

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081522\  
 Data File : VN073899.D  
 Acq On : 15 Aug 2022 16:42  
 Operator : JC\MD  
 Sample : N4156-04RE  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FMC-0074

Quant Time: Aug 15 23:58:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 15 23:50:46 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 8.016          | 168  | 608328     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.904          | 114  | 889198     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.686         | 117  | 862242     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.615         | 152  | 491438     | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.369          | 65   | 275249     | 46.455   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 92.900%  |        |          |
| 35) Dibromofluoromethane    | 7.951          | 113  | 274022     | 52.109   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 104.220% |        |          |
| 50) Toluene-d8              | 10.380         | 98   | 948628     | 46.578   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 93.160%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.674         | 95   | 404423     | 59.833   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 119.660% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 16) Acetone                 | 4.251          | 43   | 635631     | 227.386  | ug/l   | 97       |
| 18) Methyl Acetate          | 4.792          | 43   | 33734      | 2.407    | ug/l   | 99       |
| 20) Methylene Chloride      | 5.004          | 84   | 63952      | 10.842   | ug/l   | 96       |
| 25) 2-Butanone              | 7.281          | 43   | 240267     | 54.207   | ug/l   | 97       |
| 37) Ethyl Acetate           | 7.345          | 43   | 133665m    | 15.105   | ug/l   |          |
| 43) Isopropyl Acetate       | 8.504          | 43   | 262794     | 20.847   | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone    | 10.274         | 43   | 139920     | 16.417   | ug/l   | 93       |
| 52) Toluene                 | 10.445         | 92   | 1003043    | 63.453   | ug/l   | 100      |
| 67) Ethyl Benzene           | 11.786         | 91   | 35996      | 1.181    | ug/l   | 96       |
| 68) m/p-Xylenes             | 11.892         | 106  | 46934      | 3.790    | ug/l   | 98       |
| 69) o-Xylene                | 12.221         | 106  | 35426      | 2.853    | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.998         | 105  | 44036      | 1.513    | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.310         | 105  | 244015     | 8.395    | ug/l   | 96       |
| 95) Naphthalene             | 15.433         | 128  | 92477      | 2.687    | ug/l   | 99       |
| -----                       |                |      |            |          |        |          |

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

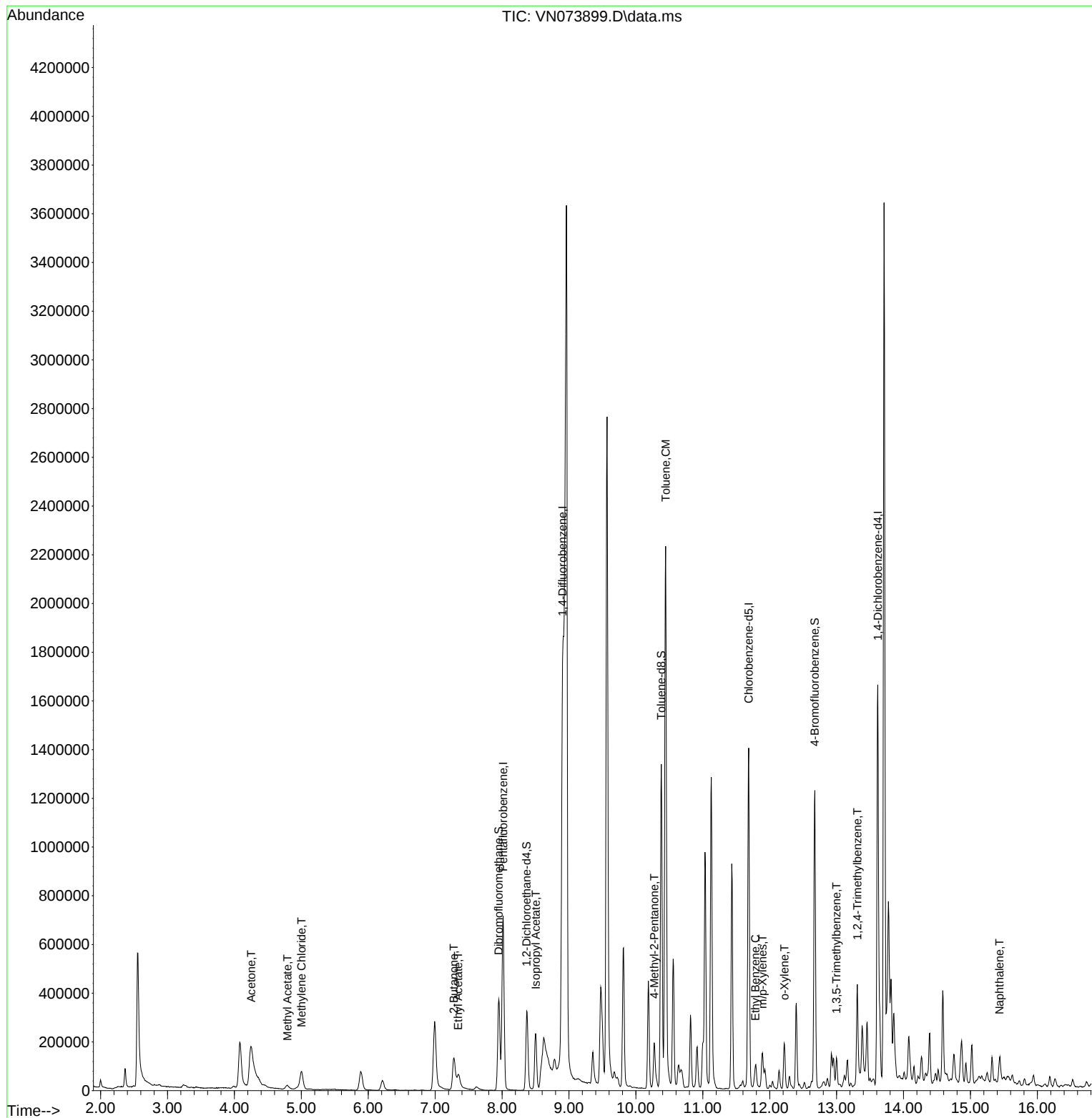
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081522\  
Data File : VN073899.D  
Acq On : 15 Aug 2022 16:42  
Operator : JC\MD  
Sample : N4156-04RE  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 15 Sample Multiplier: 1

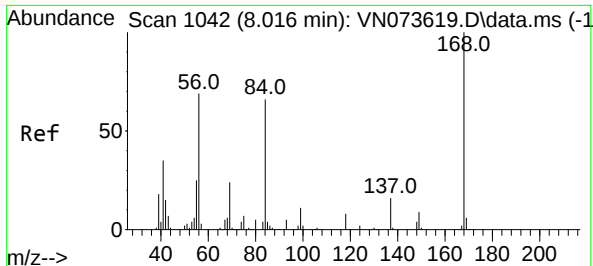
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074

Quant Time: Aug 15 23:58:15 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 15 23:50:46 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

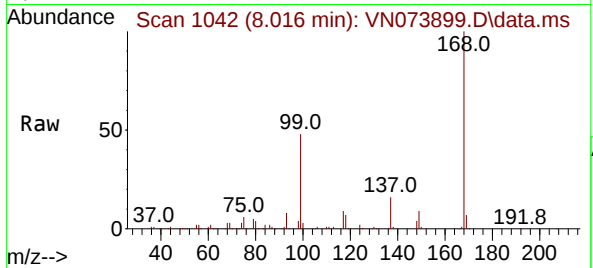
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

