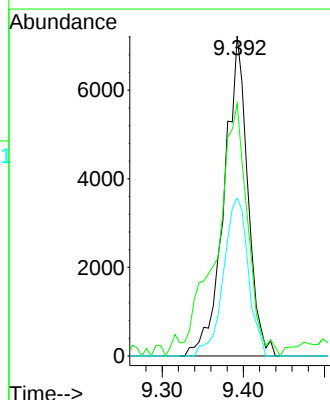
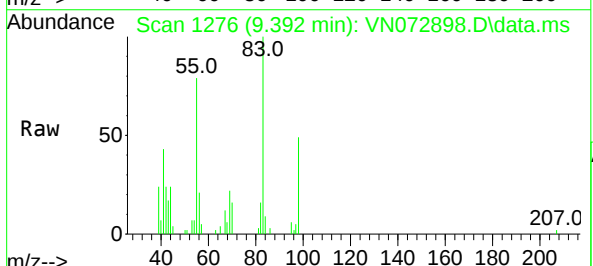
Delta R.T. 0.000 min

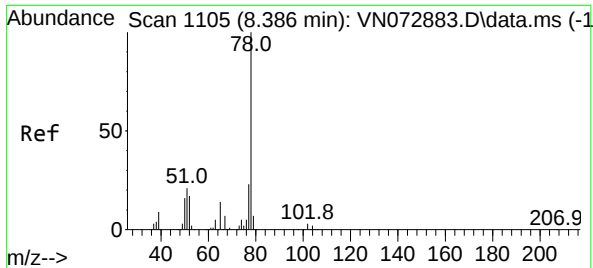
Lab File: VN072898.D

Acq: 16 Jun 2022 23:16

Tgt Ion: 83 Resp: 14583

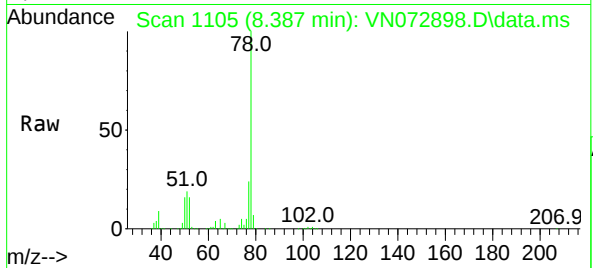
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 78.8  | 57.8  | 86.8  |
| 98  | 49.3  | 39.4  | 59.2  |





#40  
Benzene  
Concen: 119.397 ug/l  
RT: 8.387 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

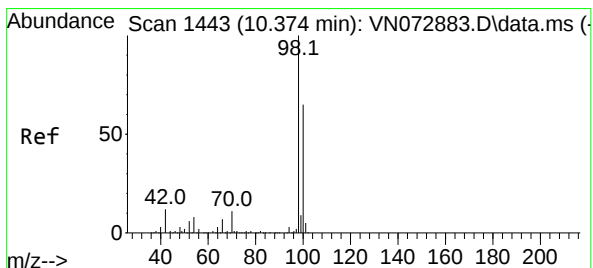
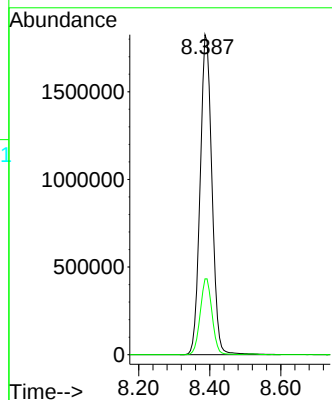
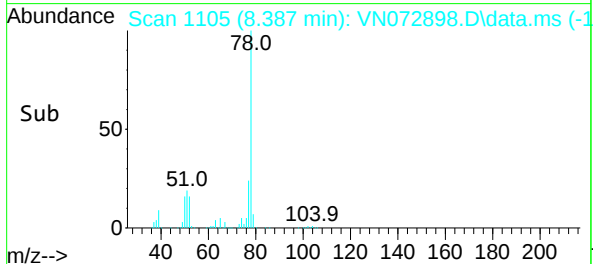
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



