

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031424\  
 Data File : BF137602.D  
 Acq On : 14 Mar 2024 20:56  
 Operator : CG\JU  
 Sample : P1746-09  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-2.0-3.0

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 03/15/2024  
 Supervised By :mohammad ahmed 03/16/2024

Quant Time: Mar 15 02:03:25 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 14 14:45:20 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.728  | 152  | 123704   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.004  | 136  | 453257   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.757  | 164  | 225987   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.239 | 188  | 362492   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.874 | 240  | 340276   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.298 | 264  | 368031   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.334  | 112  | 903573   | 110.627 | ng    | 0.00     |
| 7) Phenol-d6                | 6.363  | 99   | 1175867  | 99.735  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.287  | 82   | 711815   | 72.969  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.545 | 330  | 205701   | 103.651 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.081  | 172  | 1094161  | 75.790  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.827 | 244  | 1133223  | 45.795  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 49) Acenaphthylene          | 9.622  | 152  | 42596    | 2.111   | ng    | 99       |
| 71) Phenanthrene            | 11.263 | 178  | 130921   | 6.636   | ng    | 98       |
| 75) Fluoranthene            | 12.451 | 202  | 388510   | 20.148  | ng    | 96       |
| 78) Pyrene                  | 12.675 | 202  | 359161   | 10.757  | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.863 | 228  | 224220m  | 9.401   | ng    |          |
| 83) Chrysene                | 13.898 | 228  | 231837   | 9.618   | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.680 | 276  | 101868   | 4.206   | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 14.892 | 252  | 329736m  | 15.146  | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.916 | 252  | 94290m   | 4.032   | ng    |          |
| 90) Benzo(a)pyrene          | 15.239 | 252  | 205577   | 9.582   | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 17.098 | 276  | 92049    | 4.562   | ng    | 97       |
| -----                       |        |      |          |         |       |          |

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

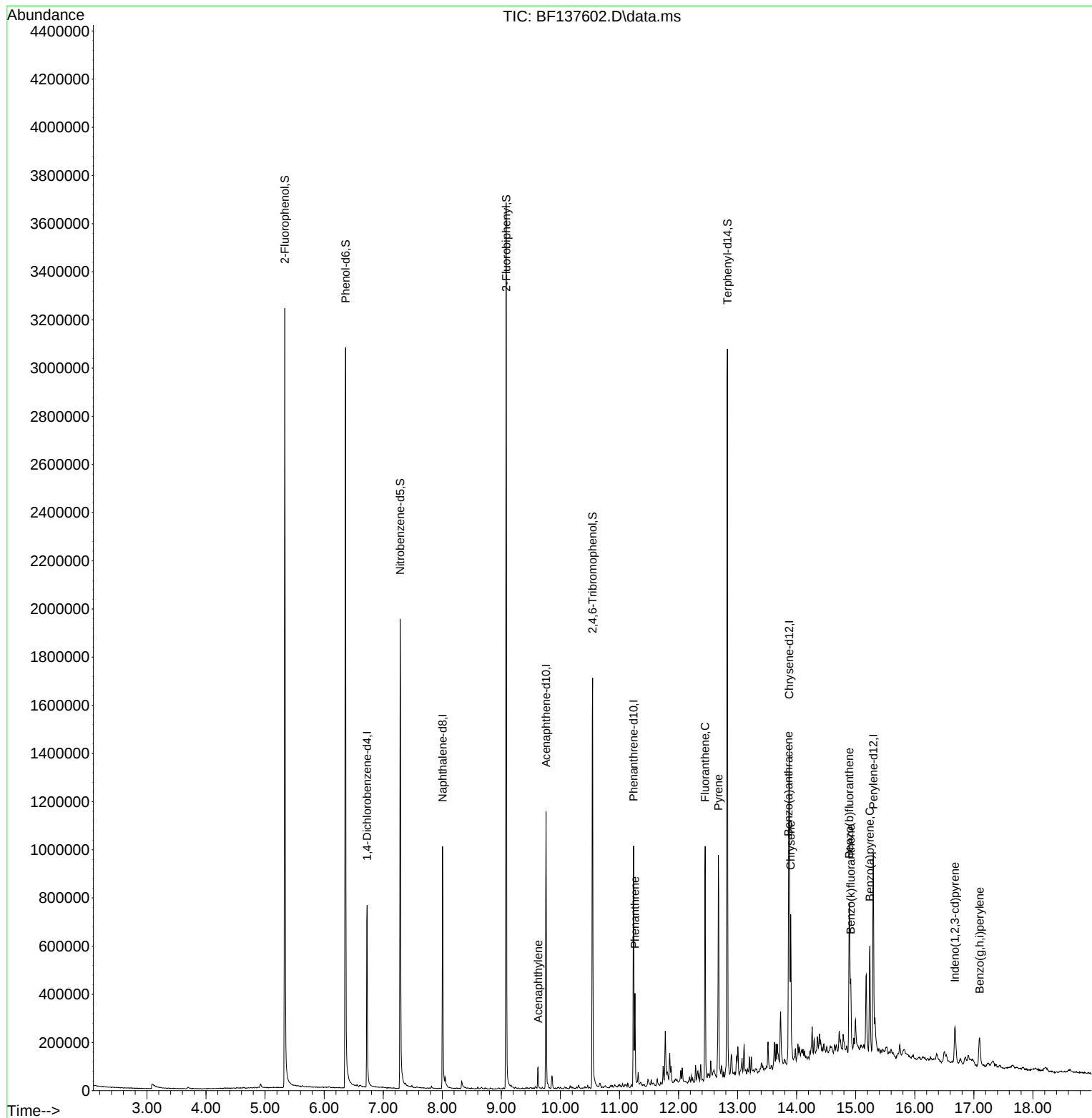
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031424\  
Data File : BF137602.D  
Acq On : 14 Mar 2024 20:56  
Operator : CG\JU  
Sample : P1746-09  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

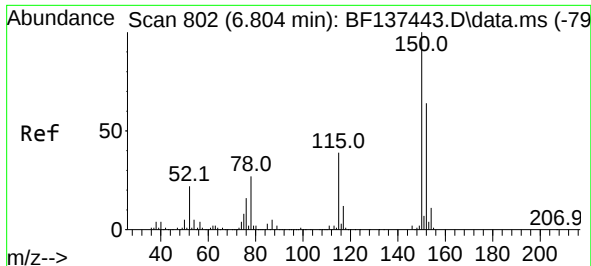
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-2.0-3.0

Quant Time: Mar 15 02:03:25 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 14 14:45:20 2024  
Response via : Initial Calibration

Manual Integrations  
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Supervised By :mohammad ahmed 03/16/2024





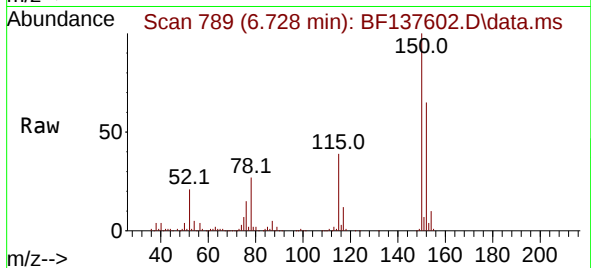
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.728 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