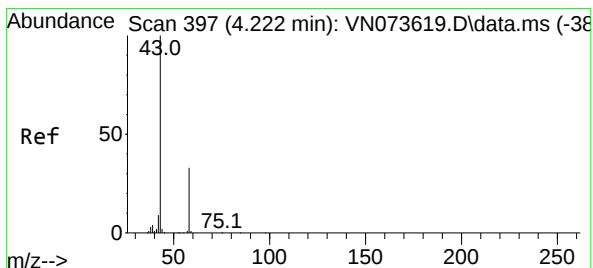
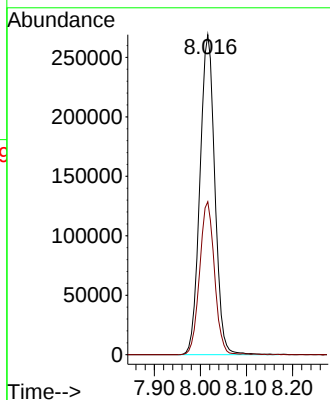
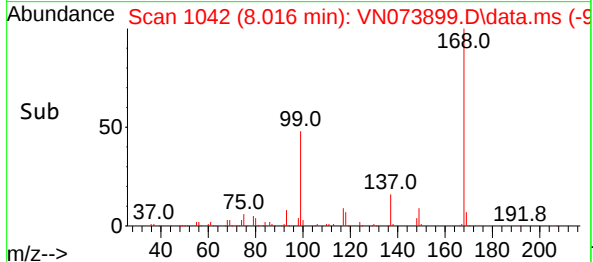
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074



Tgt Ion:168 Resp: 608328  
Ion Ratio Lower Upper  
168 100  
99 47.8 42.3 63.5

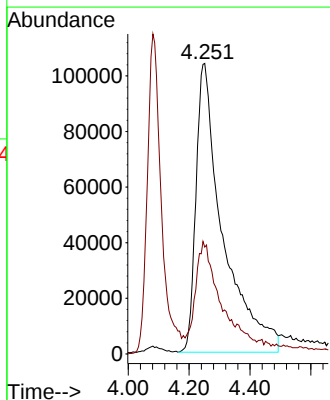
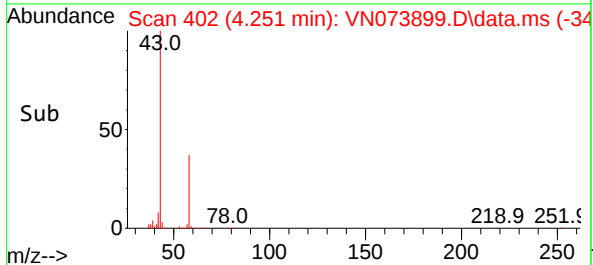
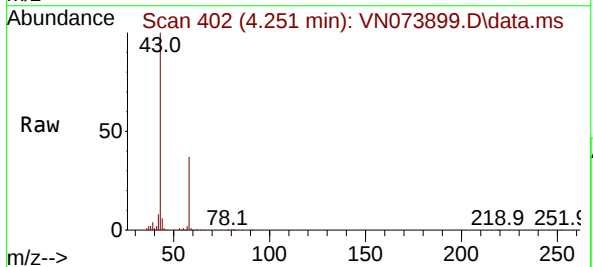
Manual Integrations  
APPROVED

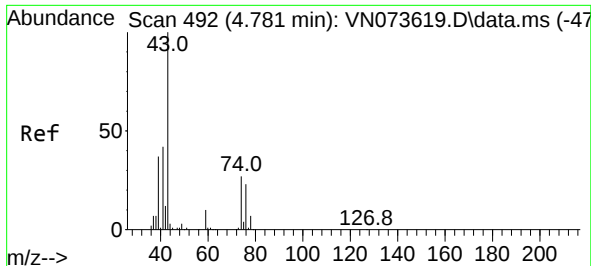
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#16  
Acetone  
Concen: 227.386 ug/l  
RT: 4.251 min Scan# 402  
Delta R.T. 0.029 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

Tgt Ion: 43 Resp: 635631  
Ion Ratio Lower Upper  
43 100  
58 34.2 26.0 39.0





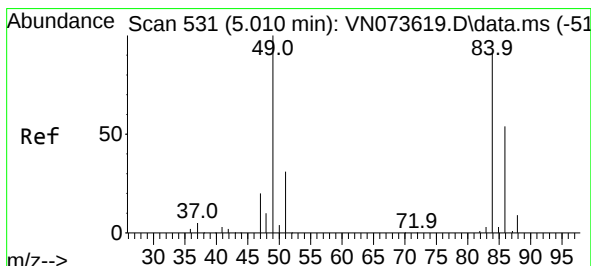
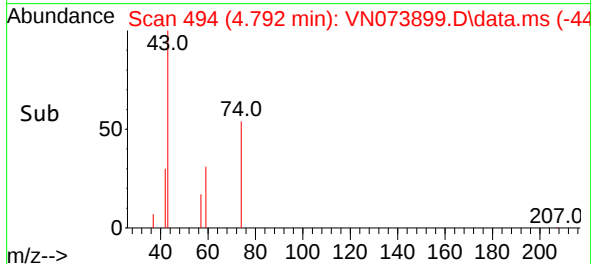
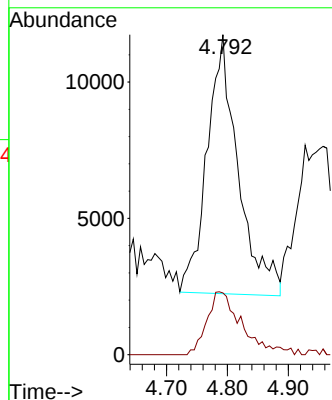
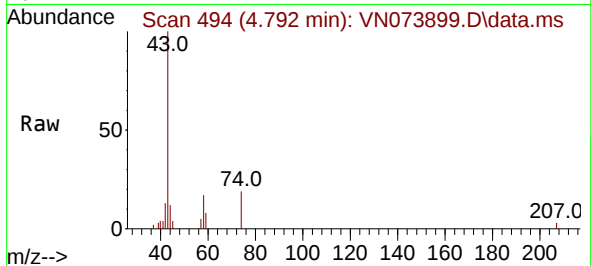
#18  
Methyl Acetate  
Concen: 2.407 ug/l  
RT: 4.792 min Scan# 492  
Delta R.T. 0.011 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074

