

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041823\  
 Data File : BM039514.D  
 Acq On : 20 Apr 2023 03:05  
 Operator : CG/JU  
 Sample : 02296-16DL 10X  
 Misc :  
 ALS Vial : 66 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DCBM2DL

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 04/20/2023  
 Supervised By : Jagrut Upadhyay 04/20/2023

Quant Time: Apr 20 08:54:13 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM041823.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Apr 19 08:18:41 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|-----------|---------|--------|----------|
| -----                         |        |      |           |         |        |          |
| Internal Standards            |        |      |           |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.825  | 152  | 230159    | 20.000  | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.642 | 136  | 1272651m  | 20.000  | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.483 | 164  | 725511    | 20.000  | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.230 | 188  | 1486736   | 20.000  | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.424 | 240  | 1054156   | 20.000  | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.783 | 264  | 992901    | 20.000  | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |           |         |        |          |
| 3) 1,4-Dioxane-d8             | 3.213  | 96   | 2579      | 0.430   | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 0.000  | 84   | 0d        | 0.000   | ng/u1  |          |
| 7) Phenol-d5                  | 7.037  | 99   | 8964m     | 0.426   | ng/u1  | 0.02     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.166  | 67   | 30438m    | 2.186   | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.366  | 132  | 31821     | 1.926   | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.578  | 113  | 19722     | 1.162   | ng/u1  | 0.01     |
| 21) Nitrobenzene-d5           | 9.007  | 128  | 22225     | 2.171   | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.731  | 143  | 19918     | 1.732   | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.289 | 165  | 40821     | 2.063   | ng/u1  | 0.02     |
| 31) 4-Chloroaniline-d4        | 10.813 | 131  | 50986     | 1.726   | ng/u1  | 0.03     |
| 46) Dimethylphthalate-d6      | 13.895 | 166  | 187672    | 3.207   | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.177 | 160  | 198496    | 3.020   | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 0.000  | 143  | 0d        | 0.000   | ng/u1  |          |
| 60) Fluorene-d10              | 15.477 | 176  | 160751    | 3.353   | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0d        | 0.000   | ng/u1  |          |
| 73) Anthracene-d10            | 17.330 | 188  | 246238    | 3.444   | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.630 | 212  | 255289    | 3.644   | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.630 | 264  | 172128    | 3.211   | ng/u1  | -0.01    |
| Target Compounds              |        |      |           |         |        |          |
|                               |        |      |           |         | Qvalue |          |
| 30) Naphthalene               | 10.695 | 128  | 33098872m | 470.058 | ng/u1  |          |
| 36) 2-Methylnaphthalene       | 12.307 | 142  | 5726336   | 121.310 | ng/u1  | 99       |
| 37) 1-Methylnaphthalene       | 12.525 | 142  | 2751656   | 58.007  | ng/u1  | 100      |
| 43) 1,1'-Biphenyl             | 13.313 | 154  | 1035204   | 18.463  | ng/u1  | 99       |
| 52) Acenaphthene              | 14.548 | 153  | 3535344   | 73.028  | ng/u1  | 100      |
| 56) Dibenzofuran              | 14.883 | 168  | 2764856   | 42.019  | ng/u1  | 98       |
| 61) Fluorene                  | 15.530 | 166  | 1483549   | 27.256  | ng/u1  | 99       |
| 72) Phenanthrene              | 17.277 | 178  | 1801404   | 21.825  | ng/u1  | 100      |
| 74) Anthracene                | 17.365 | 178  | 82999m    | 1.002   | ng/u1  |          |
| 77) Carbazole                 | 17.648 | 167  | 2689210   | 36.548  | ng/u1  | 100      |
| 80) Fluoranthene              | 19.295 | 202  | 154408    | 1.881   | ng/u1  | 98       |
| 82) Pyrene                    | 19.659 | 202  | 88479     | 1.041   | ng/u1  | 97       |
| -----                         |        |      |           |         |        |          |

