

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100424\  
 Data File : BF139665.D  
 Acq On : 04 Oct 2024 18:51  
 Operator : RC/JU  
 Sample : P4255-01 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100124

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/05/2024  
 Supervised By :mohammad ahmed 10/07/2024

Quant Time: Oct 04 19:12:48 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 02 04:58:47 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.863  | 152  | 89085    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.145  | 136  | 314840   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.898  | 164  | 145091   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.380 | 188  | 230651   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 14.021 | 240  | 169525   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 15.498 | 264  | 134169   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.475  | 112  | 203626   | 39.618 | ng    | -0.01    |
| 7) Phenol-d6                | 6.492  | 99   | 259209   | 37.502 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.422  | 82   | 163074   | 26.224 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.686 | 330  | 43713    | 31.210 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.216  | 172  | 250590   | 26.515 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.969 | 244  | 197916   | 19.156 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 9.757  | 152  | 24837    | 2.019  | ng    | 98       |
| 58) Fluorene                | 10.445 | 166  | 25048    | 2.659  | ng    | 99       |
| 71) Phenanthrene            | 11.404 | 178  | 180010   | 16.552 | ng    | 99       |
| 72) Anthracene              | 11.457 | 178  | 55854    | 5.191  | ng    | 99       |
| 75) Fluoranthene            | 12.598 | 202  | 281276   | 23.660 | ng    | 99       |
| 78) Pyrene                  | 12.827 | 202  | 288180   | 19.007 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.016 | 228  | 124501   | 11.170 | ng    | 91       |
| 83) Chrysene                | 14.051 | 228  | 97523m   | 9.571  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 16.962 | 276  | 31550    | 3.995  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.068 | 252  | 89963m   | 10.370 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.080 | 252  | 38278m   | 5.202  | ng    |          |
| 90) Benzo(a)pyrene          | 15.433 | 252  | 72818    | 10.645 | ng    | # 94     |
| 92) Benzo(g,h,i)perylene    | 17.409 | 276  | 33640    | 5.121  | ng    | # 91     |
| -----                       |        |      |          |        |       |          |

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

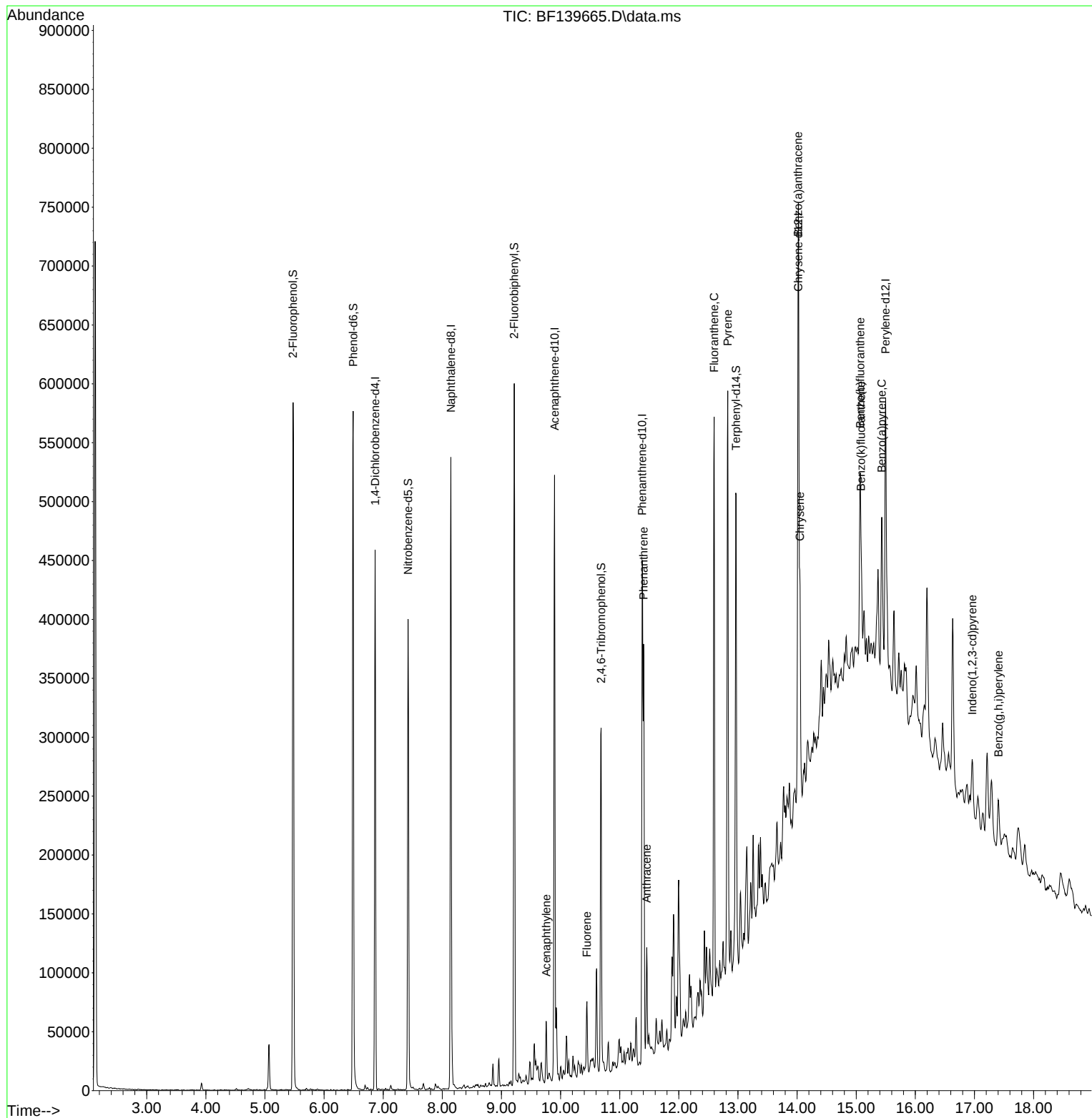
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100424\  
Data File : BF139665.D  
Acq On : 04 Oct 2024 18:51  
Operator : RC/JU  
Sample : P4255-01 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

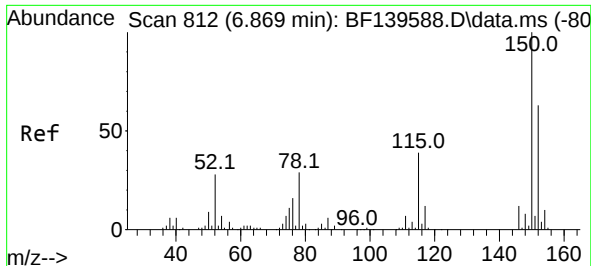
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100124

Quant Time: Oct 04 19:12:48 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 02 04:58:47 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

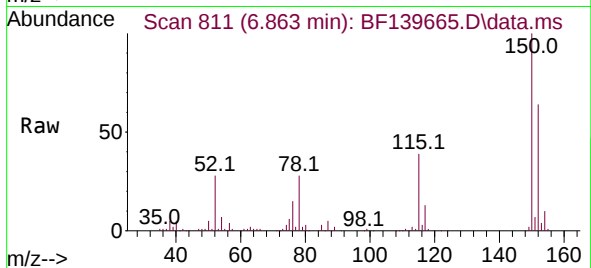
Reviewed By :Yogesh Patel 10/05/2024  
Supervised By :mohammad ahmed 10/07/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.863 min Scan# 812  
Delta R.T. -0.006 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

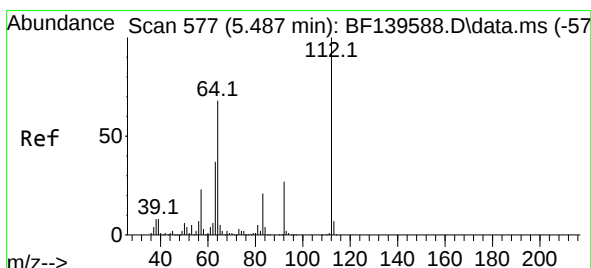
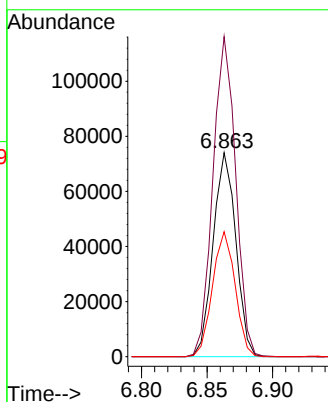
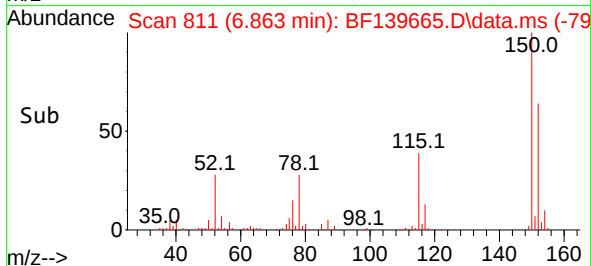
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100124