Tgt Ion: 43 Resp: 33734  
Ion Ratio Lower Upper  
43 100  
74 27.5 21.6 32.4

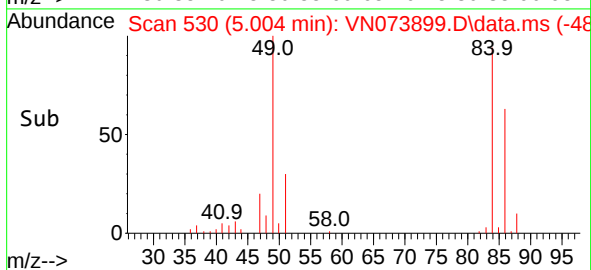
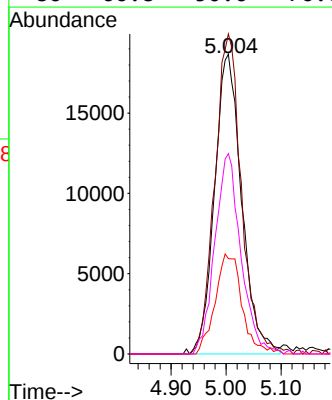
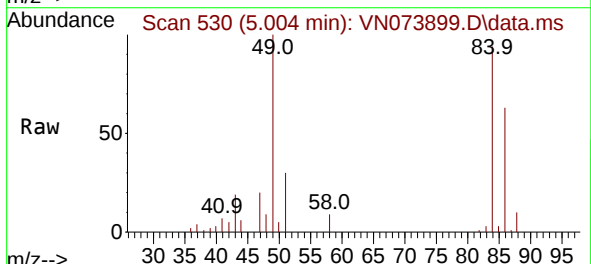
Manual Integrations  
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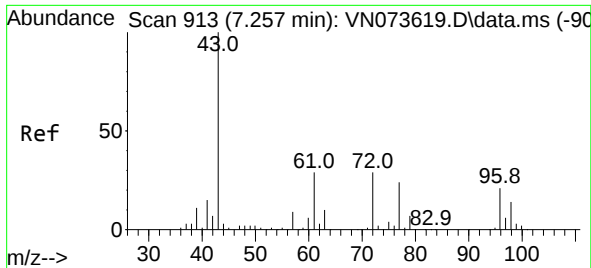
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#20  
Methylene Chloride  
Concen: 10.842 ug/l  
RT: 5.004 min Scan# 530  
Delta R.T. -0.006 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

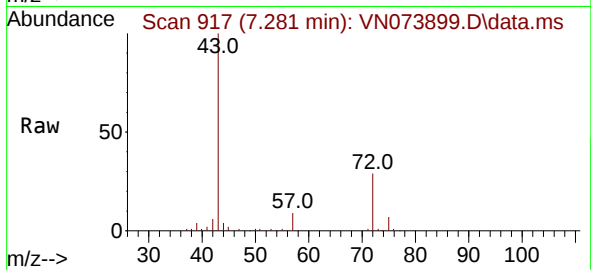
Tgt Ion: 84 Resp: 63952  
Ion Ratio Lower Upper  
84 100  
49 106.8 88.3 132.5  
51 31.8 28.2 42.2  
86 66.8 50.6 76.0





#25  
2-Butanone  
Concen: 54.207 ug/l  
RT: 7.281 min Scan# 917  
Delta R.T. 0.024 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

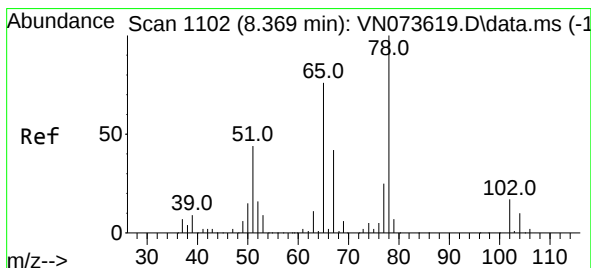
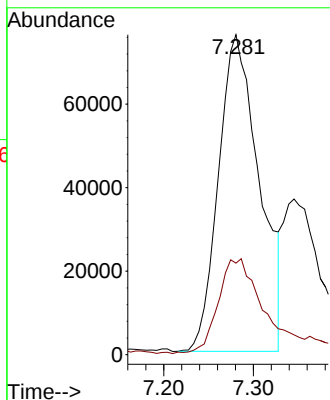
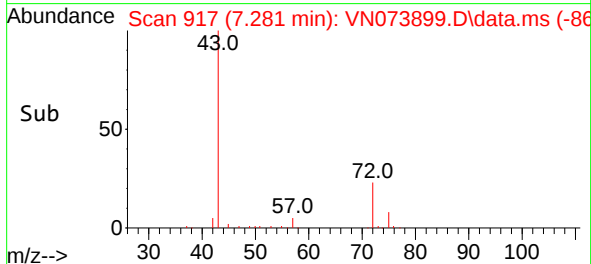
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074



Tgt Ion: 43 Resp: 24026  
Ion Ratio Lower Upper  
43 100  
72 28.1 23.7 35.5

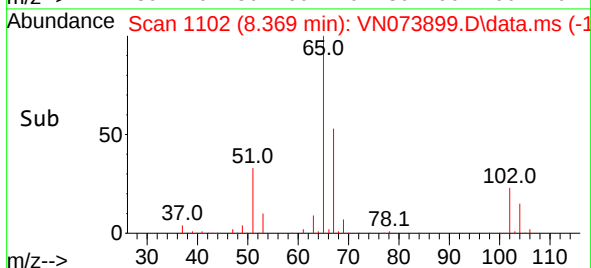
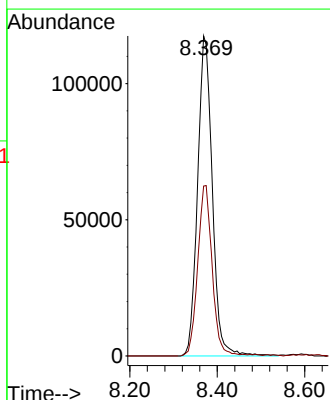
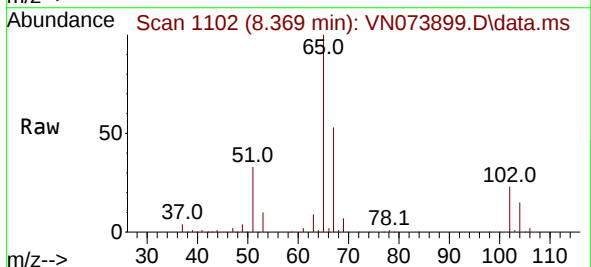
Manual Integrations  
APPROVED

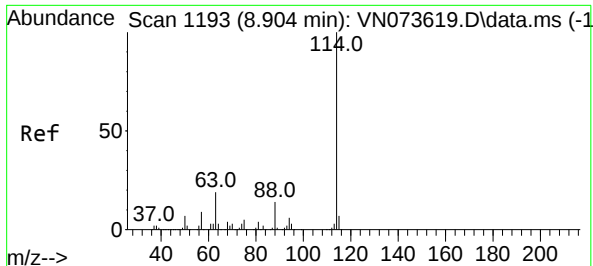
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#33  
1,2-Dichloroethane-d4  
Concen: 46.455 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

Tgt Ion: 65 Resp: 275249  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN073899.D

Acq: 15 Aug 2022 16:42

Instrument :

MSVOA\_N

ClientSampleId :

