

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010322\  
 Data File : VN070442.D  
 Acq On : 3 Jan 2022 17:17  
 Operator : JC/MD  
 Sample : M5251-06  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-101R

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/04/2022  
 Supervised By : Mahesh Dadoda 01/04/2022

Quant Time: Jan 04 01:35:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 27 18:47:12 2021  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 8.083          | 168  | 1081172    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.965          | 114  | 1836827    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.744         | 117  | 1705912    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.672         | 152  | 775941     | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.437          | 65   | 769491     | 49.500   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = | 99.000%  |        |          |
| 35) Dibromofluoromethane    | 8.021          | 113  | 537164     | 48.333   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = | 96.660%  |        |          |
| 50) Toluene-d8              | 10.441         | 98   | 2266706    | 49.927   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = | 99.860%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.728         | 95   | 992919     | 60.552   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = | 121.100% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol      | 5.374          | 59   | 31989      | 12.359   | ug/l # | 71       |
| 17) Carbon Disulfide        | 4.535          | 76   | 18308      | 0.609    | ug/l # | 94       |
| 25) 2-Butanone              | 7.340          | 43   | 129280     | 10.175   | ug/l # | 83       |
| 31) Cyclohexane             | 8.094          | 56   | 2156632    | 87.915   | ug/l   | 86       |
| 39) Methylcyclohexane       | 9.456          | 83   | 1170971    | 52.609   | ug/l   | 88       |
| 40) Benzene                 | 8.459          | 78   | 538932     | 9.562    | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone    | 10.331         | 43   | 222357     | 9.418    | ug/l   | 97       |
| 52) Toluene                 | 10.491         | 92   | 23023086m  | 674.828  | ug/l   |          |
| 59) 2-Hexanone              | 11.084         | 43   | 440762     | 25.601   | ug/l   | 72       |
| 67) Ethyl Benzene           | 11.824         | 91   | 28499716m  | 429.738  | ug/l   |          |
| 68) m/p-Xylenes             | 11.932         | 106  | 32531791m  | 1347.605 | ug/l   |          |
| 69) o-Xylene                | 12.264         | 106  | 24097721m  | 1003.589 | ug/l   |          |
| 73) Isopropylbenzene        | 12.575         | 105  | 3353039    | 46.533   | ug/l   | 99       |
| 78) n-propylbenzene         | 12.919         | 91   | 11079026   | 138.768  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene  | 13.053         | 105  | 15907535m  | 275.486  | ug/l   |          |
| 84) 1,2,4-Trimethylbenzene  | 13.350         | 105  | 24580475m  | 442.072  | ug/l   |          |
| 85) sec-Butylbenzene        | 13.498         | 105  | 308492     | 4.469    | ug/l # | 70       |
| 86) p-Isopropyltoluene      | 13.613         | 119  | 137094m    | 2.528    | ug/l   |          |
| 89) n-Butylbenzene          | 13.938         | 91   | 332679m    | 7.355    | ug/l   |          |
| -----                       |                |      |            |          |        |          |

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

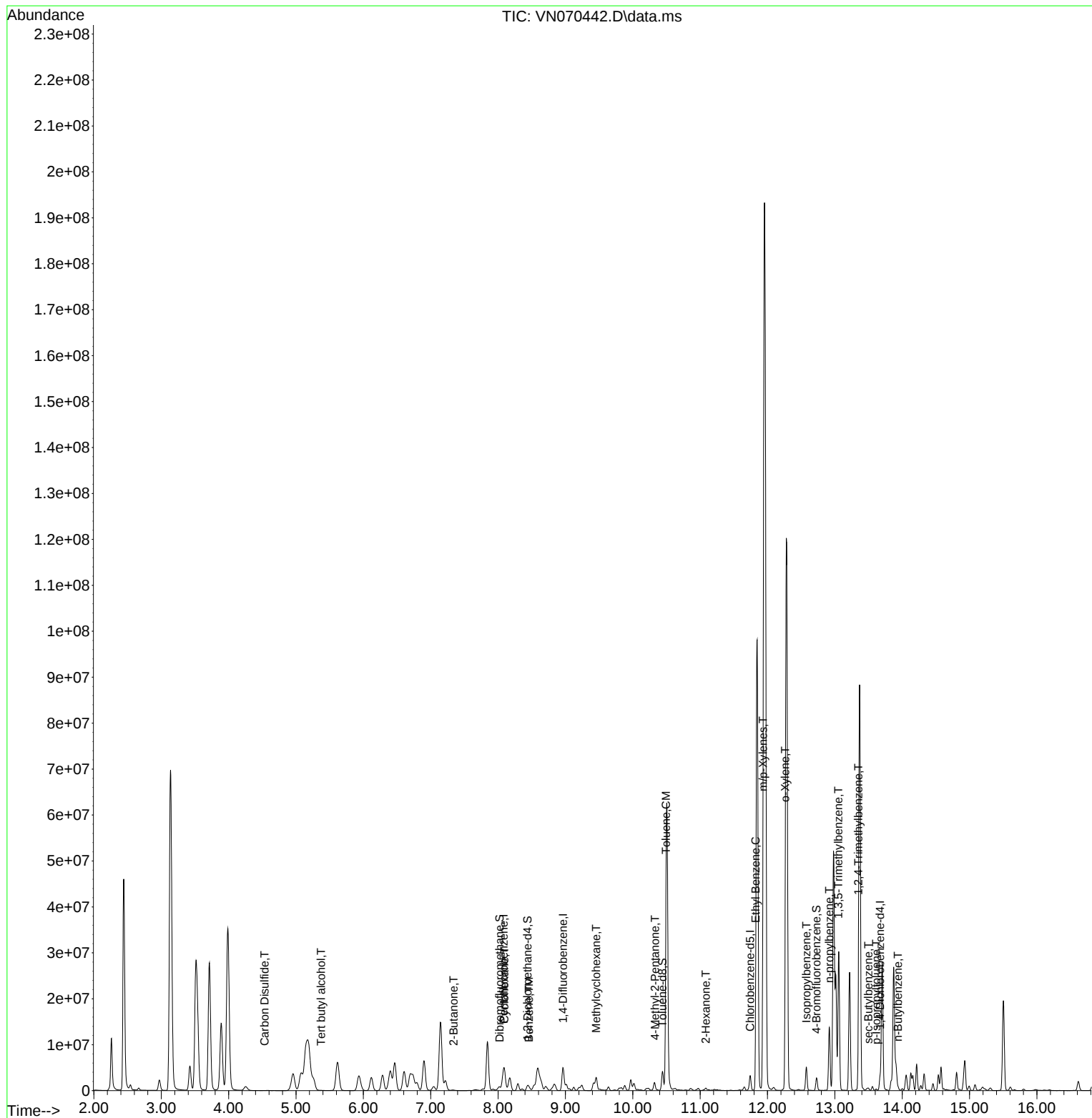
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010322\  
Data File : VN070442.D  
Acq On : 3 Jan 2022 17:17  
Operator : JC/MD  
Sample : M5251-06  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 17 Sample Multiplier: 1

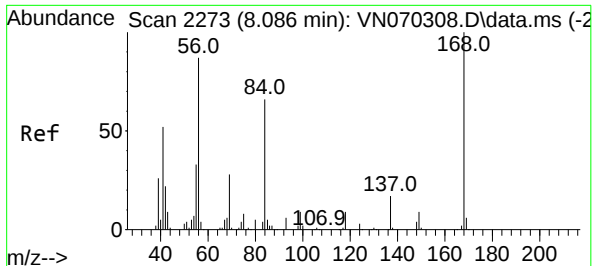
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R

Manual Integrations  
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Reviewed By : John Carlone 01/04/2022  
Supervised By : Mahesh Dadoda 01/04/2022

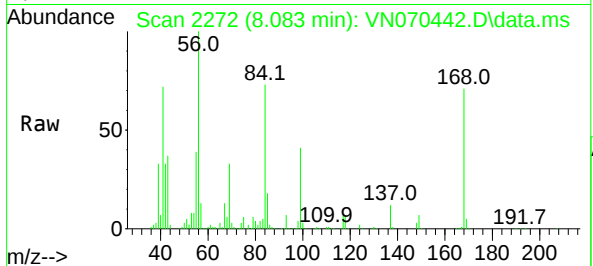
Quant Time: Jan 04 01:35:27 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 27 18:47:12 2021  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.083 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