Tgt Ion:152 Resp: 8908  
Ion Ratio Lower Upper  
152 100  
150 156.9 127.2 190.8  
115 61.3 49.0 73.4

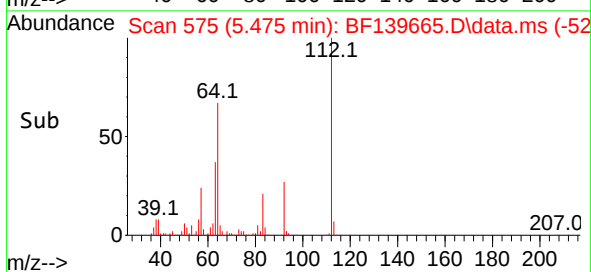
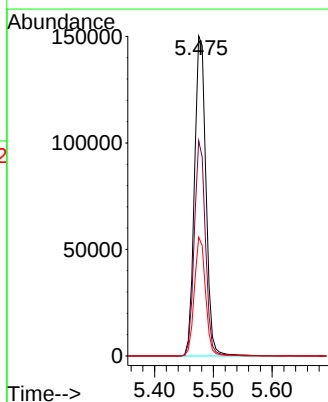
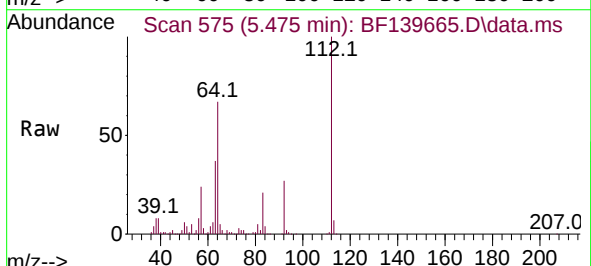
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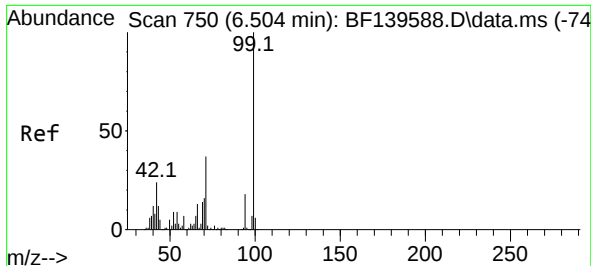
Reviewed By :Yogesh Patel 10/05/2024  
Supervised By :mohammad ahmed 10/07/2024



#5  
2-Fluorophenol  
Concen: 39.618 ng  
RT: 5.475 min Scan# 575  
Delta R.T. -0.012 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

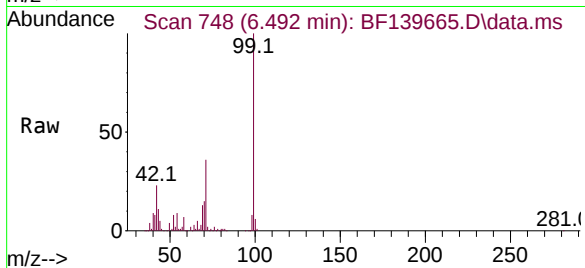
Tgt Ion:112 Resp: 203626  
Ion Ratio Lower Upper  
112 100  
64 67.3 54.2 81.4  
63 37.1 29.4 44.2





#7  
Phenol-d6  
Concen: 37.502 ng  
RT: 6.492 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

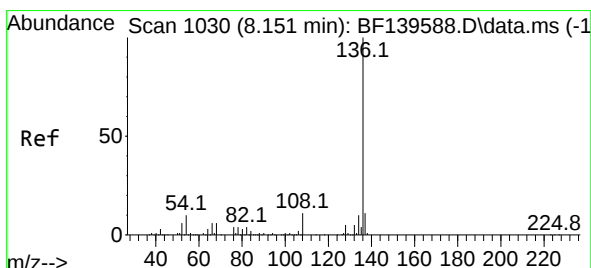
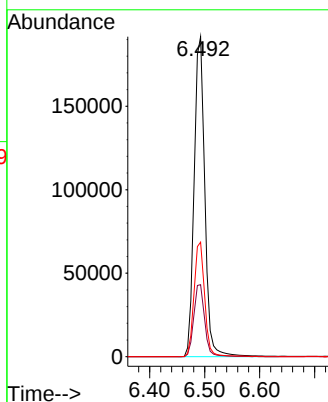
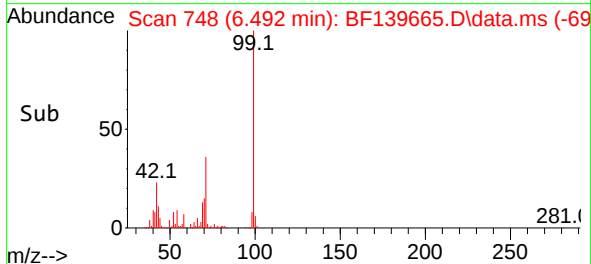
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-100124



Tgt Ion: 99 Resp: 259209  
Ion Ratio Lower Upper  
99 100  
42 22.5 19.1 28.7  
71 35.8 29.7 44.5

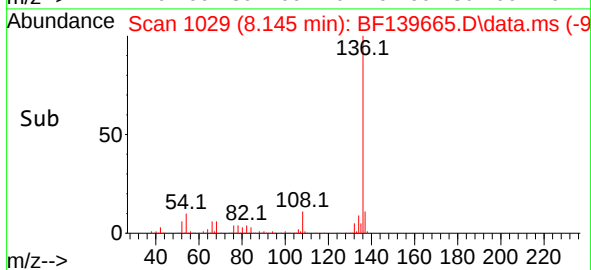
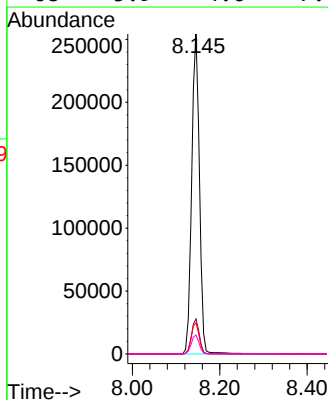
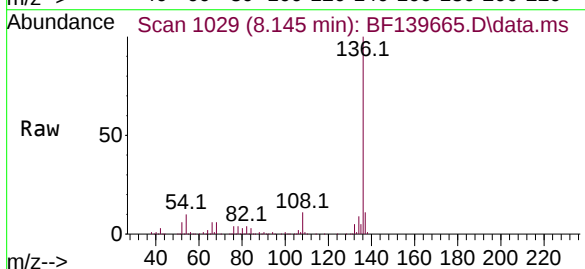
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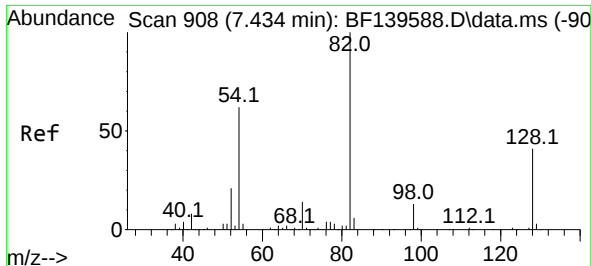
Reviewed By :Yogesh Patel 10/05/2024  
Supervised By :mohammad ahmed 10/07/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.145 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

Tgt Ion:136 Resp: 314840  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 13.0  
54 9.7 8.3 12.5  
68 5.9 4.6 7.0