Tgt Ion: 78 Resp: 4226409  
Ion Ratio Lower Upper  
78 100  
77 23.7 19.4 29.0

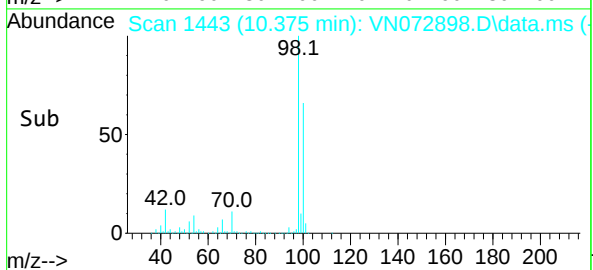
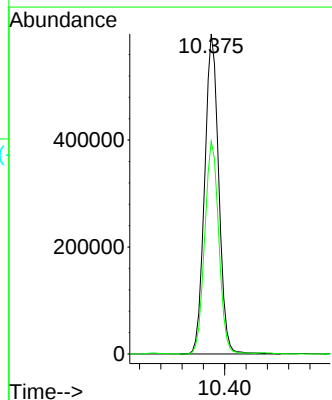
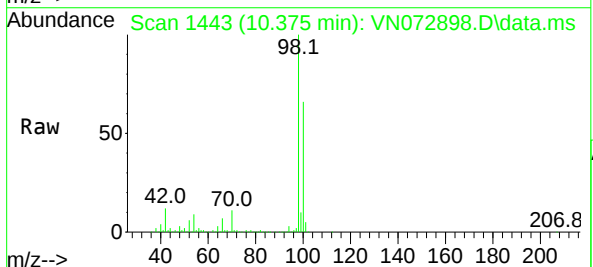
Manual Integrations  
APPROVED

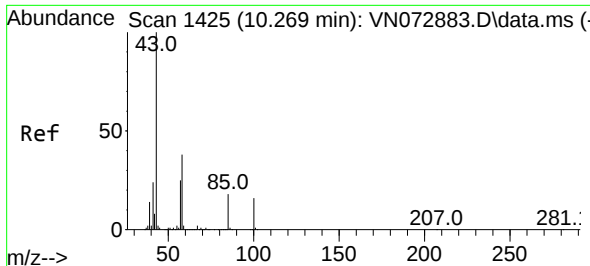
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#50  
Toluene-d8  
Concen: 34.482 ug/l  
RT: 10.375 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

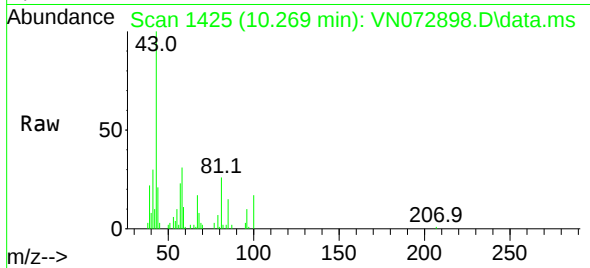
Tgt Ion: 98 Resp: 1097982  
Ion Ratio Lower Upper  
98 100  
100 66.6 52.6 78.8





#51  
4-Methyl-2-Pentanone  
Concen: 1.161 ug/l  
RT: 10.269 min Scan# 1425  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

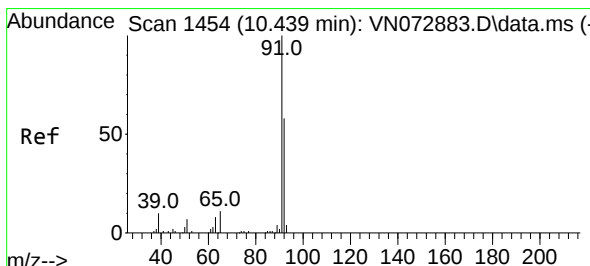
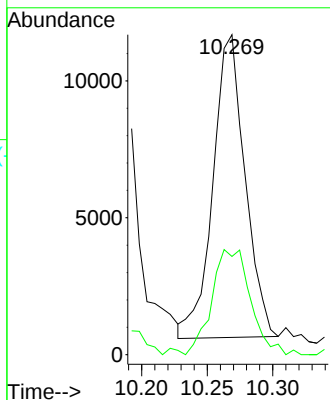
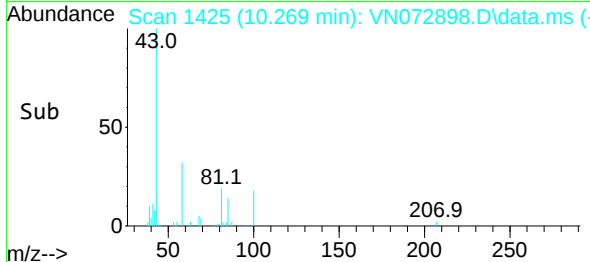
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



