

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF103123\  
 Data File : BF136063.D  
 Acq On : 31 Oct 2023 21:12  
 Operator : CG\JU  
 Sample : 04858-07RE  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-3RE

Quant Time: Nov 01 00:37:58 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 31 01:13:02 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/01/2023  
 Supervised By :mohammad ahmed 11/01/2023

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |                               |
|-----------------------------|--------|------|----------|--------|-------|----------|-------------------------------|
| Internal Standards          |        |      |          |        |       |          | 11/01/2023                    |
| 1) 1,4-Dichlorobenzene-d4   | 6.822  | 152  | 118053   | 20.000 | ng    | 0.00     | Supervised By :mohammad ahmed |
| 21) Naphthalene-d8          | 8.104  | 136  | 393864   | 20.000 | ng    | 0.00     |                               |
| 39) Acenaphthene-d10        | 9.863  | 164  | 177722   | 20.000 | ng    | 0.00     |                               |
| 64) Phenanthrene-d10        | 11.357 | 188  | 343784   | 20.000 | ng    | 0.00     |                               |
| 76) Chrysene-d12            | 14.016 | 240  | 299446   | 20.000 | ng    | # 0.00   |                               |
| 86) Perylene-d12            | 15.510 | 264  | 240688   | 20.000 | ng    | 0.01     | 11/01/2023                    |
| System Monitoring Compounds |        |      |          |        |       |          |                               |
| 5) 2-Fluorophenol           | 5.451  | 112  | 571448   | 76.066 | ng    | 0.00     |                               |
| 7) Phenol-d6                | 6.451  | 99   | 643641   | 68.764 | ng    | 0.00     |                               |
| 23) Nitrobenzene-d5         | 7.381  | 82   | 358844   | 54.923 | ng    | -0.01    |                               |
| 42) 2,4,6-Tribromophenol    | 10.651 | 330  | 153206   | 80.764 | ng    | 0.00     |                               |
| 45) 2-Fluorobiphenyl        | 9.181  | 172  | 619466   | 55.564 | ng    | 0.00     |                               |
| 79) Terphenyl-d14           | 12.957 | 244  | 742755   | 38.547 | ng    | 0.00     |                               |
| Target Compounds            |        |      |          |        |       |          | Qvalue                        |
| 49) Acenaphthylene          | 9.722  | 152  | 63954    | 4.105  | ng    |          | 99                            |
| 52) Acenaphthene            | 9.892  | 154  | 50227    | 5.071  | ng    |          | 99                            |
| 55) Dibenzofuran            | 10.063 | 168  | 40179    | 2.782  | ng    | #        | 93                            |
| 58) Fluorene                | 10.410 | 166  | 91701    | 8.480  | ng    |          | 98                            |
| 71) Phenanthrene            | 11.380 | 178  | 953173   | 55.066 | ng    |          | 99                            |
| 72) Anthracene              | 11.428 | 178  | 273870   | 15.441 | ng    |          | 99                            |
| 73) Carbazole               | 11.586 | 167  | 50663    | 3.287  | ng    |          | 98                            |
| 75) Fluoranthene            | 12.580 | 202  | 1481420  | 83.309 | ng    |          | 99                            |
| 78) Pyrene                  | 12.810 | 202  | 1385333  | 52.474 | ng    |          | 100                           |
| 81) Benzo(a)anthracene      | 14.010 | 228  | 776479   | 39.168 | ng    |          | 96                            |
| 83) Chrysene                | 14.045 | 228  | 669735   | 34.304 | ng    |          | 97                            |
| 87) Indeno(1,2,3-cd)pyrene  | 17.021 | 276  | 203653   | 12.946 | ng    |          | 95                            |
| 88) Benzo(b)fluoranthene    | 15.074 | 252  | 658284m  | 46.221 | ng    |          |                               |
| 89) Benzo(k)fluoranthene    | 15.098 | 252  | 169507m  | 12.029 | ng    |          |                               |
| 90) Benzo(a)pyrene          | 15.445 | 252  | 415147   | 31.372 | ng    |          | 98                            |
| 91) Dibenzo(a,h)anthracene  | 17.039 | 278  | 54583    | 4.236  | ng    |          | 91                            |
| 92) Benzo(g,h,i)perylene    | 17.480 | 276  | 179022   | 14.362 | ng    |          | 98                            |