#23

Nitrobenzene-d5

Concen: 26.224 ng

RT: 7.422 min Scan# 908

Delta R.T. -0.012 min

Lab File: BF139665.D

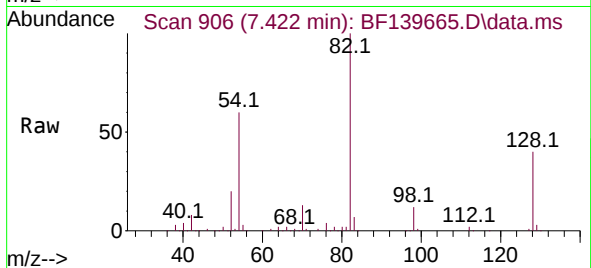
Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

ClientSampleId :

OR-03-100124



Tgt Ion: 82 Resp: 163074

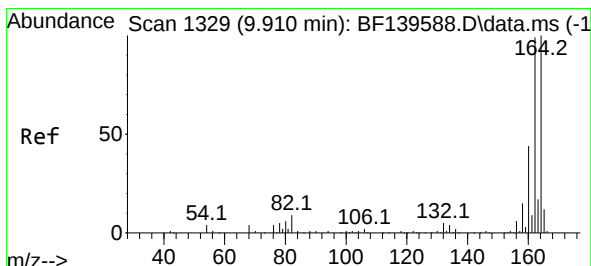
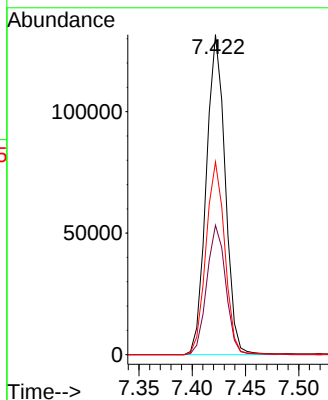
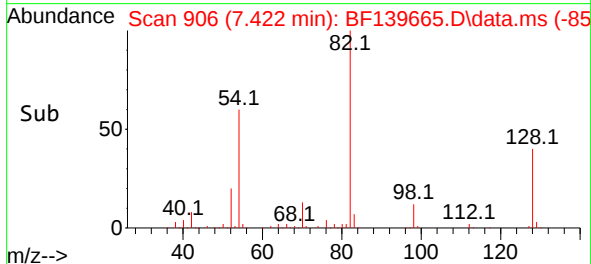
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 40.5  | 32.4  | 48.6  |
| 54  | 60.2  | 49.1  | 73.7  |

Manual Integrations

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Reviewed By :Yogesh Patel 10/05/2024

Supervised By :mohammad ahmed 10/07/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 1327

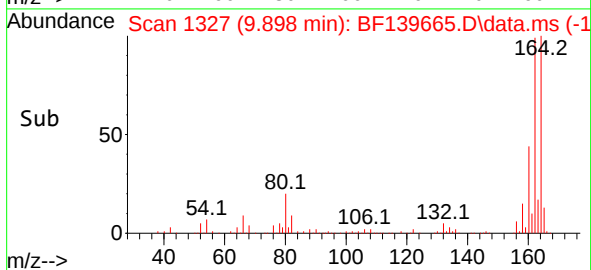
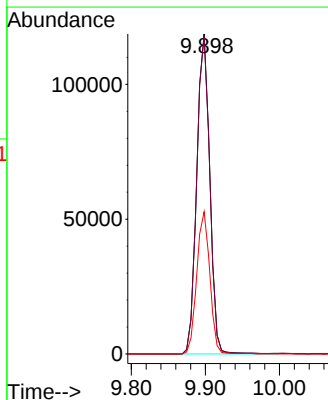
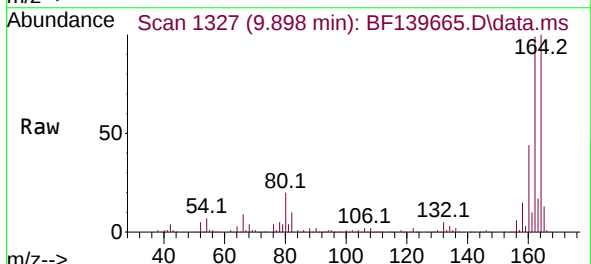
Delta R.T. -0.012 min

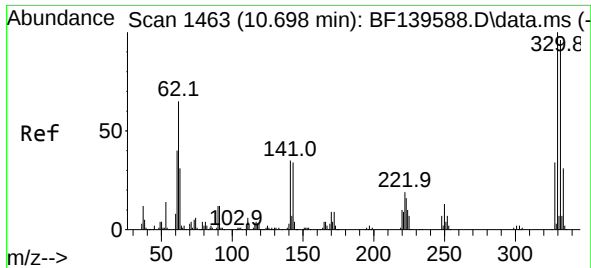
Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

Tgt Ion:164 Resp: 145091

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 99.5  | 79.4  | 119.0 |
| 160 | 44.5  | 35.1  | 52.7  |





#42  
2,4,6-Tribromophenol  
Concen: 31.210 ng  
RT: 10.686 min Scan# 1461  
Delta R.T. -0.012 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

ClientSampleId :

OR-03-100124

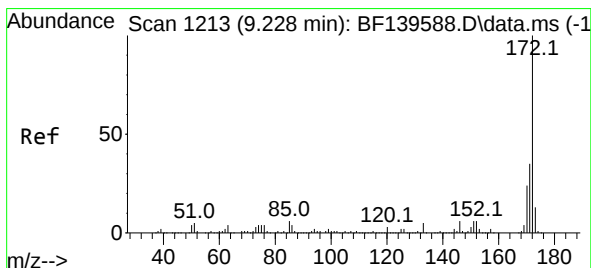
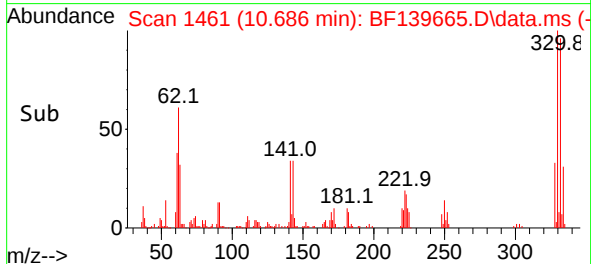
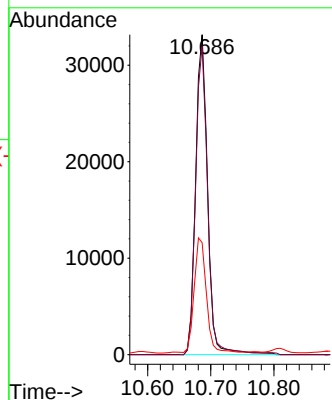
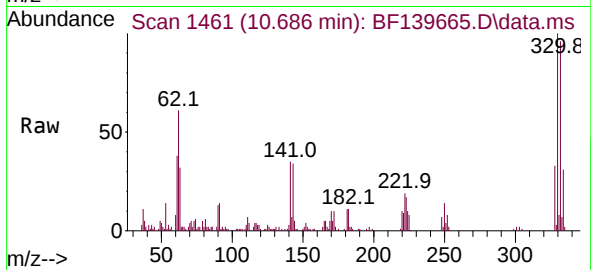
Tgt Ion:330 Resp: 4371  
Ion Ratio Lower Upper  
330 100  
332 96.6 76.5 114.7  
141 37.1 29.3 43.9

Manual Integrations

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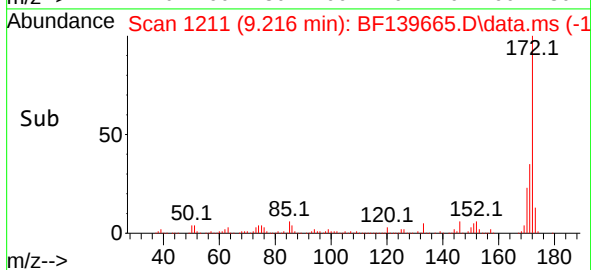
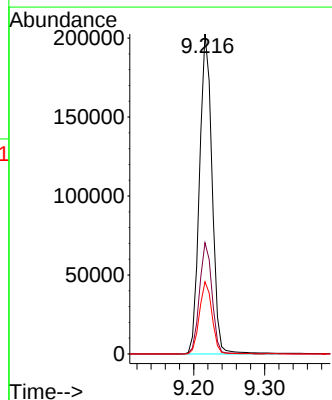
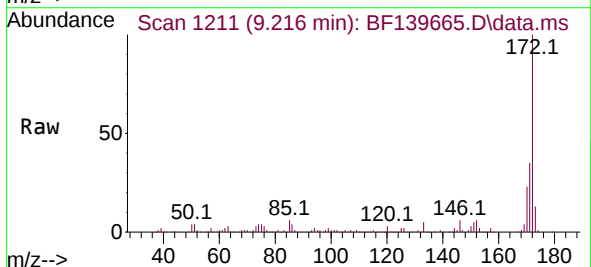
Reviewed By :Yogesh Patel 10/05/2024