SB-03-2.0-3.0

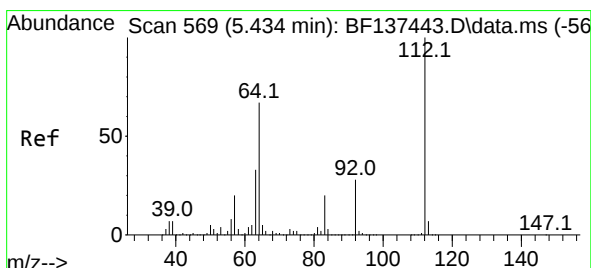
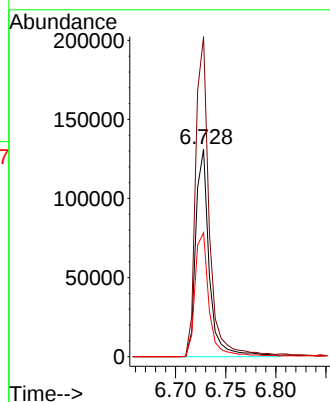
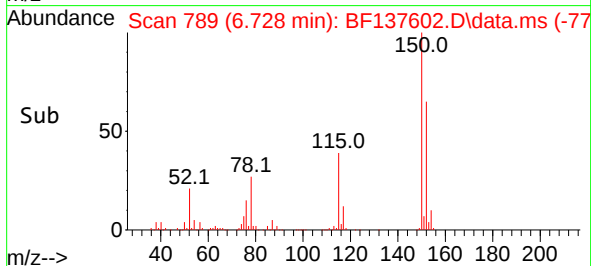


Tgt Ion:152 Resp: 123704  
Ion Ratio Lower Upper  
152 100  
150 154.2 125.8 188.6  
115 59.8 48.8 73.2

Manual Integrations

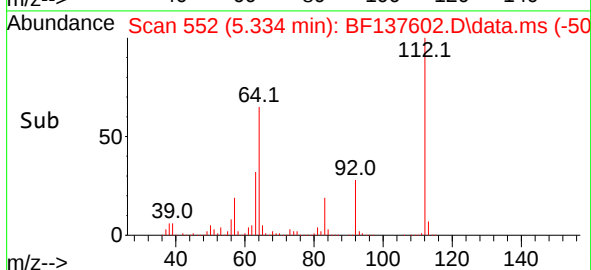
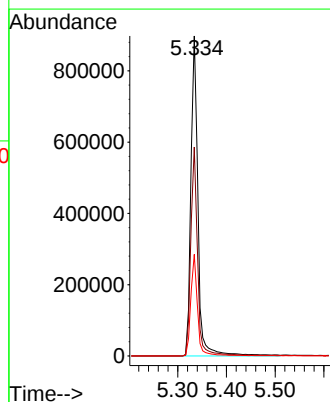
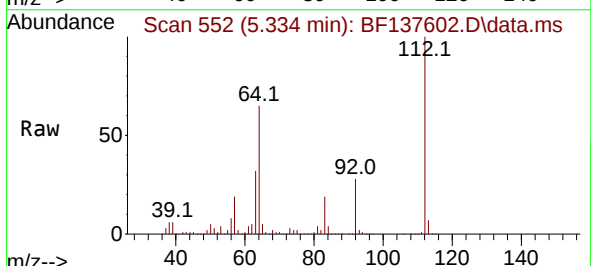
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Supervised By :mohammad ahmed 03/16/2024



#5  
2-Fluorophenol  
Concen: 110.627 ng  
RT: 5.334 min Scan# 552  
Delta R.T. -0.000 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

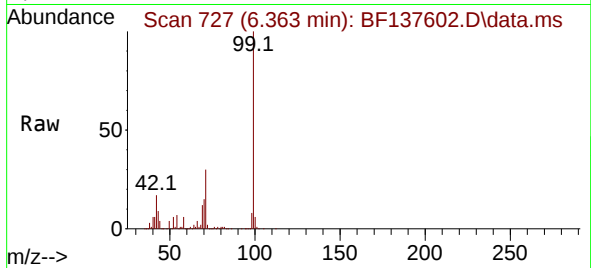
Tgt Ion:112 Resp: 903573  
Ion Ratio Lower Upper  
112 100  
64 65.3 53.4 80.2  
63 31.8 26.2 39.2





#7  
Phenol-d6  
Concen: 99.735 ng  
RT: 6.363 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

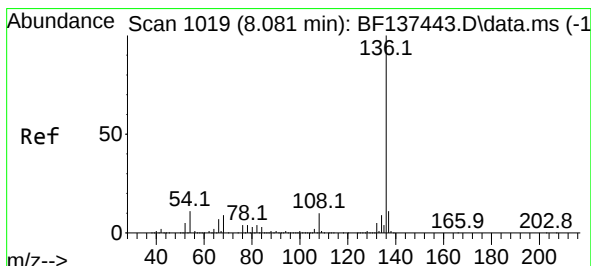
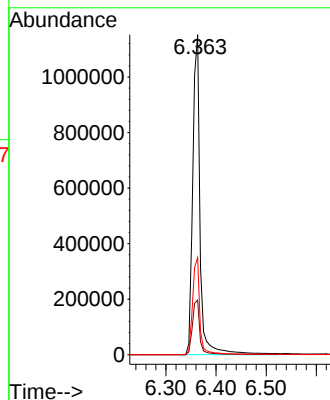
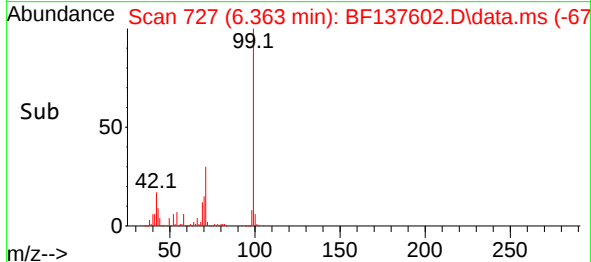
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-2.0-3.0



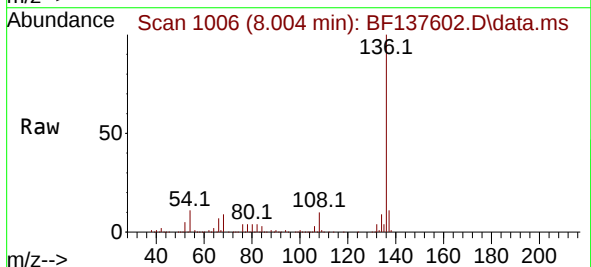
Tgt Ion: 99 Resp: 117586  
Ion Ratio Lower Upper  
99 100  
42 17.1 14.6 21.8  
71 30.3 25.3 37.9

Manual Integrations  
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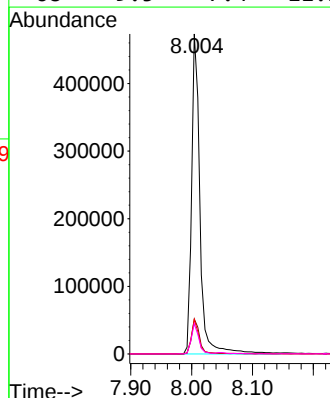
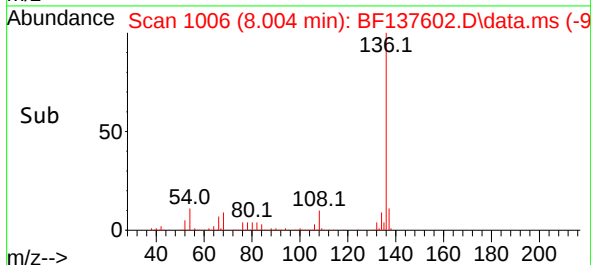
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024