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

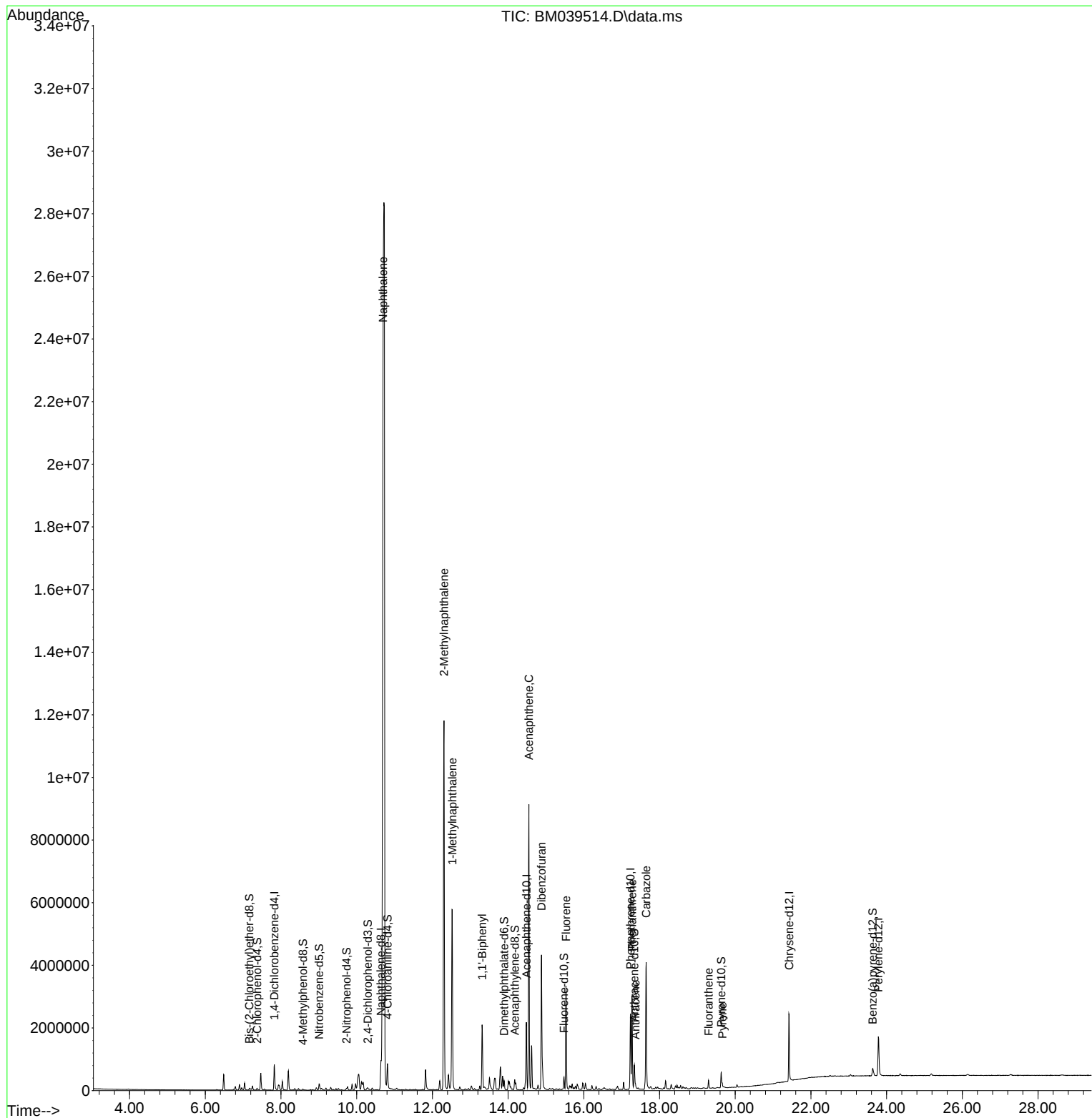
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041823\  
Data File : BM039514.D  
Acq On : 20 Apr 2023 03:05  
Operator : CG/JU  
Sample : 02296-16DL 10X  
Misc :  
ALS Vial : 66 Sample Multiplier: 1

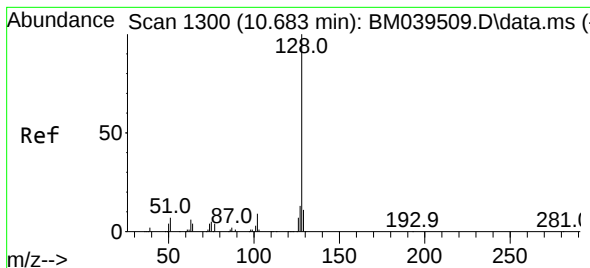
Instrument :  
BNA\_M  
ClientSampleId :  
DCBM2DL

Quant Time: Apr 20 08:54:13 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM041823.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Apr 19 08:18:41 2023  
Response via : Initial Calibration

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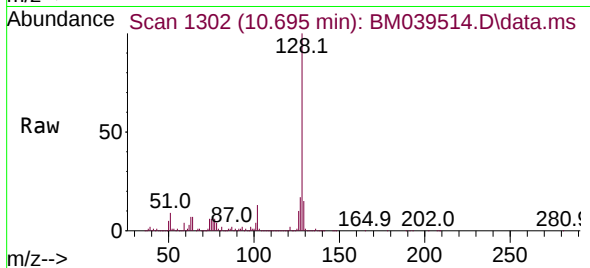
Reviewed By : Christian Giraldo 04/20/2023  
Supervised By : Jagrut Upadhyay 04/20/2023





