

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081322\  
 Data File : VN073872.D  
 Acq On : 13 Aug 2022 16:50  
 Operator : JC\MD  
 Sample : N4156-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FMC-0071

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/15/2022  
 Supervised By : Mahesh Dadoda 08/16/2022

Quant Time: Aug 14 02:36:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 10 05:09:32 2022  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 8.128          | 168  | 607038     | 50.000   | ug/l   | 0.11     |
| 34) 1,4-Difluorobenzene     | 8.980          | 114  | 884113     | 50.000   | ug/l   | 0.08     |
| 63) Chlorobenzene-d5        | 11.704         | 117  | 814112     | 50.000   | ug/l   | 0.02     |
| 72) 1,4-Dichlorobenzene-d4  | 13.621         | 152  | 454305     | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.475          | 65   | 298536     | 40.355   | ug/l   | 0.11     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 80.720%  |        |          |
| 35) Dibromofluoromethane    | 8.069          | 113  | 290677     | 52.358   | ug/l   | 0.12     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 104.720% |        |          |
| 50) Toluene-d8              | 10.422         | 98   | 985431     | 45.107   | ug/l   | 0.04     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 90.220%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.680         | 95   | 396584     | 51.617   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 103.240% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 16) Acetone                 | 4.410          | 43   | 1655271m   | 416.589  | ug/l   |          |
| 18) Methyl Acetate          | 4.940          | 43   | 74604      | 7.547    | ug/l   | 93       |
| 20) Methylene Chloride      | 5.140          | 84   | 94091      | 13.007   | ug/l   | 99       |
| 37) Ethyl Acetate           | 7.498          | 43   | 66498m     | 6.382    | ug/l   |          |
| 40) Benzene                 | 8.492          | 78   | 26564      | 1.034    | ug/l   | 100      |
| 43) Isopropyl Acetate       | 8.592          | 43   | 779102     | 55.354   | ug/l # | 72       |
| 51) 4-Methyl-2-Pentanone    | 10.310         | 43   | 126995     | 12.580   | ug/l # | 75       |
| 52) Toluene                 | 10.474         | 92   | 23545357m  | 1500.253 | ug/l   |          |
| 67) Ethyl Benzene           | 11.804         | 91   | 424942     | 14.566   | ug/l   | 97       |
| 68) m/p-Xylenes             | 11.904         | 106  | 573171     | 51.513   | ug/l   | 97       |
| 69) o-Xylene                | 12.233         | 106  | 392088     | 36.145   | ug/l   | 96       |
| 73) Isopropylbenzene        | 12.527         | 105  | 75868      | 2.281    | ug/l   | 98       |
| 78) n-propylbenzene         | 12.868         | 91   | 199767     | 5.339    | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene  | 13.004         | 105  | 253121     | 9.249    | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.315         | 105  | 1275871    | 47.411   | ug/l   | 98       |
| 85) sec-Butylbenzene        | 13.445         | 105  | 50835      | 1.517    | ug/l   | 83       |
| 86) p-Isopropyltoluene      | 13.557         | 119  | 34648      | 1.312    | ug/l   | 97       |
| 89) n-Butylbenzene          | 13.886         | 91   | 50095      | 2.331    | ug/l # | 82       |
| 95) Naphthalene             | 15.433         | 128  | 823124     | 31.886   | ug/l   | 99       |
| -----                       |                |      |            |          |        |          |

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

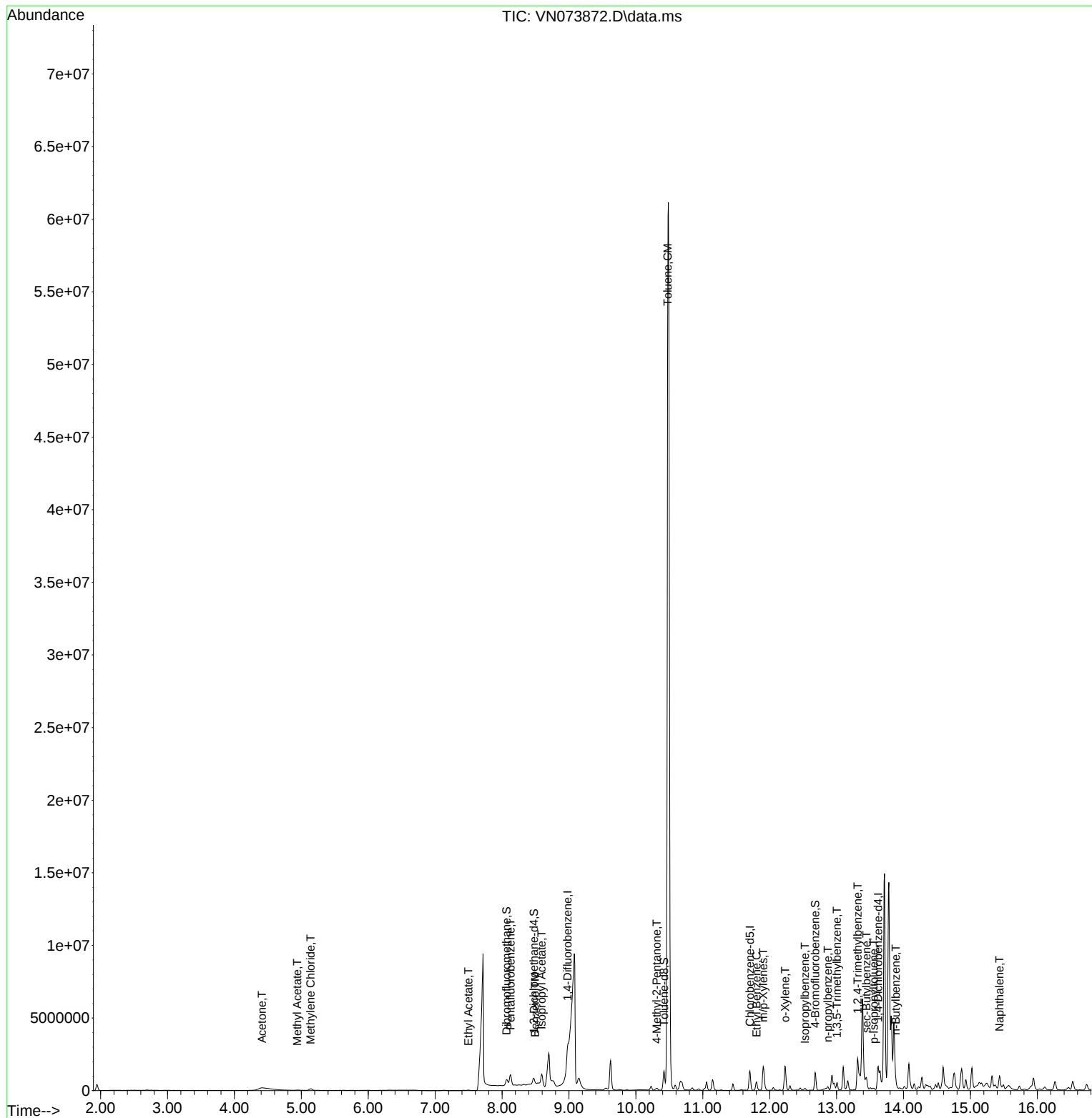
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081322\  
Data File : VN073872.D  
Acq On : 13 Aug 2022 16:50  
Operator : JC\MD  
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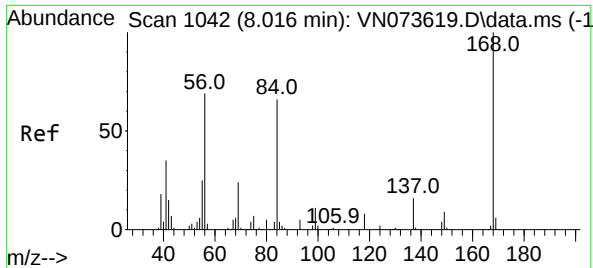
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071

Quant Time: Aug 14 02:36:06 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 10 05:09:32 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

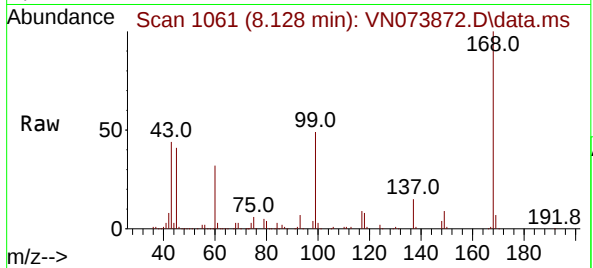
Reviewed By : John Carlone 08/15/2022  
Supervised By : Mahesh Dadoda 08/16/2022





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.128 min Scan# 1042  
Delta R.T. 0.112 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