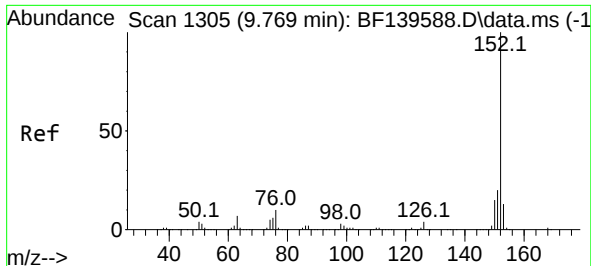
Supervised By :mohammad ahmed 10/07/2024



#45  
2-Fluorobiphenyl  
Concen: 26.515 ng  
RT: 9.216 min Scan# 1211  
Delta R.T. -0.012 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

Tgt Ion:172 Resp: 250590  
Ion Ratio Lower Upper  
172 100  
171 34.8 28.2 42.4  
170 22.5 18.8 28.2





#49

Acenaphthylene

Concen: 2.019 ng

RT: 9.757 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

ClientSampleId :

OR-03-100124

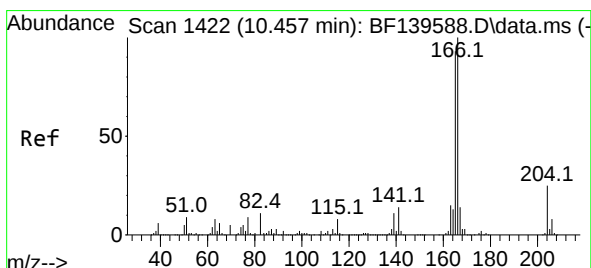
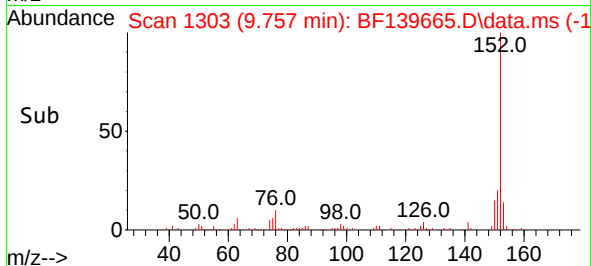
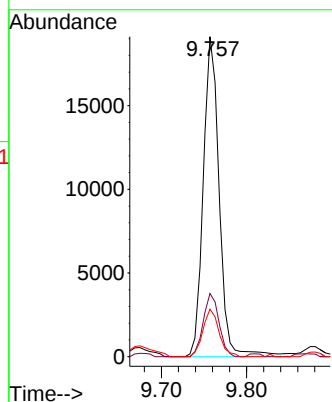
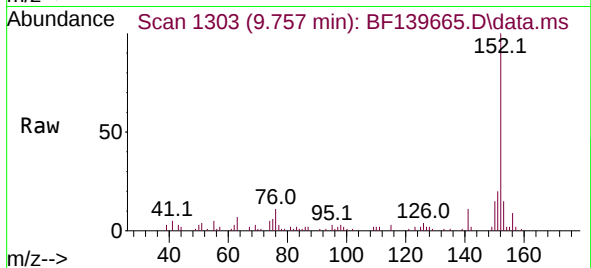
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 2483 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 19.8  | 16.0  | 24.0 |
| 153       | 14.8  | 10.5  | 15.7 |

Manual Integrations

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Reviewed By :Yogesh Patel 10/05/2024

Supervised By :mohammad ahmed 10/07/2024



#58

Fluorene

Concen: 2.659 ng

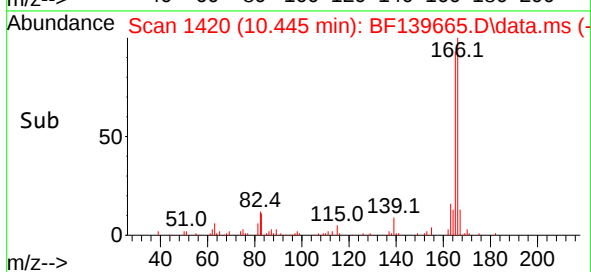
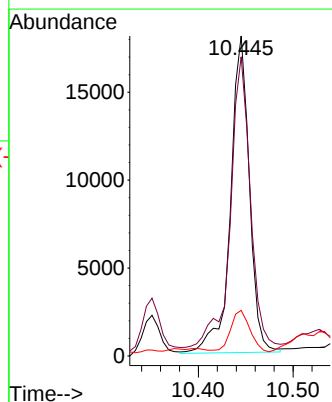
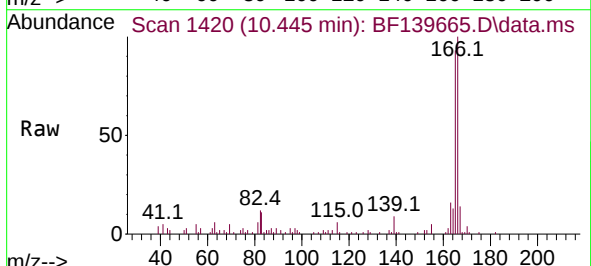
RT: 10.445 min Scan# 1420

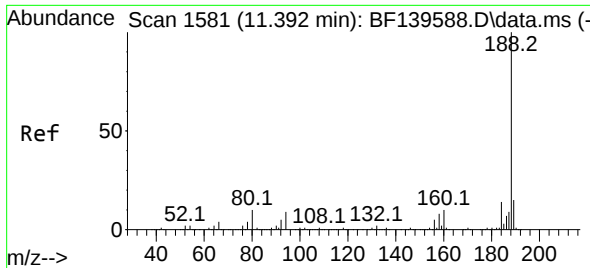
Delta R.T. -0.012 min

Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 25048 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 93.5  | 74.4  | 111.6 |
| 167       | 14.3  | 10.9  | 16.3  |





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.380 min Scan# 1579  
Delta R.T. -0.012 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

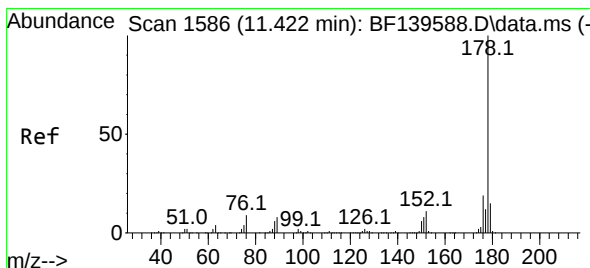
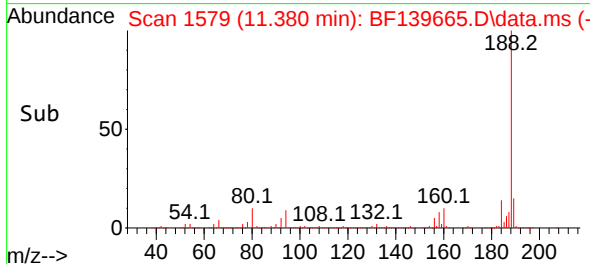
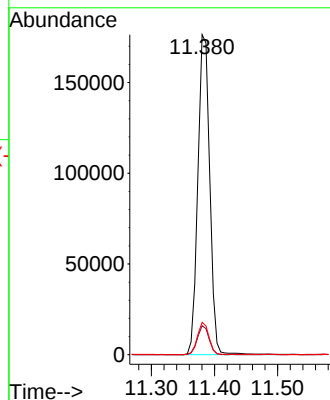
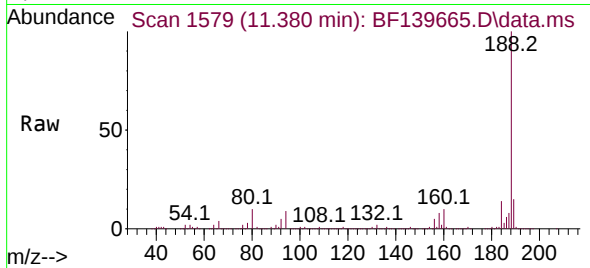
ClientSampleId :

OR-03-100124

Tgt Ion:188 Resp: 23065  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.4 11.2  
80 10.1 8.2 12.2