#30  
Naphthalene  
Concen: 470.058 ng/ul m  
RT: 10.695 min Scan# 1300  
Delta R.T. 0.009 min  
Lab File: BM039514.D  
Acq: 20 Apr 2023 03:05

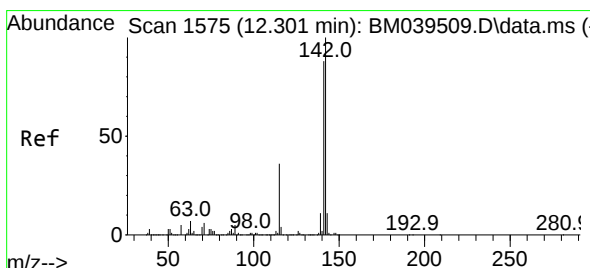
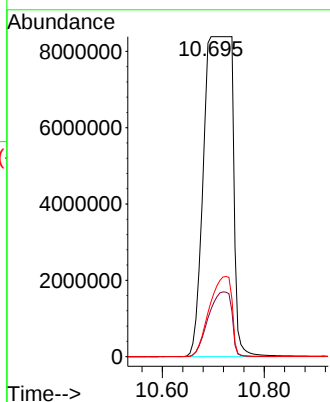
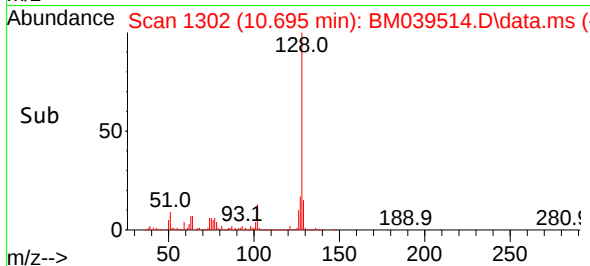
Instrument :  
BNA\_M  
ClientSampleId :  
DCBM2DL



Tgt Ion:128 Resp:33098872  
Ion Ratio Lower Upper  
128 100  
129 14.8 8.9 13.3  
127 17.1 10.5 15.7

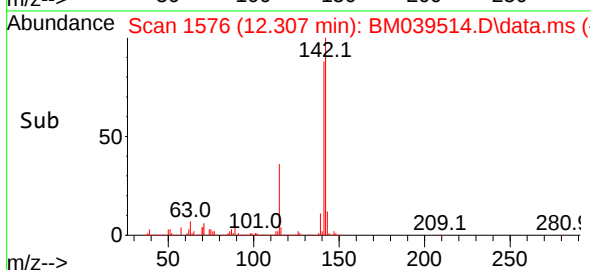
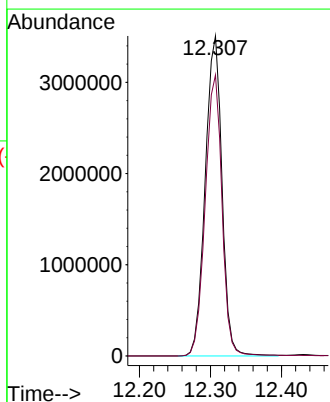
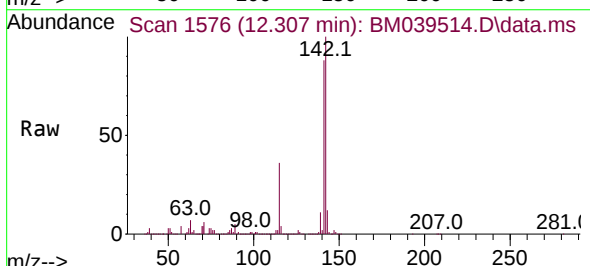
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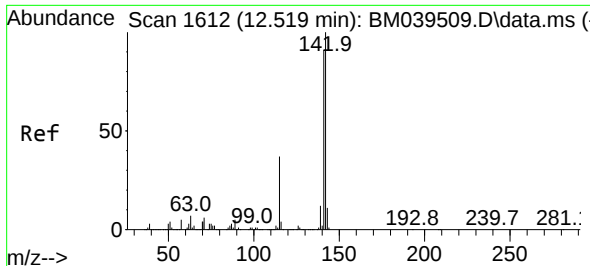
Reviewed By :Christian Giraldo 04/20/2023  
Supervised By :Jagrut Upadhyay 04/20/2023



#36  
2-Methylnaphthalene  
Concen: 121.310 ng/ul  
RT: 12.307 min Scan# 1576  
Delta R.T. 0.003 min  
Lab File: BM039514.D  
Acq: 20 Apr 2023 03:05

Tgt Ion:142 Resp: 5726336  
Ion Ratio Lower Upper  
142 100  
141 87.8 71.1 106.7