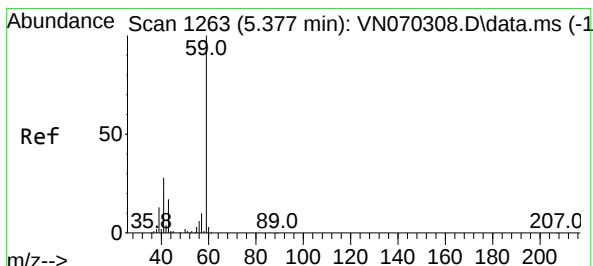
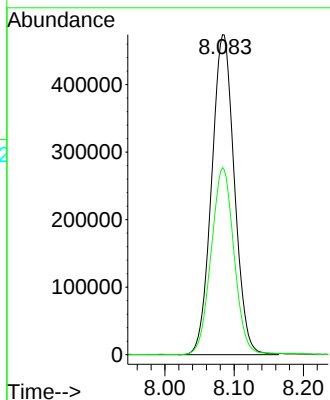
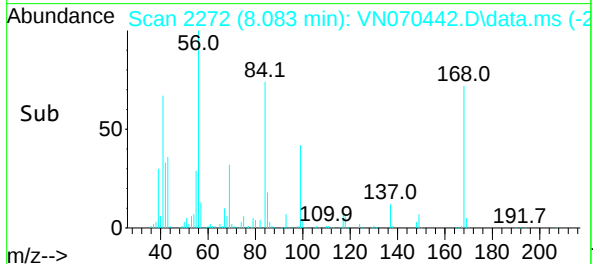
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



Tgt Ion: 168 Resp: 108117  
Ion Ratio Lower Upper  
168 100  
99 58.3 41.3 61.9

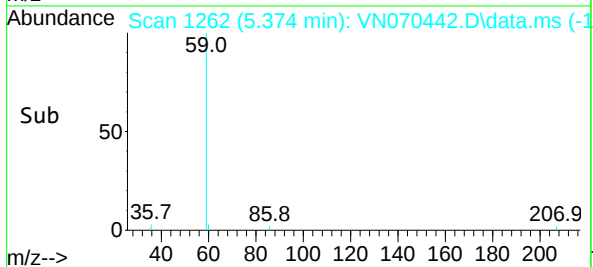
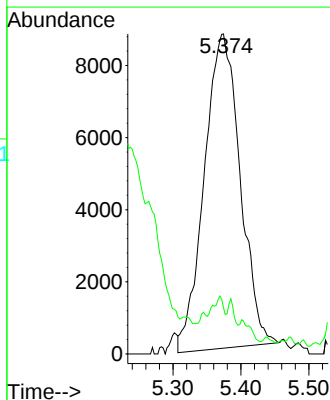
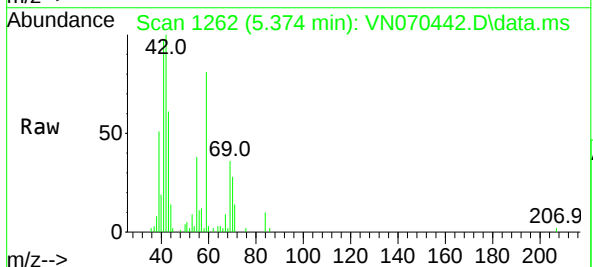
Manual Integrations  
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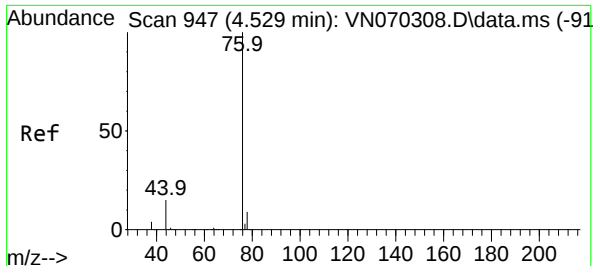
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022



#11  
Tert butyl alcohol  
Concen: 12.359 ug/l  
RT: 5.374 min Scan# 1262  
Delta R.T. -0.003 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

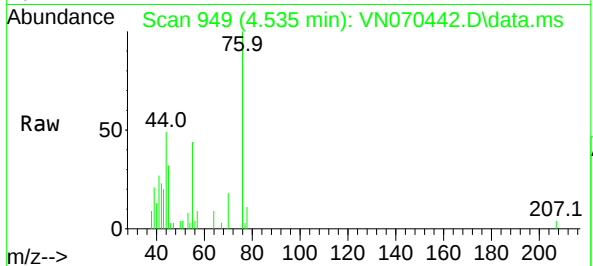
Tgt Ion: 59 Resp: 31989  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#





#17  
Carbon Disulfide  
Concen: 0.609 ug/l  
RT: 4.535 min Scan# 947  
Delta R.T. 0.006 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

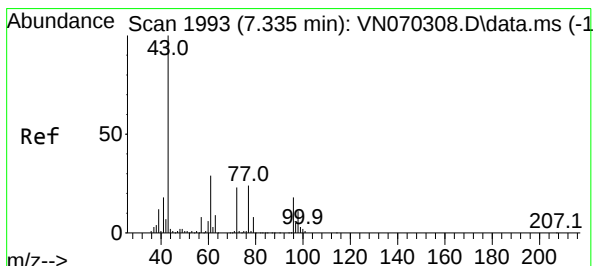
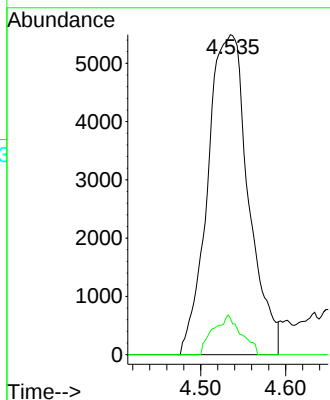
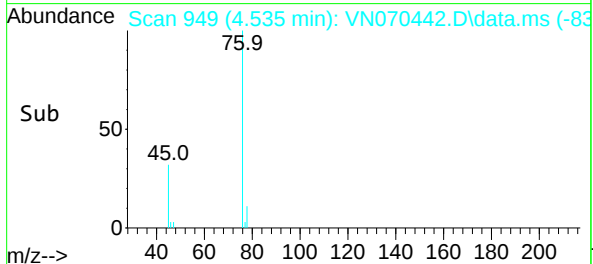
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



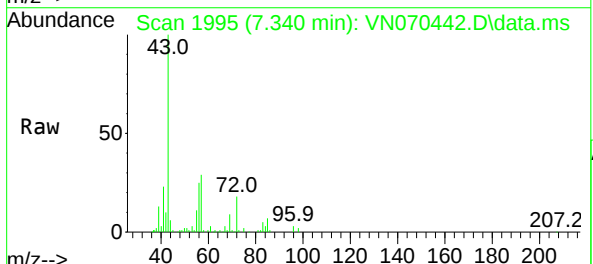
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Ion Ratio Lower Upper  
76 100  
78 11.4 7.5 11.3

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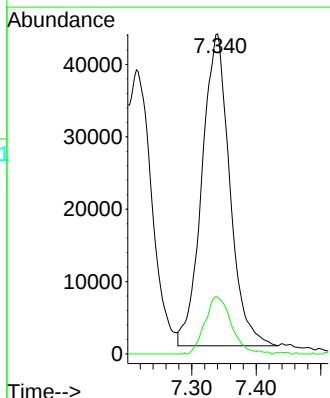
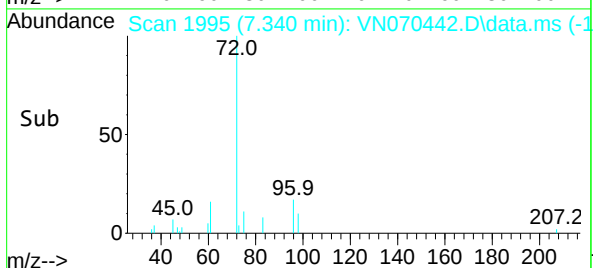
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022

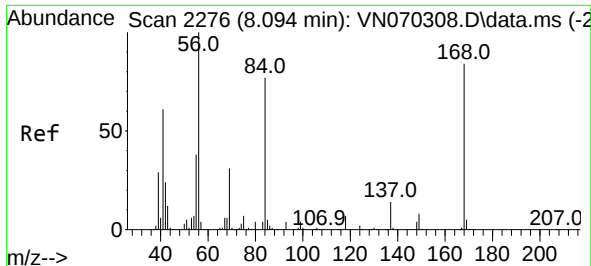


#25  
2-Butanone  
Concen: 10.175 ug/l  
RT: 7.340 min Scan# 1995  
Delta R.T. 0.005 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17



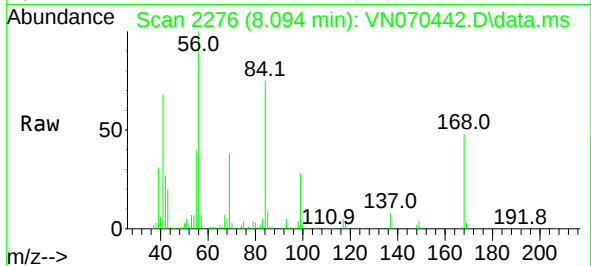
Tgt Ion: 43 Resp: 129280  
Ion Ratio Lower Upper  
43 100  
72 18.1 21.7 32.5





#31  
Cyclohexane  
Concen: 87.915 ug/l  
RT: 8.094 min Scan# 215663  
Delta R.T. -0.000 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