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

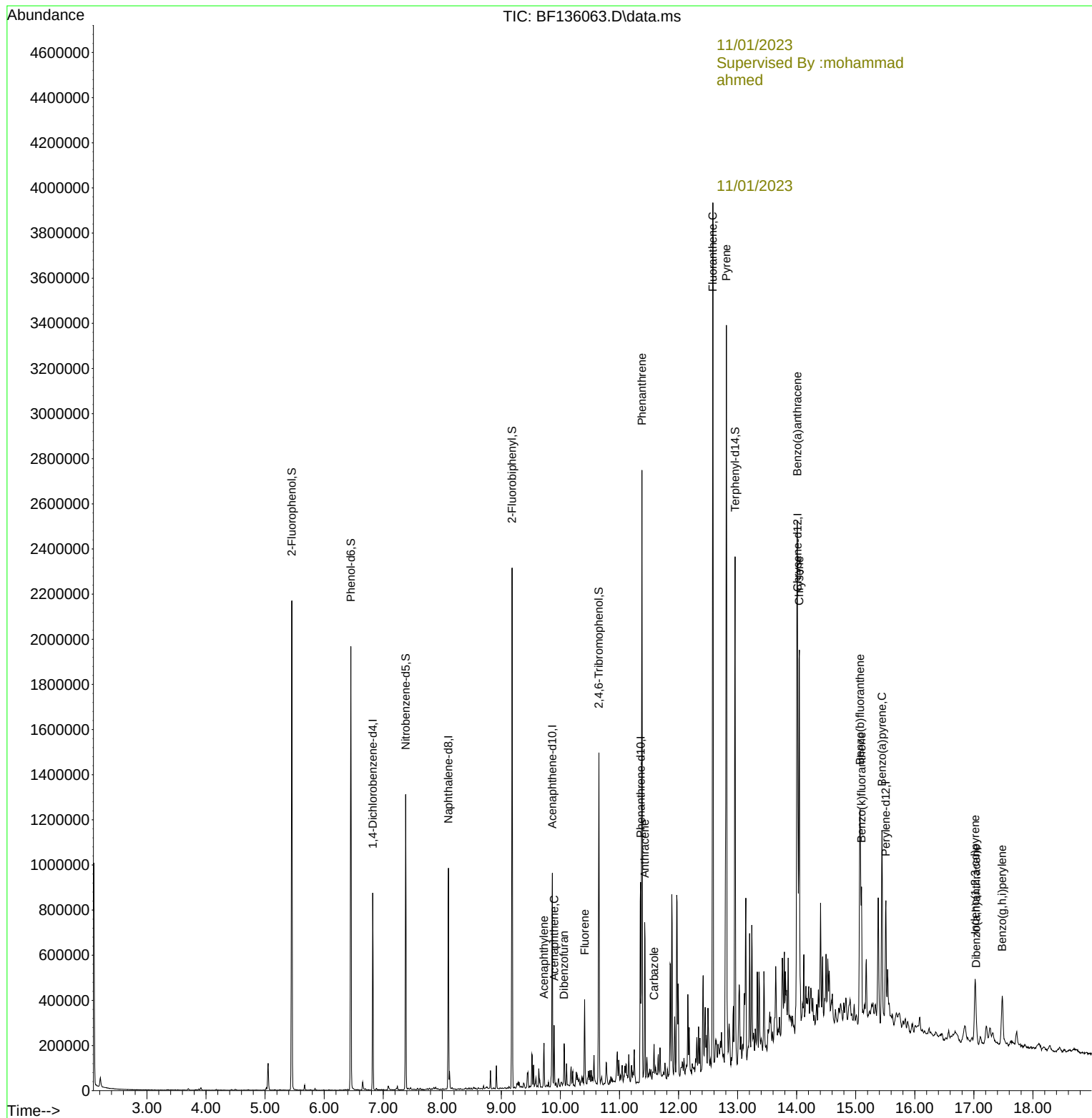
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF103123\  
Data File : BF136063.D  
Acq On : 31 Oct 2023 21:12  
Operator : CG\JU  
Sample : 04858-07RE  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

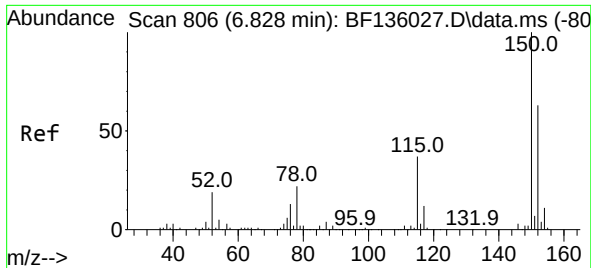
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3RE

Quant Time: Nov 01 00:37:58 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.822 min Scan# 806  
Delta R.T. -0.006 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

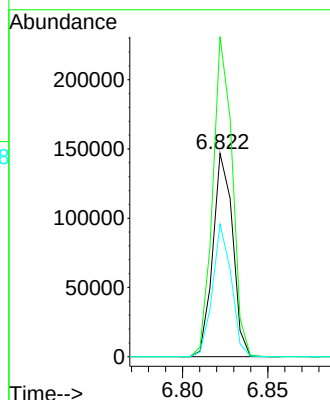
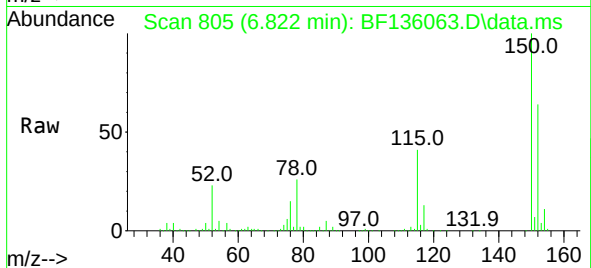
WC-3RE