FMC-0074

Tgt Ion:114 Resp: 889198

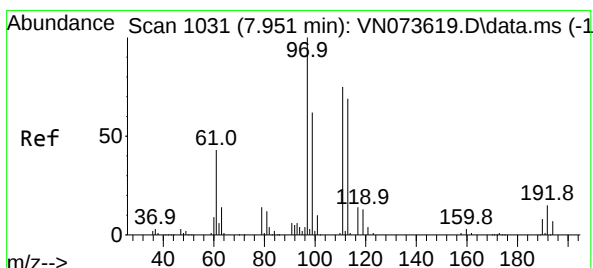
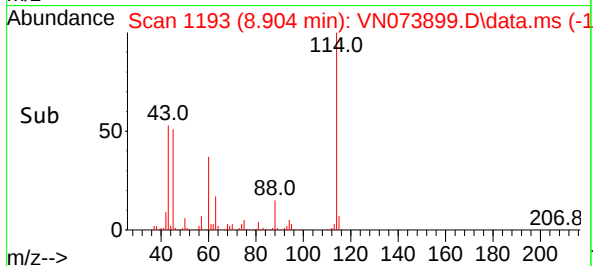
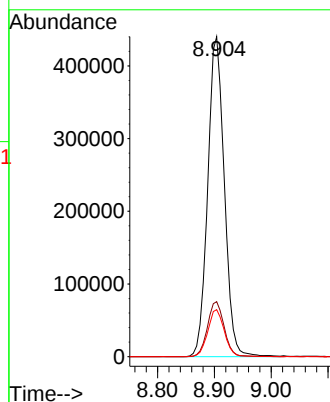
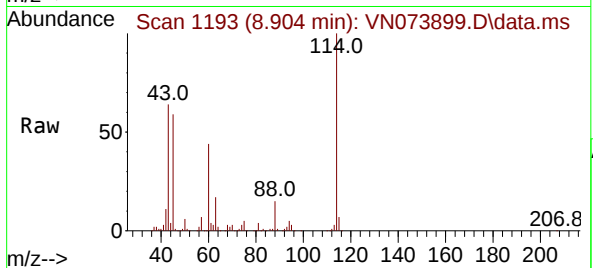
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 17.2  | 0.0   | 40.0  |
| 88  | 14.7  | 0.0   | 32.6  |

Manual Integrations

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Reviewed By :John Carlone 08/16/2022

Supervised By :Mahesh Dadoda 08/16/2022



#35

Dibromofluoromethane

Concen: 52.109 ug/l

RT: 7.951 min Scan# 1031

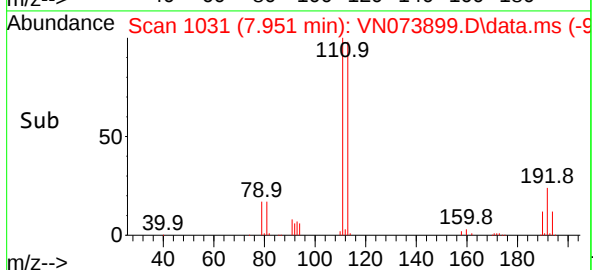
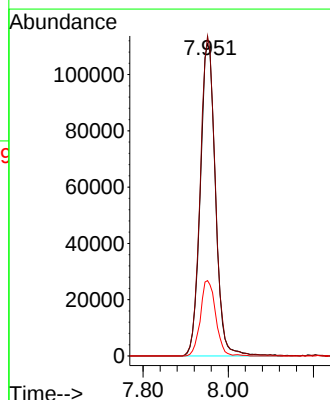
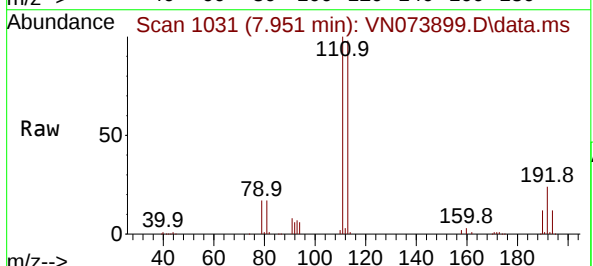
Delta R.T. -0.000 min

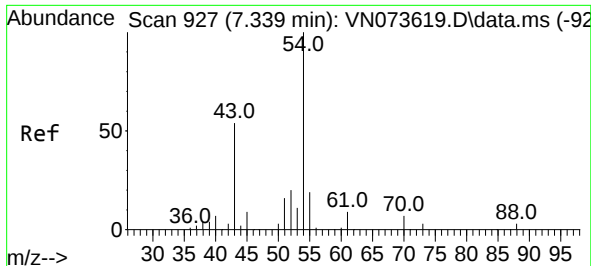
Lab File: VN073899.D

Acq: 15 Aug 2022 16:42

Tgt Ion:113 Resp: 274022

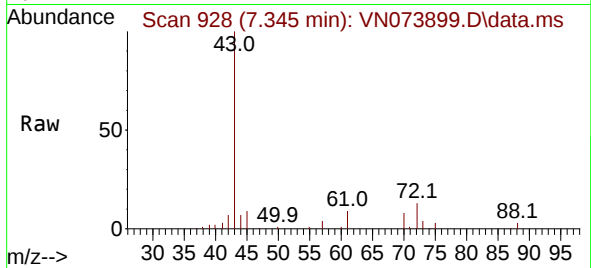
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 101.6 | 81.4  | 122.0 |
| 192 | 24.1  | 17.0  | 25.6  |





#37  
Ethyl Acetate  
Concen: 15.105 ug/l m  
RT: 7.345 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

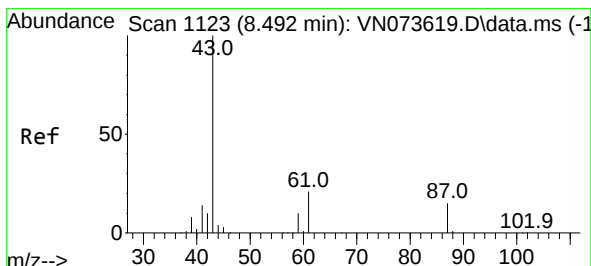
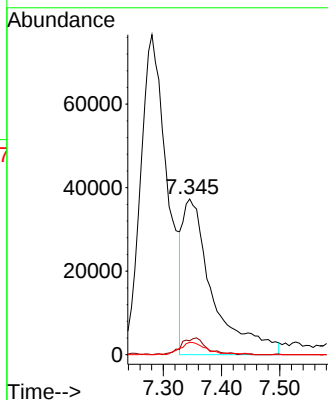
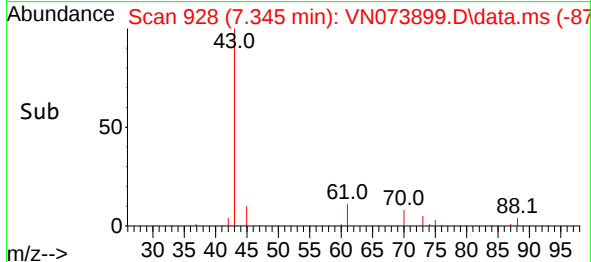
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074



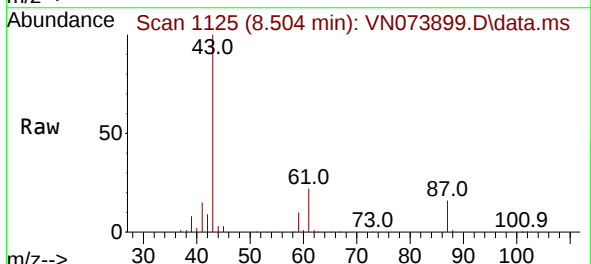
Tgt Ion: 43 Resp: 13366  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.8 17.6  
70 0.0 9.3 13.9