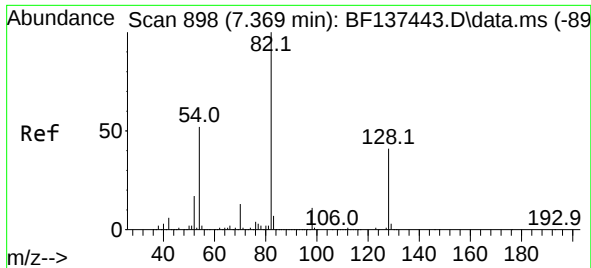


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.004 min Scan# 1006  
Delta R.T. -0.006 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56



Tgt Ion:136 Resp: 453257  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.1 13.7  
54 10.8 8.5 12.7  
68 9.5 7.4 11.2





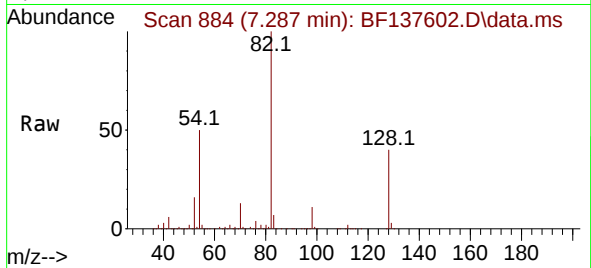
#23  
Nitrobenzene-d5  
Concen: 72.969 ng  
RT: 7.287 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

SB-03-2.0-3.0

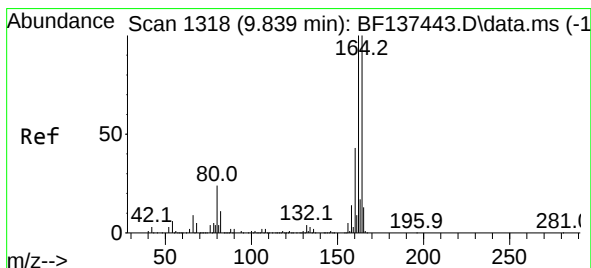
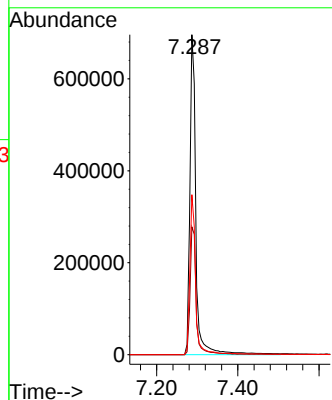
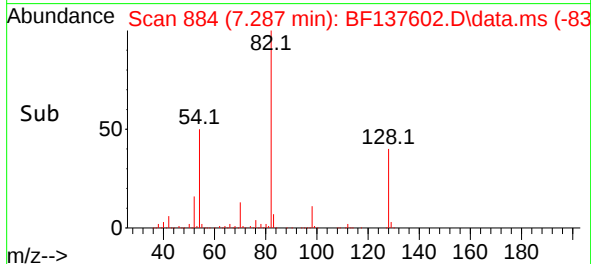


Tgt Ion: 82 Resp: 71181  
Ion Ratio Lower Upper  
82 100  
128 39.9 32.5 48.7  
54 50.0 41.5 62.3

Manual Integrations

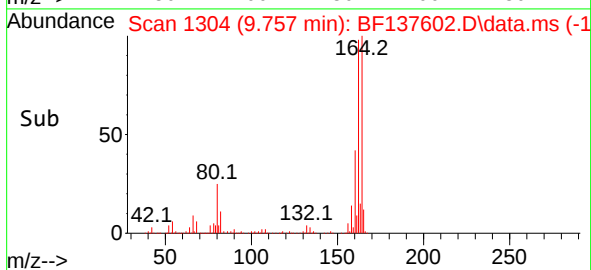
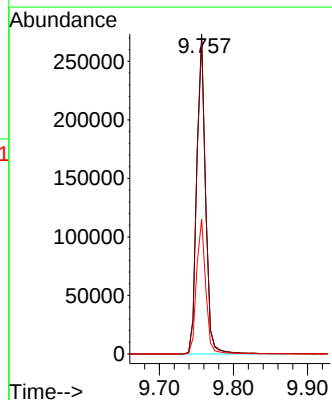
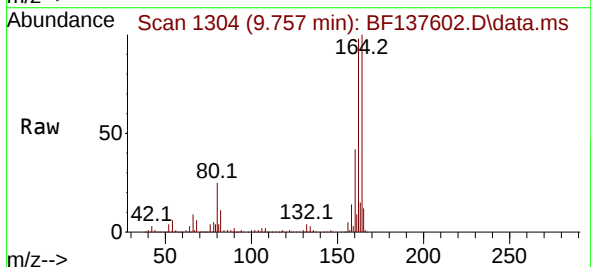
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Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.757 min Scan# 1304  
Delta R.T. -0.006 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

Tgt Ion:164 Resp: 225987  
Ion Ratio Lower Upper  
164 100  
162 97.8 79.8 119.8  
160 42.2 34.4 51.6





#42  
2,4,6-Tribromophenol  
Concen: 103.651 ng  
RT: 10.545 min Scan# 1453  
Delta R.T. -0.006 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

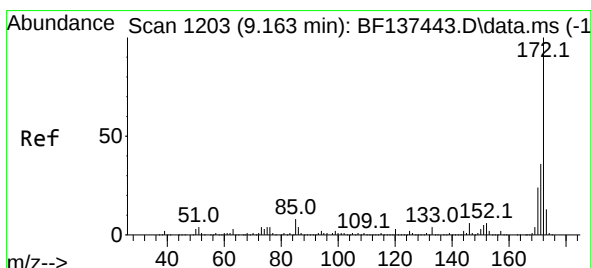
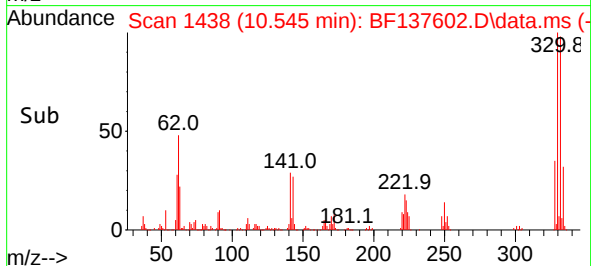
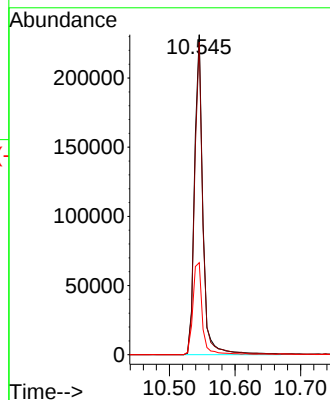
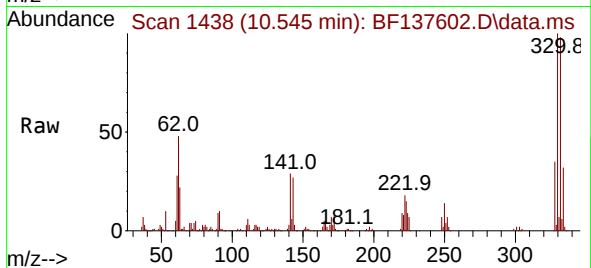
SB-03-2.0-3.0

Tgt Ion:330 Resp: 20570  
Ion Ratio Lower Upper  
330 100  
332 96.1 78.0 117.0  
141 32.6 27.3 40.9