Tgt Ion:152 Resp: 11805  
Ion Ratio Lower Upper  
152 100  
150 157.5 126.4 189.6  
115 65.3 47.0 70.4

Manual Integrations

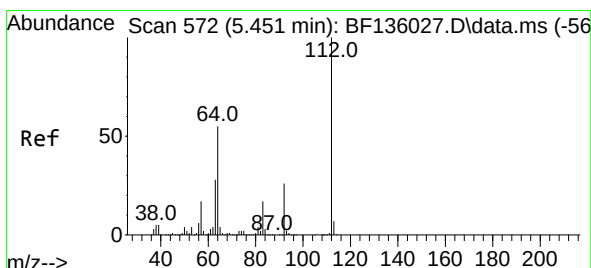
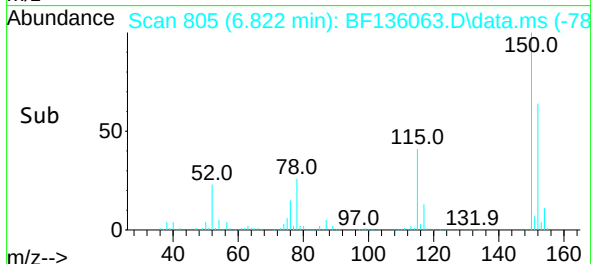
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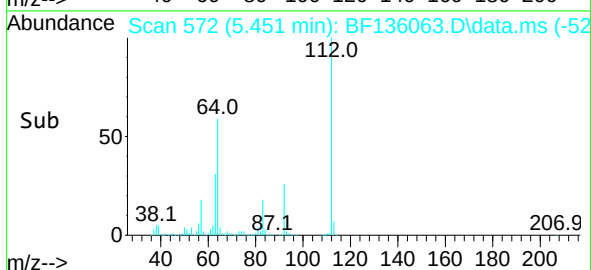
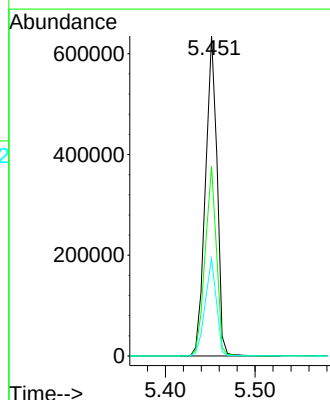
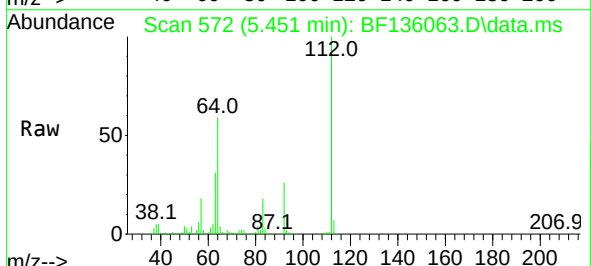
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Supervised By :mohammad  
ahmed

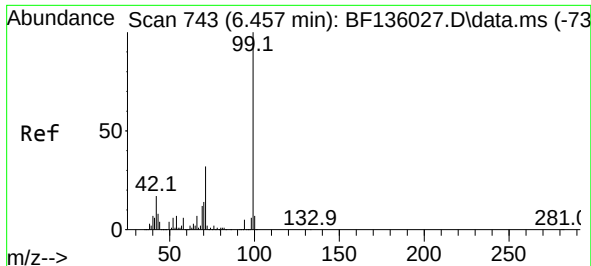
11/01/2023



#5  
2-Fluorophenol  
Concen: 76.066 ng  
RT: 5.451 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

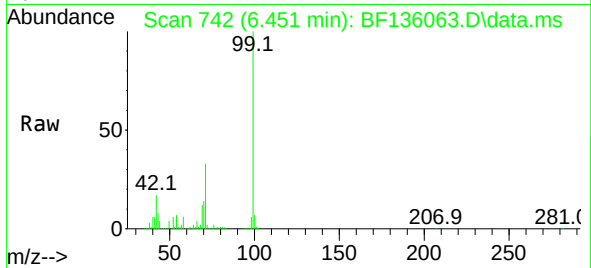
Tgt Ion:112 Resp: 571448  
Ion Ratio Lower Upper  
112 100  
64 59.3 43.9 65.9  
63 30.5 22.4 33.6





#7  
Phenol-d6  
Concen: 68.764 ng  
RT: 6.451 min Scan# 743  
Delta R.T. -0.006 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