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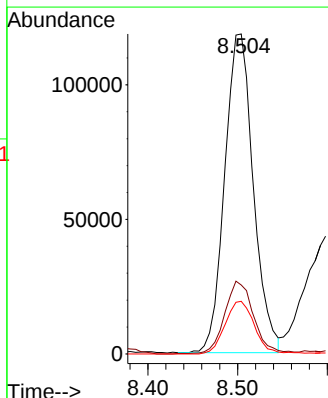
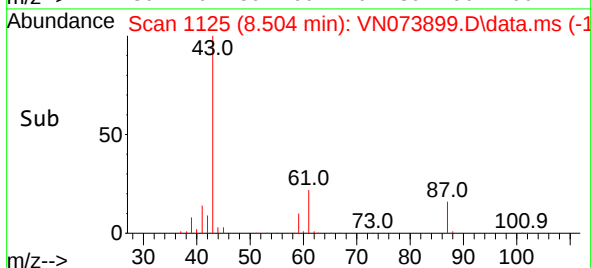
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022

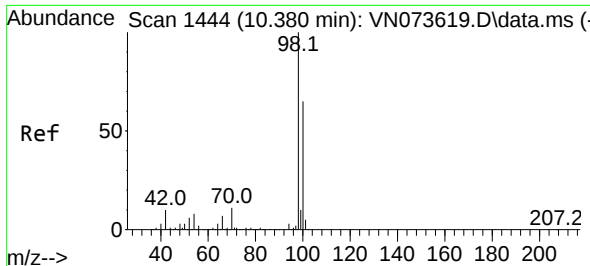


#43  
Isopropyl Acetate  
Concen: 20.847 ug/l  
RT: 8.504 min Scan# 1125  
Delta R.T. 0.012 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42



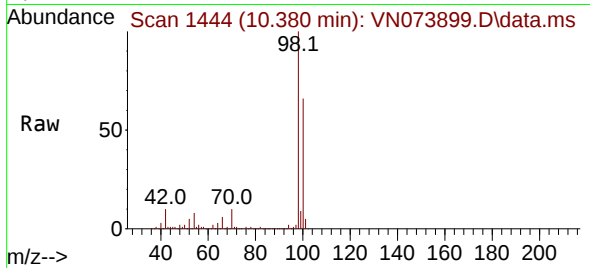
Tgt Ion: 43 Resp: 262794  
Ion Ratio Lower Upper  
43 100  
61 23.2 21.9 32.9  
87 17.0 12.0 18.0





#50  
Toluene-d8  
Concen: 46.578 ug/l  
RT: 10.380 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

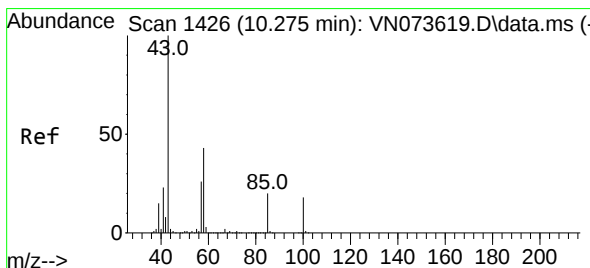
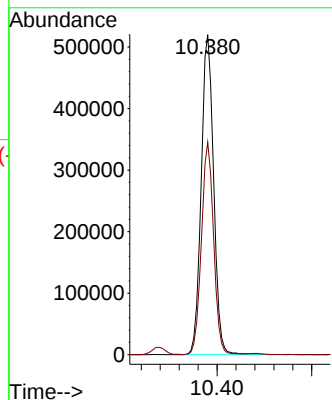
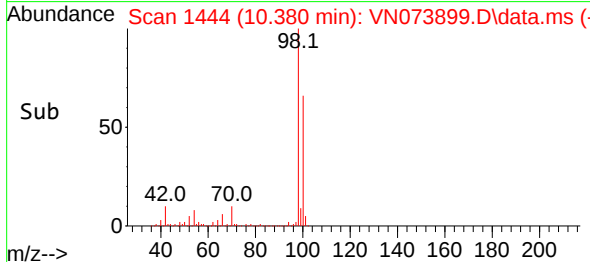
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074



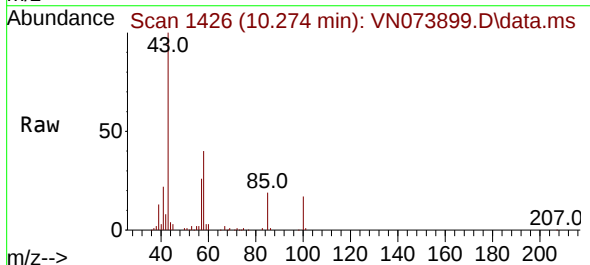
Tgt Ion: 98 Resp: 948628  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.6 78.8

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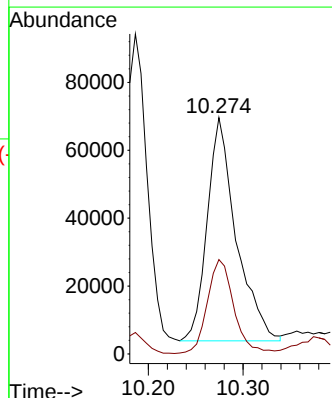
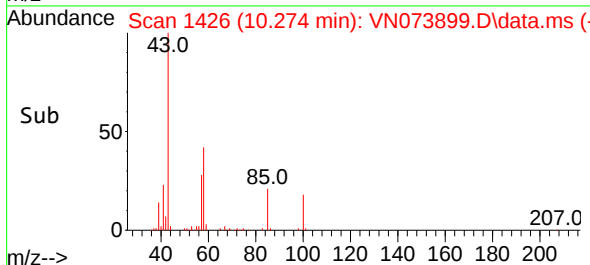
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022

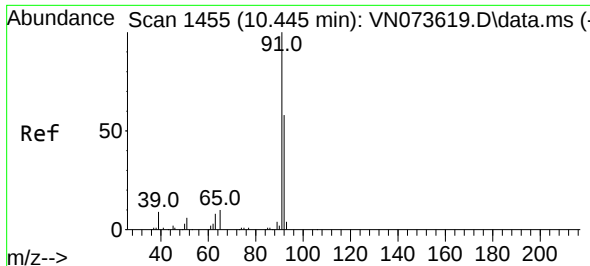


#51  
4-Methyl-2-Pentanone  
Concen: 16.417 ug/l  
RT: 10.274 min Scan# 1426  
Delta R.T. -0.001 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42



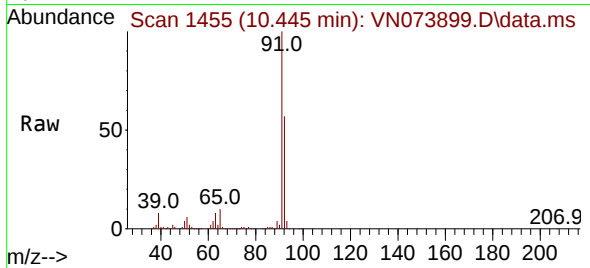
Tgt Ion: 43 Resp: 139920  
Ion Ratio Lower Upper  
43 100  
58 38.1 34.1 51.1