Tgt Ion: 43 Resp: 18790  
Ion Ratio Lower Upper  
43 100  
58 41.8 34.1 51.1

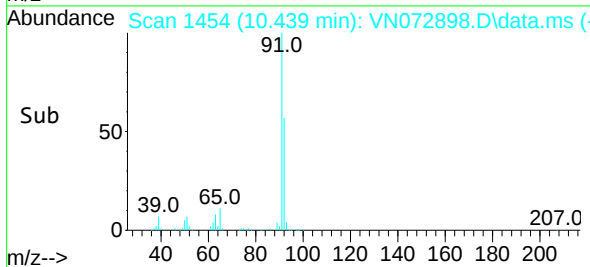
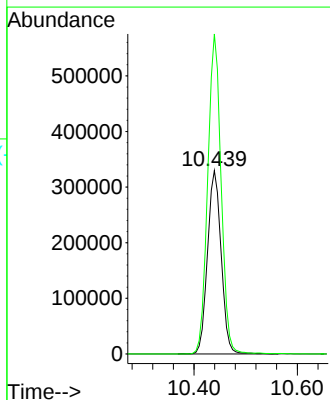
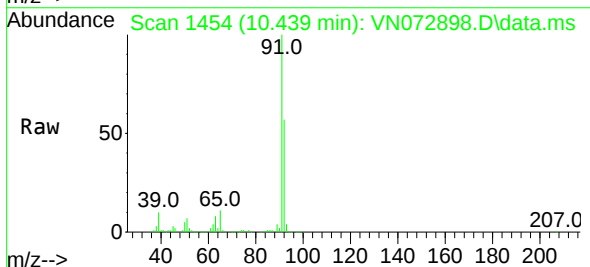
Manual Integrations  
APPROVED

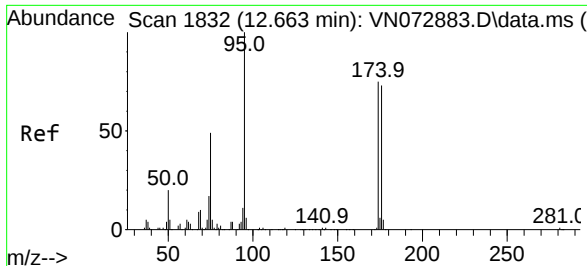
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#52  
Toluene  
Concen: 26.328 ug/l  
RT: 10.439 min Scan# 1454  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

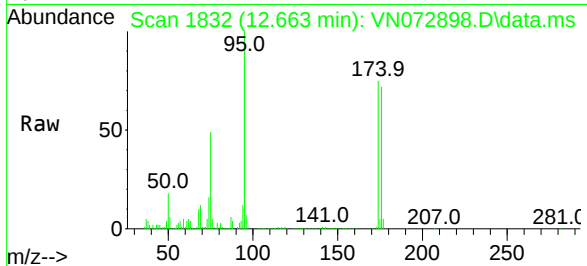
Tgt Ion: 92 Resp: 603120  
Ion Ratio Lower Upper  
92 100  
91 171.1 138.6 207.8





#62  
4-Bromofluorobenzene  
Concen: 41.445 ug/l  
RT: 12.663 min Scan# 1832  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

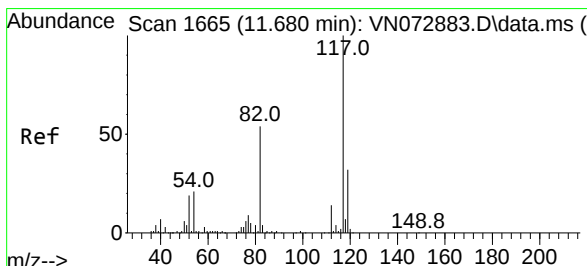
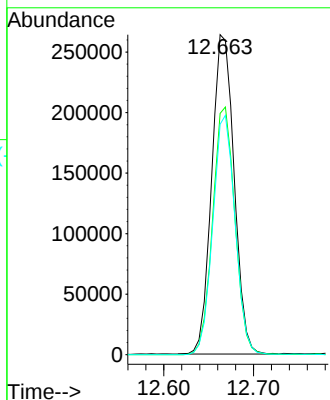
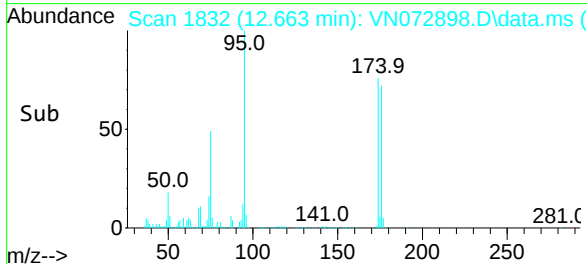
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



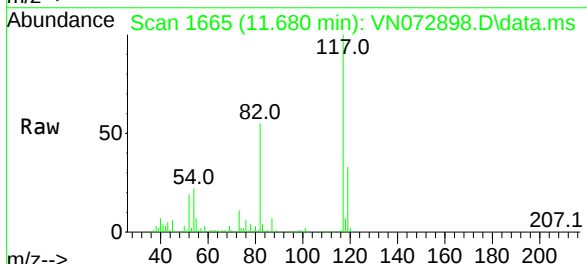
Tgt Ion: 95 Resp: 457800  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 167.6  
176 74.4 0.0 163.4