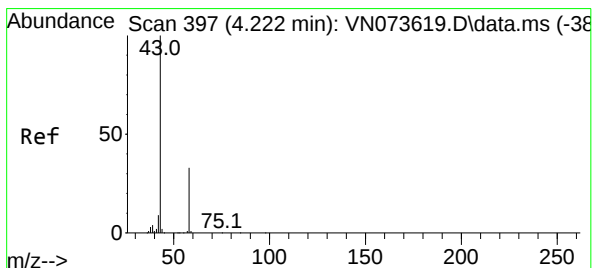
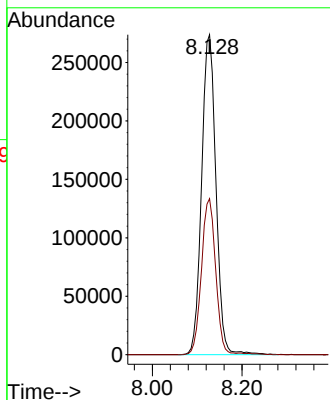
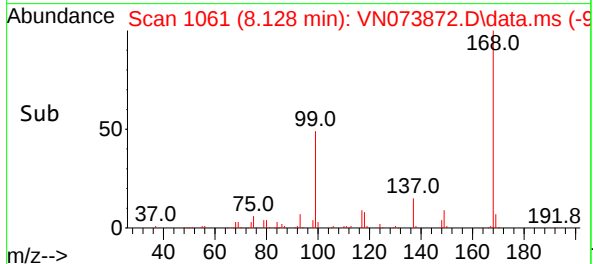
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071



Tgt Ion:168 Resp: 607038  
Ion Ratio Lower Upper  
168 100  
99 48.8 42.3 63.5

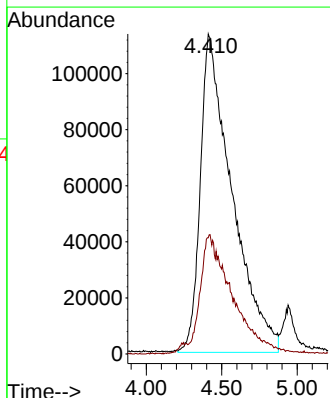
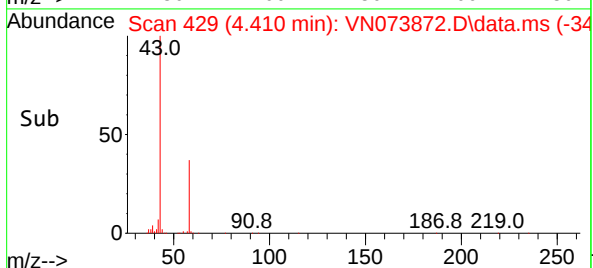
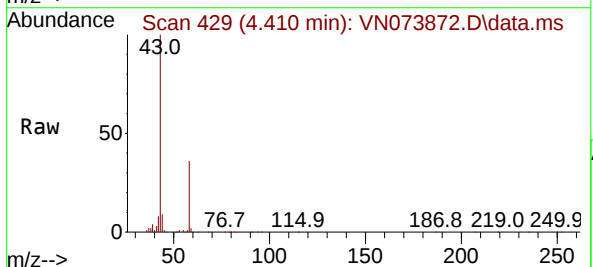
Manual Integrations  
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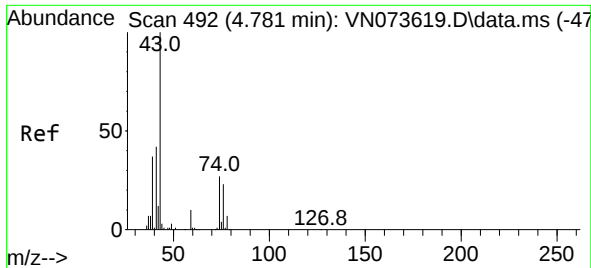
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#16  
Acetone  
Concen: 416.589 ug/l m  
RT: 4.410 min Scan# 429  
Delta R.T. 0.188 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

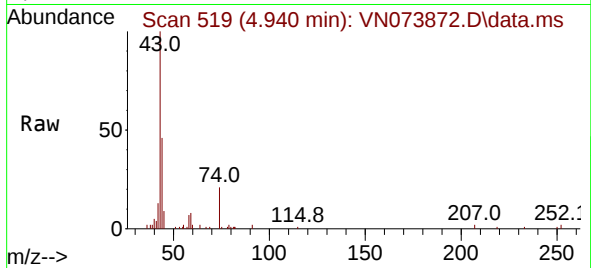
Tgt Ion: 43 Resp: 1655271  
Ion Ratio Lower Upper  
43 100  
58 36.3 26.0 39.0





#18  
Methyl Acetate  
Concen: 7.547 ug/l  
RT: 4.940 min Scan# 519  
Delta R.T. 0.159 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

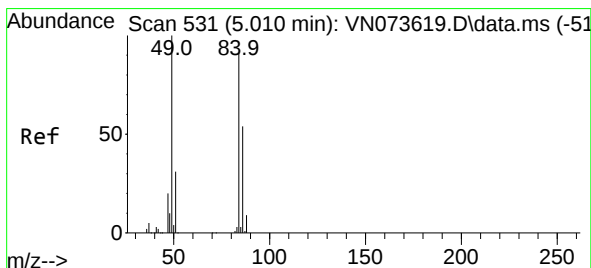
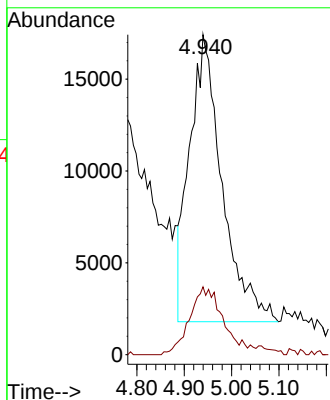
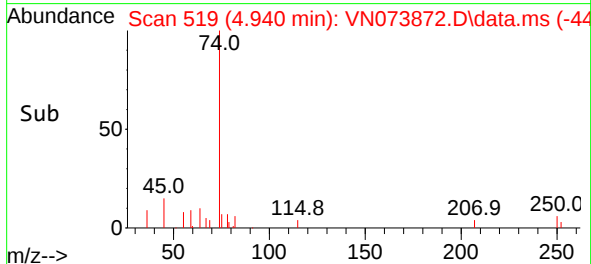
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071



Tgt Ion: 43 Resp: 74604  
Ion Ratio Lower Upper  
43 100  
74 23.2 21.6 32.4

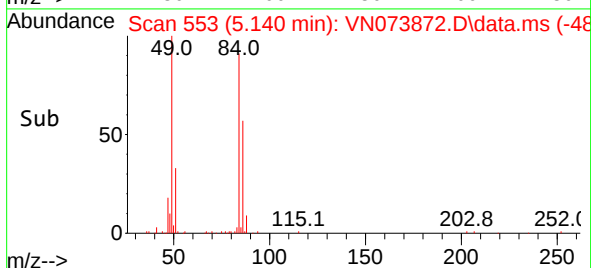
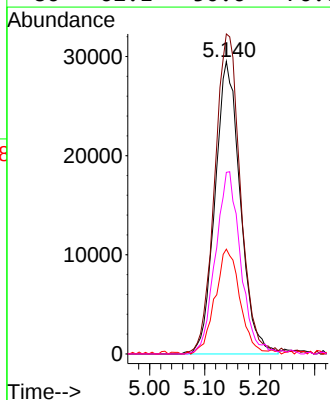
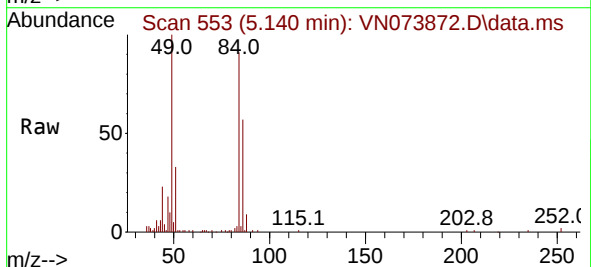
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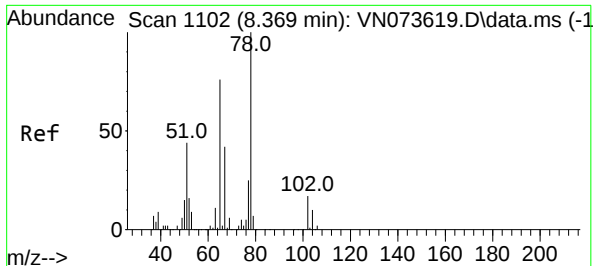
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#20  
Methylene Chloride  
Concen: 13.007 ug/l  
RT: 5.140 min Scan# 553  
Delta R.T. 0.130 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Tgt Ion: 84 Resp: 94091  
Ion Ratio Lower Upper  
84 100  
49 109.4 88.3 132.5  
51 35.3 28.2 42.2  
86 62.1 50.6 76.0





#33

1,2-Dichloroethane-d4

Concen: 40.355 ug/l

RT: 8.475 min Scan# 1102

Delta R.T. 0.106 min

Lab File: VN073872.D

Acq: 13 Aug 2022 16:50

Instrument :

MSVOA\_N

ClientSampleId :