#37

1-Methylnaphthalene

Concen: 58.007 ng/ul

RT: 12.525 min Scan# 1613

Delta R.T. 0.003 min

Lab File: BM039514.D

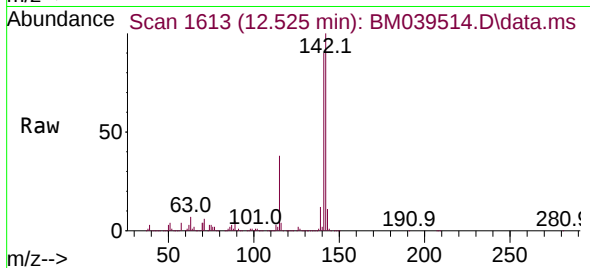
Acq: 20 Apr 2023 03:05

Instrument :

BNA\_M

ClientSampleId :

DCBM2DL



Tgt Ion:142 Resp: 2751656

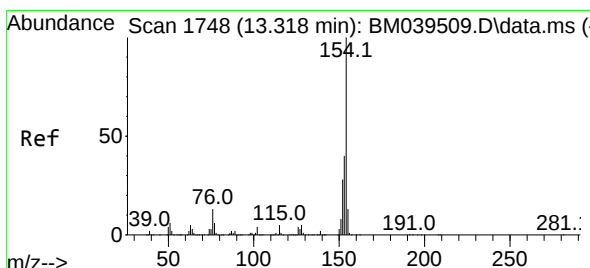
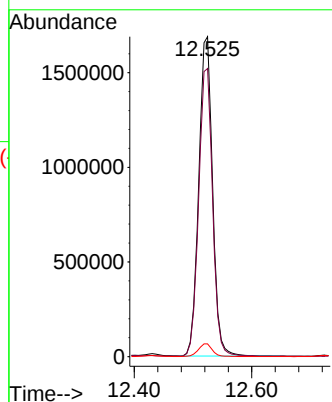
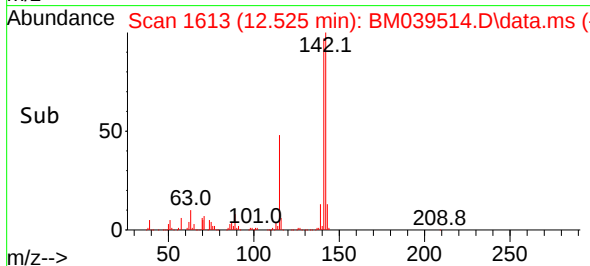
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 90.0  | 72.0  | 108.0 |
| 116 | 4.0   | 3.2   | 4.8   |

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/20/2023



#43

1,1'-Biphenyl

Concen: 18.463 ng/ul

RT: 13.313 min Scan# 1747

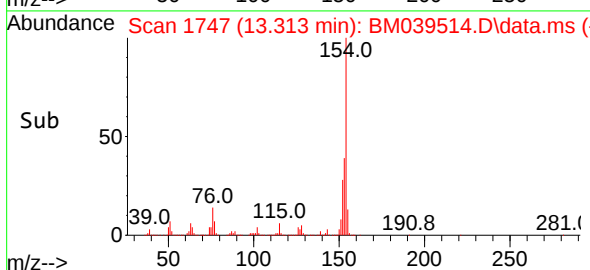
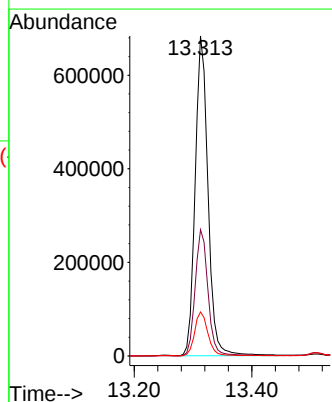
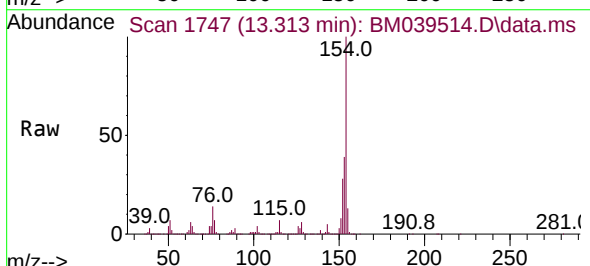
Delta R.T. -0.009 min