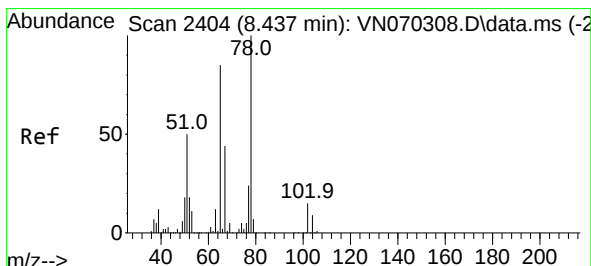
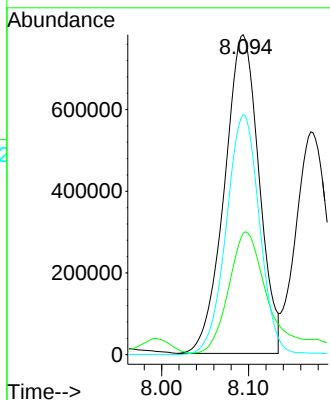
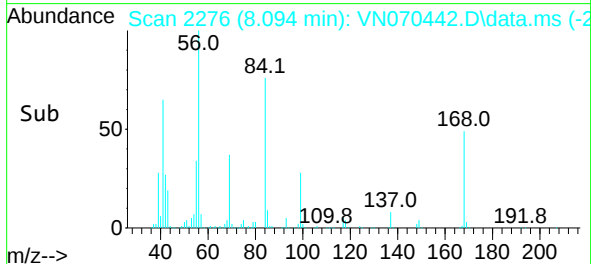
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



Tgt Ion: 56 Resp: 215663  
Ion Ratio Lower Upper  
56 100  
69 36.5 27.1 40.7  
84 75.4 73.4 110.0

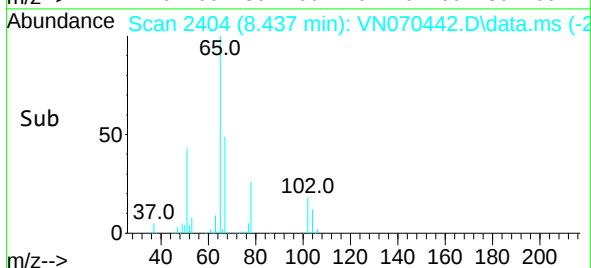
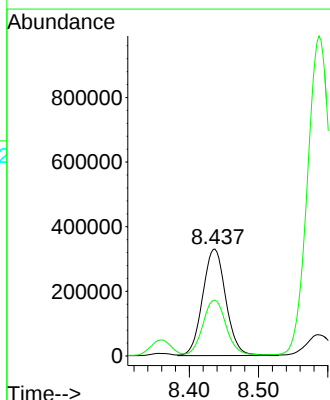
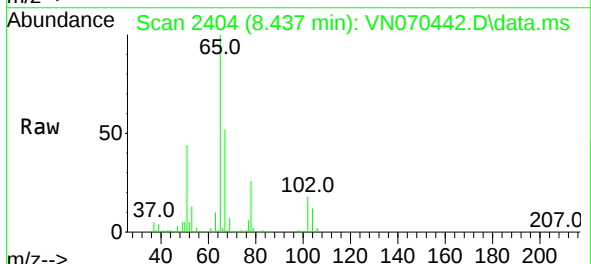
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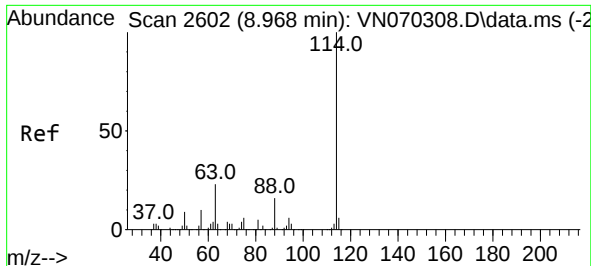
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022



#33  
1,2-Dichloroethane-d4  
Concen: 49.500 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. 0.000 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

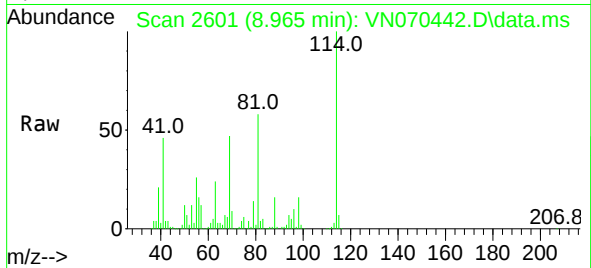
Tgt Ion: 65 Resp: 769491  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 103.0





#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.965 min Scan# 2601  
Delta R.T. -0.003 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

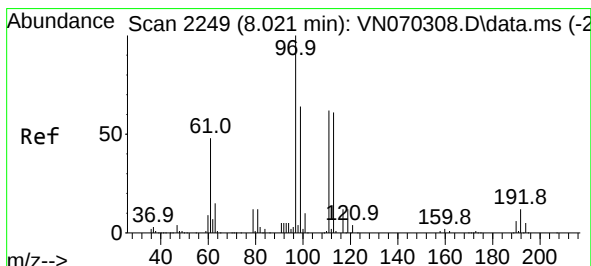
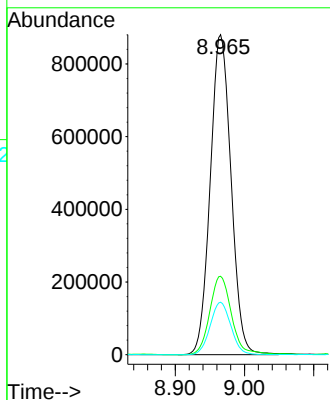
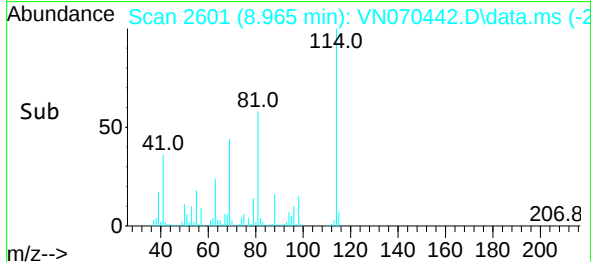
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



Tgt Ion:114 Resp: 183682  
Ion Ratio Lower Upper  
114 100  
63 24.5 0.0 37.8  
88 16.4 0.0 27.4

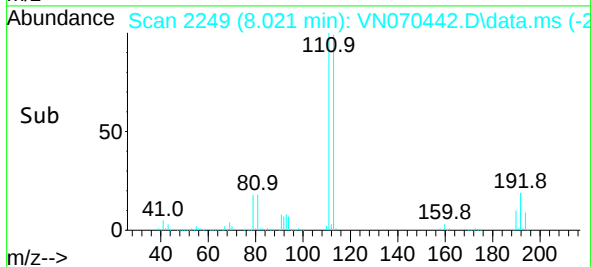
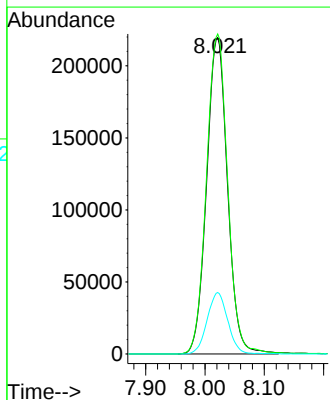
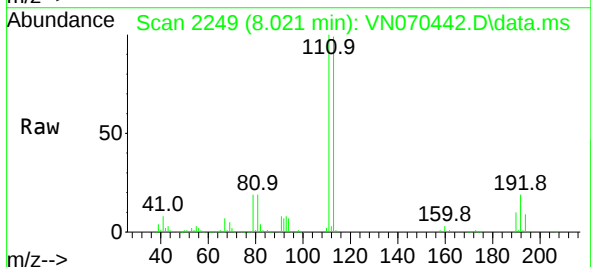
Manual Integrations  
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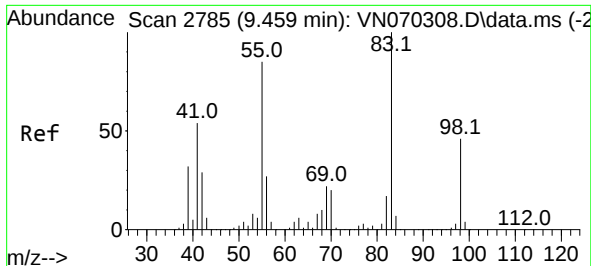
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022



#35  
Dibromofluoromethane  
Concen: 48.333 ug/l  
RT: 8.021 min Scan# 2249  
Delta R.T. 0.000 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

Tgt Ion:113 Resp: 537164  
Ion Ratio Lower Upper  
113 100  
111 102.6 82.2 123.2  
192 19.0 16.9 25.3





#39

Methylcyclohexane

Concen: 52.609 ug/l

RT: 9.456 min Scan# 21

Delta R.T. -0.003 min

Lab File: VN070442.D

Acq: 3 Jan 2022 17:17

Instrument :

MSVOA\_N

ClientSampleId :