FMC-0071

Tgt Ion: 65 Resp: 298530

Ion Ratio Lower Upper

65 100

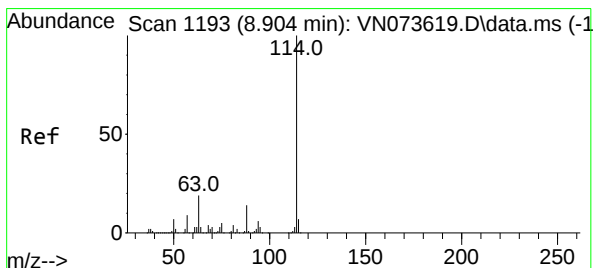
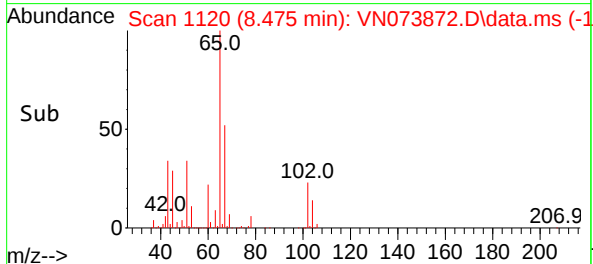
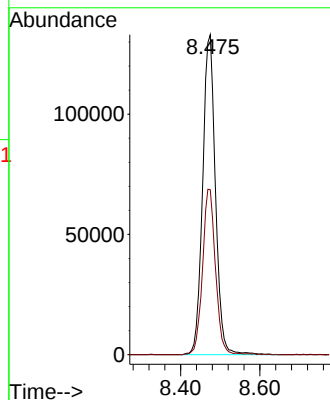
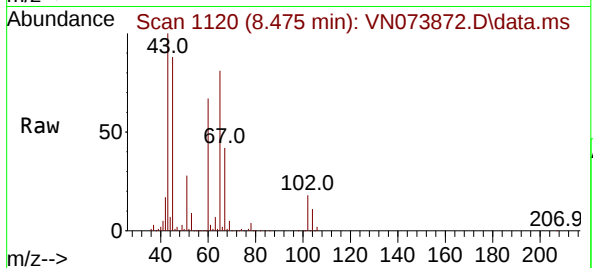
67 52.5 0.0 104.8

Manual Integrations

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Reviewed By :John Carlone 08/15/2022

Supervised By :Mahesh Dadoda 08/16/2022



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.980 min Scan# 1206

Delta R.T. 0.076 min

Lab File: VN073872.D

Acq: 13 Aug 2022 16:50

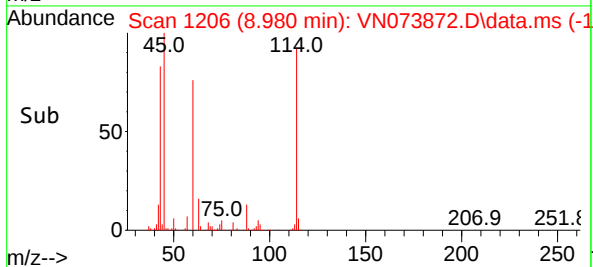
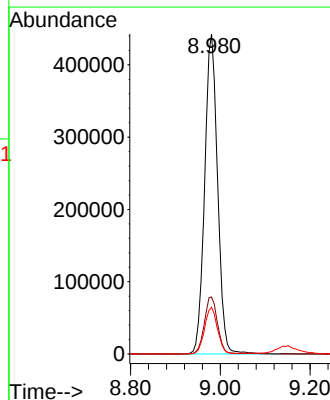
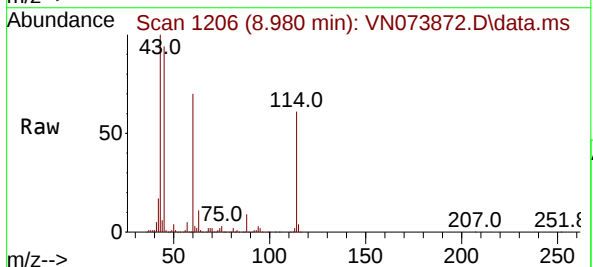
Tgt Ion:114 Resp: 884113

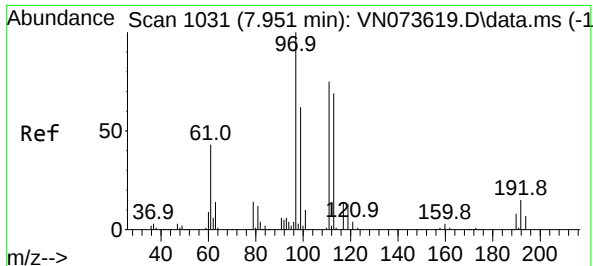
Ion Ratio Lower Upper

114 100

63 17.8 0.0 40.0

88 14.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.358 ug/l

RT: 8.069 min Scan# 1051

Delta R.T. 0.118 min

Lab File: VN073872.D

Acq: 13 Aug 2022 16:50

Instrument :

MSVOA\_N

ClientSampleId :

FMC-0071

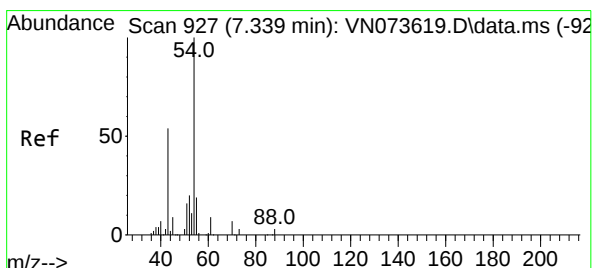
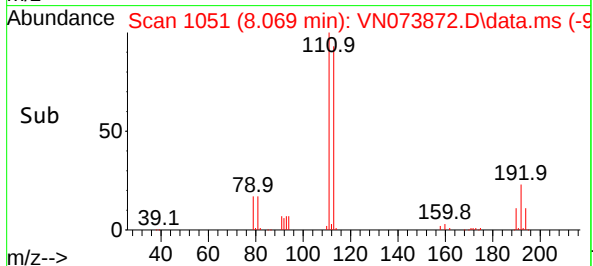
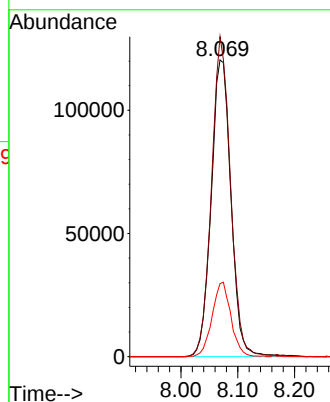
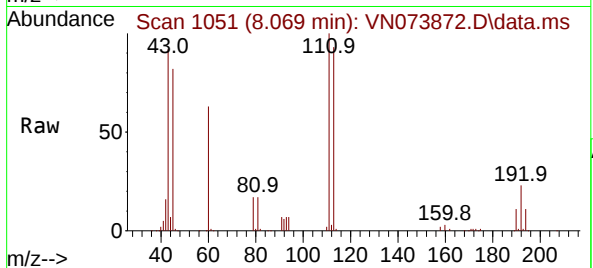
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 29067 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 103.6 | 81.4  | 122.0 |
| 192       | 24.0  | 17.0  | 25.6  |

Manual Integrations

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Reviewed By :John Carlone 08/15/2022

Supervised By :Mahesh Dadoda 08/16/2022



#37

Ethyl Acetate

Concen: 6.382 ug/l m

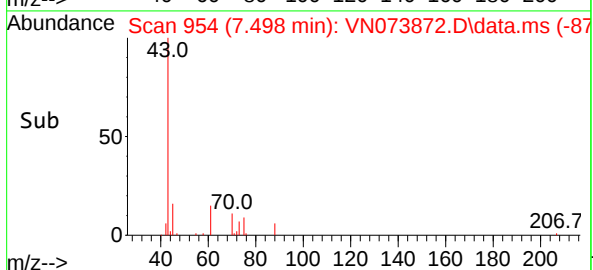
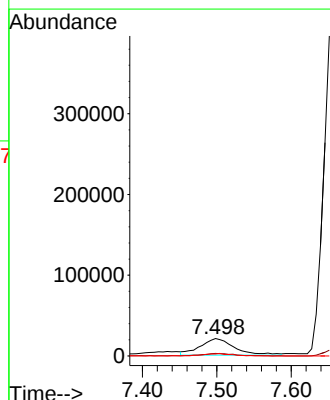
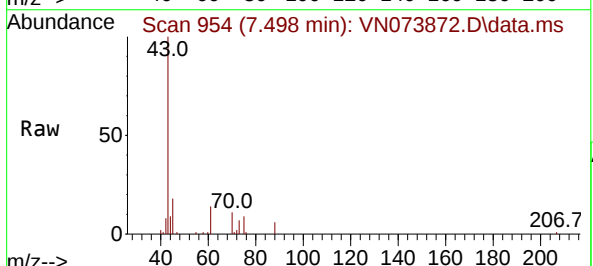
RT: 7.498 min Scan# 954