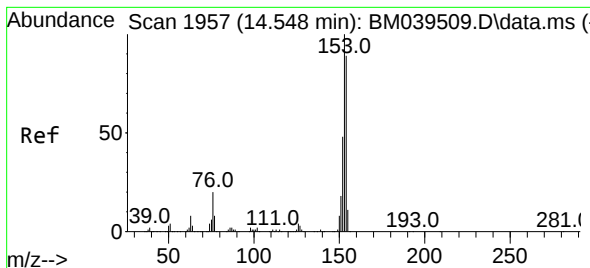
Lab File: BM039514.D

Acq: 20 Apr 2023 03:05

Tgt Ion:154 Resp: 1035204

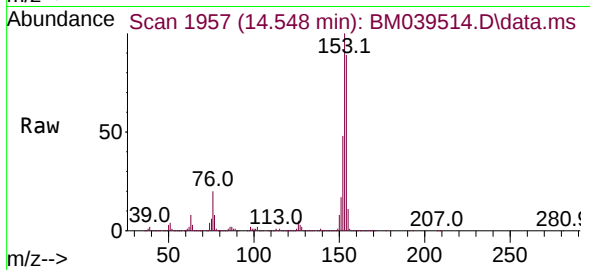
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 39.4  | 31.9  | 47.9  |
| 76  | 13.8  | 11.5  | 17.3  |





#52  
Acenaphthene  
Concen: 73.028 ng/ul  
RT: 14.548 min Scan# 1957  
Delta R.T. -0.003 min  
Lab File: BM039514.D  
Acq: 20 Apr 2023 03:05

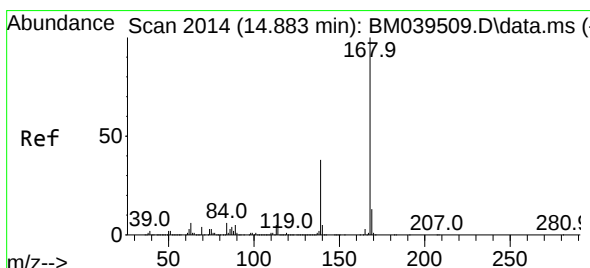
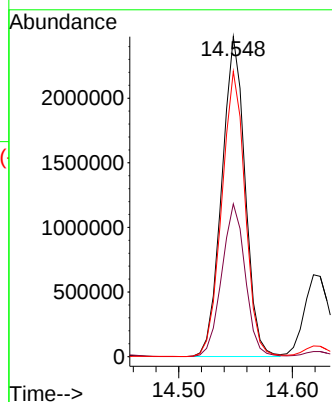
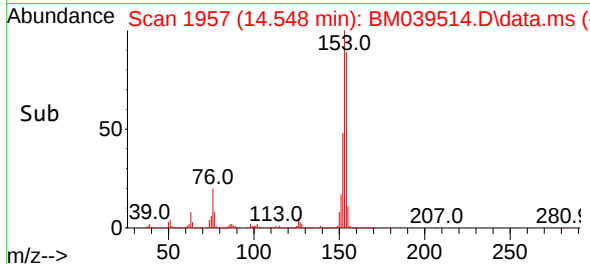
Instrument :  
BNA\_M  
ClientSampleId :  
DCBM2DL



Tgt Ion:153 Resp: 3535344  
Ion Ratio Lower Upper  
153 100  
152 47.7 38.2 57.4  
154 89.1 71.0 106.4

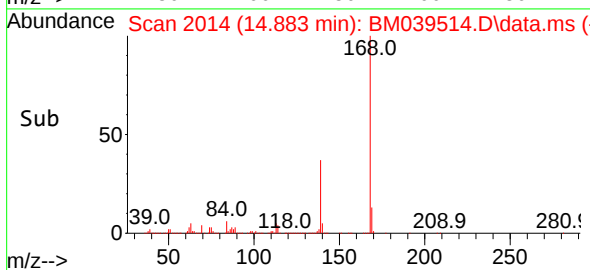
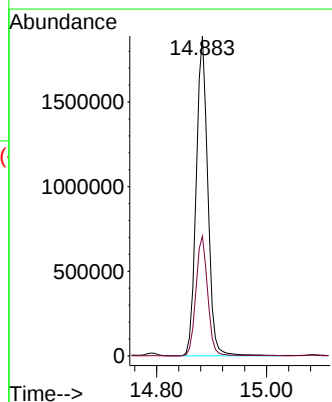
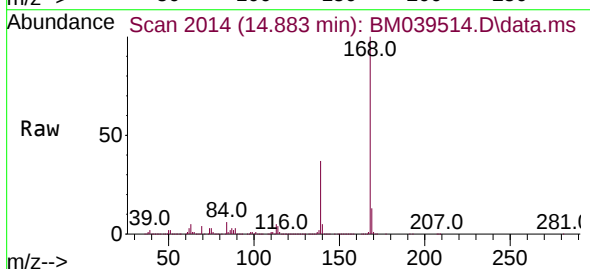
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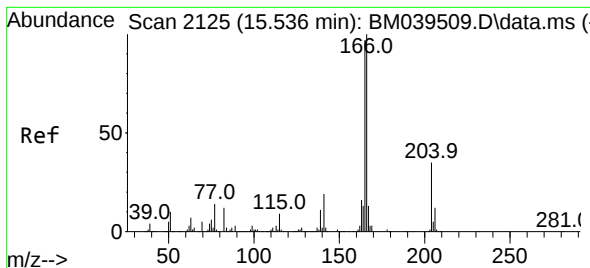
Reviewed By :Christian Giraldo 04/20/2023  
Supervised By :Jagrut Upadhyay 04/20/2023