Manual Integrations  
APPROVED

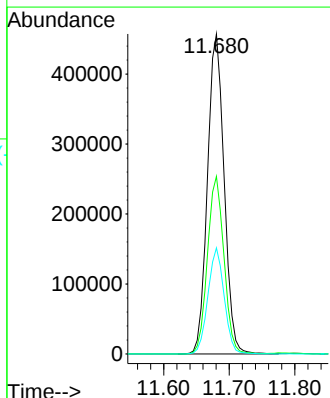
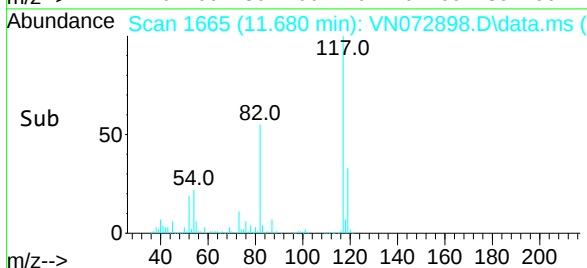
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022

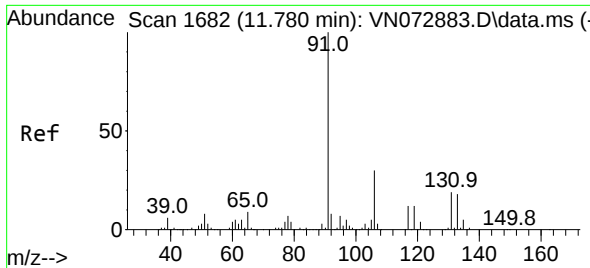


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.680 min Scan# 1665  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16



Tgt Ion:117 Resp: 806770  
Ion Ratio Lower Upper  
117 100  
82 55.5 44.2 66.2  
119 33.2 25.4 38.0





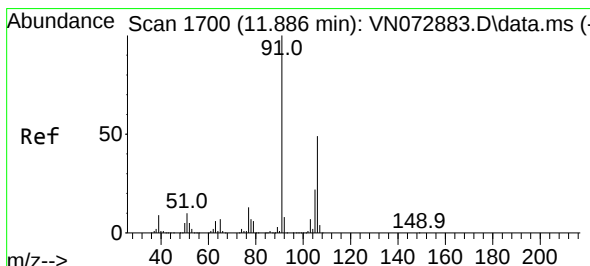
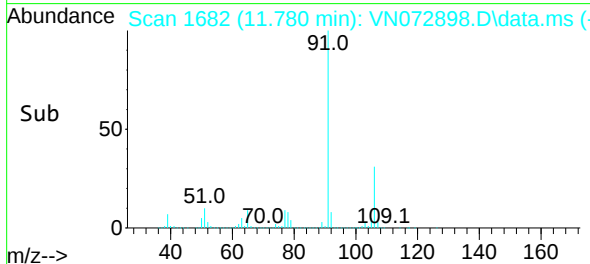
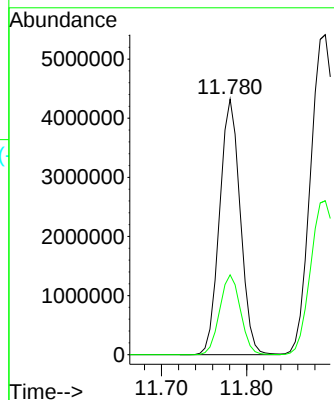
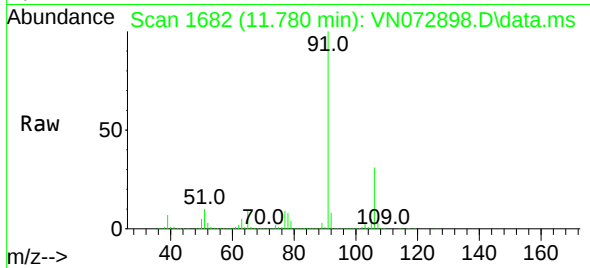
#67  
Ethyl Benzene  
Concen: 194.150 ug/l  
RT: 11.780 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15