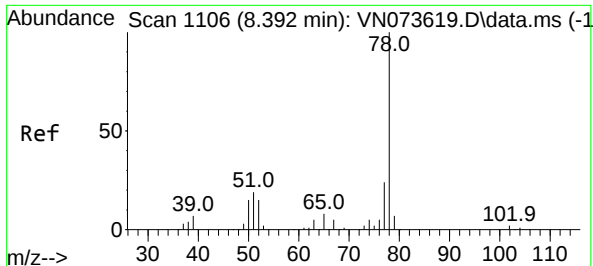
Delta R.T. 0.159 min

Lab File: VN073872.D

Acq: 13 Aug 2022 16:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 66498 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 0.0   | 11.8  | 17.6# |
| 70        | 0.0   | 9.3   | 13.9# |





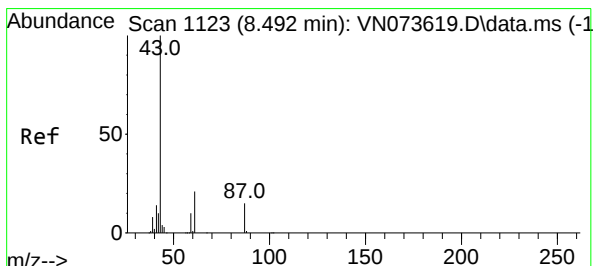
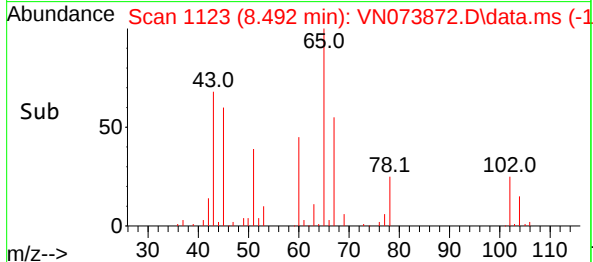
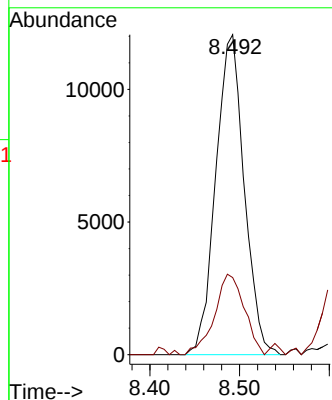
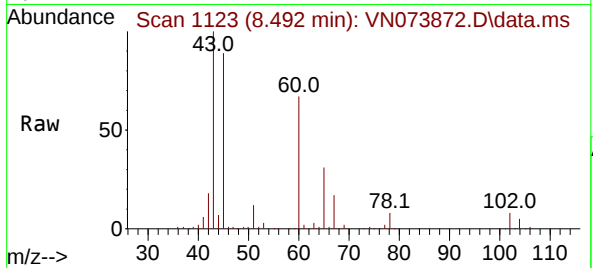
#40  
Benzene  
Concen: 1.034 ug/l  
RT: 8.492 min Scan# 1110  
Delta R.T. 0.100 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071

Tgt Ion: 78 Resp: 26564  
Ion Ratio Lower Upper  
78 100  
77 24.1 19.4 29.0

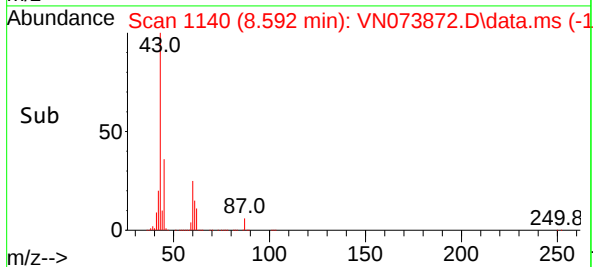
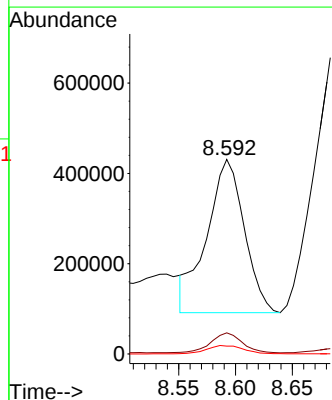
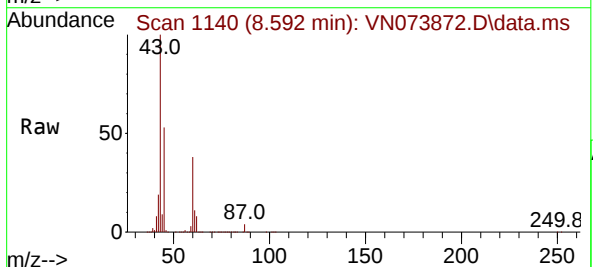
Manual Integrations  
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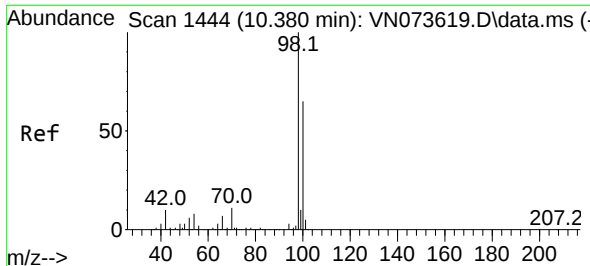
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#43  
Isopropyl Acetate  
Concen: 55.354 ug/l  
RT: 8.592 min Scan# 1140  
Delta R.T. 0.100 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Tgt Ion: 43 Resp: 779102  
Ion Ratio Lower Upper  
43 100  
61 11.4 21.9 32.9#  
87 5.7 12.0 18.0#





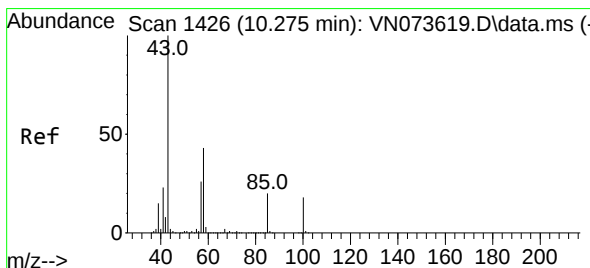
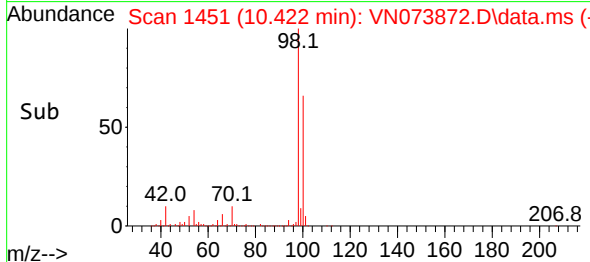
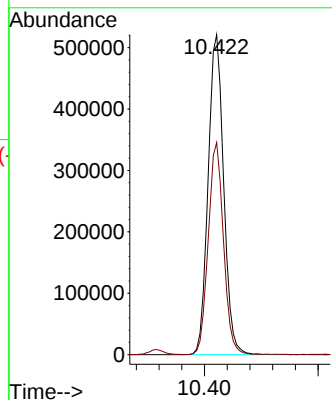
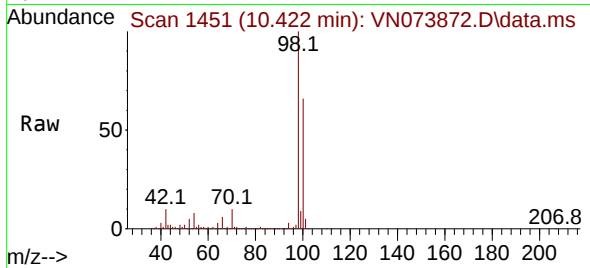
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Toluene-d8  
Concen: 45.107 ug/l  
RT: 10.422 min Scan# 1444  
Delta R.T. 0.041 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071

Tgt Ion: 98 Resp: 98543  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.6 78.8