#56  
Dibenzofuran  
Concen: 42.019 ng/ul  
RT: 14.883 min Scan# 2014  
Delta R.T. -0.003 min  
Lab File: BM039514.D  
Acq: 20 Apr 2023 03:05

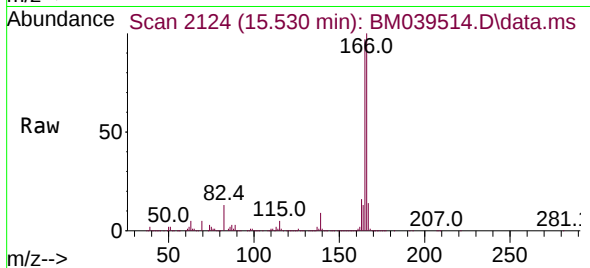
Tgt Ion:168 Resp: 2764856  
Ion Ratio Lower Upper  
168 100  
139 37.4 30.7 46.1





#61  
Fluorene  
Concen: 27.256 ng/ul  
RT: 15.530 min Scan# 2125  
Delta R.T. -0.009 min  
Lab File: BM039514.D  
Acq: 20 Apr 2023 03:05

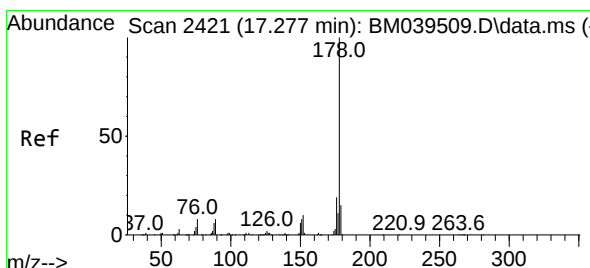
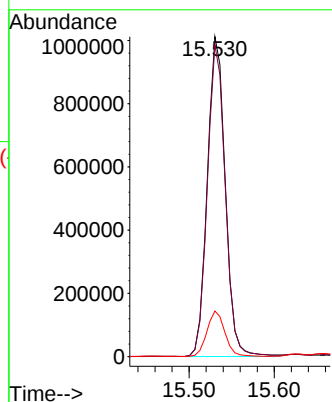
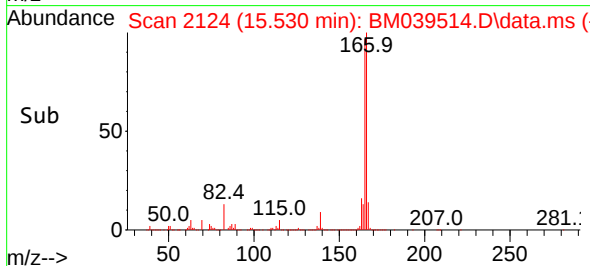
Instrument :  
BNA\_M  
ClientSampleId :  
DCBM2DL



Tgt Ion:166 Resp: 1483549  
Ion Ratio Lower Upper  
166 100  
165 97.4 78.2 117.2  
167 14.2 10.7 16.1

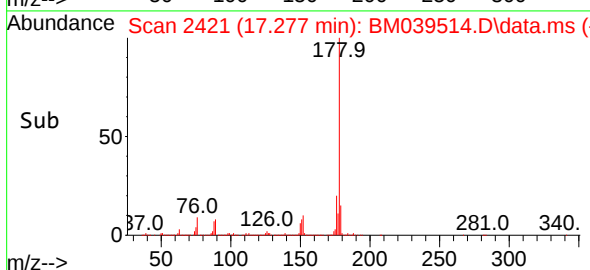
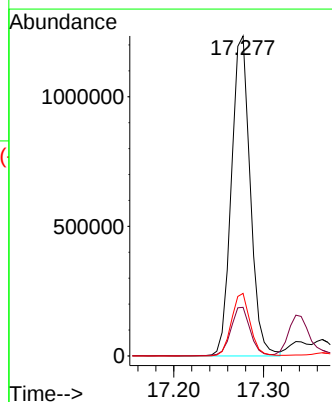
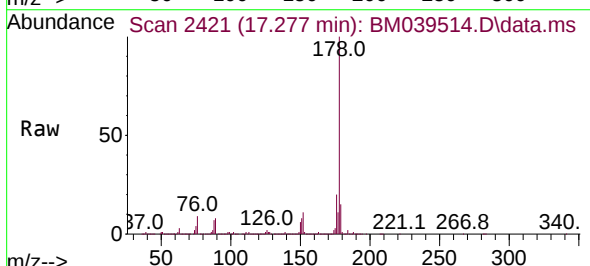
Manual Integrations  
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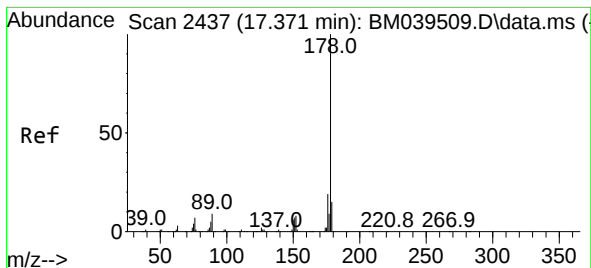
Reviewed By :Christian Giraldo 04/20/2023  
Supervised By :Jagrut Upadhyay 04/20/2023