Manual Integrations

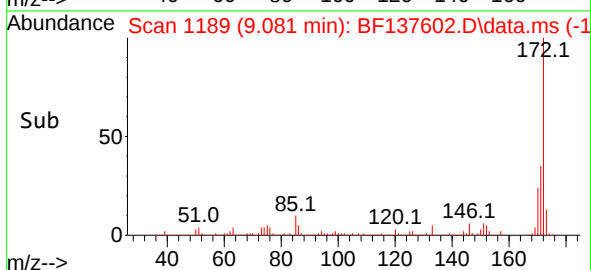
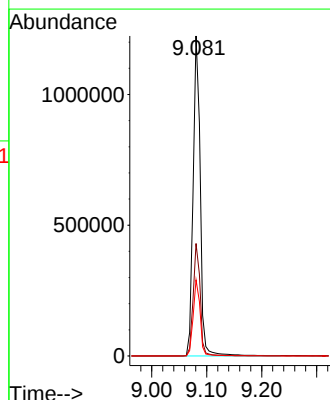
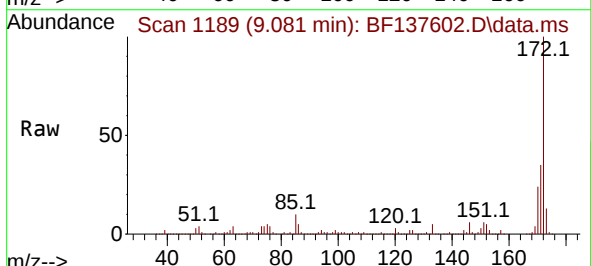
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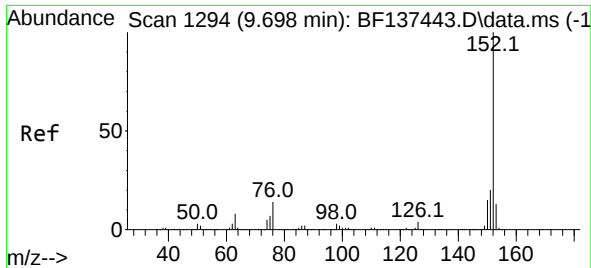
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#45  
2-Fluorobiphenyl  
Concen: 75.790 ng  
RT: 9.081 min Scan# 1189  
Delta R.T. -0.006 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

Tgt Ion:172 Resp: 1094161  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.5 42.7  
170 23.8 19.0 28.6





#49  
Acenaphthylene  
Concen: 2.111 ng  
RT: 9.622 min Scan# 1156  
Delta R.T. -0.000 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

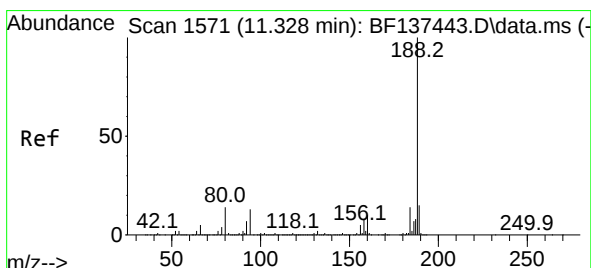
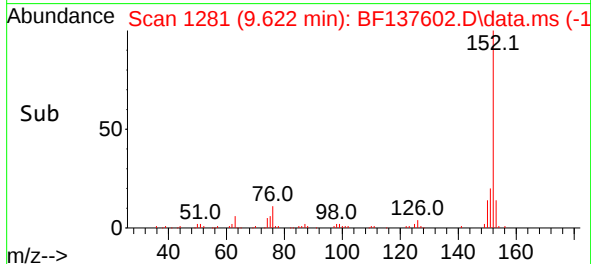
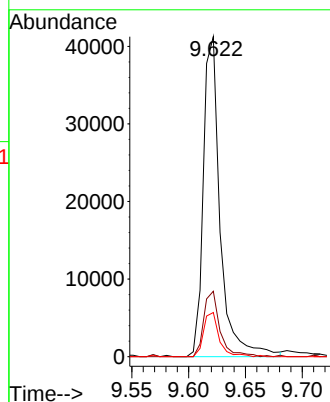
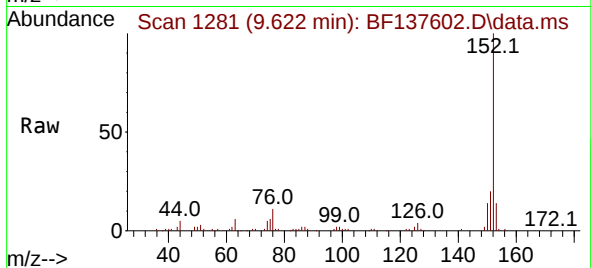
SB-03-2.0-3.0

Tgt Ion:152 Resp: 42590  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.2 24.4  
153 13.8 10.8 16.2

Manual Integrations

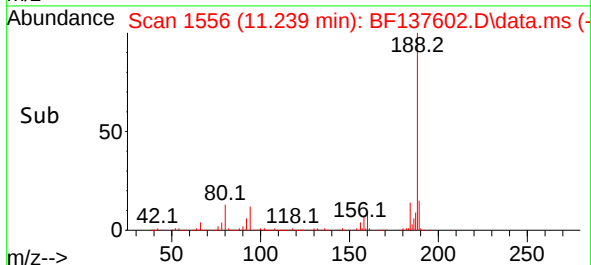
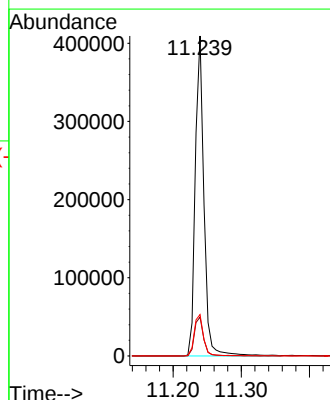
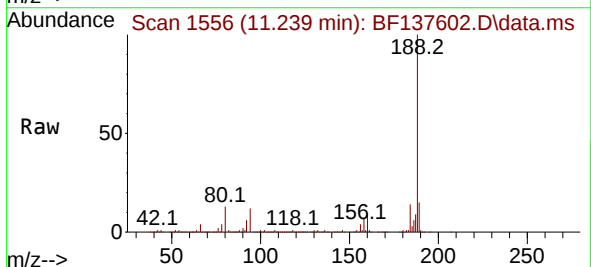
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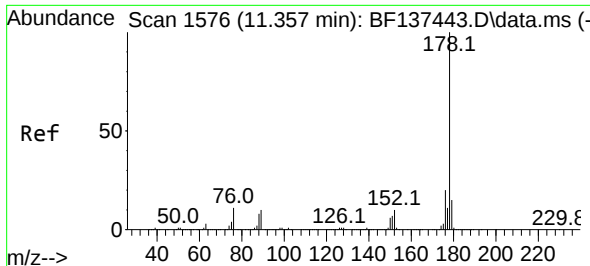
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.239 min Scan# 1556  
Delta R.T. 0.000 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

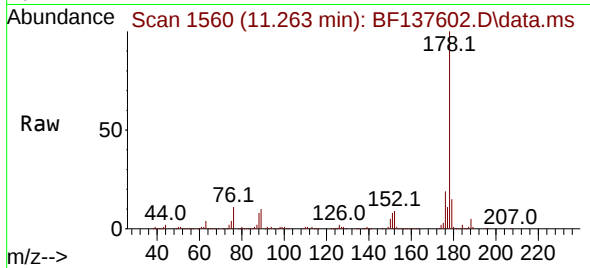
Tgt Ion:188 Resp: 362492  
Ion Ratio Lower Upper  
188 100  
94 12.2 10.6 15.8  
80 13.0 11.5 17.3