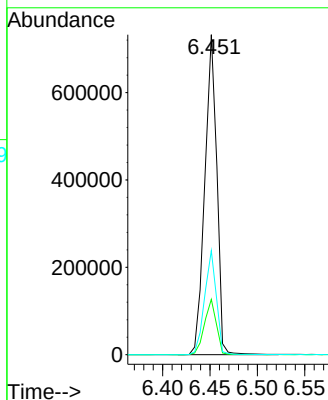
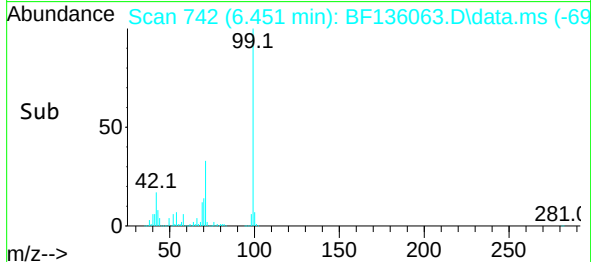
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3RE



Tgt Ion: 99 Resp: 64364  
Ion Ratio Lower Upper  
99 100  
42 17.3 13.7 20.5  
71 32.5 25.9 38.9

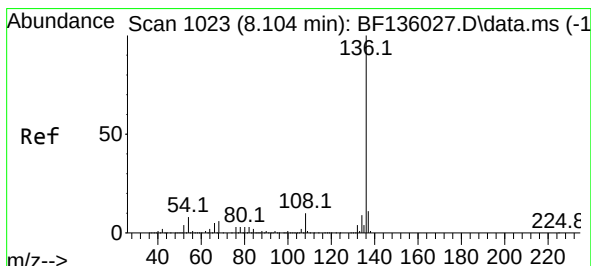
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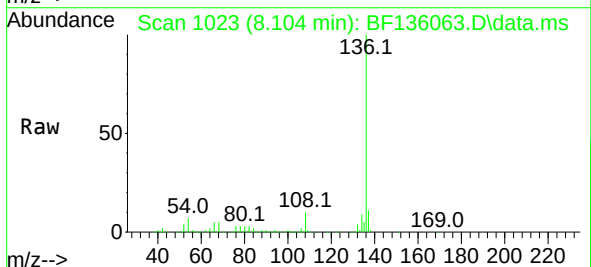


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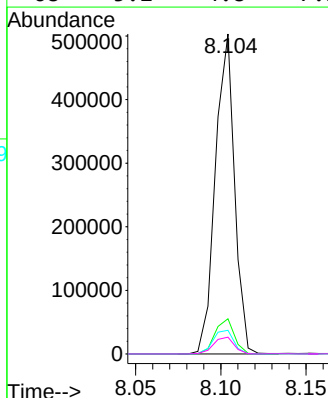
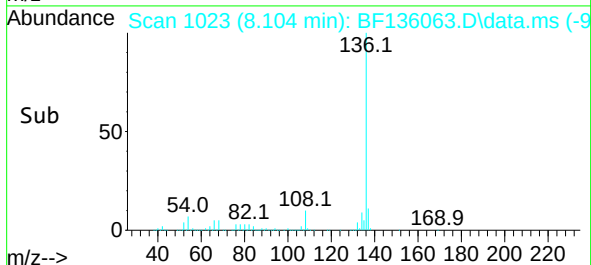
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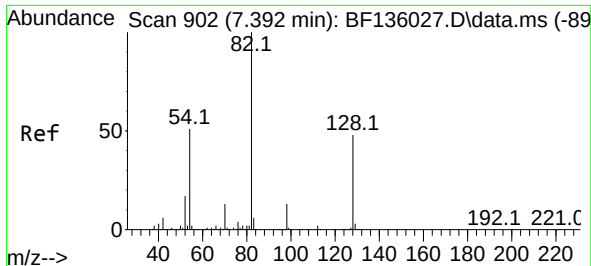


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. 0.000 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12



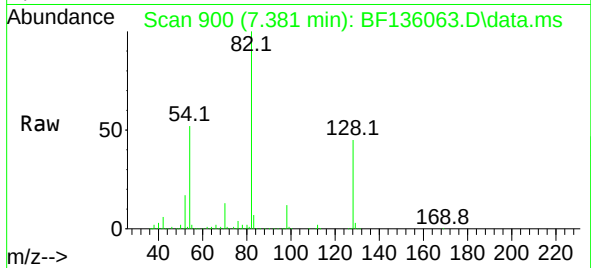
Tgt Ion:136 Resp: 393864  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 13.0  
54 7.4 6.6 9.8  
68 5.2 4.8 7.2





#23  
Nitrobenzene-d5  
Concen: 54.923 ng  
RT: 7.381 min Scan# 902  
Delta R.T. -0.012 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

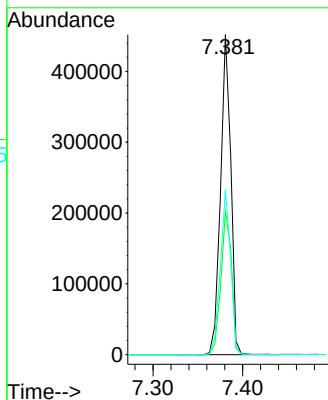
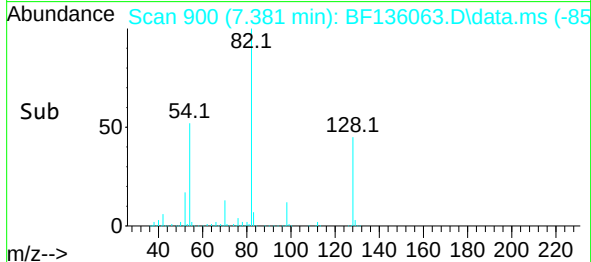
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 82 Resp: 358844  
Ion Ratio Lower Upper  
82 100  
128 44.6 38.6 57.8  
54 51.5 40.8 61.2