#72  
Phenanthrene  
Concen: 21.825 ng/ul  
RT: 17.277 min Scan# 2421  
Delta R.T. -0.003 min  
Lab File: BM039514.D  
Acq: 20 Apr 2023 03:05

Tgt Ion:178 Resp: 1801404  
Ion Ratio Lower Upper  
178 100  
179 15.2 12.2 18.4  
176 19.5 15.8 23.8





#74

Anthracene

Concen: 1.002 ng/ul m

RT: 17.365 min Scan# 2437

Delta R.T. -0.009 min

Lab File: BM039514.D

Acq: 20 Apr 2023 03:05

Instrument :

BNA\_M

ClientSampleId :

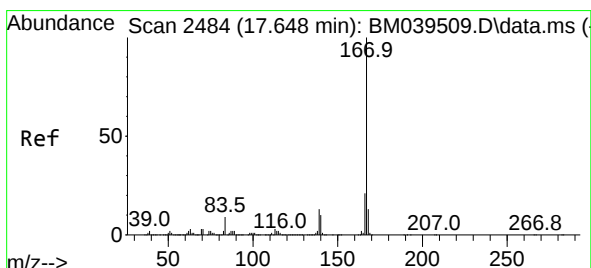
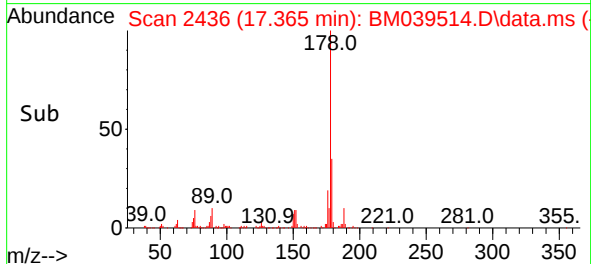
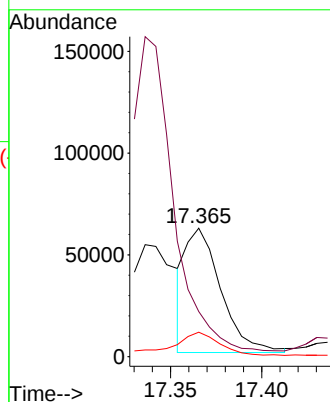
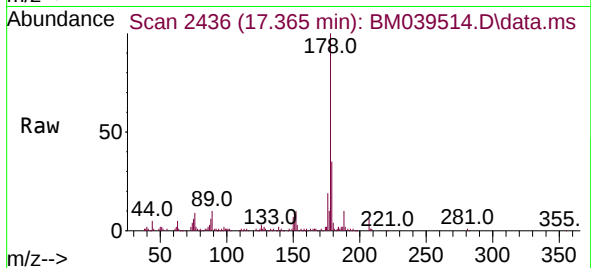
DCBM2DL

Tgt Ion:178 Resp: 82999  
 Ion Ratio Lower Upper  
 178 100  
 179 35.0 12.1 18.1  
 176 19.0 15.0 22.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/20/2023  
 Supervised By :Jagrut Upadhyay 04/20/2023