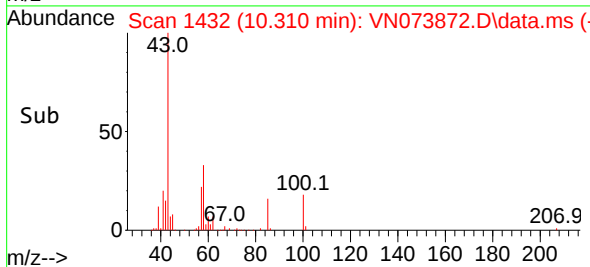
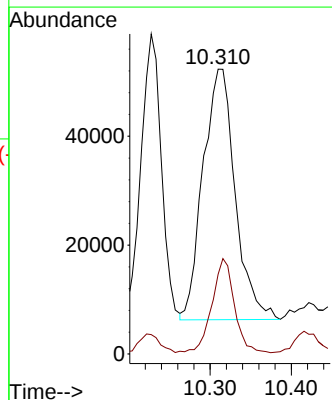
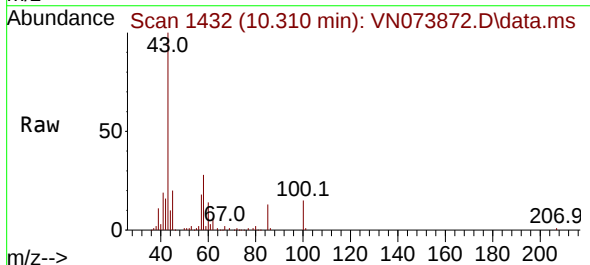
Manual Integrations  
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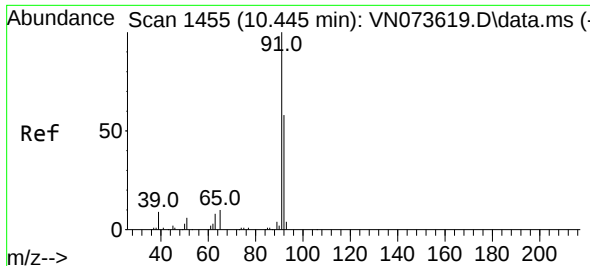
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#51  
4-Methyl-2-Pentanone  
Concen: 12.580 ug/l  
RT: 10.310 min Scan# 1432  
Delta R.T. 0.035 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

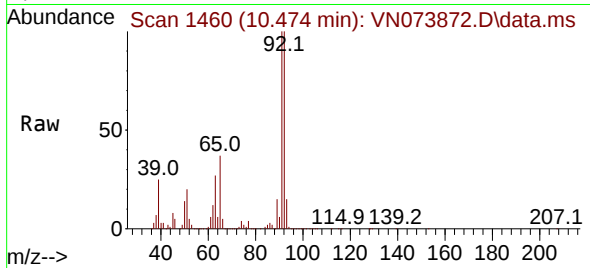
Tgt Ion: 43 Resp: 126995  
Ion Ratio Lower Upper  
43 100  
58 26.4 34.1 51.1#





#52  
Toluene  
Concen: 1500.253 ug/l m  
RT: 10.474 min Scan# 1455  
Delta R.T. 0.029 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

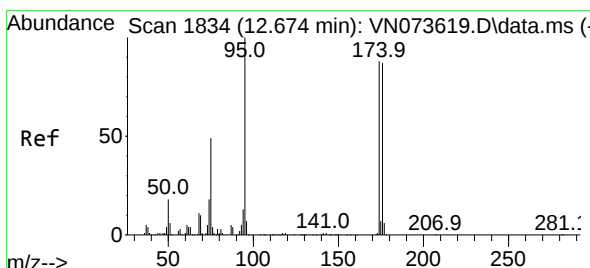
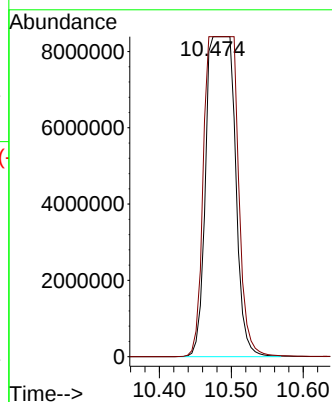
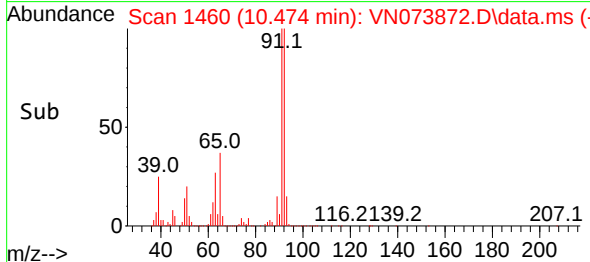
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071



Tgt Ion: 92 Resp: 2354535  
Ion Ratio Lower Upper  
92 100  
91 0.0 138.6 207.8

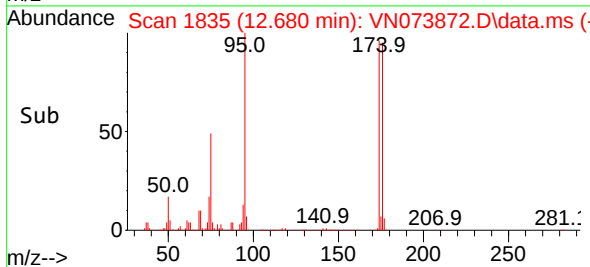
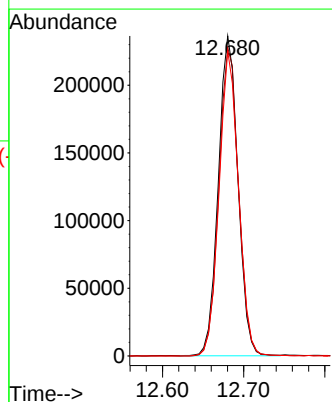
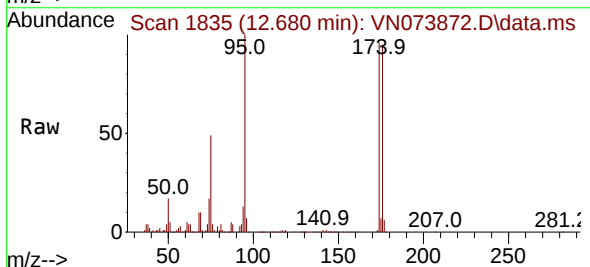
Manual Integrations  
APPROVED

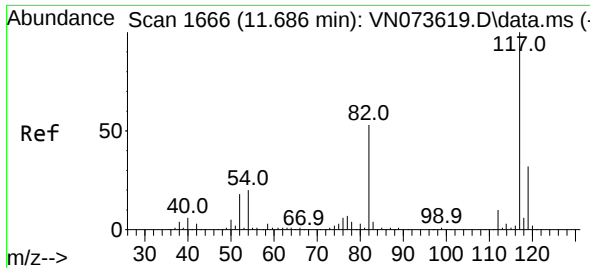
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#62  
4-Bromofluorobenzene  
Concen: 51.617 ug/l  
RT: 12.680 min Scan# 1835  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Tgt Ion: 95 Resp: 396584  
Ion Ratio Lower Upper  
95 100  
174 97.1 0.0 167.6  
176 94.5 0.0 163.4





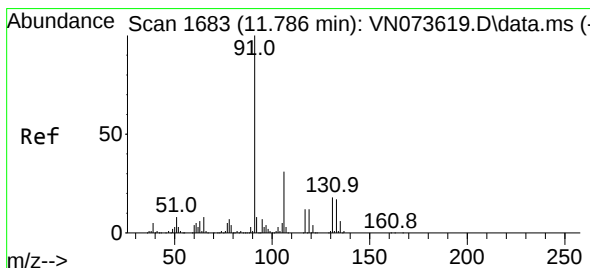
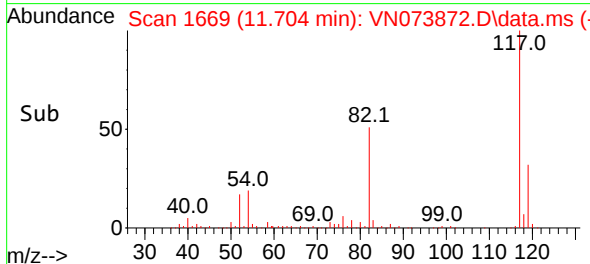
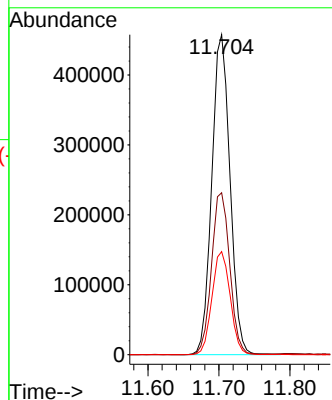
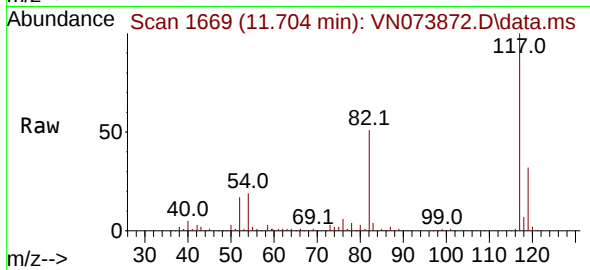
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.704 min Scan# 1669  
Delta R.T. 0.018 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071

Tgt Ion:117 Resp: 814112  
Ion Ratio Lower Upper  
117 100  
82 50.6 44.2 66.2  
119 32.2 25.4 38.0