#71  
Phenanthrene  
Concen: 6.636 ng  
RT: 11.263 min Scan# 1176  
Delta R.T. -0.006 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

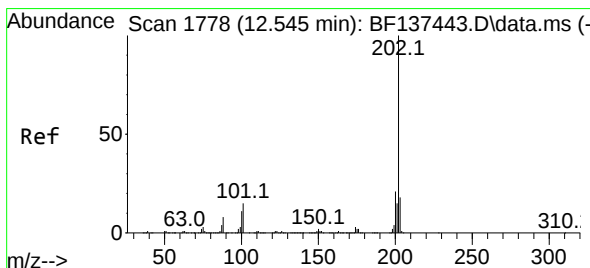
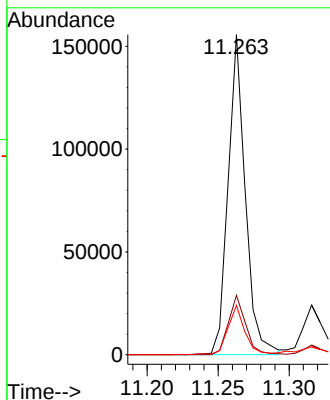
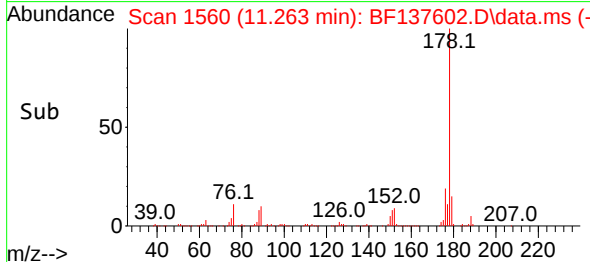
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-2.0-3.0



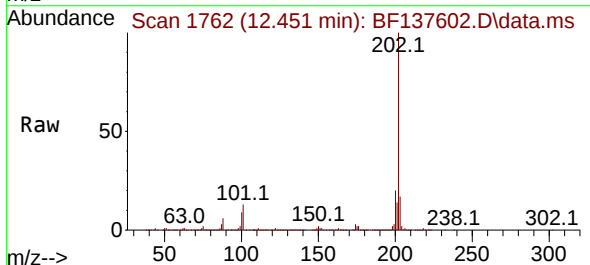
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Ion Ratio Lower Upper  
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176 18.6 15.8 23.8  
179 15.4 12.2 18.2

Manual Integrations  
APPROVED

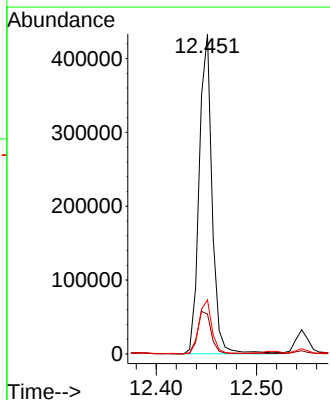
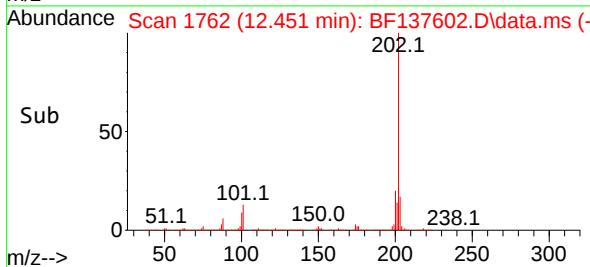
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024

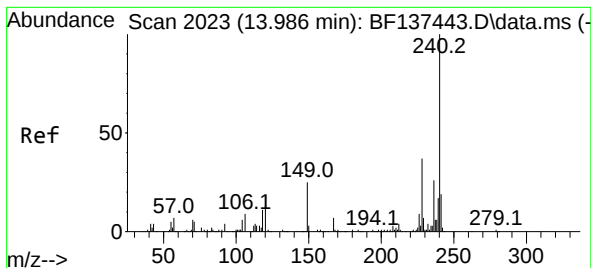


#75  
Fluoranthene  
Concen: 20.148 ng  
RT: 12.451 min Scan# 1762  
Delta R.T. -0.000 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56



Tgt Ion:202 Resp: 388510  
Ion Ratio Lower Upper  
202 100  
101 12.5 0.0 35.0  
203 16.9 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.874 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF137602.D

Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

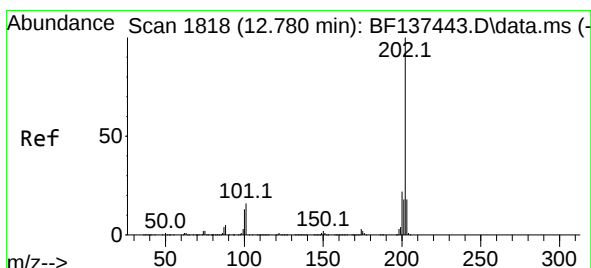
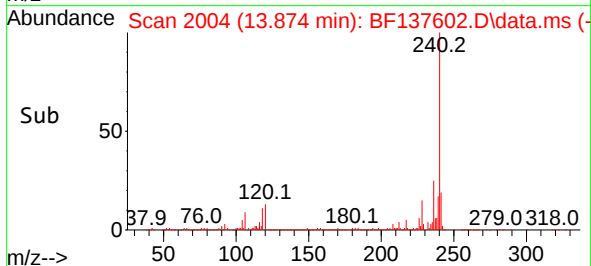
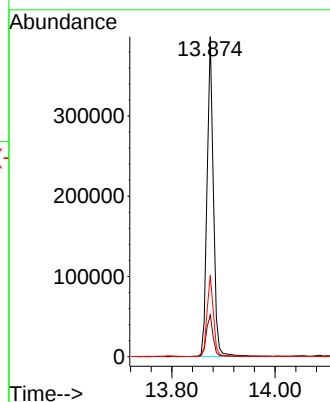
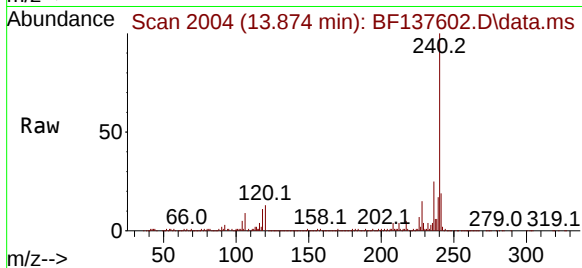
SB-03-2.0-3.0

Tgt Ion:240 Resp: 340270  
 Ion Ratio Lower Upper  
 240 100  
 120 13.1 10.4 15.6  
 236 25.4 20.9 31.3

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/15/2024  
 Supervised By :mohammad ahmed 03/16/2024