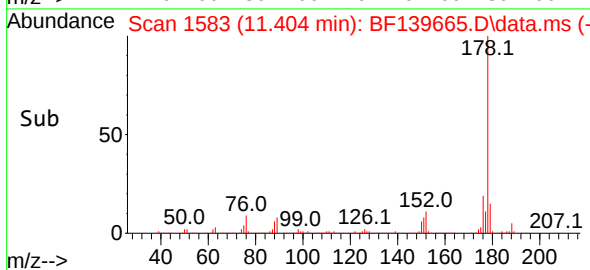
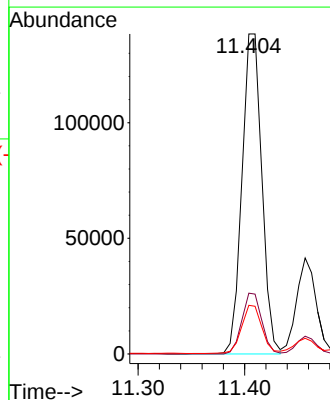
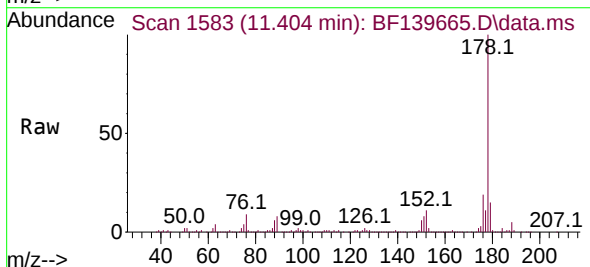
Manual Integrations  
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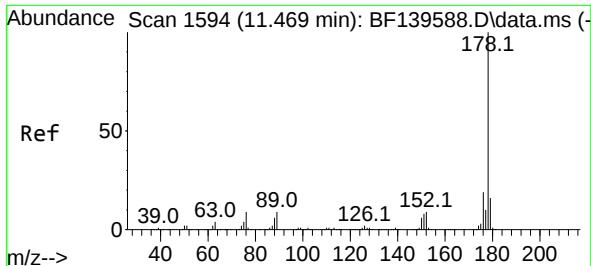
Reviewed By :Yogesh Patel 10/05/2024  
Supervised By :mohammad ahmed 10/07/2024



#71  
Phenanthrene  
Concen: 16.552 ng  
RT: 11.404 min Scan# 1583  
Delta R.T. -0.018 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

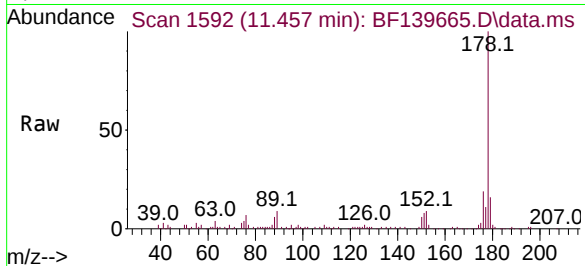
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Ion Ratio Lower Upper  
178 100  
176 19.0 15.5 23.3  
179 15.2 12.3 18.5





#72  
 Anthracene  
 Concen: 5.191 ng  
 RT: 11.457 min Scan# 11457  
 Delta R.T. -0.012 min  
 Lab File: BF139665.D  
 Acq: 04 Oct 2024 18:51

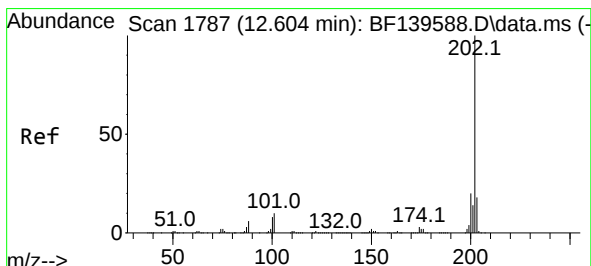
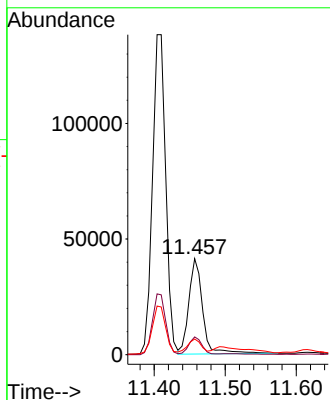
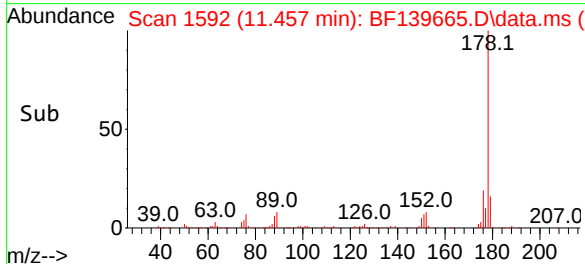
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100124



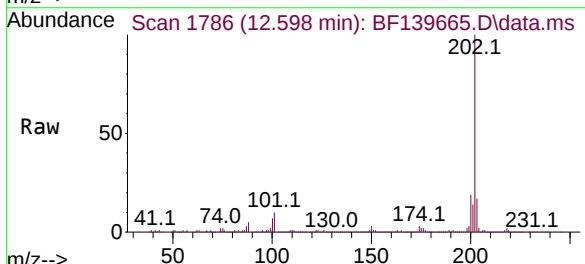
Tgt Ion:178 Resp: 55854  
 Ion Ratio Lower Upper  
 178 100  
 176 18.6 15.1 22.7  
 179 16.4 12.5 18.7

Manual Integrations  
 APPROVED

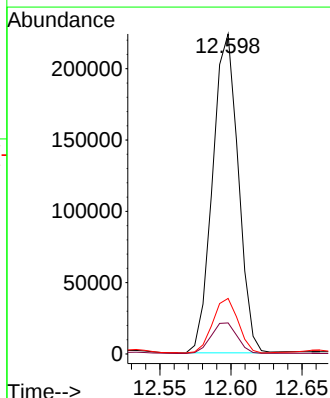
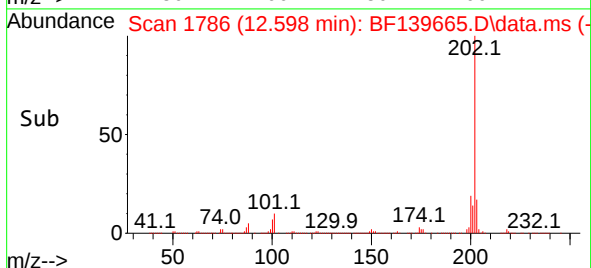
Reviewed By :Yogesh Patel 10/05/2024  
 Supervised By :mohammad ahmed 10/07/2024

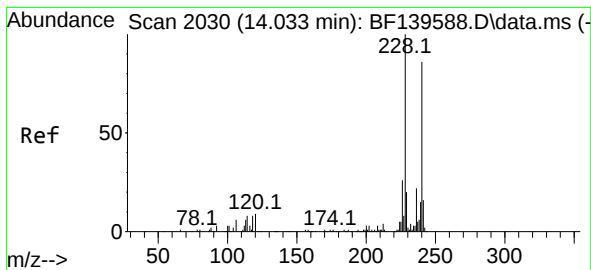


#75  
 Fluoranthene  
 Concen: 23.660 ng  
 RT: 12.598 min Scan# 1786  
 Delta R.T. -0.006 min  
 Lab File: BF139665.D  
 Acq: 04 Oct 2024 18:51



Tgt Ion:202 Resp: 281276  
 Ion Ratio Lower Upper  
 202 100  
 101 9.7 0.0 30.2  
 203 17.3 0.0 37.7





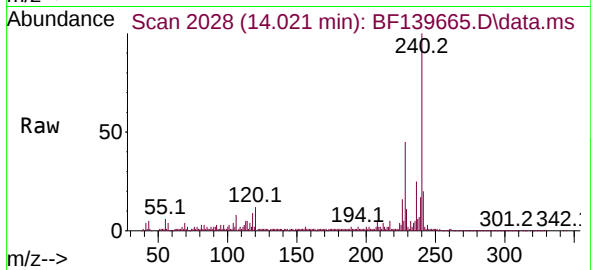
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.021 min Scan# 2030  
Delta R.T. -0.012 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

ClientSampleId :