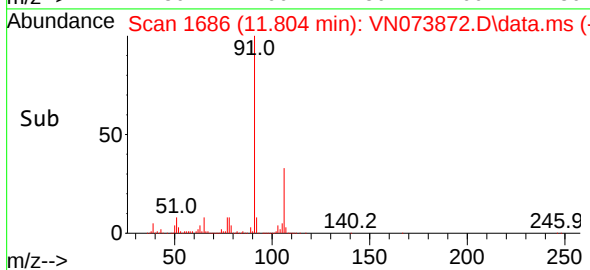
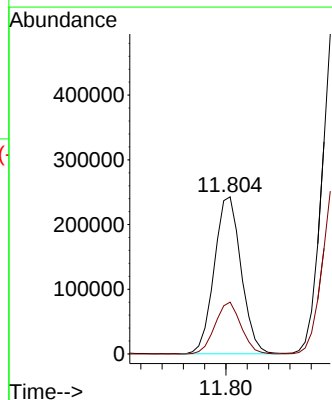
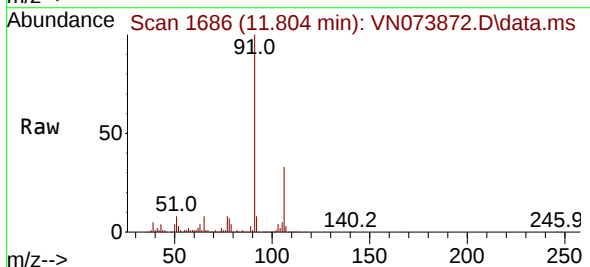
Manual Integrations  
APPROVED

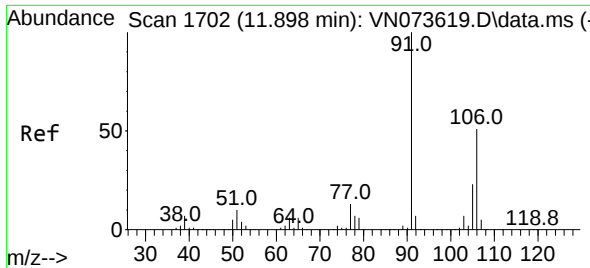
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#67  
Ethyl Benzene  
Concen: 14.566 ug/l  
RT: 11.804 min Scan# 1686  
Delta R.T. 0.018 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Tgt Ion: 91 Resp: 424942  
Ion Ratio Lower Upper  
91 100  
106 33.0 24.9 37.3





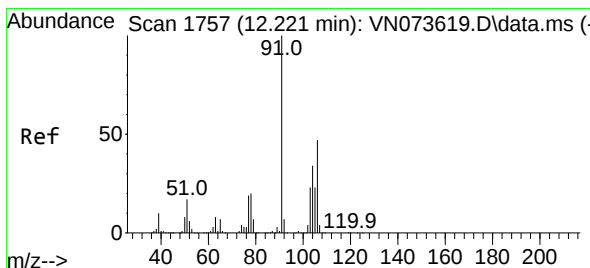
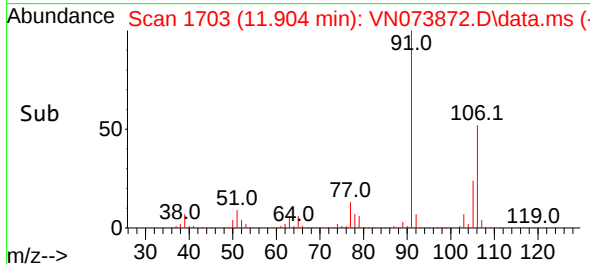
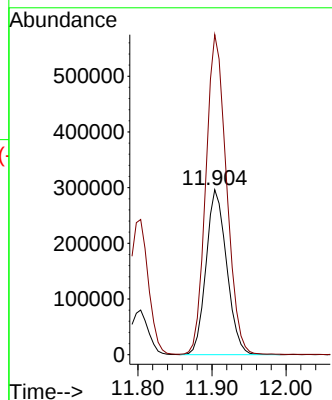
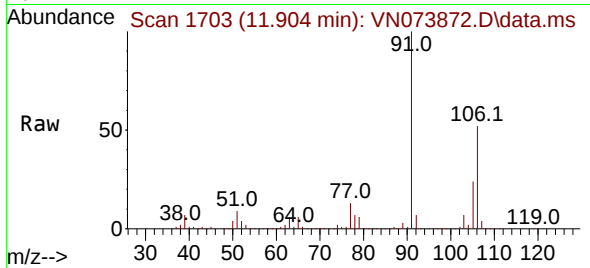
#68  
m/p-Xylenes  
Concen: 51.513 ug/l  
RT: 11.904 min Scan# 1703  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071

Tgt Ion:106 Resp: 57317  
Ion Ratio Lower Upper  
106 100  
91 194.1 158.9 238.3

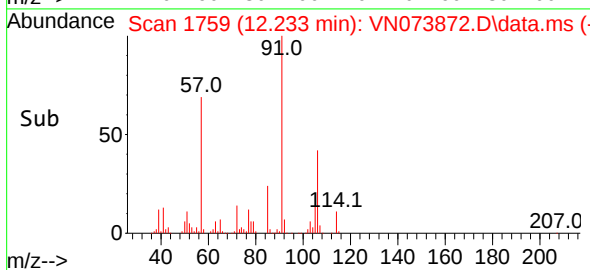
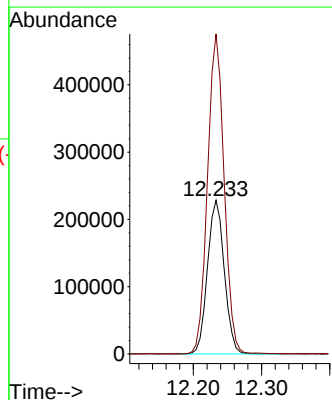
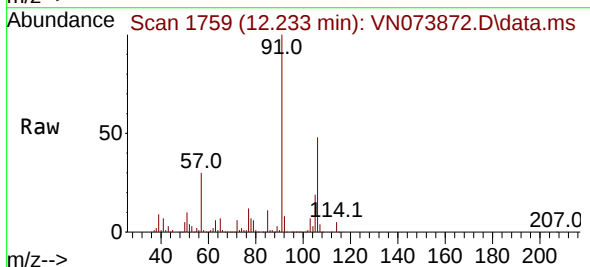
Manual Integrations  
APPROVED

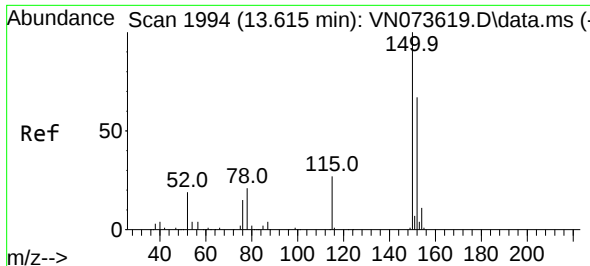
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#69  
o-Xylene  
Concen: 36.145 ug/l  
RT: 12.233 min Scan# 1759  
Delta R.T. 0.012 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

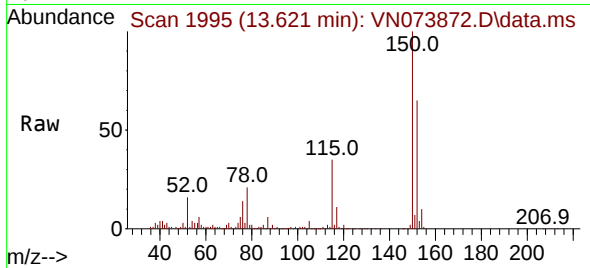
Tgt Ion:106 Resp: 392088  
Ion Ratio Lower Upper  
106 100  
91 205.2 106.0 318.0





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.621 min Scan# 1994  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

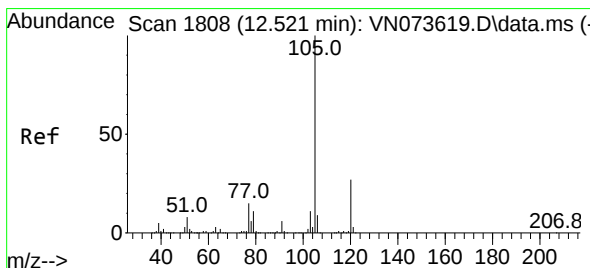
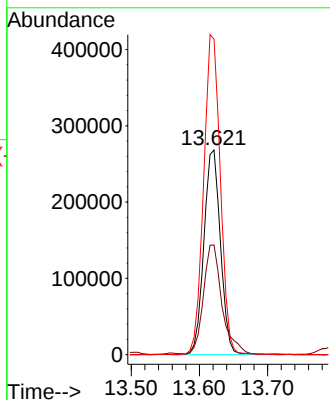
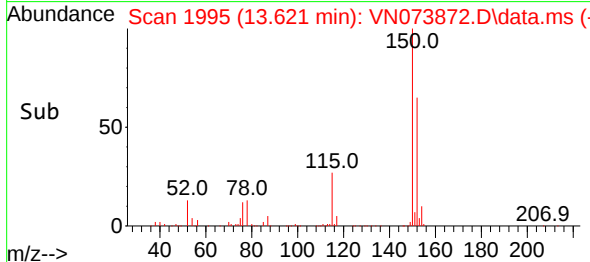
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071