#78

Pyrene

Concen: 10.757 ng

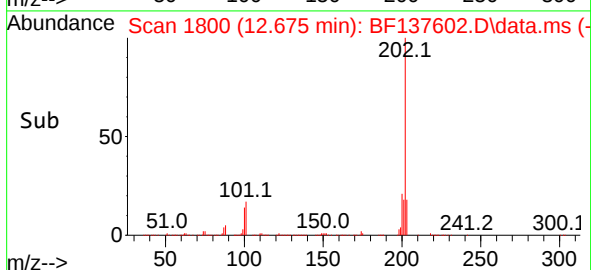
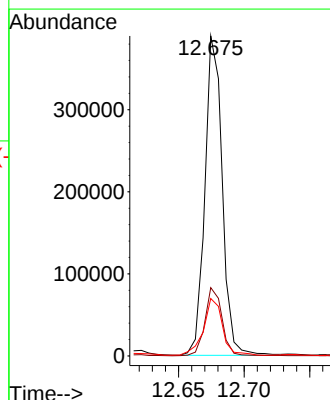
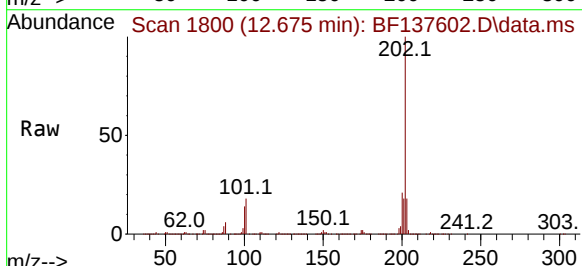
RT: 12.675 min Scan# 1800

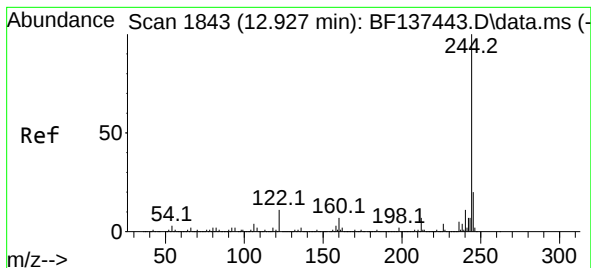
Delta R.T. -0.006 min

Lab File: BF137602.D

Acq: 14 Mar 2024 20:56

Tgt Ion:202 Resp: 359161  
 Ion Ratio Lower Upper  
 202 100  
 200 21.3 17.4 26.2  
 203 17.9 14.1 21.1





#79

Terphenyl-d14

Concen: 45.795 ng

RT: 12.827 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF137602.D

Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

SB-03-2.0-3.0

Tgt Ion:244 Resp: 113322

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

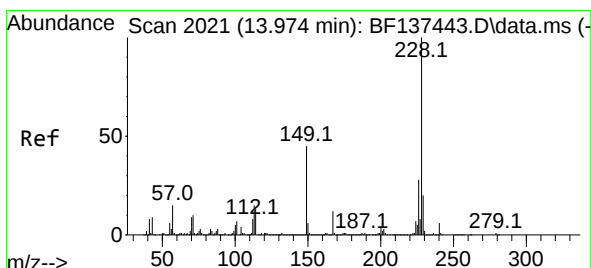
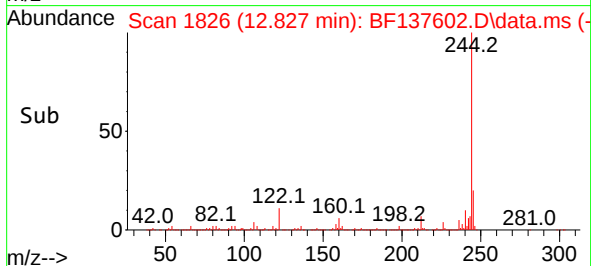
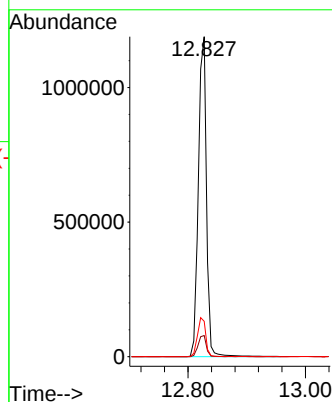
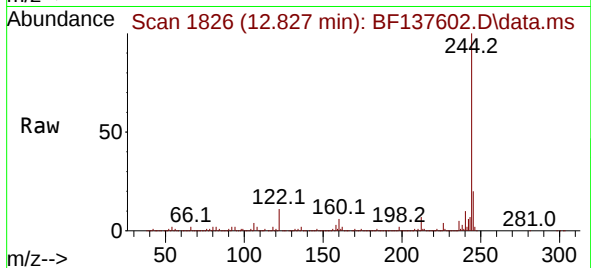
122 11.1 9.1 13.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/15/2024

Supervised By :mohammad ahmed 03/16/2024



#81

Benzo(a)anthracene

Concen: 9.401 ng m

RT: 13.863 min Scan# 2002

Delta R.T. -0.006 min

Lab File: BF137602.D

Acq: 14 Mar 2024 20:56

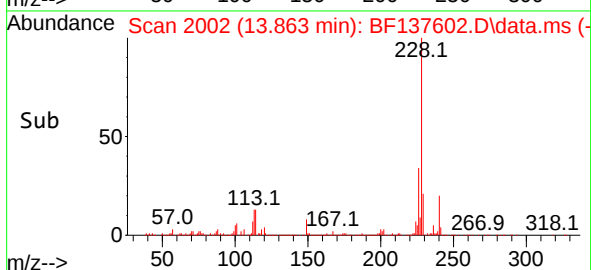
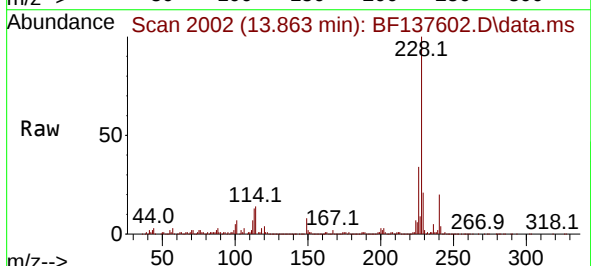
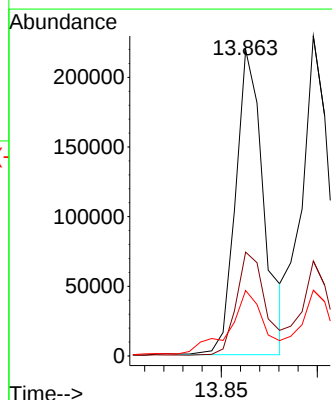
Tgt Ion:228 Resp: 224220