OR-03-100124

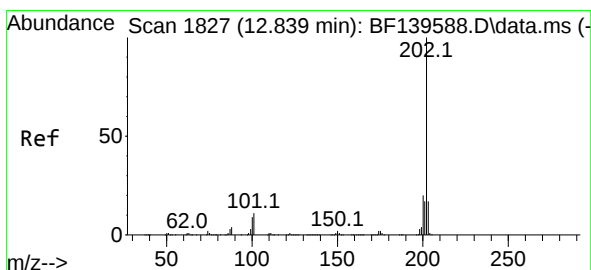
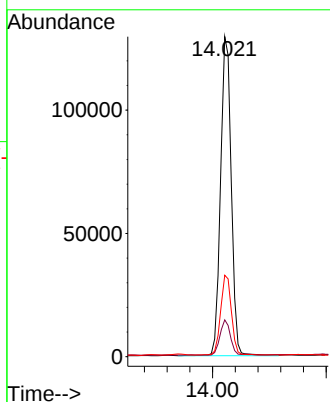
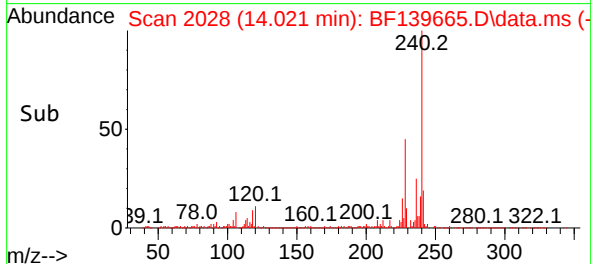


Tgt Ion:240 Resp: 16952  
Ion Ratio Lower Upper  
240 100  
120 11.5 8.4 12.6  
236 25.5 20.3 30.5

Manual Integrations

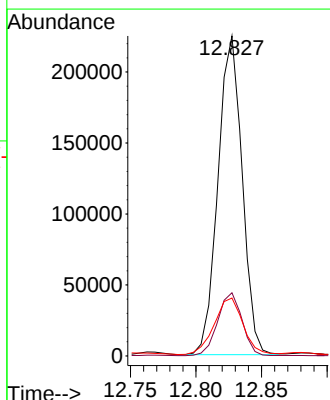
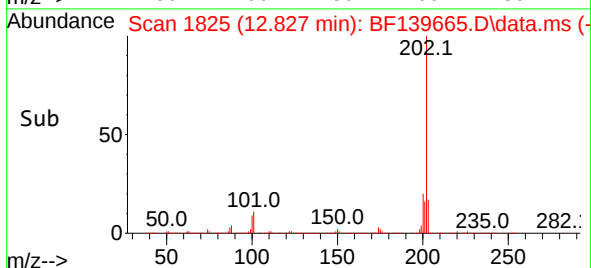
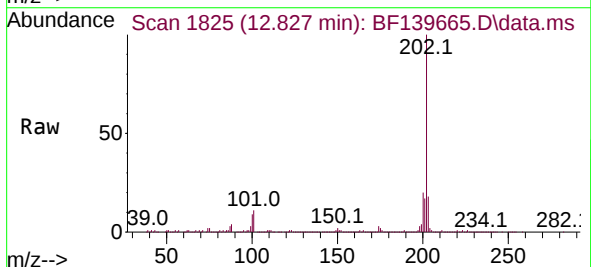
APPROVED

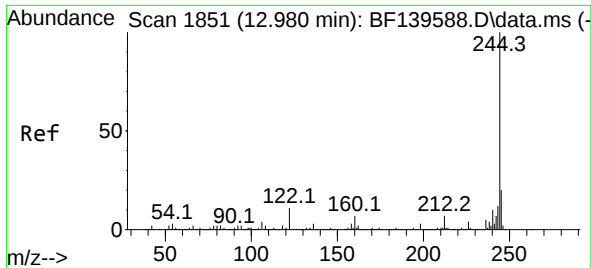
Reviewed By :Yogesh Patel 10/05/2024  
Supervised By :mohammad ahmed 10/07/2024



#78  
Pyrene  
Concen: 19.007 ng  
RT: 12.827 min Scan# 1825  
Delta R.T. -0.012 min  
Lab File: BF139665.D  
Acq: 04 Oct 2024 18:51

Tgt Ion:202 Resp: 288180  
Ion Ratio Lower Upper  
202 100  
200 19.7 15.8 23.6  
203 18.1 13.8 20.8





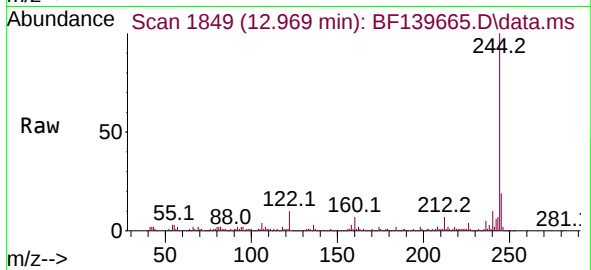
#79  
 Terphenyl-d14  
 Concen: 19.156 ng  
 RT: 12.969 min Scan# 1849  
 Delta R.T. -0.011 min  
 Lab File: BF139665.D  
 Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

ClientSampleId :

OR-03-100124



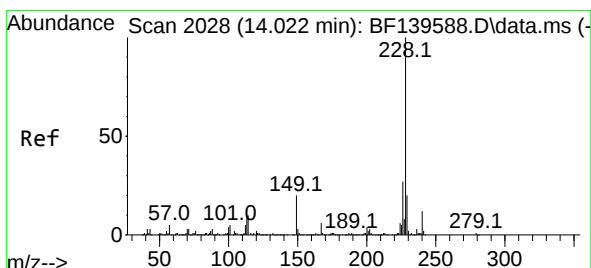
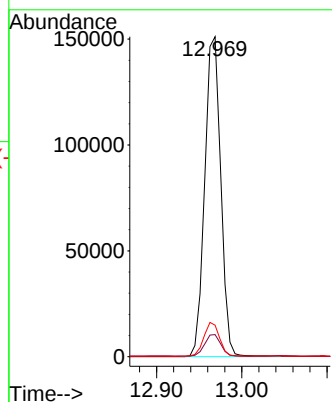
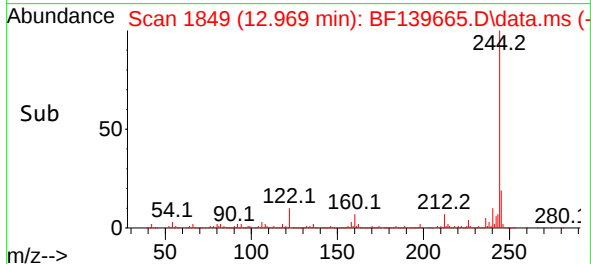
Tgt Ion:244 Resp: 197910  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.8 8.6  
 122 9.9 8.6 12.8

Manual Integrations

APPROVED

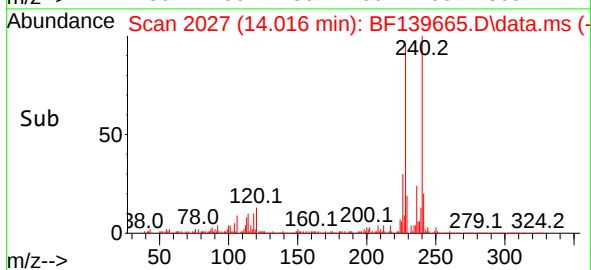
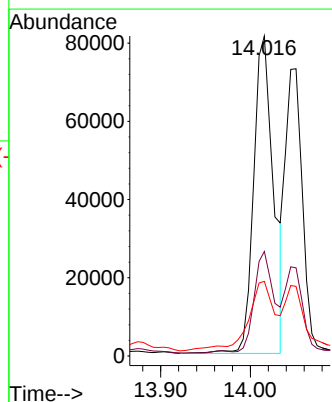
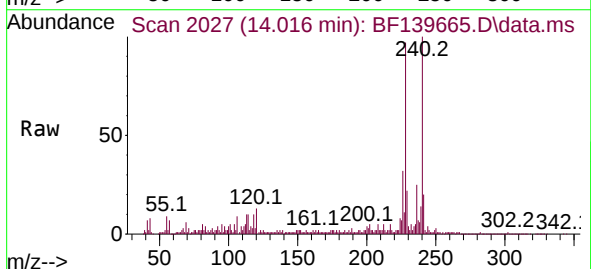
Reviewed By :Yogesh Patel 10/05/2024