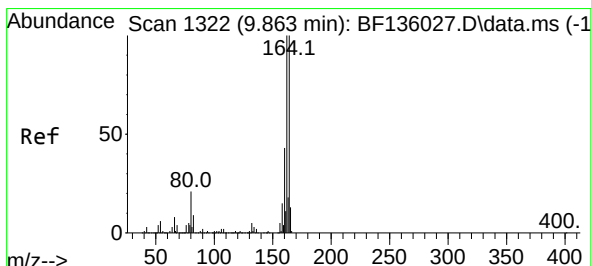
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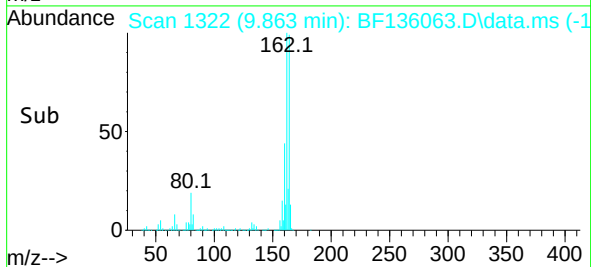
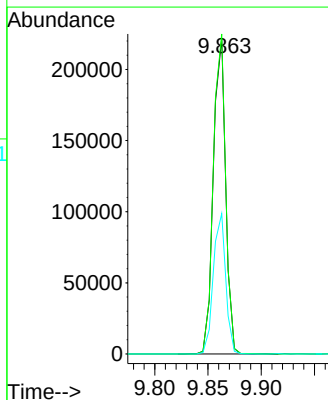
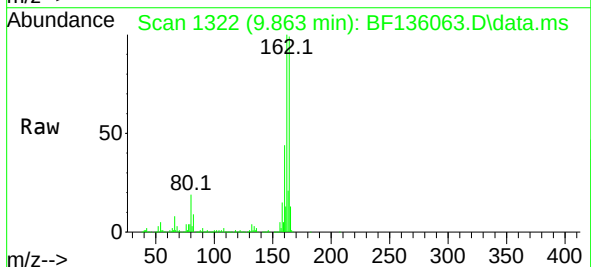
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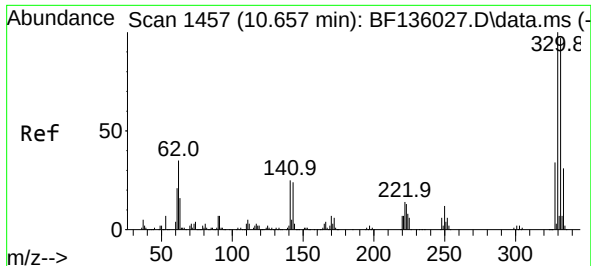
11/01/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.863 min Scan# 1322  
Delta R.T. -0.000 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

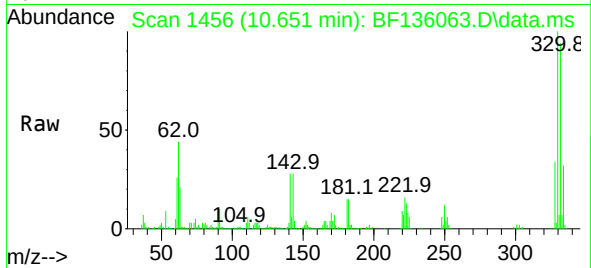
Tgt Ion:164 Resp: 177722  
Ion Ratio Lower Upper  
164 100  
162 101.4 80.1 120.1  
160 44.5 34.8 52.2





#42  
2,4,6-Tribromophenol  
Concen: 80.764 ng  
RT: 10.651 min Scan# 1457  
Delta R.T. -0.006 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

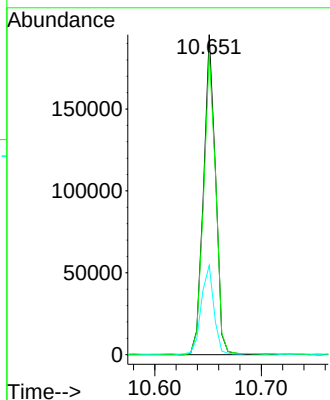
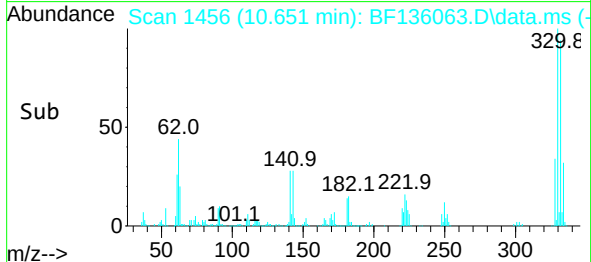
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3RE