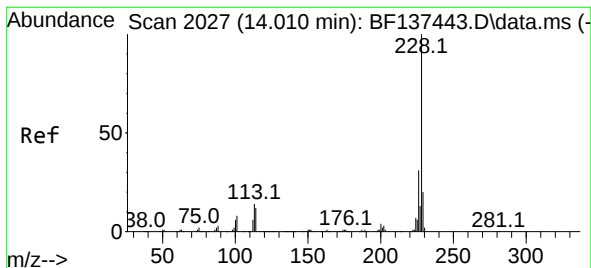
Ion Ratio Lower Upper

228 100

226 33.9 22.3 33.5#

229 21.4 16.3 24.5





#83

Chrysene

Concen: 9.618 ng

RT: 13.898 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF137602.D

Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

SB-03-2.0-3.0

Tgt Ion:228 Resp: 23183

Ion Ratio Lower Upper

228 100

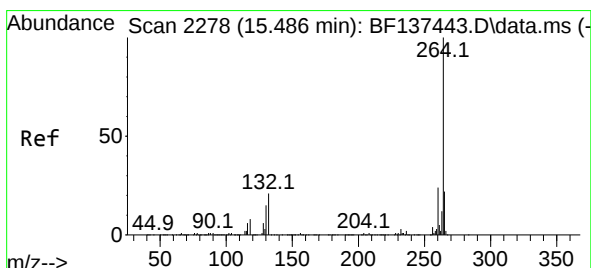
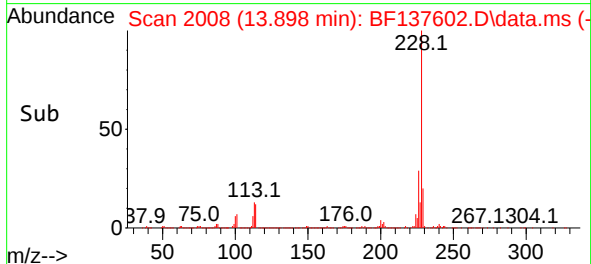
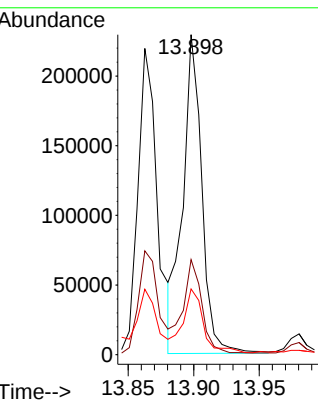
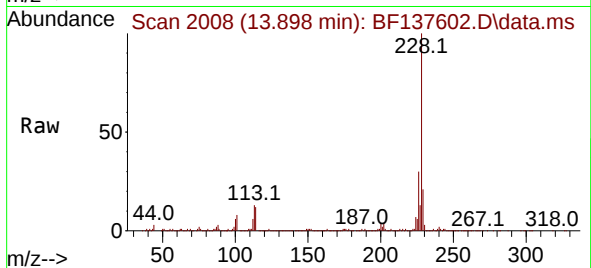
226 29.7 24.7 37.1

229 20.6 15.9 23.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.298 min Scan# 2246

Delta R.T. -0.000 min

Lab File: BF137602.D

Acq: 14 Mar 2024 20:56

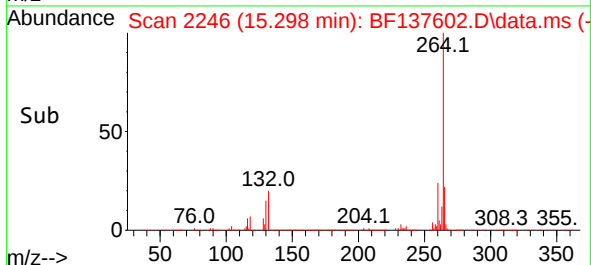
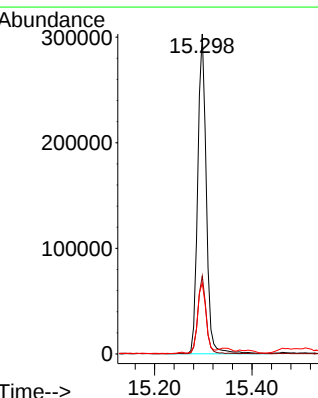
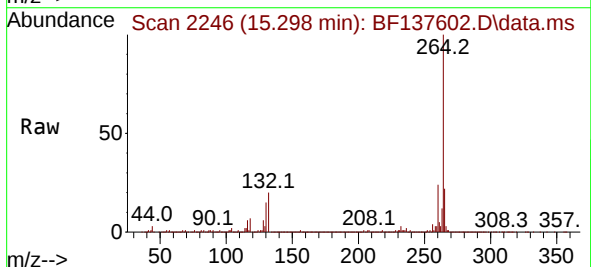
Tgt Ion:264 Resp: 368031

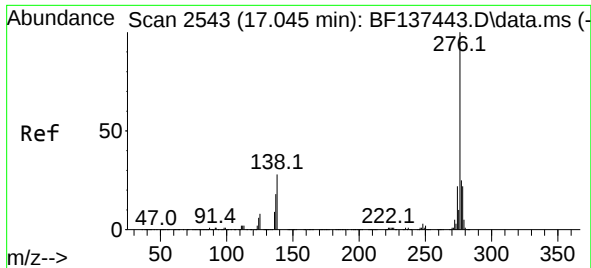
Ion Ratio Lower Upper

264 100

260 24.4 19.3 28.9

265 22.2 17.4 26.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.206 ng  
RT: 16.680 min Scan# 2481  
Delta R.T. -0.006 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

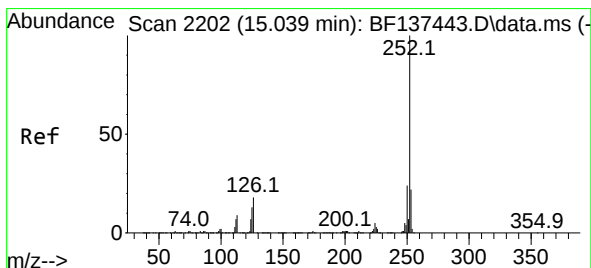
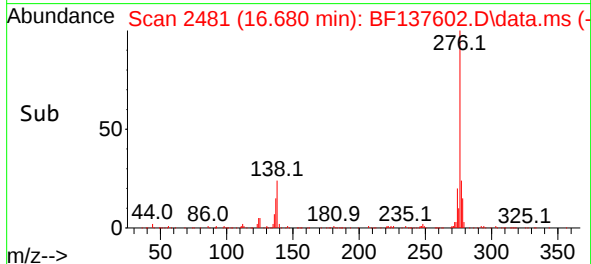
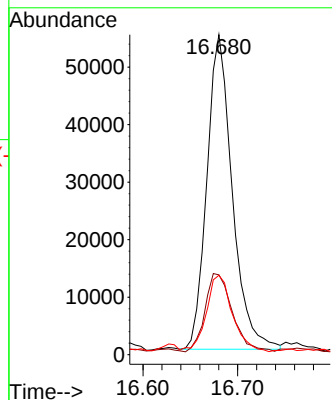
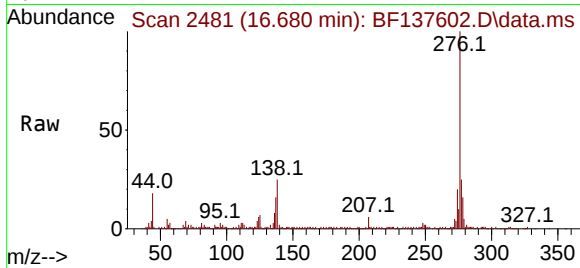
SB-03-2.0-3.0

Tgt Ion:276 Resp: 101868  
Ion Ratio Lower Upper  
276 100  
138 26.6 25.8 38.8  
277 24.8 20.2 30.2

Manual Integrations

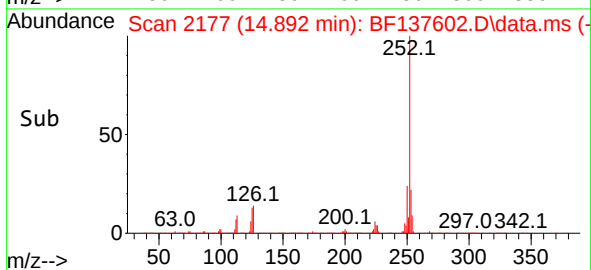
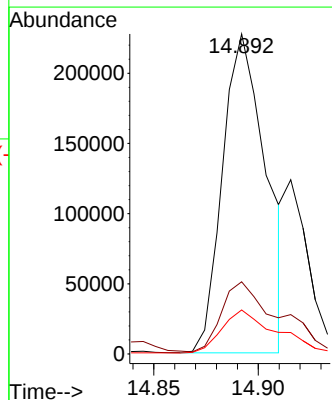
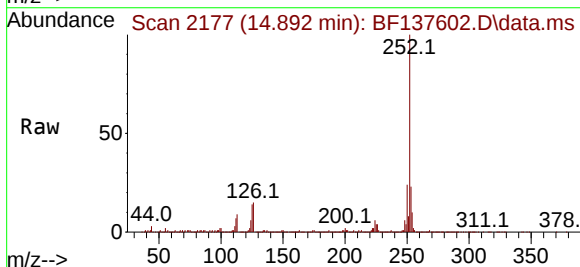
APPROVED