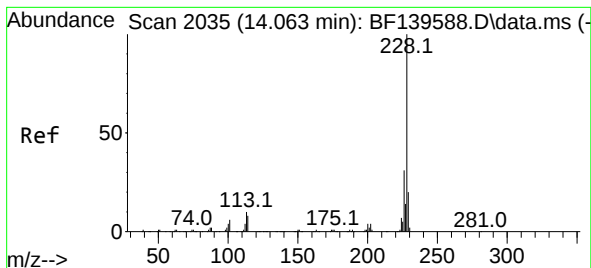
Supervised By :mohammad ahmed 10/07/2024



#81  
 Benzo(a)anthracene  
 Concen: 11.170 ng  
 RT: 14.016 min Scan# 2027  
 Delta R.T. -0.006 min  
 Lab File: BF139665.D  
 Acq: 04 Oct 2024 18:51

Tgt Ion:228 Resp: 124501  
 Ion Ratio Lower Upper  
 228 100  
 226 32.7 21.8 32.8  
 229 23.3 15.8 23.8





#83

Chrysene

Concen: 9.571 ng m

RT: 14.051 min Scan# 2035

Delta R.T. -0.012 min

Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

ClientSampleId :

OR-03-100124

Tgt Ion:228 Resp: 9752

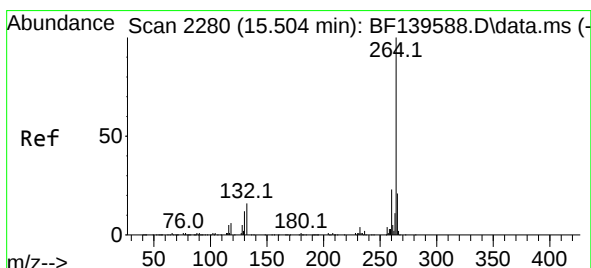
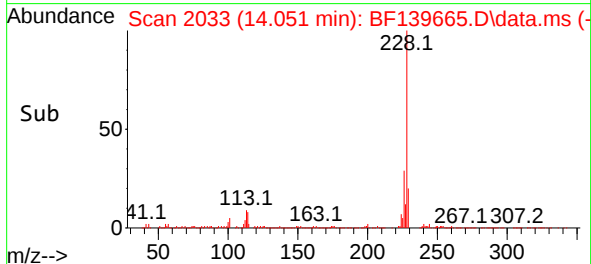
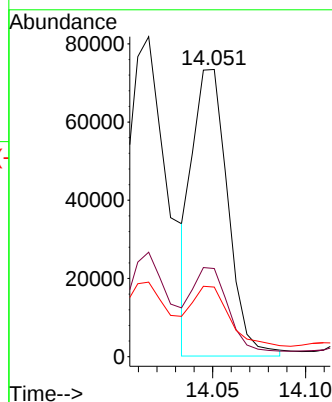
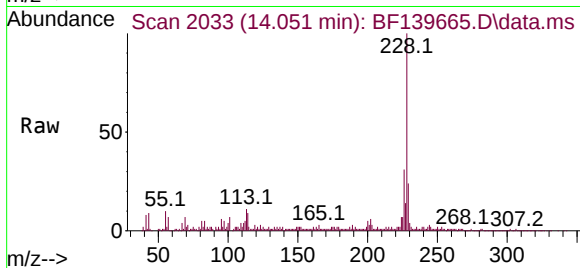
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.7  | 24.3  | 36.5  |
| 229 | 24.2  | 15.7  | 23.5  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/05/2024

Supervised By :mohammad ahmed 10/07/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 2279

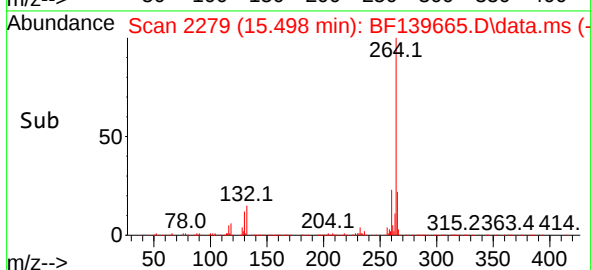
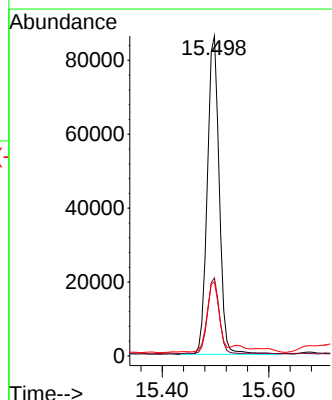
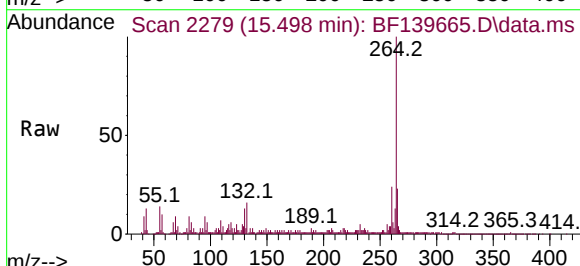
Delta R.T. -0.006 min

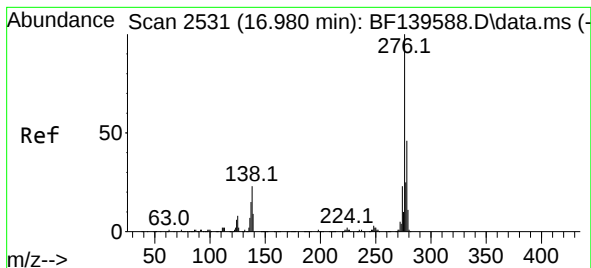
Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

Tgt Ion:264 Resp: 134169

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.4  | 18.7  | 28.1  |
| 265 | 23.2  | 16.9  | 25.3  |





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.995 ng

RT: 16.962 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

ClientSampleId :

OR-03-100124

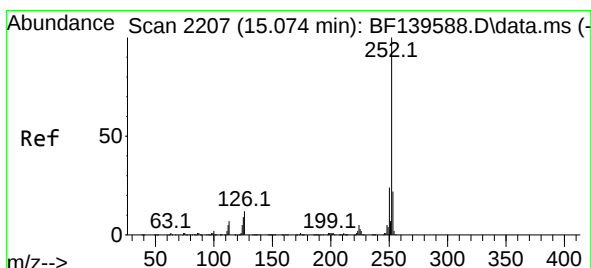
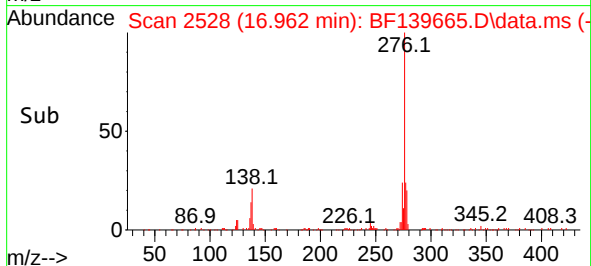
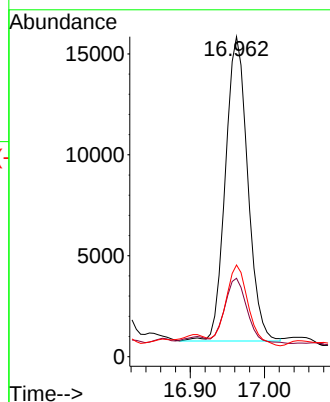
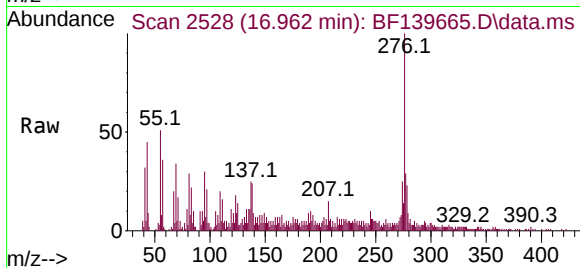
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 31550 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 21.8  | 19.4  | 29.0  |
| 277       | 26.6  | 20.2  | 30.2  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/05/2024