MW-101R

Tgt Ion: 83 Resp: 117097

Ion Ratio Lower Upper

83 100

55 86.6 58.1 87.1

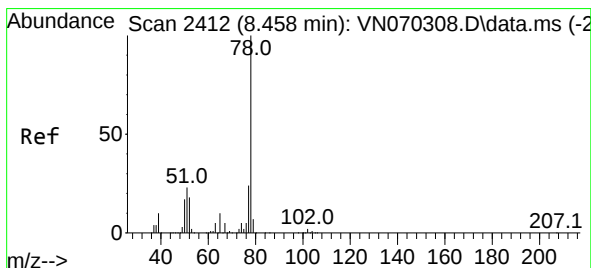
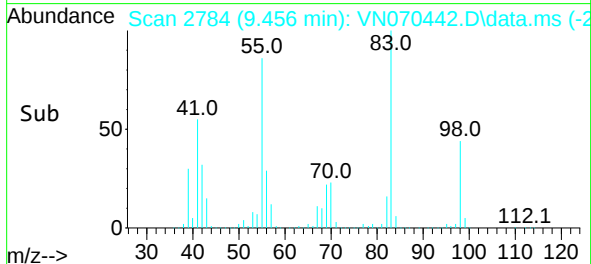
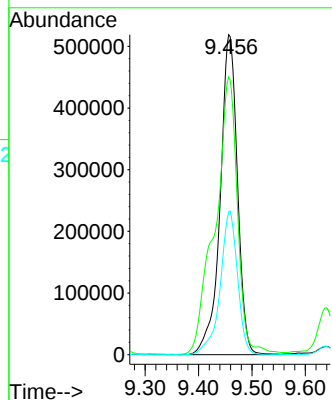
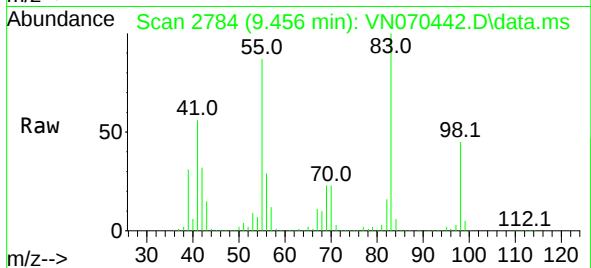
98 44.6 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/04/2022

Supervised By :Mahesh Dadoda 01/04/2022



#40

Benzene

Concen: 9.562 ug/l

RT: 8.459 min Scan# 2412

Delta R.T. 0.001 min

Lab File: VN070442.D

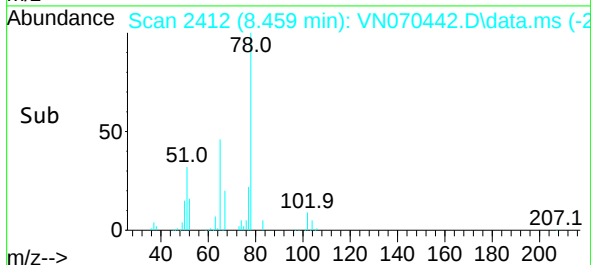
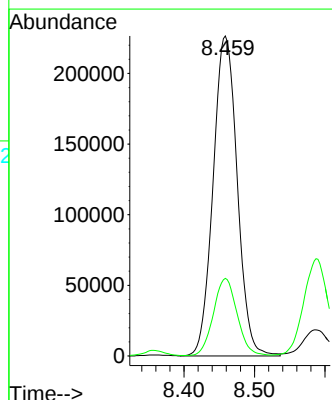
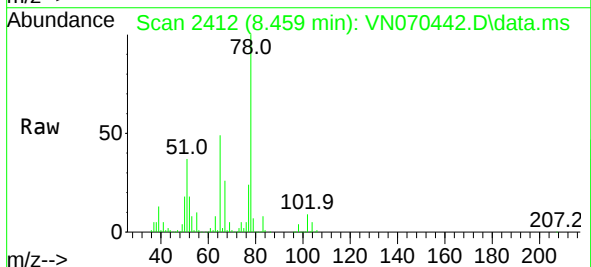
Acq: 3 Jan 2022 17:17

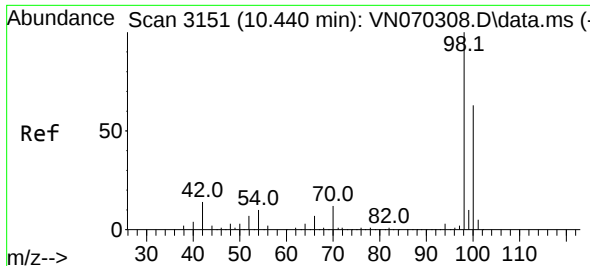
Tgt Ion: 78 Resp: 538932

Ion Ratio Lower Upper

78 100

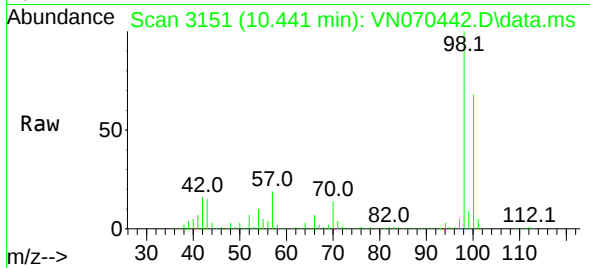
77 24.1 18.6 27.8





#50  
Toluene-d8  
Concen: 49.927 ug/l  
RT: 10.441 min Scan# 3151  
Delta R.T. 0.001 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

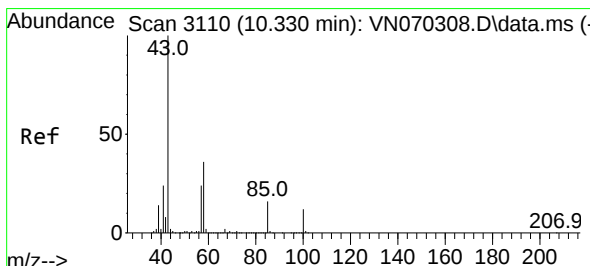
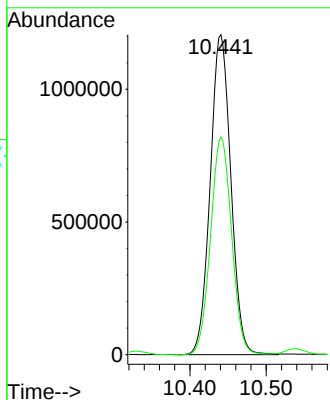
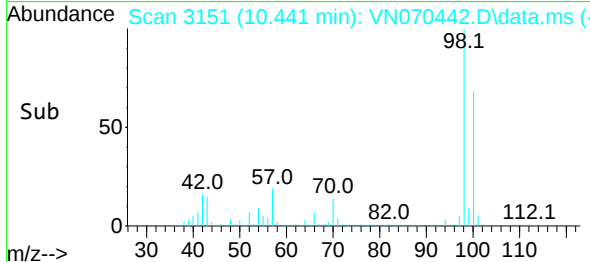
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



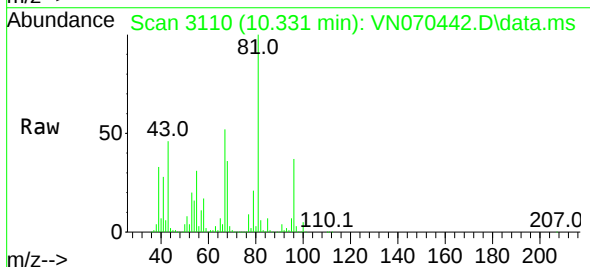
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Ion Ratio Lower Upper  
98 100  
100 69.4 50.4 75.6

Manual Integrations  
APPROVED

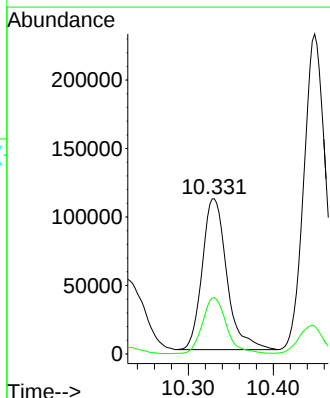
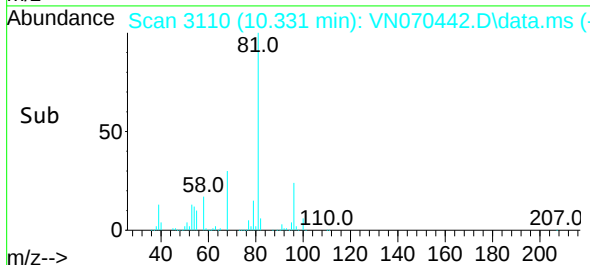
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022