#52  
Toluene  
Concen: 63.453 ug/l  
RT: 10.445 min Scan# 1455  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

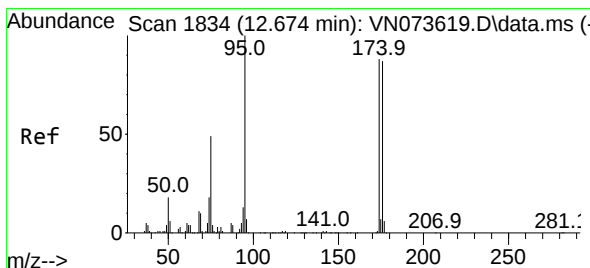
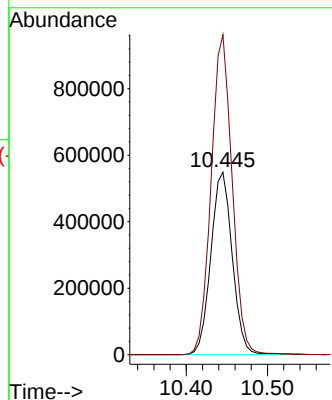
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074



Tgt Ion: 92 Resp: 100304  
Ion Ratio Lower Upper  
92 100  
91 172.9 138.6 207.8

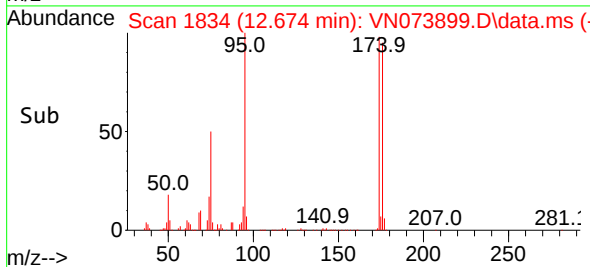
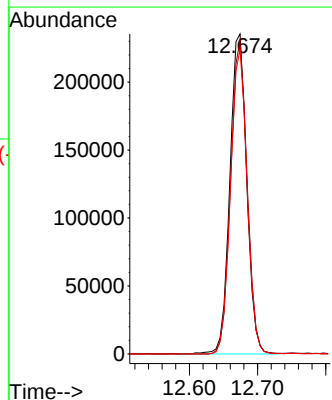
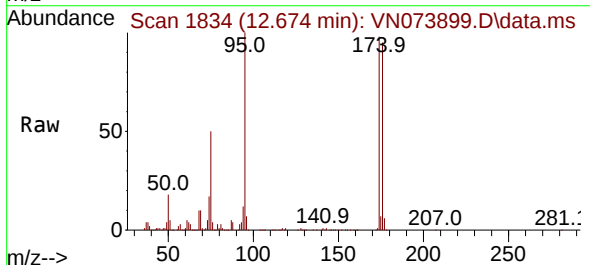
Manual Integrations  
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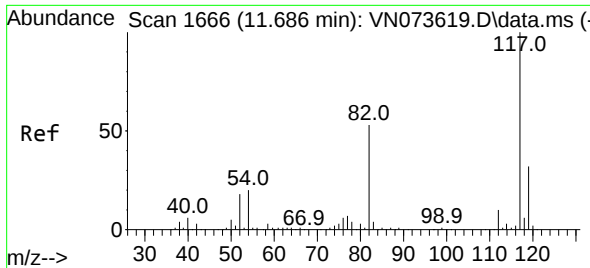
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#62  
4-Bromofluorobenzene  
Concen: 59.833 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

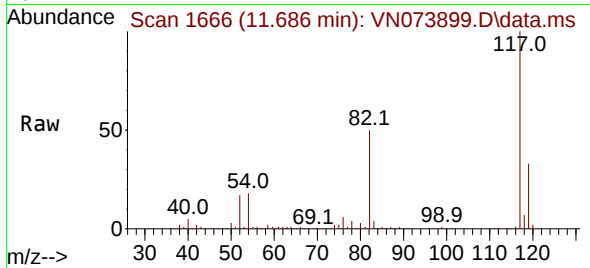
Tgt Ion: 95 Resp: 404423  
Ion Ratio Lower Upper  
95 100  
174 96.1 0.0 167.6  
176 93.4 0.0 163.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

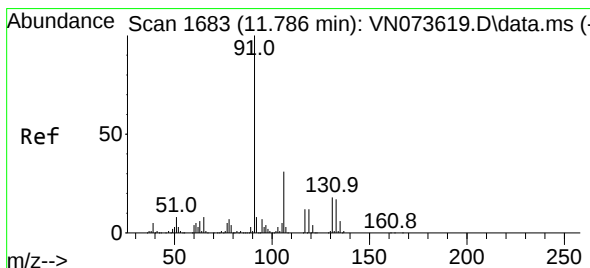
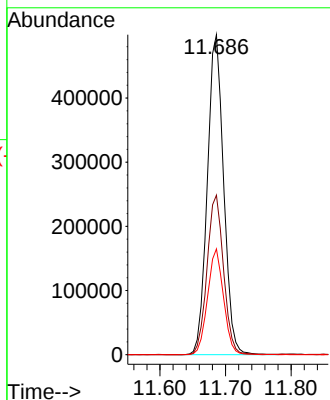
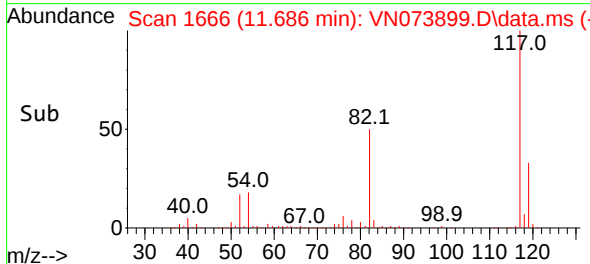
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074



Tgt Ion: 117 Resp: 86224  
Ion Ratio Lower Upper  
117 100  
82 49.9 44.2 66.2  
119 33.1 25.4 38.0

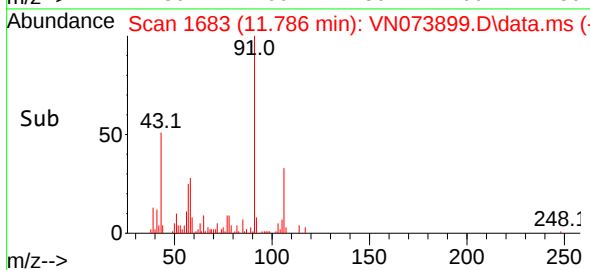
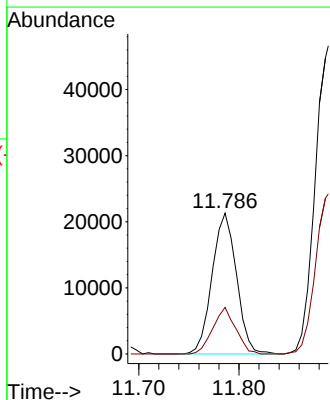
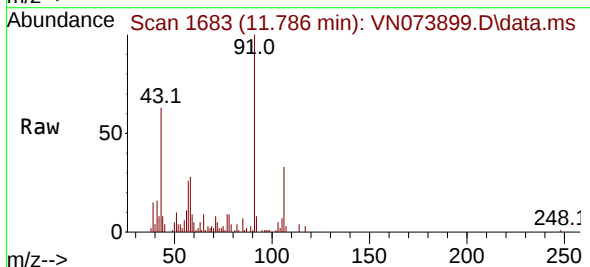
Manual Integrations  
APPROVED