Tgt Ion:330 Resp: 153200  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.9 115.3  
141 29.3 23.2 34.8

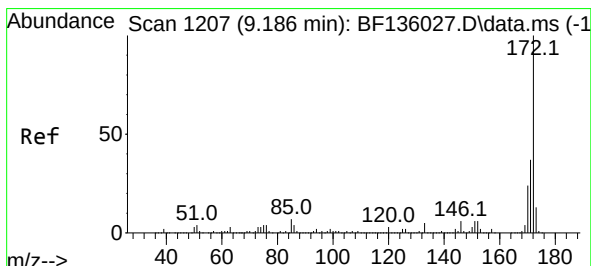
Manual Integrations  
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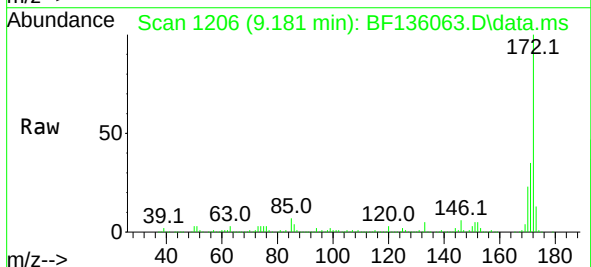


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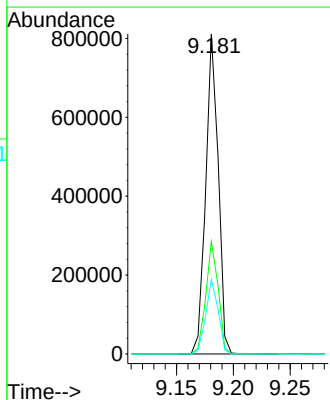
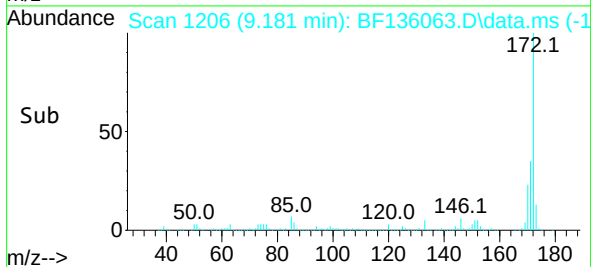
11/01/2023

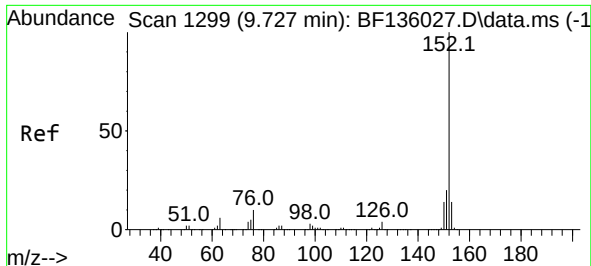


#45  
2-Fluorobiphenyl  
Concen: 55.564 ng  
RT: 9.181 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12



Tgt Ion:172 Resp: 619466  
Ion Ratio Lower Upper  
172 100  
171 35.1 29.4 44.0  
170 23.3 19.3 28.9





#49

Acenaphthylene

Concen: 4.105 ng

RT: 9.722 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

WC-3RE

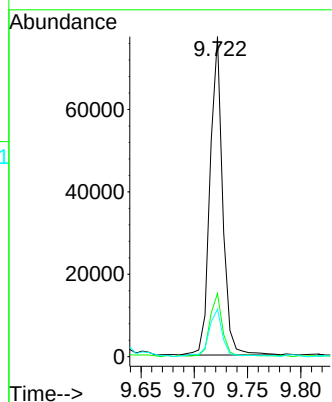
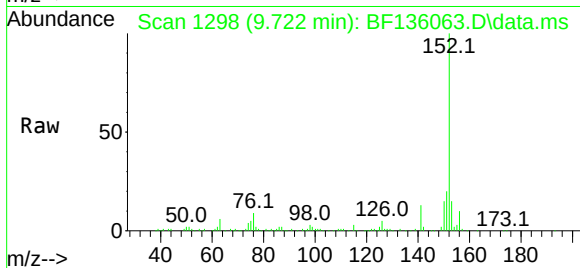
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 63954 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 16.1  | 24.1  |
| 153       | 14.8  | 11.4  | 17.2  |

Manual Integrations

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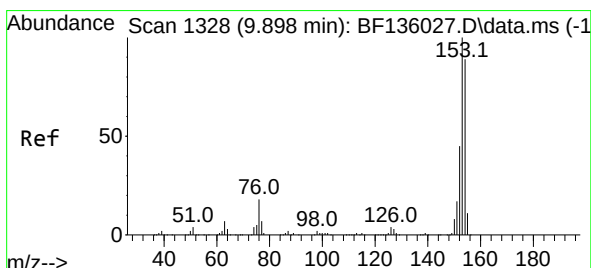
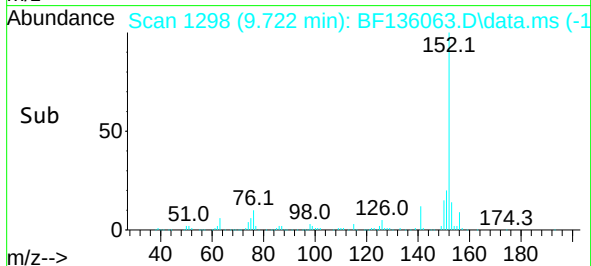
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11/01/2023