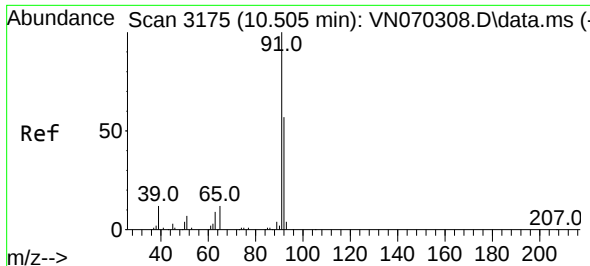


#51  
4-Methyl-2-Pentanone  
Concen: 9.418 ug/l  
RT: 10.331 min Scan# 3110  
Delta R.T. 0.001 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17



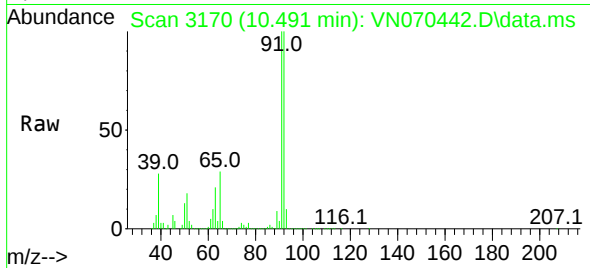
Tgt Ion: 43 Resp: 222357  
Ion Ratio Lower Upper  
43 100  
58 36.5 30.4 45.6





#52  
Toluene  
Concen: 674.828 ug/l m  
RT: 10.491 min Scan# 3175  
Delta R.T. -0.014 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

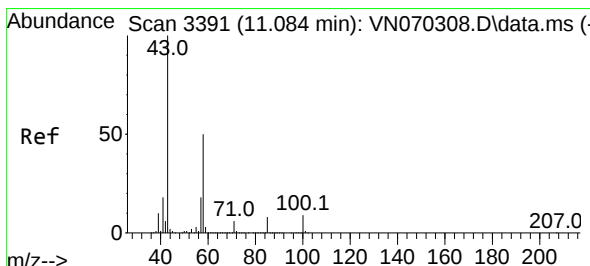
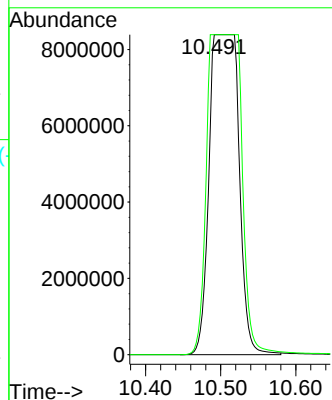
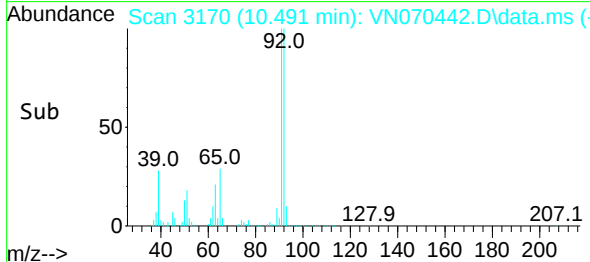
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



Tgt Ion: 92 Resp: 2302308  
Ion Ratio Lower Upper  
92 100  
91 0.0 142.0 213.0

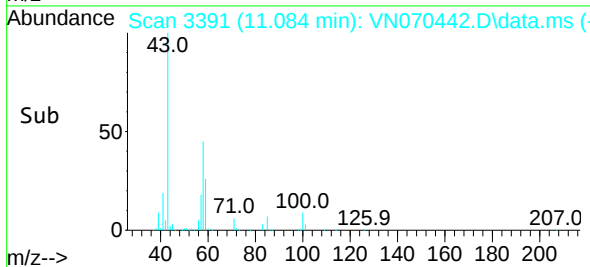
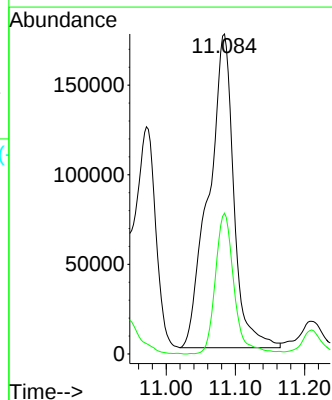
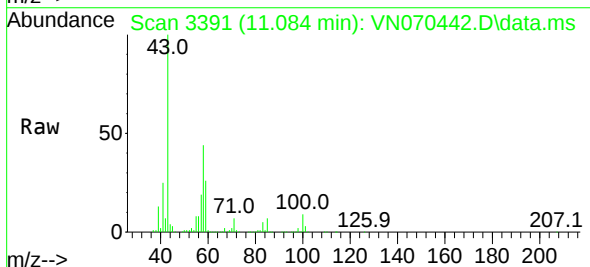
Manual Integrations  
APPROVED

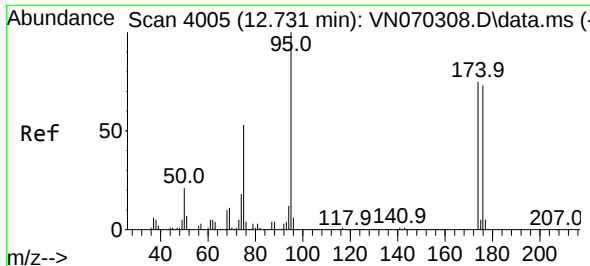
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022



#59  
2-Hexanone  
Concen: 25.601 ug/l  
RT: 11.084 min Scan# 3391  
Delta R.T. 0.000 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

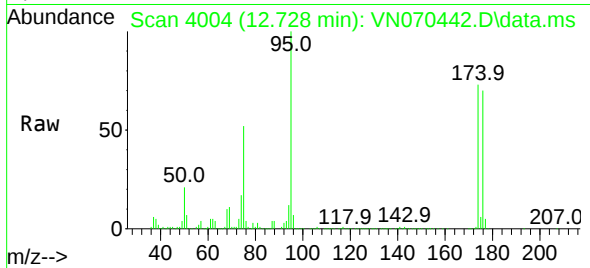
Tgt Ion: 43 Resp: 440762  
Ion Ratio Lower Upper  
43 100  
58 33.4 26.9 80.7





#62  
4-Bromofluorobenzene  
Concen: 60.552 ug/l  
RT: 12.728 min Scan# 4005  
Delta R.T. -0.003 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

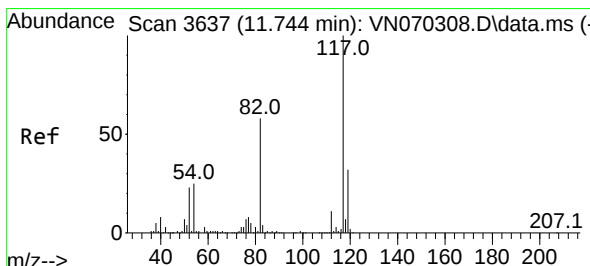
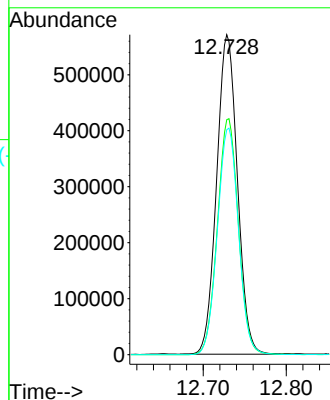
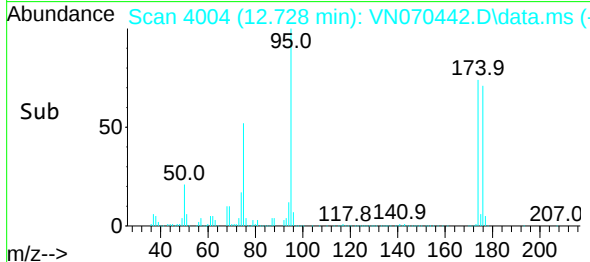
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



Tgt Ion: 95 Resp: 992919  
Ion Ratio Lower Upper  
95 100  
174 74.6 0.0 187.2  
176 71.9 0.0 181.4

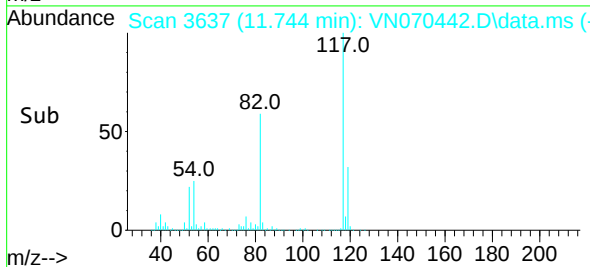
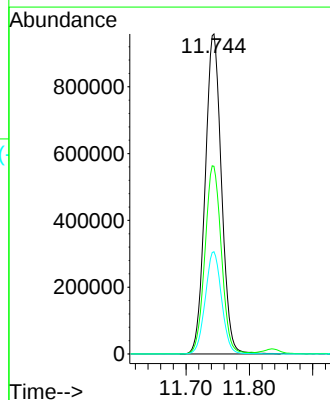
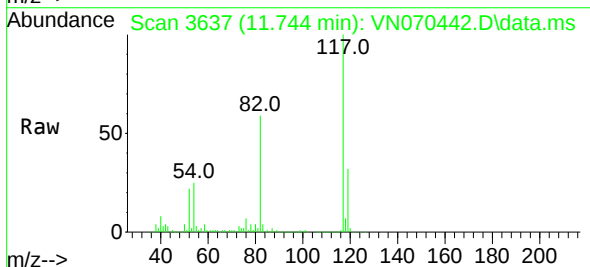
Manual Integrations  
APPROVED