Tgt Ion: 91 Resp: 7293939  
Ion Ratio Lower Upper  
91 100  
106 31.2 24.9 37.3

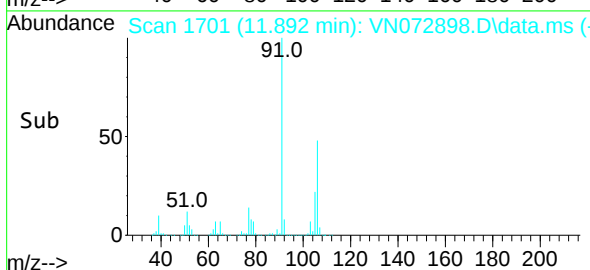
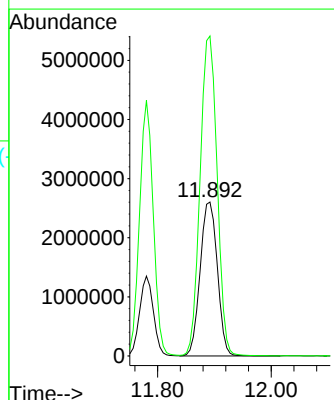
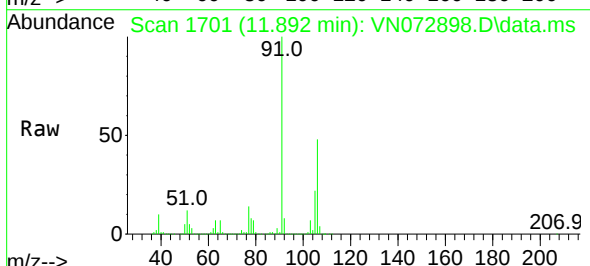
Manual Integrations  
APPROVED

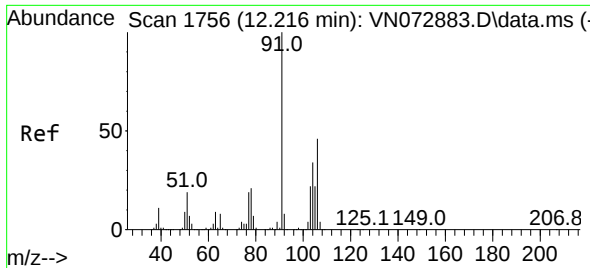
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#68  
m/p-Xylenes  
Concen: 378.503 ug/l  
RT: 11.892 min Scan# 1701  
Delta R.T. 0.006 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

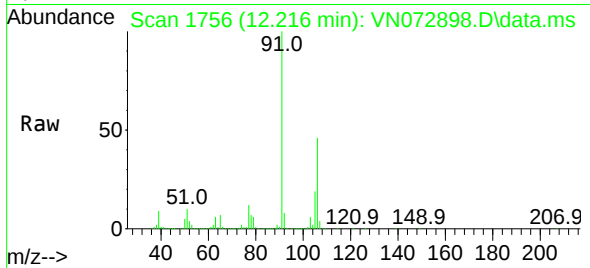
Tgt Ion:106 Resp: 5459887  
Ion Ratio Lower Upper  
106 100  
91 205.7 158.9 238.3





#69  
o-Xylene  
Concen: 77.583 ug/l  
RT: 12.216 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

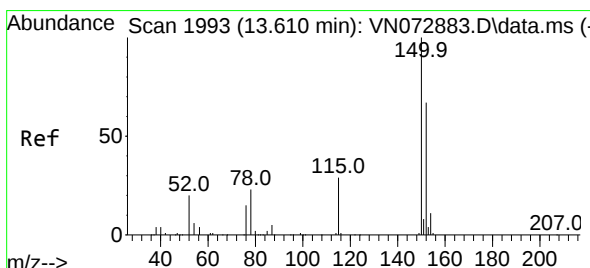
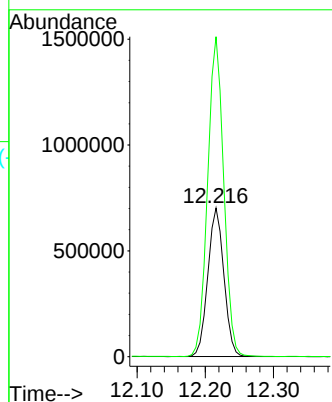
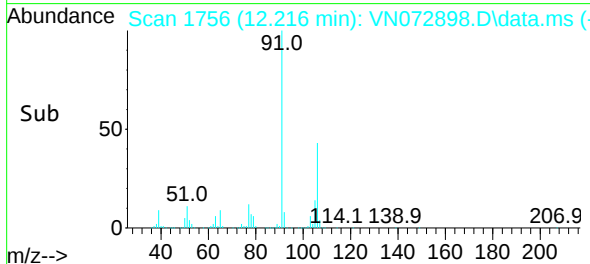
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



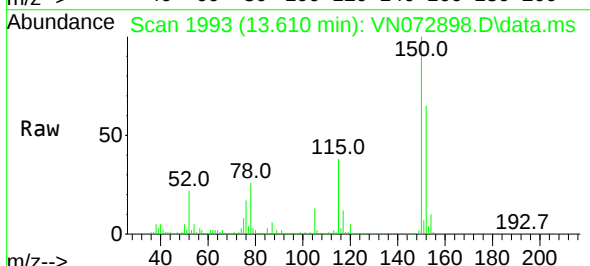
Tgt Ion:106 Resp: 114821  
Ion Ratio Lower Upper  
106 100  
91 215.4 106.0 318.0