#77

Carbazole

Concen: 36.548 ng/ul

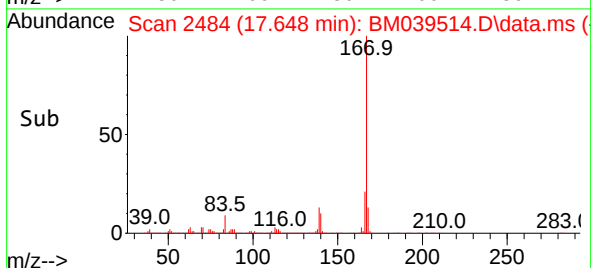
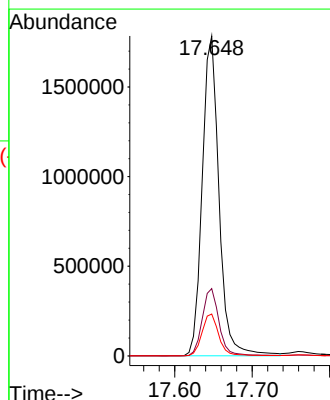
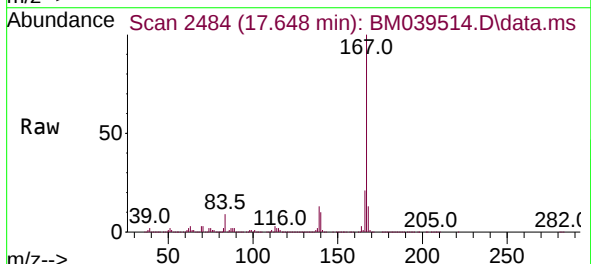
RT: 17.648 min Scan# 2484

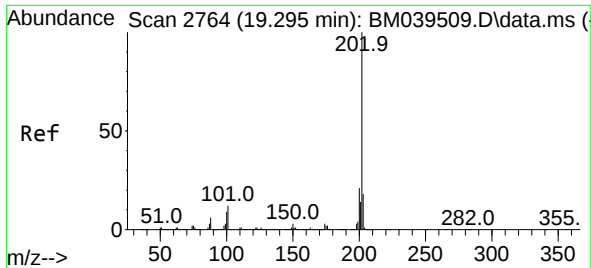
Delta R.T. -0.003 min

Lab File: BM039514.D

Acq: 20 Apr 2023 03:05

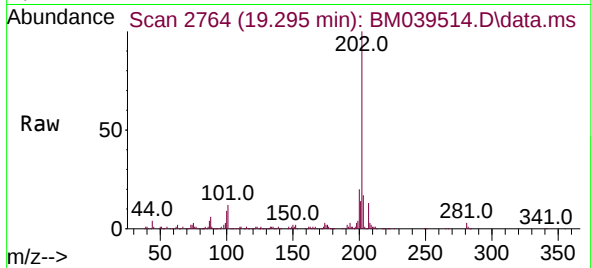
Tgt Ion:167 Resp: 2689210  
 Ion Ratio Lower Upper  
 167 100  
 166 21.0 17.0 25.4  
 139 13.1 10.6 15.8





#80  
Fluoranthene  
Concen: 1.881 ng/ul  
RT: 19.295 min Scan# 2764  
Delta R.T. -0.003 min  
Lab File: BM039514.D  
Acq: 20 Apr 2023 03:05

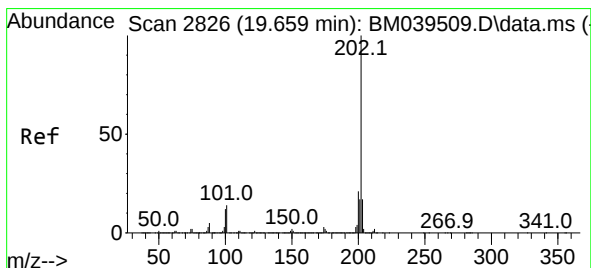
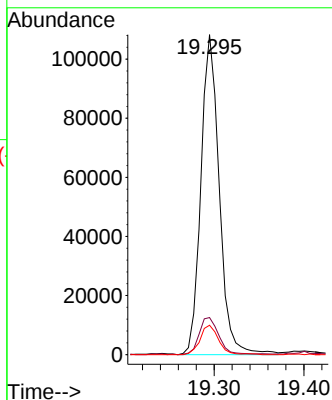
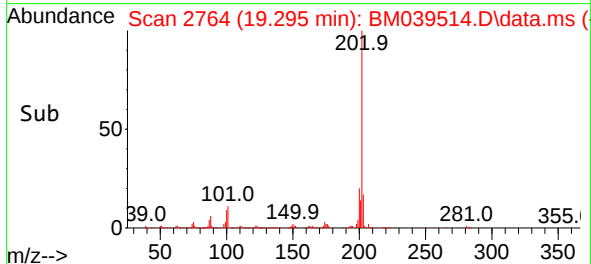
Instrument :  
BNA\_M  
ClientSampleId :  
DCBM2DL



Tgt Ion:202 Resp: 154408  
Ion Ratio Lower Upper  
202 100  
101 11.6 10.4 15.6  
100 9.2 7.7 11.5

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 04/20/2023  
Supervised By :Jagrut Upadhyay 04/20/2023



#82  
Pyrene  
Concen: 1.041 ng/ul  
RT: 19.659 min Scan# 2826  
Delta R.T. -0.003 min  
Lab File: BM039514.D  
Acq: 20 Apr 2023 03:05

Tgt Ion:202 Resp: 88479  
Ion Ratio Lower Upper  
202 100  
101 13.3 12.1 18.1  
100 12.8 9.6 14.4