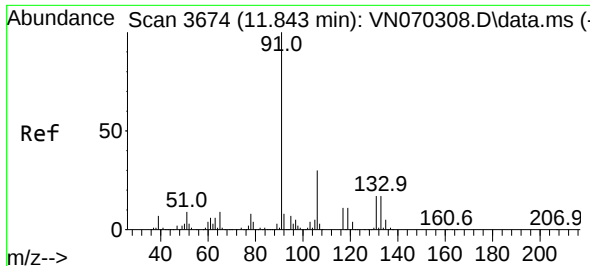
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.000 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

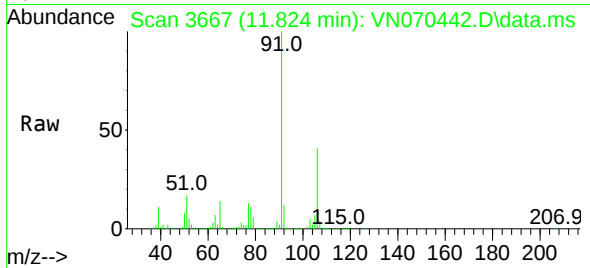
Tgt Ion:117 Resp: 1705912  
Ion Ratio Lower Upper  
117 100  
82 58.6 42.4 63.6  
119 31.9 25.4 38.2





#67  
Ethyl Benzene  
Concen: 429.738 ug/l m  
RT: 11.824 min Scan# 30  
Delta R.T. -0.019 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

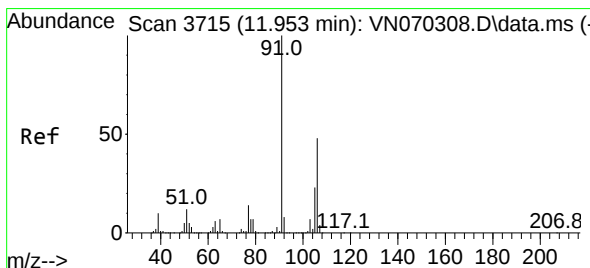
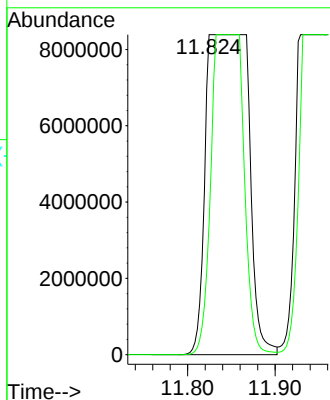
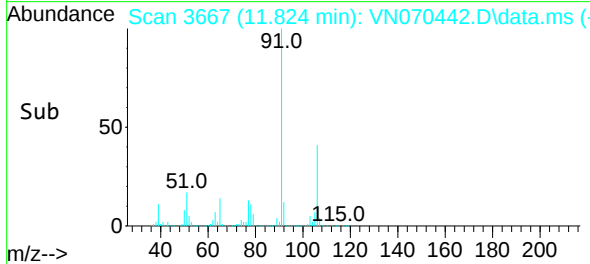
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



Tgt Ion: 91 Resp:28499710  
Ion Ratio Lower Upper  
91 100  
106 40.9 25.7 38.5

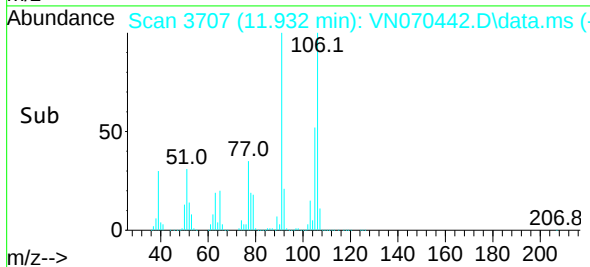
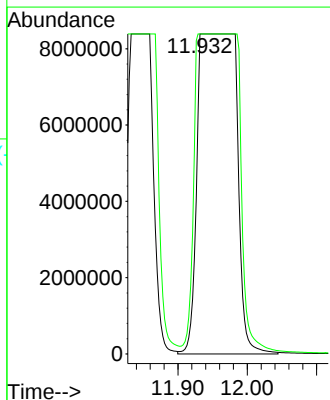
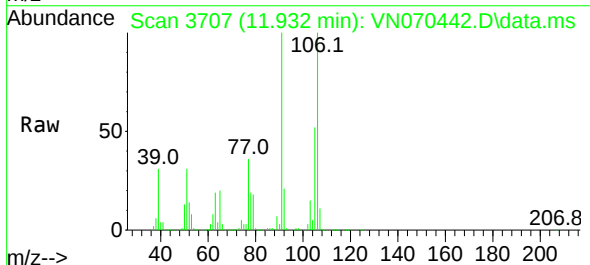
Manual Integrations  
APPROVED

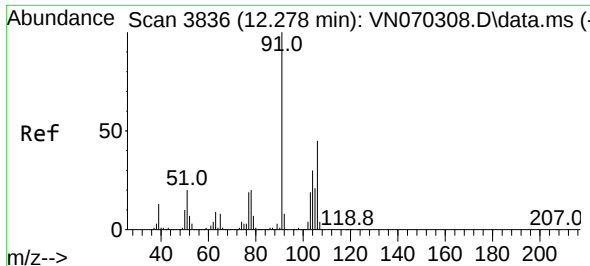
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022



#68  
m/p-Xylenes  
Concen: 1347.605 ug/l m  
RT: 11.932 min Scan# 3707  
Delta R.T. -0.021 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

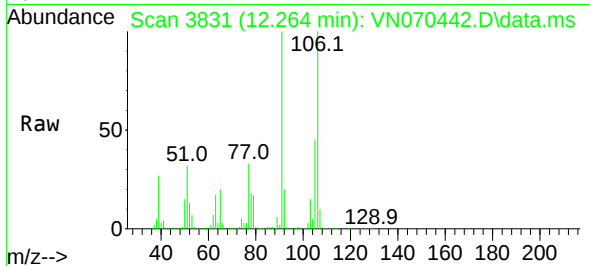
Tgt Ion:106 Resp:32531791  
Ion Ratio Lower Upper  
106 100  
91 0.0 160.6 240.8#





#69  
o-Xylene  
Concen: 1003.589 ug/l m  
RT: 12.264 min Scan# 3831  
Delta R.T. -0.014 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

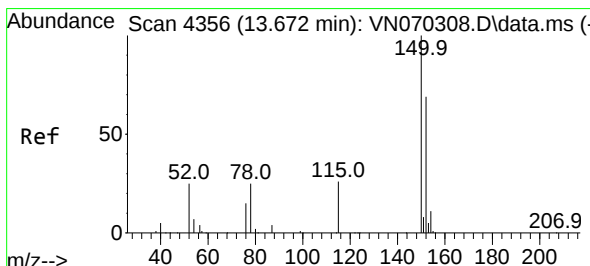
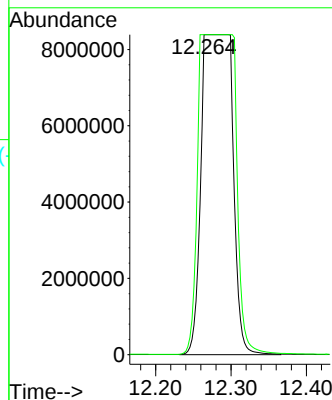
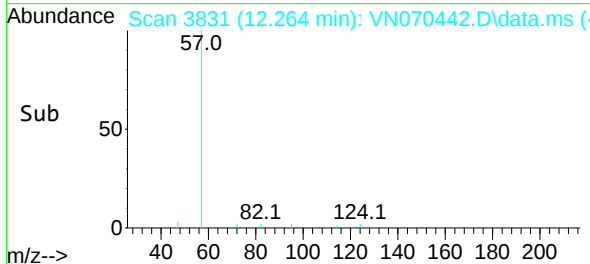
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



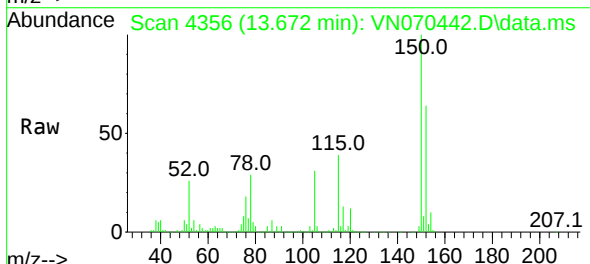
Tgt Ion:106 Resp:2409772  
Ion Ratio Lower Upper  
106 100  
91 0.0 105.8 317.3