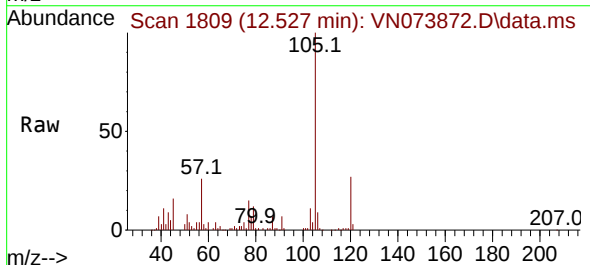
Tgt Ion:152 Resp: 45430  
Ion Ratio Lower Upper  
152 100  
115 59.7 28.9 86.7  
150 156.9 0.0 356.2

Manual Integrations  
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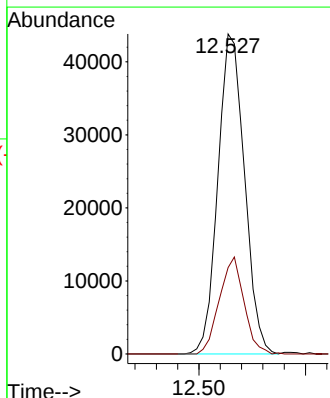
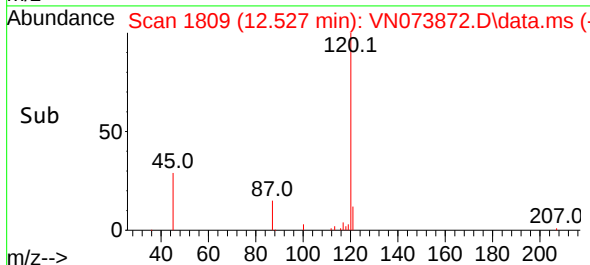
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022

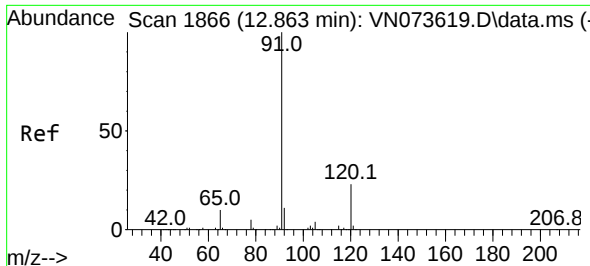


#73  
Isopropylbenzene  
Concen: 2.281 ug/l  
RT: 12.527 min Scan# 1809  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50



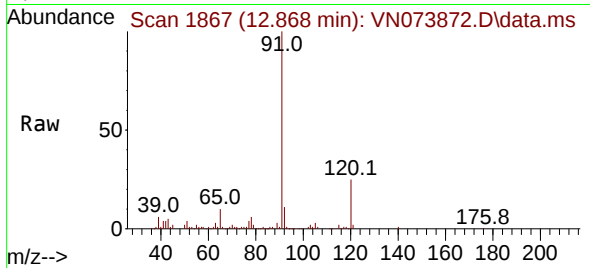
Tgt Ion:105 Resp: 75868  
Ion Ratio Lower Upper  
105 100  
120 28.1 13.5 40.4





#78  
n-propylbenzene  
Concen: 5.339 ug/l  
RT: 12.868 min Scan# 1866  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

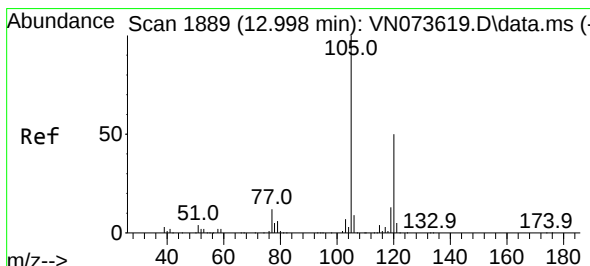
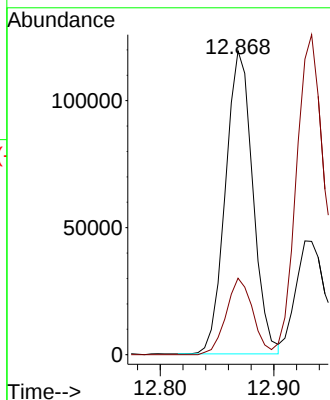
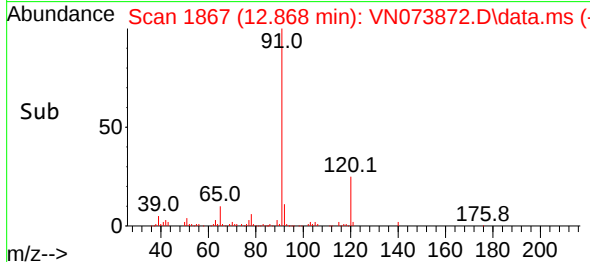
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071



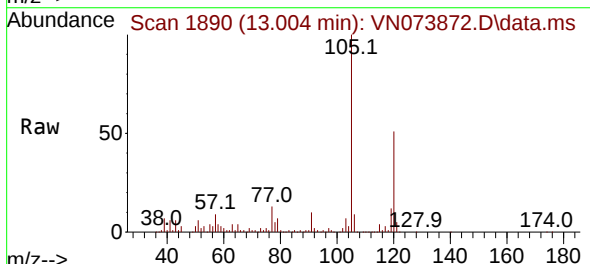
Tgt Ion: 91 Resp: 19976  
Ion Ratio Lower Upper  
91 100  
120 24.5 11.9 35.5

Manual Integrations  
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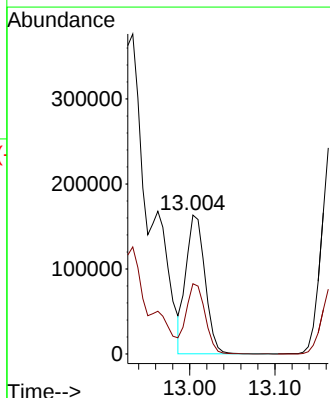
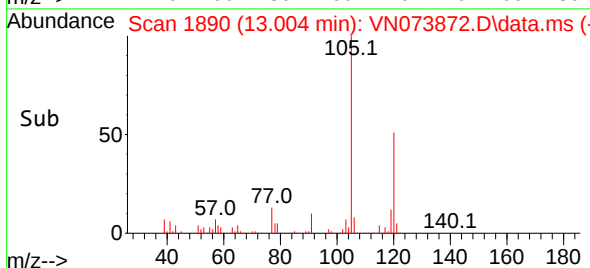
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022

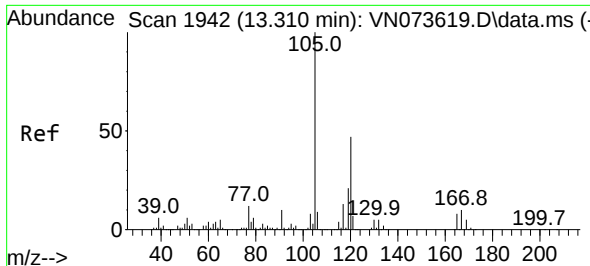


#80  
1,3,5-Trimethylbenzene  
Concen: 9.249 ug/l  
RT: 13.004 min Scan# 1890  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50



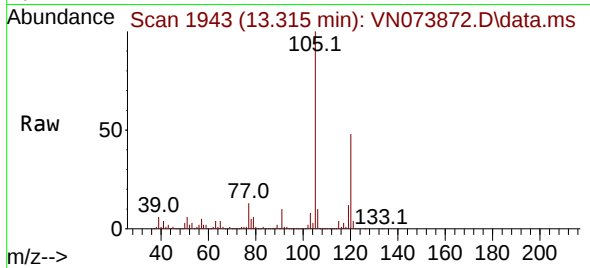
Tgt Ion:105 Resp: 253121  
Ion Ratio Lower Upper  
105 100  
120 50.3 24.9 74.7





#84  
1,2,4-Trimethylbenzene  
Concen: 47.411 ug/l  
RT: 13.315 min Scan# 1942  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

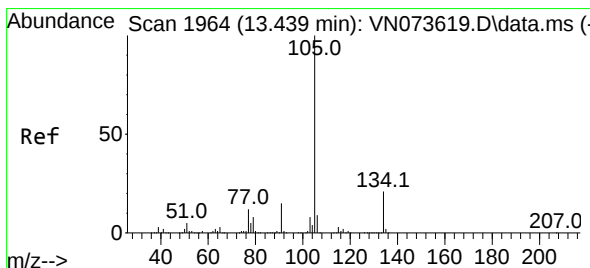
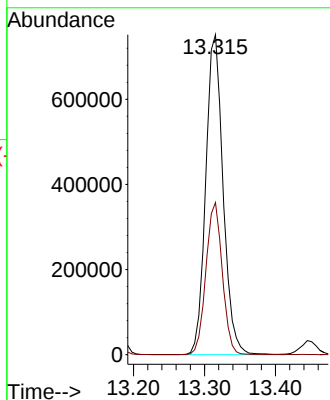
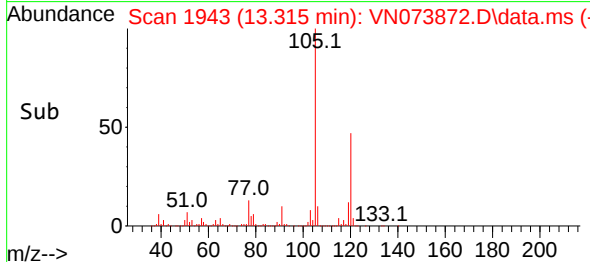
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071