#52

Acenaphthene

Concen: 5.071 ng

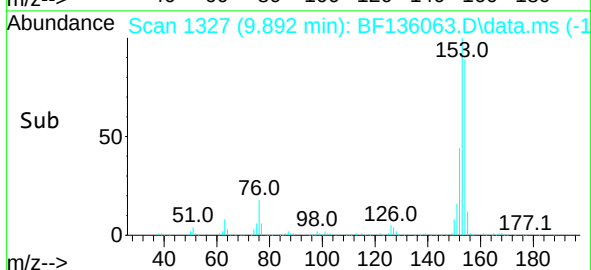
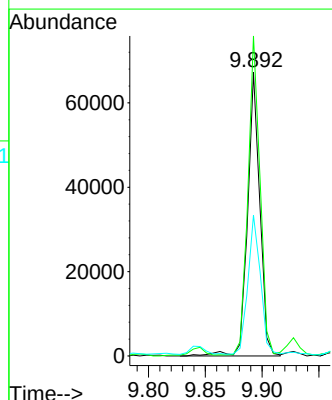
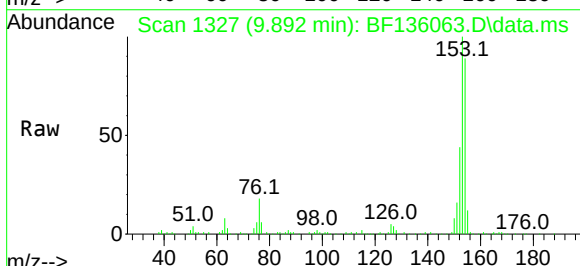
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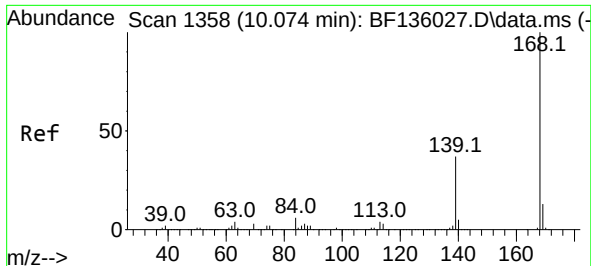
Delta R.T. -0.006 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

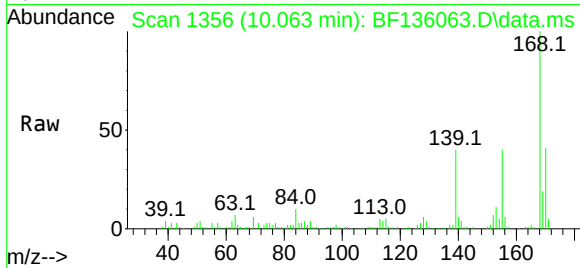
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 50227 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 112.8 | 89.9  | 134.9 |
| 152       | 49.7  | 40.2  | 60.2  |





#55  
Dibenzenofuran  
Concen: 2.782 ng  
RT: 10.063 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

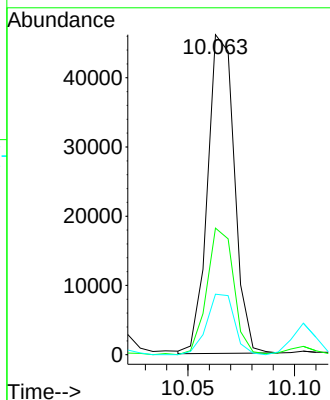
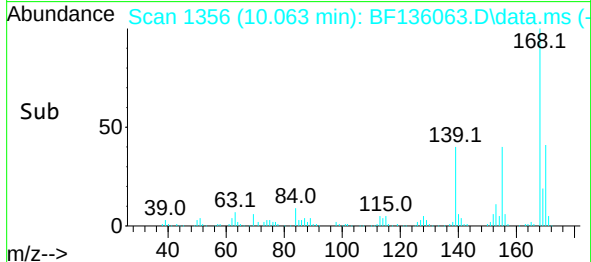
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3RE



Tgt Ion:168 Resp: 40179  
Ion Ratio Lower Upper  
168 100  
139 39.5 29.4 44.0  
169 18.9 10.5 15.7