Manual Integrations  
APPROVED

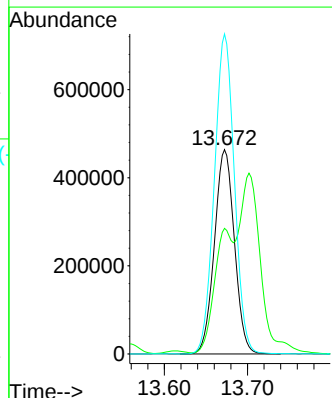
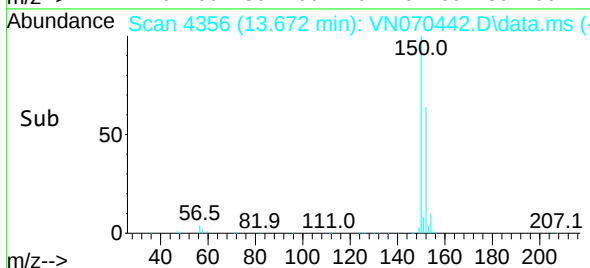
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022

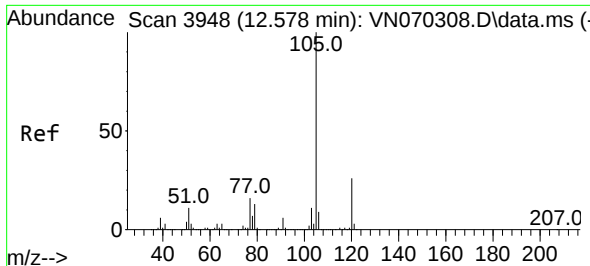


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.672 min Scan# 4356  
Delta R.T. 0.000 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17



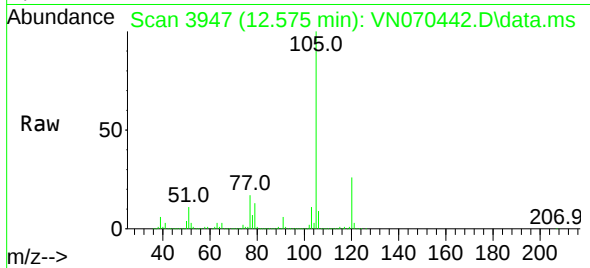
Tgt Ion:152 Resp: 775941  
Ion Ratio Lower Upper  
152 100  
115 55.3 27.5 82.5  
150 157.1 0.0 344.4





#73  
Isopropylbenzene  
Concen: 46.533 ug/l  
RT: 12.575 min Scan# 3947  
Delta R.T. -0.003 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

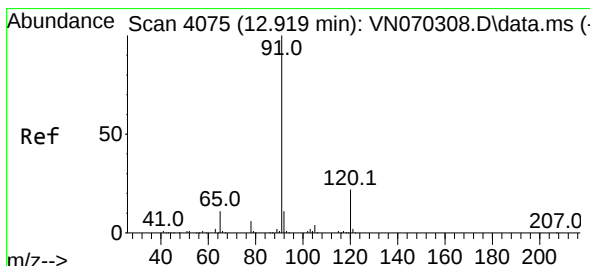
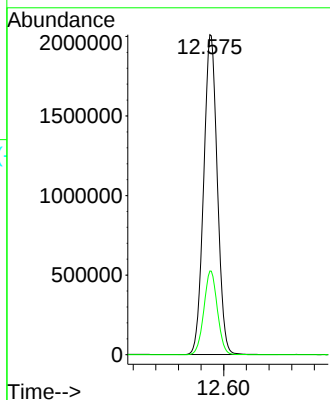
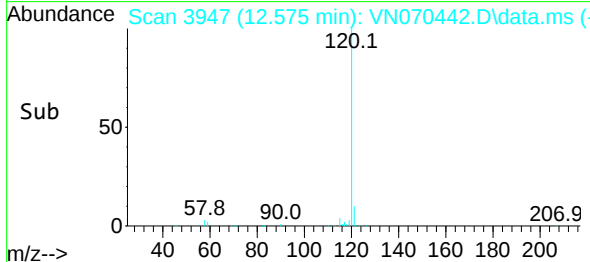
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



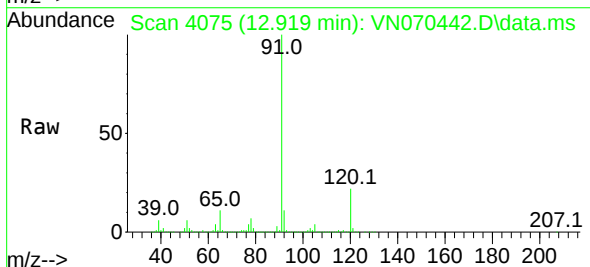
Tgt Ion:105 Resp: 3353039  
Ion Ratio Lower Upper  
105 100  
120 26.0 13.4 40.1

Manual Integrations  
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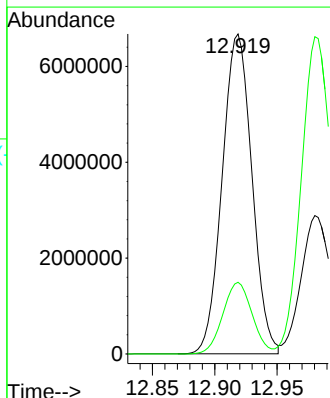
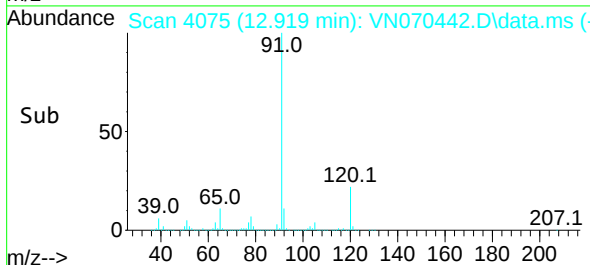
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022

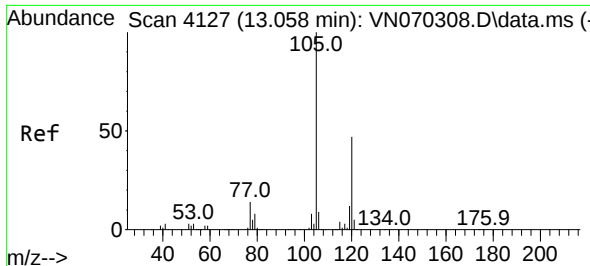


#78  
n-propylbenzene  
Concen: 138.768 ug/l  
RT: 12.919 min Scan# 4075  
Delta R.T. -0.000 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17



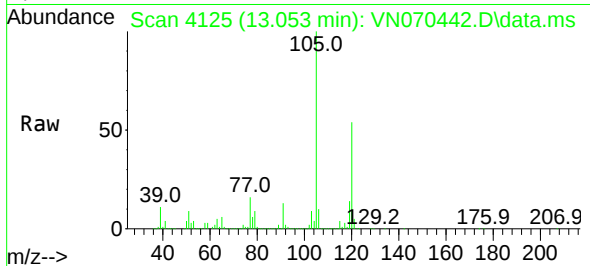
Tgt Ion: 91 Resp:11079026  
Ion Ratio Lower Upper  
91 100  
120 22.0 11.9 35.9





#80  
1,3,5-Trimethylbenzene  
Concen: 275.486 ug/l m  
RT: 13.053 min Scan# 4127  
Delta R.T. -0.005 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17

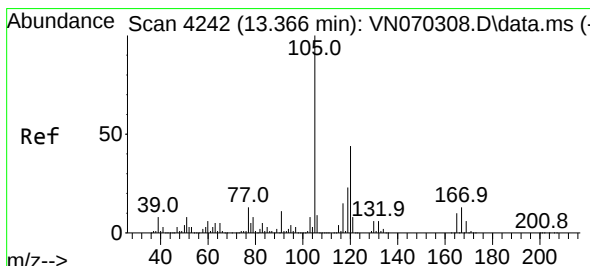
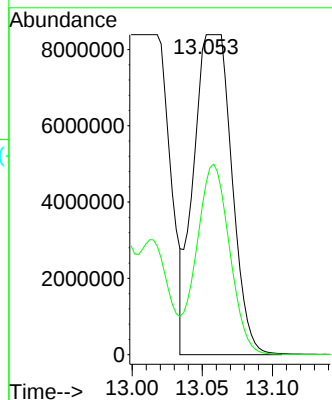
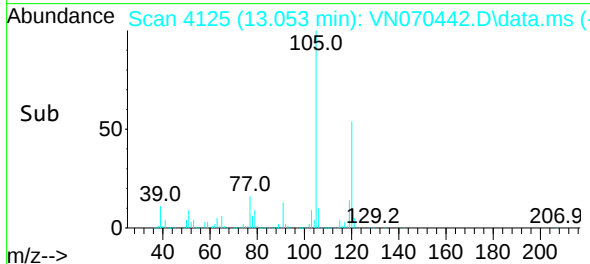
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-101R