Manual Integrations  
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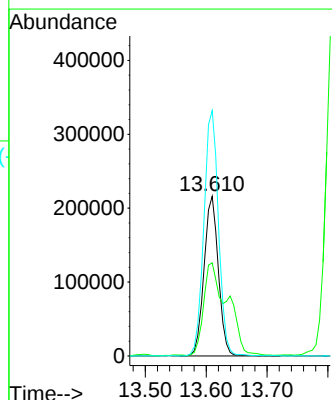
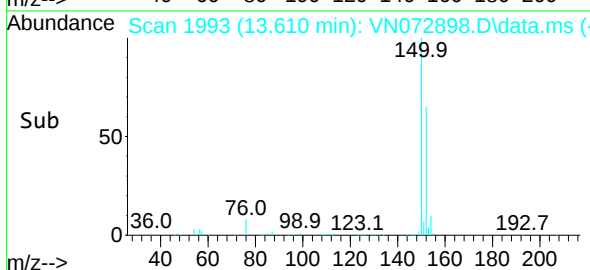
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022

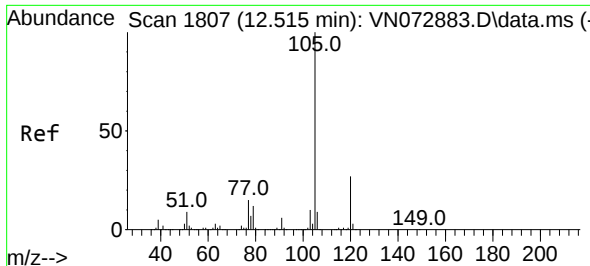


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.610 min Scan# 1993  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16



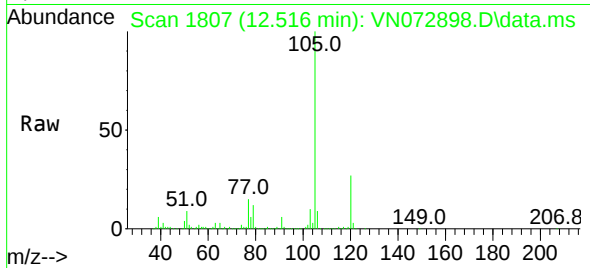
Tgt Ion:152 Resp: 353907  
Ion Ratio Lower Upper  
152 100  
115 65.1 28.9 86.7  
150 156.4 0.0 356.2





#73  
Isopropylbenzene  
Concen: 17.638 ug/l  
RT: 12.516 min Scan# 1807  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

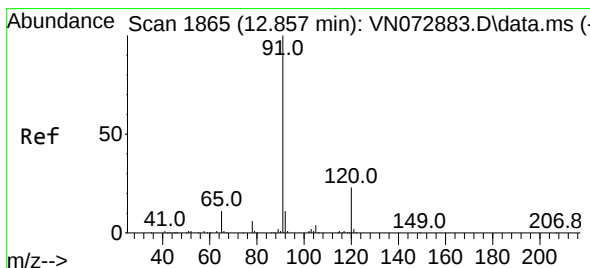
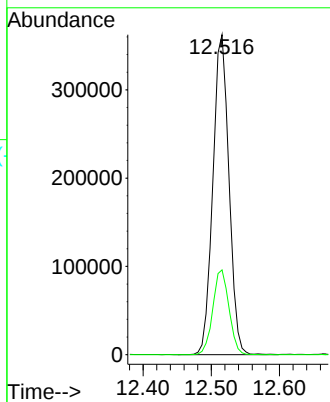
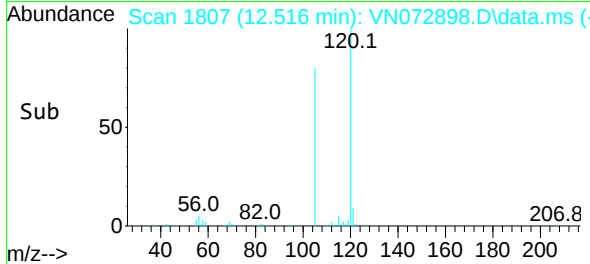
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



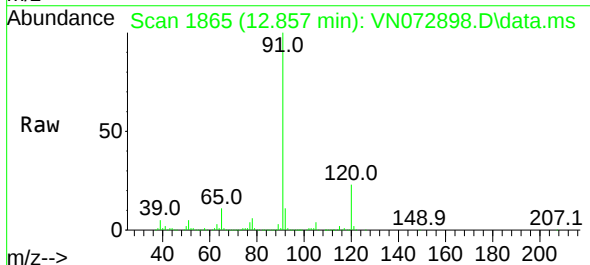
Tgt Ion:105 Resp: 595298  
Ion Ratio Lower Upper  
105 100  
120 26.7 13.5 40.4