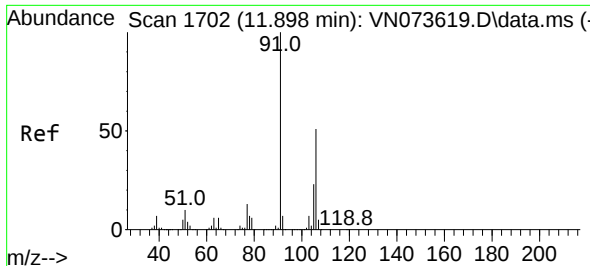
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#67  
Ethyl Benzene  
Concen: 1.181 ug/l  
RT: 11.786 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

Tgt Ion: 91 Resp: 35996  
Ion Ratio Lower Upper  
91 100  
106 33.1 24.9 37.3





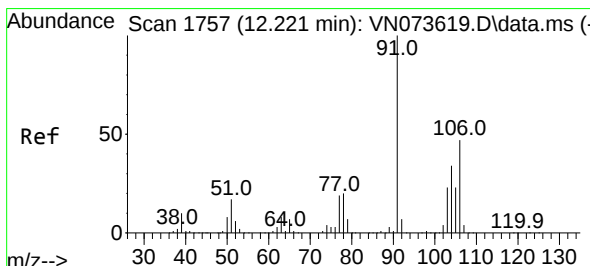
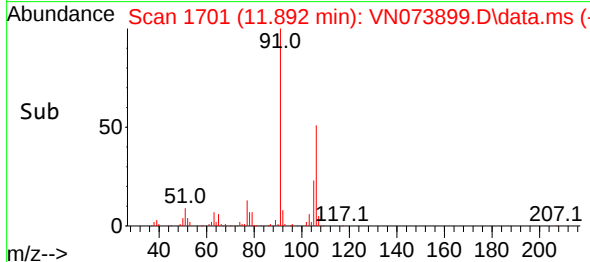
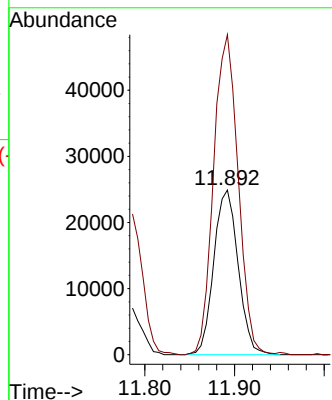
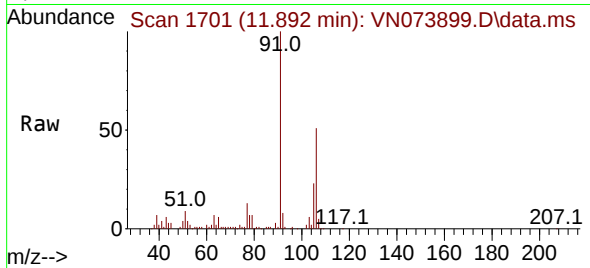
#68  
m/p-Xylenes  
Concen: 3.790 ug/l  
RT: 11.892 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074

Tgt Ion:106 Resp: 46934  
Ion Ratio Lower Upper  
106 100  
91 196.0 158.9 238.3

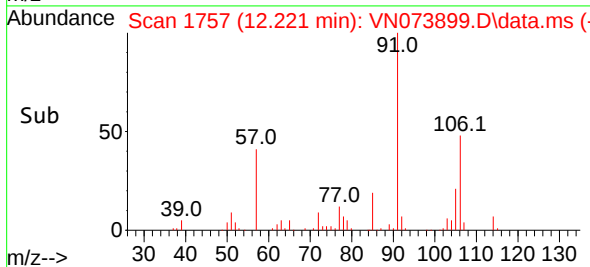
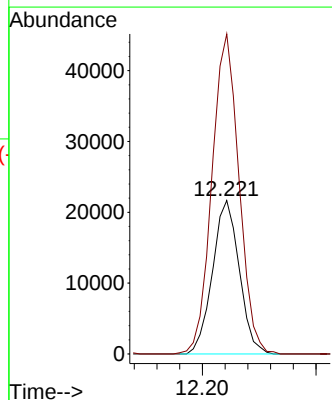
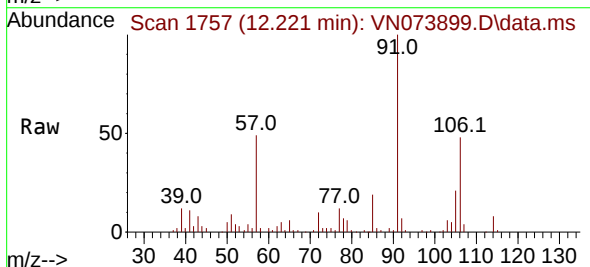
Manual Integrations  
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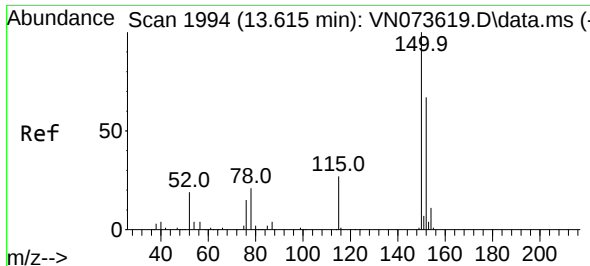
Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022



#69  
o-Xylene  
Concen: 2.853 ug/l  
RT: 12.221 min Scan# 1757  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

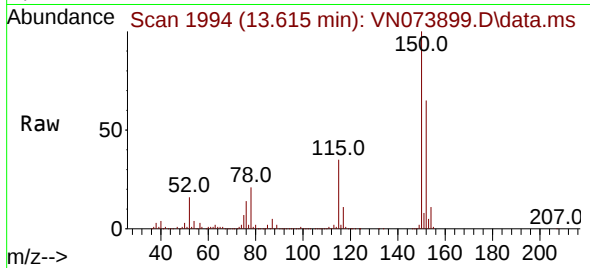
Tgt Ion:106 Resp: 35426  
Ion Ratio Lower Upper  
106 100  
91 210.8 106.0 318.0





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.615 min Scan# 1994  
 Delta R.T. -0.000 min  
 Lab File: VN073899.D  
 Acq: 15 Aug 2022 16:42