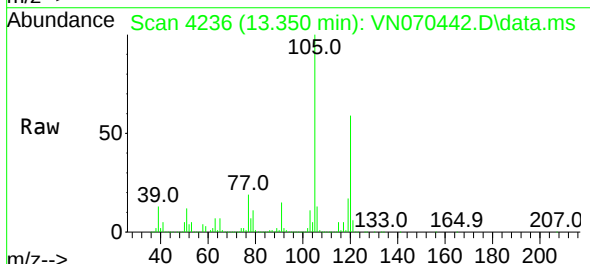
Tgt Ion:105 Resp:1590753  
Ion Ratio Lower Upper  
105 100  
120 51.4 24.6 73.6

Manual Integrations  
APPROVED

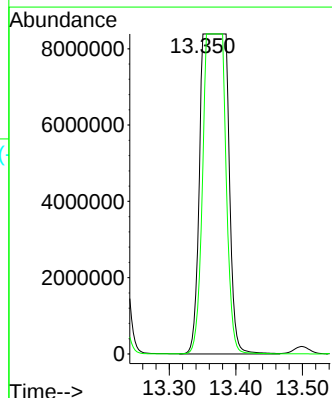
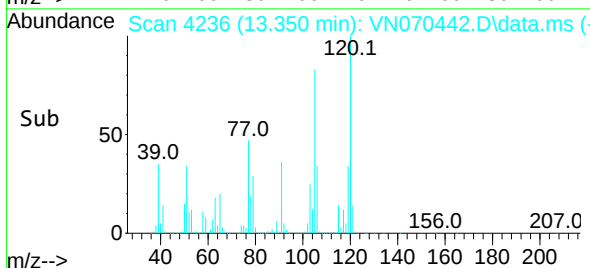
Reviewed By :John Carlone 01/04/2022  
Supervised By :Mahesh Dadoda 01/04/2022

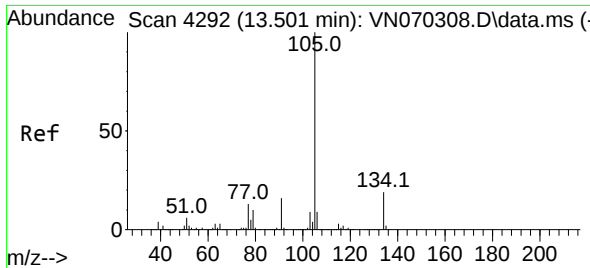


#84  
1,2,4-Trimethylbenzene  
Concen: 442.072 ug/l m  
RT: 13.350 min Scan# 4236  
Delta R.T. -0.016 min  
Lab File: VN070442.D  
Acq: 3 Jan 2022 17:17



Tgt Ion:105 Resp:24580475  
Ion Ratio Lower Upper  
105 100  
120 0.0 22.8 68.4#





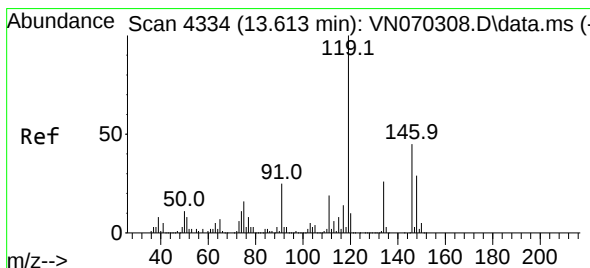
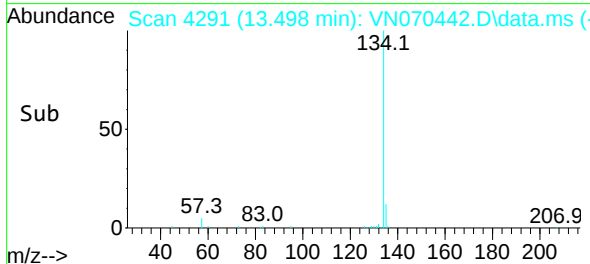
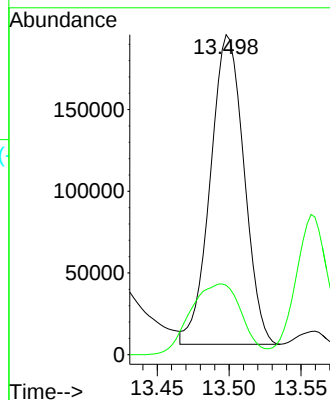
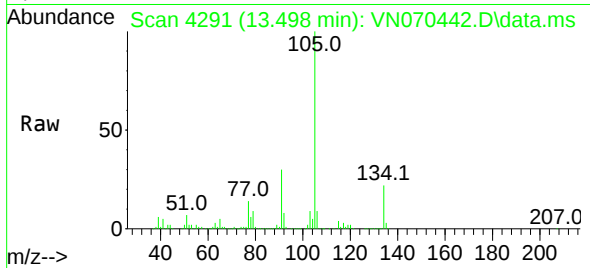
#85  
 sec-Butylbenzene  
 Concen: 4.469 ug/l  
 RT: 13.498 min Scan# 4291  
 Delta R.T. -0.003 min  
 Lab File: VN070442.D  
 Acq: 3 Jan 2022 17:17

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-101R

Tgt Ion:105 Resp: 308492  
 Ion Ratio Lower Upper  
 105 100  
 134 34.7 10.4 31.1#

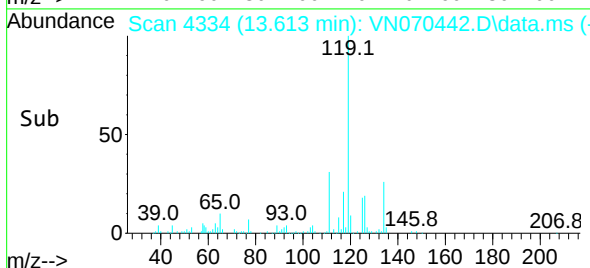
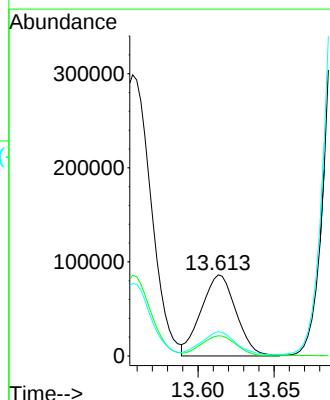
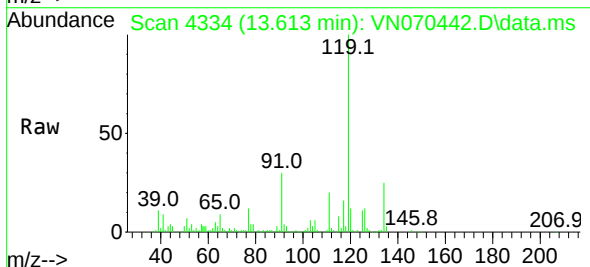
Manual Integrations  
 APPROVED

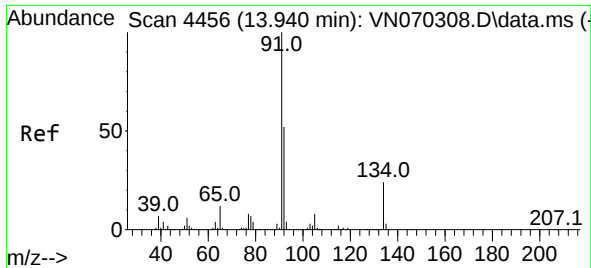
Reviewed By :John Carlone 01/04/2022  
 Supervised By :Mahesh Dadoda 01/04/2022



#86  
 p-Isopropyltoluene  
 Concen: 2.528 ug/l m  
 RT: 13.613 min Scan# 4334  
 Delta R.T. 0.000 min  
 Lab File: VN070442.D  
 Acq: 3 Jan 2022 17:17

Tgt Ion:119 Resp: 137094  
 Ion Ratio Lower Upper  
 119 100  
 134 97.7 13.6 40.7#  
 91 0.0 11.4 34.1#





#89

n-Butylbenzene

Concen: 7.355 ug/l m

RT: 13.938 min Scan# 44

Delta R.T. -0.002 min

Lab File: VN070442.D

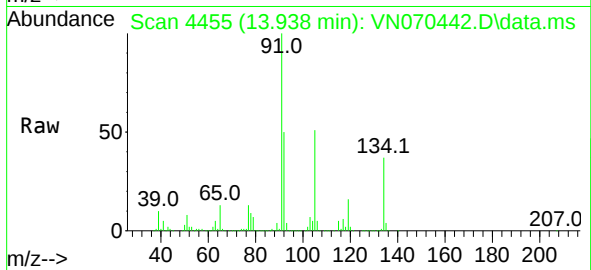
Acq: 3 Jan 2022 17:17

Instrument :

MSVOA\_N

ClientSampleId :

MW-101R



|             |                 |
|-------------|-----------------|
| Tgt Ion: 91 | Resp: 332679    |
| Ion Ratio   | Lower Upper     |
| 91          | 100             |
| 92          | 120.6 25.4 76.0 |
| 134         | 90.7 13.6 40.8  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/04/2022

Supervised By :Mahesh Dadoda 01/04/2022