Manual Integrations  
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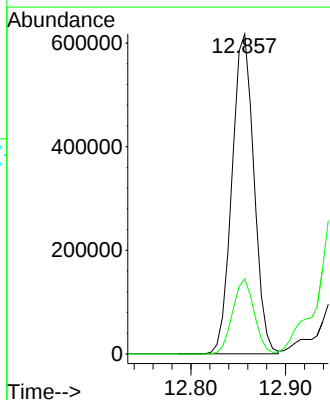
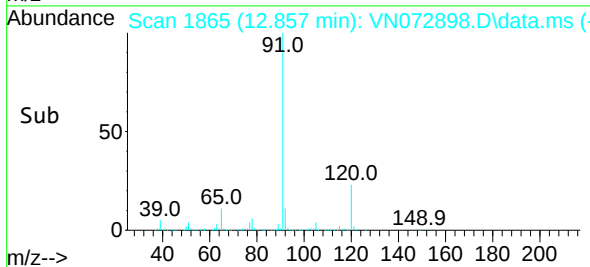
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022

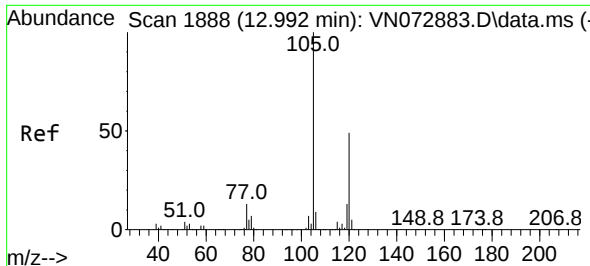


#78  
n-propylbenzene  
Concen: 28.170 ug/l  
RT: 12.857 min Scan# 1865  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16



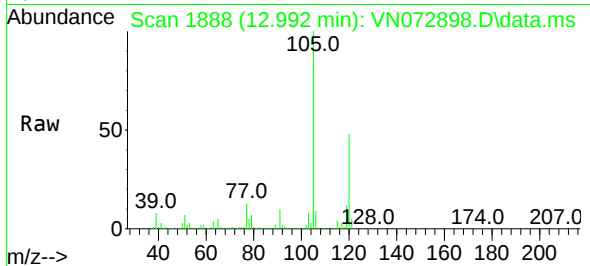
Tgt Ion: 91 Resp: 991555  
Ion Ratio Lower Upper  
91 100  
120 23.0 11.9 35.5





#80  
1,3,5-Trimethylbenzene  
Concen: 57.037 ug/l  
RT: 12.992 min Scan# 1888  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

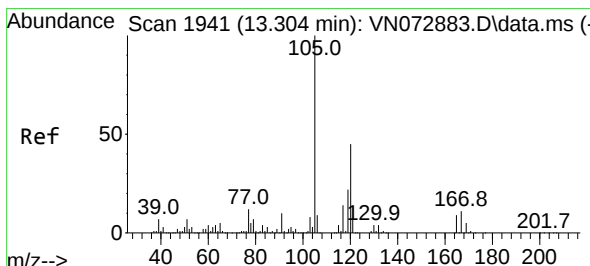
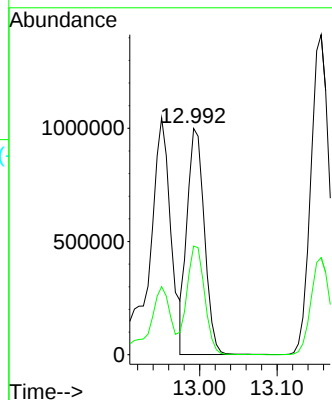
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-15



Tgt Ion:105 Resp: 1542679  
Ion Ratio Lower Upper  
105 100  
120 50.7 24.9 74.7

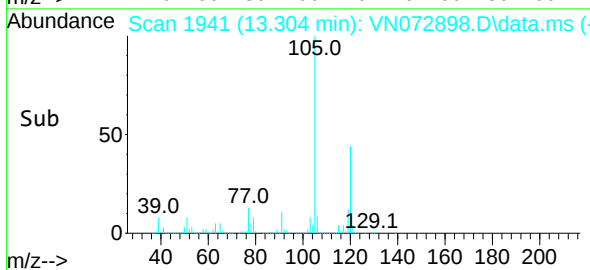
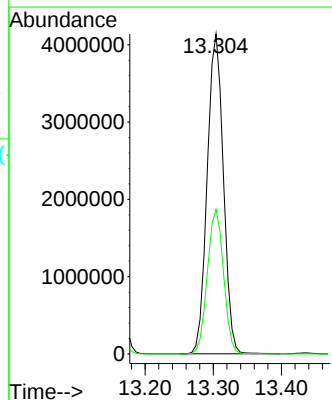
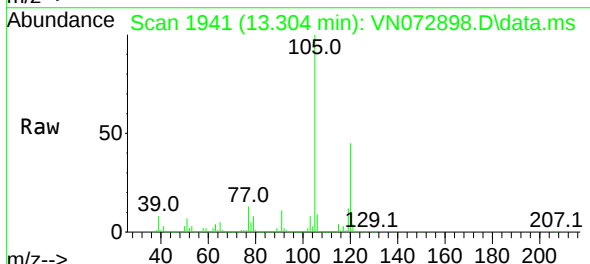
Manual Integrations  
APPROVED