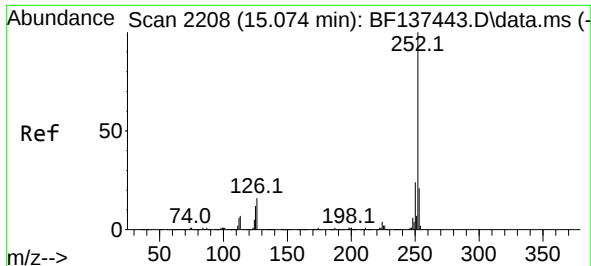
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#88  
Benzo(b)fluoranthene  
Concen: 15.146 ng m  
RT: 14.892 min Scan# 2177  
Delta R.T. -0.000 min  
Lab File: BF137602.D  
Acq: 14 Mar 2024 20:56

Tgt Ion:252 Resp: 329736  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.8 26.8  
125 13.8 10.1 15.1





#89

Benzo(k)fluoranthene

Concen: 4.032 ng m

RT: 14.916 min Scan# 2181

Delta R.T. -0.006 min

Lab File: BF137602.D

Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

SB-03-2.0-3.0

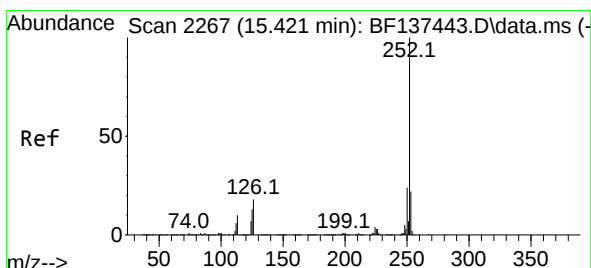
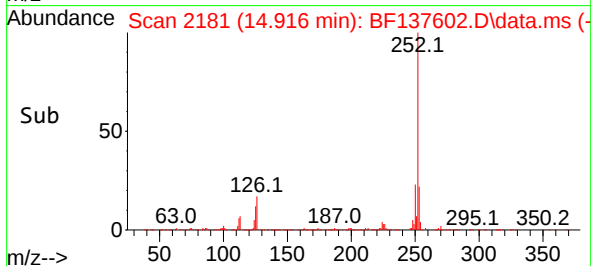
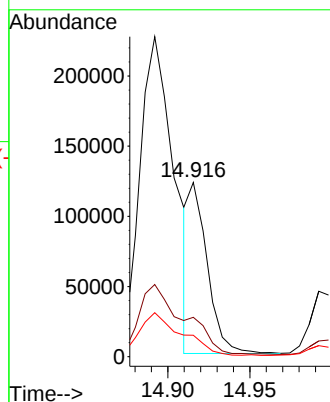
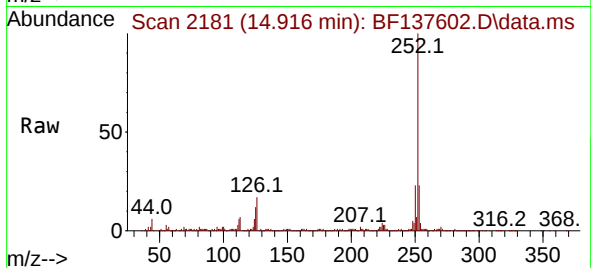
Tgt Ion:252 Resp: 94290

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.6  | 17.3  | 25.9  |
| 125 | 12.3  | 9.6   | 14.4  |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#90

Benzo(a)pyrene

Concen: 9.582 ng

RT: 15.239 min Scan# 2236

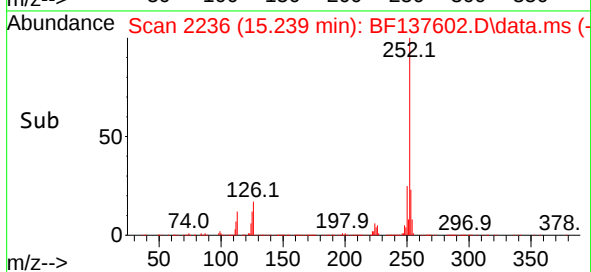
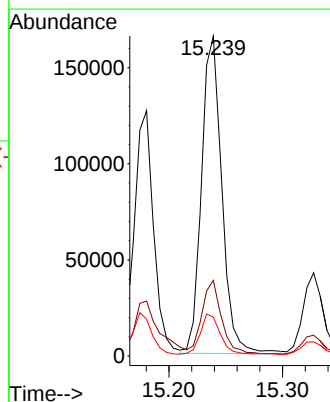
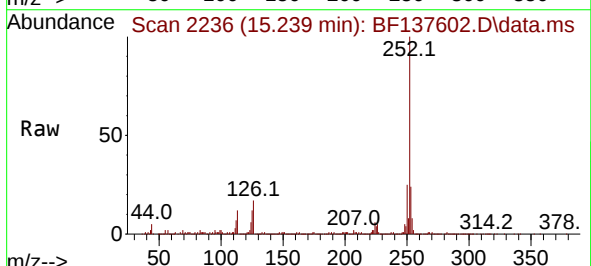
Delta R.T. -0.000 min

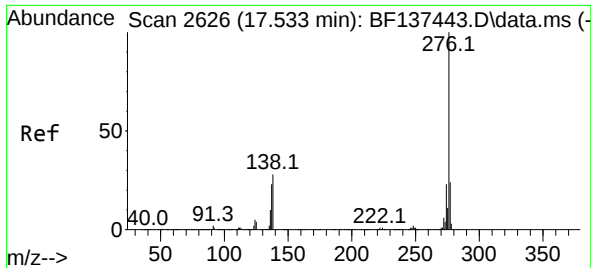
Lab File: BF137602.D

Acq: 14 Mar 2024 20:56

Tgt Ion:252 Resp: 205577

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.6  | 17.4  | 26.2  |
| 125 | 12.1  | 10.4  | 15.6  |





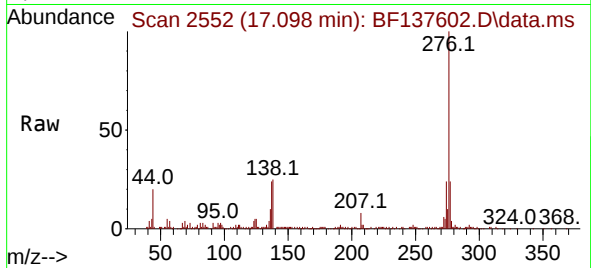
#92  
 Benzo(g,h,i)perylene  
 Concen: 4.562 ng  
 RT: 17.098 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BF137602.D  
 Acq: 14 Mar 2024 20:56

Instrument :

BNA\_F

ClientSampleId :

SB-03-2.0-3.0



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 92049 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.7  | 19.0  | 28.4  |
| 138       | 24.9  | 22.2  | 33.2  |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/15/2024  
 Supervised By :mohammad ahmed 03/16/2024