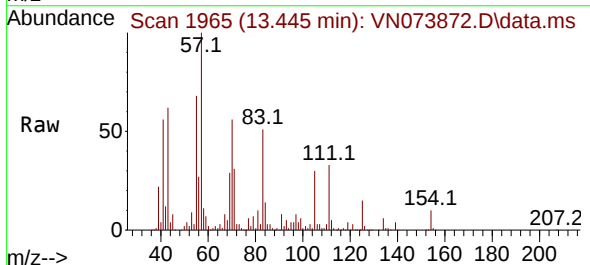
Tgt Ion:105 Resp: 127587  
Ion Ratio Lower Upper  
105 100  
120 45.0 23.3 69.8

Manual Integrations  
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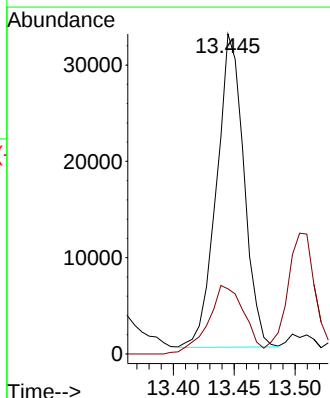
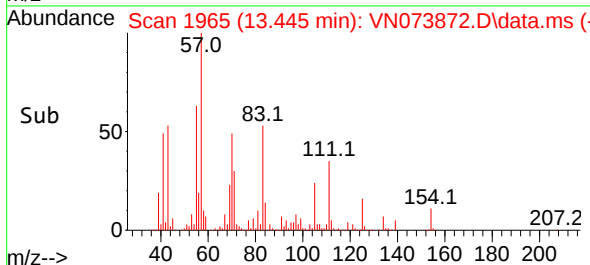
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022

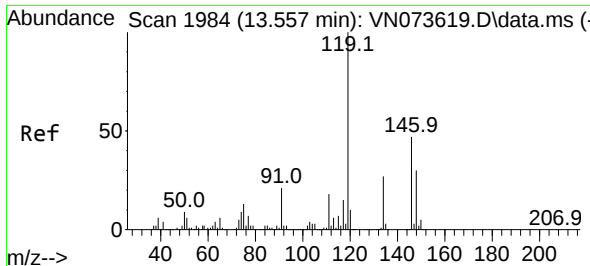


#85  
sec-Butylbenzene  
Concen: 1.517 ug/l  
RT: 13.445 min Scan# 1965  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50



Tgt Ion:105 Resp: 50835  
Ion Ratio Lower Upper  
105 100  
134 28.8 10.4 31.1





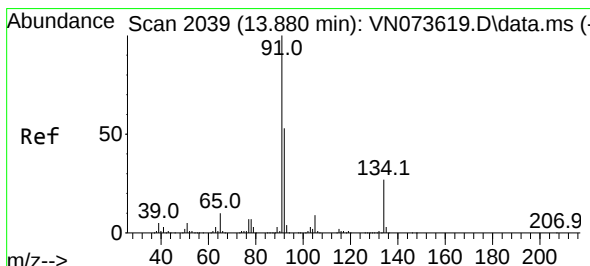
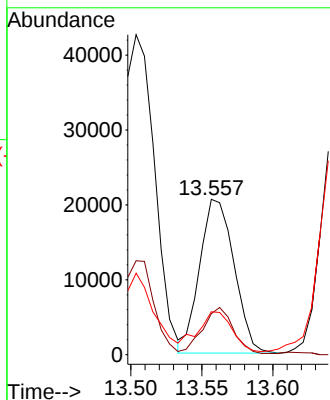
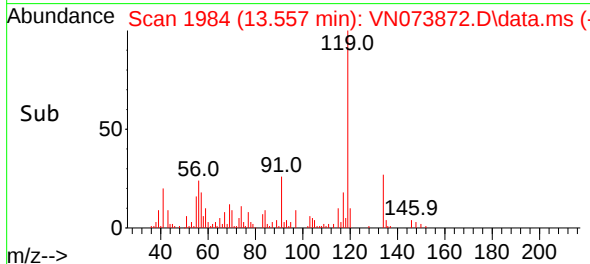
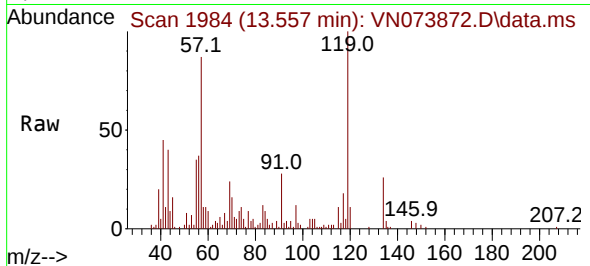
#86  
p-Isopropyltoluene  
Concen: 1.312 ug/l  
RT: 13.557 min Scan# 1984  
Delta R.T. -0.000 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071

Tgt Ion: 119 Resp: 34648  
Ion Ratio Lower Upper  
119 100  
134 26.7 13.3 39.8  
91 25.6 11.3 33.9

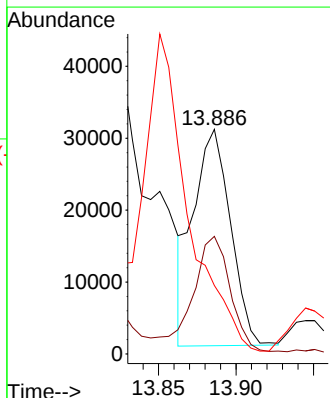
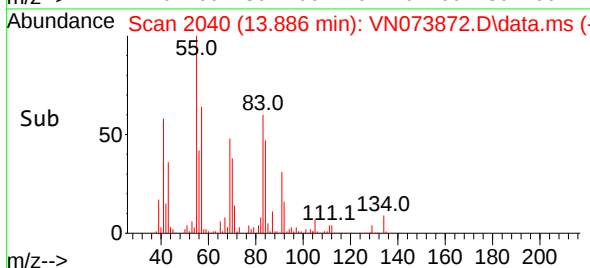
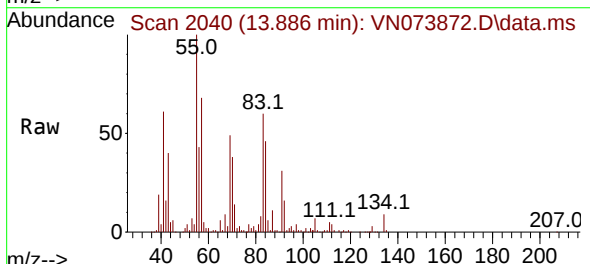
Manual Integrations  
APPROVED

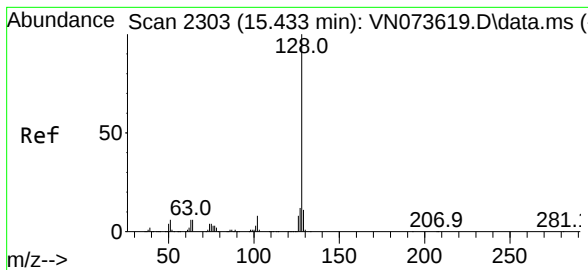
Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#89  
n-Butylbenzene  
Concen: 2.331 ug/l  
RT: 13.886 min Scan# 2040  
Delta R.T. 0.006 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

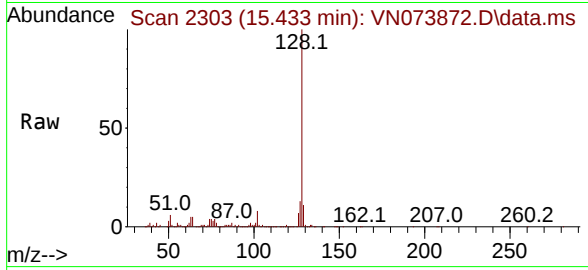
Tgt Ion: 91 Resp: 50095  
Ion Ratio Lower Upper  
91 100  
92 53.2 26.9 80.7  
134 0.0 13.6 40.8#





#95  
Naphthalene  
Concen: 31.886 ug/l  
RT: 15.433 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN073872.D  
Acq: 13 Aug 2022 16:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0071



Tgt Ion:128 Resp: 823124  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.3 15.5  
129 11.1 8.6 13.0

Manual Integrations  
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Reviewed By :John Carlone 08/15/2022  
Supervised By :Mahesh Dadoda 08/16/2022