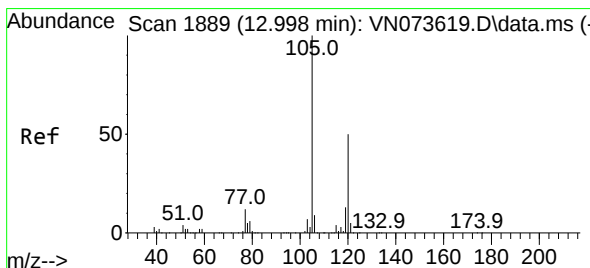
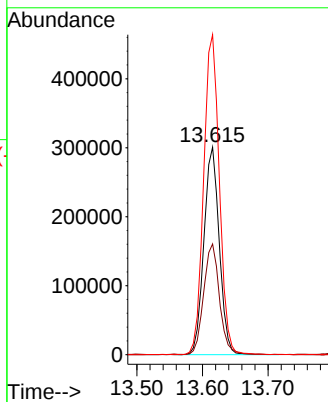
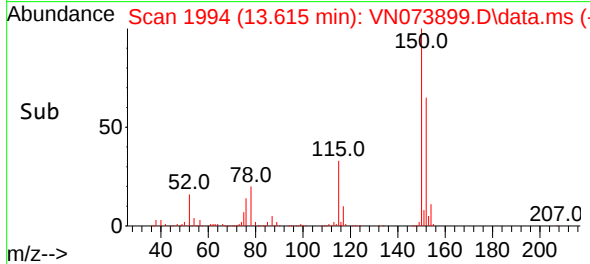
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FMC-0074



Tgt Ion:152 Resp: 491438  
 Ion Ratio Lower Upper  
 152 100  
 115 54.7 28.9 86.7  
 150 157.2 0.0 356.2

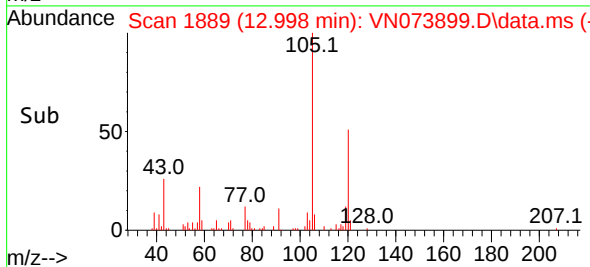
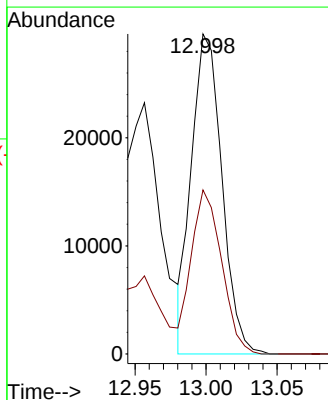
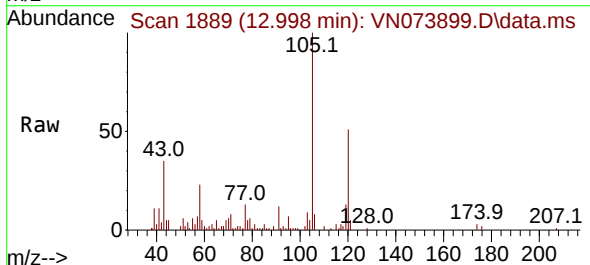
Manual Integrations  
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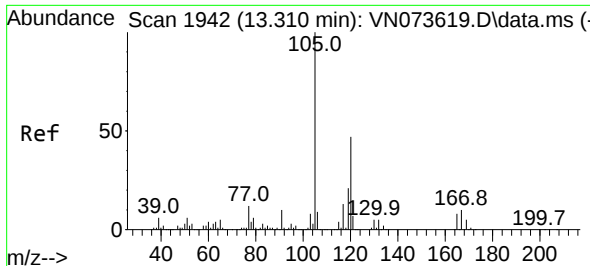
Reviewed By :John Carlone 08/16/2022  
 Supervised By :Mahesh Dadoda 08/16/2022



#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.513 ug/l  
 RT: 12.998 min Scan# 1889  
 Delta R.T. -0.000 min  
 Lab File: VN073899.D  
 Acq: 15 Aug 2022 16:42

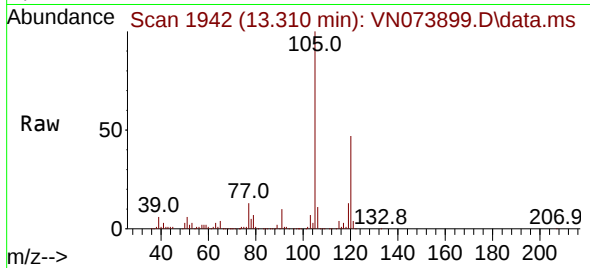
Tgt Ion:105 Resp: 44036  
 Ion Ratio Lower Upper  
 105 100  
 120 51.0 24.9 74.7





#84  
1,2,4-Trimethylbenzene  
Concen: 8.395 ug/l  
RT: 13.310 min Scan# 1942  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42

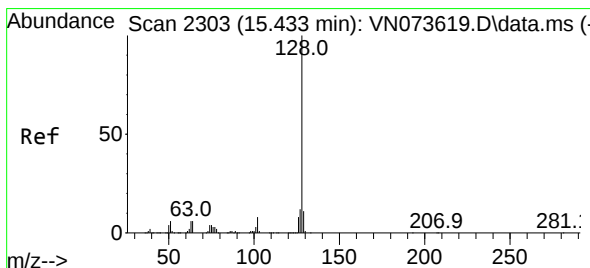
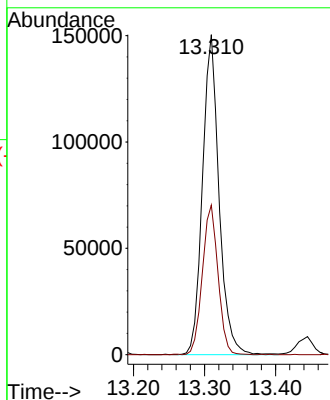
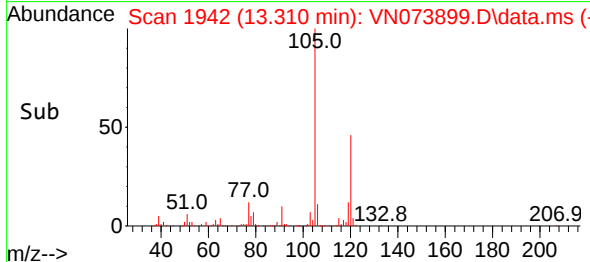
Instrument :  
MSVOA\_N  
ClientSampleId :  
FMC-0074



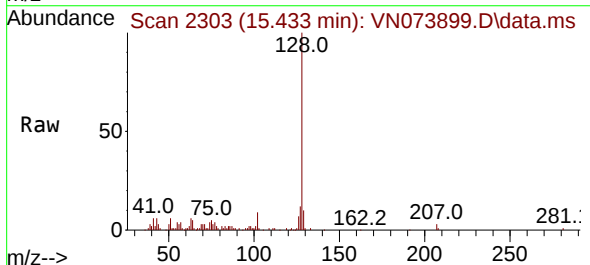
Tgt Ion:105 Resp: 244015  
Ion Ratio Lower Upper  
105 100  
120 44.1 23.3 69.8

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



#95  
Naphthalene  
Concen: 2.687 ug/l  
RT: 15.433 min Scan# 2303  
Delta R.T. -0.000 min  
Lab File: VN073899.D  
Acq: 15 Aug 2022 16:42



Tgt Ion:128 Resp: 92477  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.3 15.5  
129 11.3 8.6 13.0