Supervised By :mohammad ahmed 10/07/2024



#88

Benzo(b)fluoranthene

Concen: 10.370 ng m

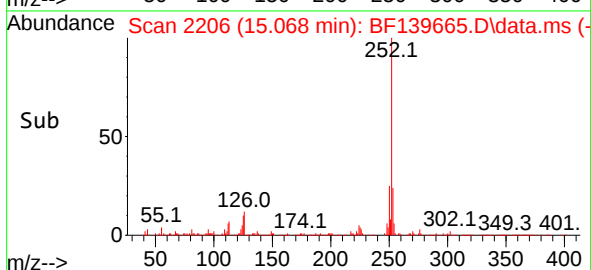
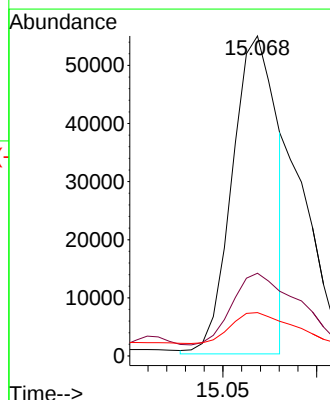
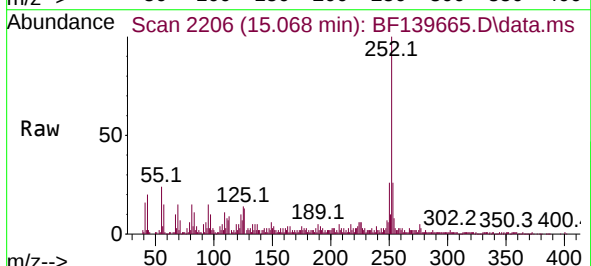
RT: 15.068 min Scan# 2206

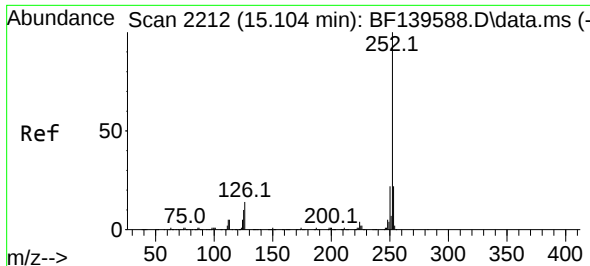
Delta R.T. -0.006 min

Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 89963 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 17.4  | 26.0  |
| 125       | 13.6  | 7.4   | 11.0  |





#89

Benzo(k)fluoranthene

Concen: 5.202 ng m

RT: 15.080 min Scan# 2212

Delta R.T. -0.024 min

Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

Instrument :

BNA\_F

ClientSampleId :

OR-03-100124

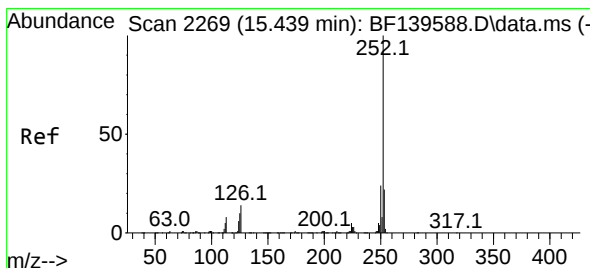
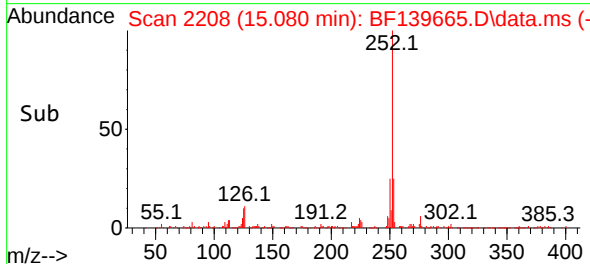
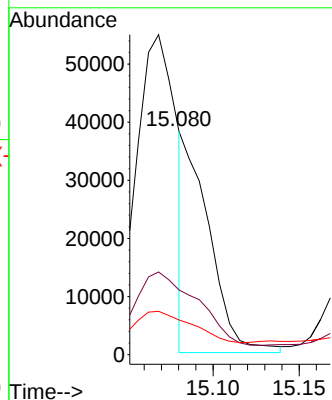
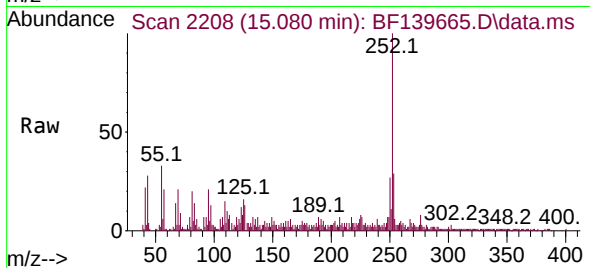
Tgt Ion:252 Resp: 38278  
 Ion Ratio Lower Upper  
 252 100  
 253 29.0 17.5 26.3  
 125 15.5 7.6 11.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/05/2024

Supervised By :mohammad ahmed 10/07/2024



#90

Benzo(a)pyrene

Concen: 10.645 ng

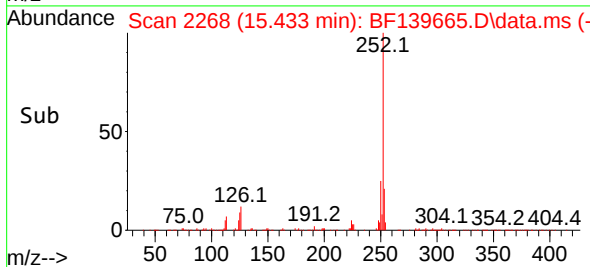
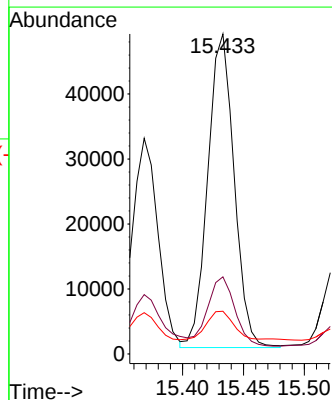
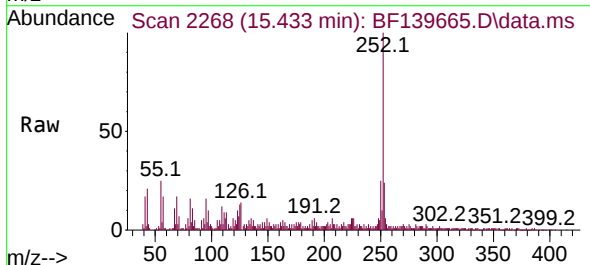
RT: 15.433 min Scan# 2268

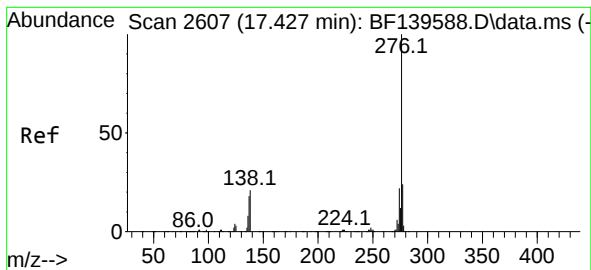
Delta R.T. -0.006 min

Lab File: BF139665.D

Acq: 04 Oct 2024 18:51

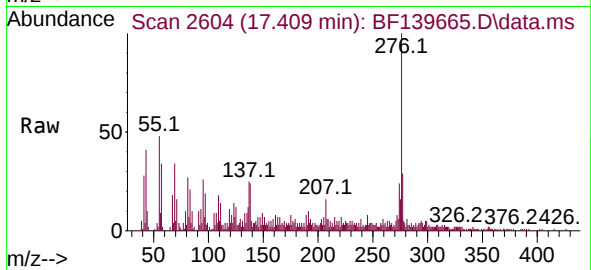
Tgt Ion:252 Resp: 72818  
 Ion Ratio Lower Upper  
 252 100  
 253 24.1 17.3 25.9  
 125 13.4 8.3 12.5





#92  
 Benzo(g,h,i)perylene  
 Concen: 5.121 ng  
 RT: 17.409 min Scan# 20  
 Delta R.T. -0.018 min  
 Lab File: BF139665.D  
 Acq: 04 Oct 2024 18:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-100124



Tgt Ion: 276 Resp: 33640  
 Ion Ratio Lower Upper  
 276 100  
 277 29.1 19.0 28.6  
 138 24.3 17.0 25.6

Manual Integrations  
 APPROVED

Reviewed By : Yogesh Patel 10/05/2024  
 Supervised By : mohammad ahmed 10/07/2024