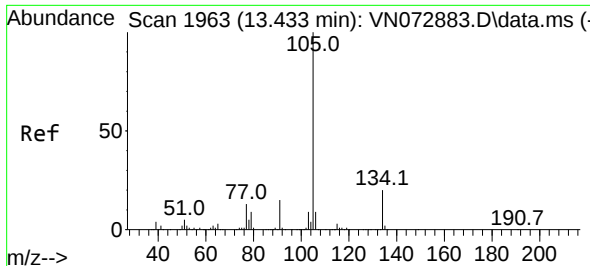
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#84  
1,2,4-Trimethylbenzene  
Concen: 262.461 ug/l  
RT: 13.304 min Scan# 1941  
Delta R.T. 0.000 min  
Lab File: VN072898.D  
Acq: 16 Jun 2022 23:16

Tgt Ion:105 Resp: 6824722  
Ion Ratio Lower Upper  
105 100  
120 45.3 23.3 69.8





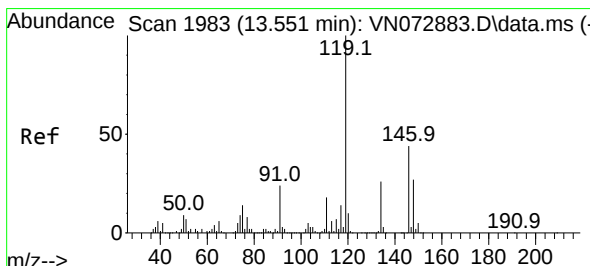
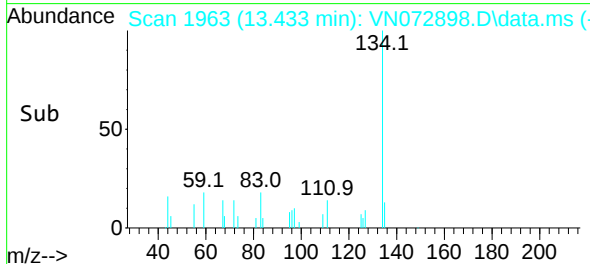
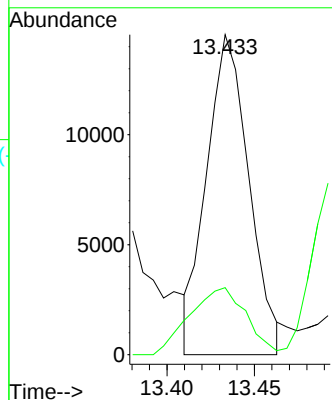
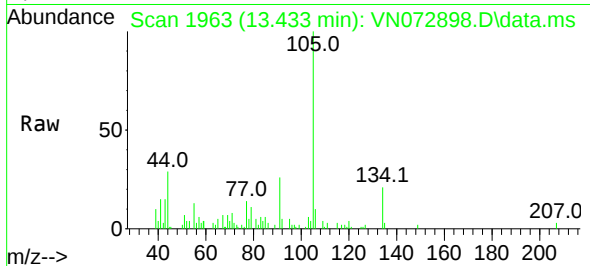
#85  
 sec-Butylbenzene  
 Concen: 0.779 ug/l m  
 RT: 13.433 min Scan# 1963  
 Delta R.T. 0.000 min  
 Lab File: VN072898.D  
 Acq: 16 Jun 2022 23:16

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-15

Tgt Ion:105 Resp: 24449  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.4 31.1

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 06/20/2022  
 Supervised By :Mahesh Dadoda 06/30/2022



#86  
 p-Isopropyltoluene  
 Concen: 1.001 ug/l  
 RT: 13.551 min Scan# 1983  
 Delta R.T. 0.000 min  
 Lab File: VN072898.D  
 Acq: 16 Jun 2022 23:16

Tgt Ion:119 Resp: 25349  
 Ion Ratio Lower Upper  
 119 100  
 134 29.3 13.3 39.8  
 91 0.0 11.3 33.9