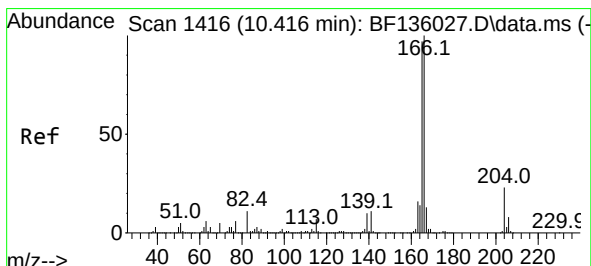
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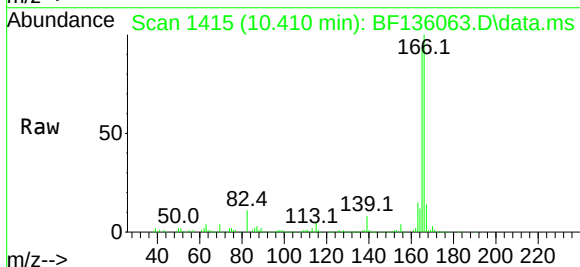


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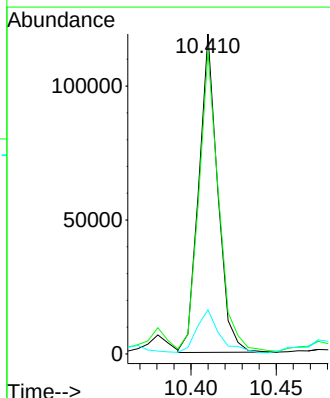
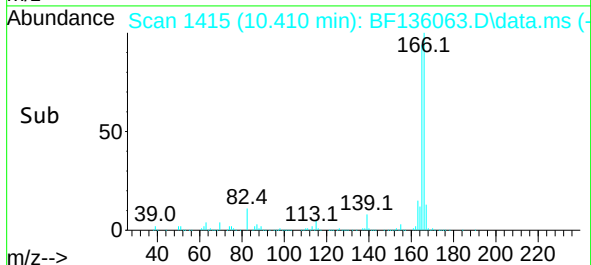
11/01/2023



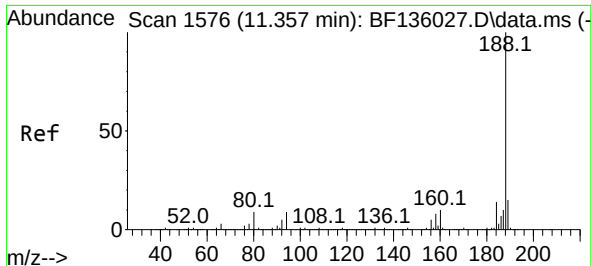
#58  
Fluorene  
Concen: 8.480 ng  
RT: 10.410 min Scan# 1415  
Delta R.T. -0.006 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12



Tgt Ion:166 Resp: 91701  
Ion Ratio Lower Upper  
166 100  
165 94.5 77.7 116.5  
167 13.8 10.6 16.0

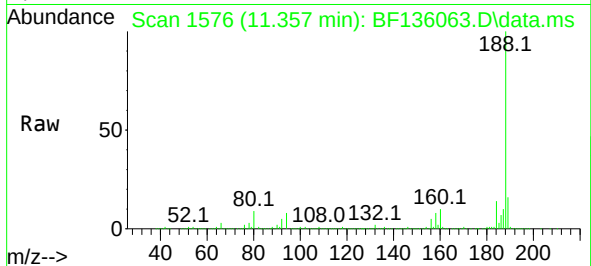






#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.357 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

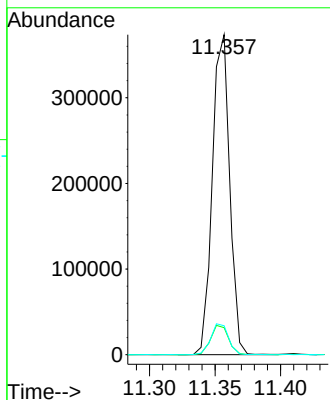
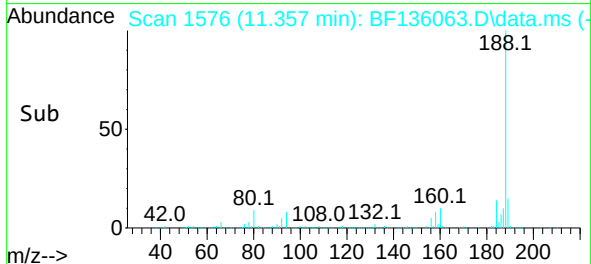
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3RE



Tgt Ion:188 Resp: 343784  
Ion Ratio Lower Upper  
188 100  
94 8.5 7.2 10.8  
80 9.1 7.4 11.0

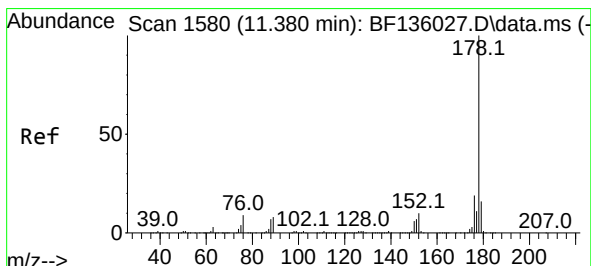
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/01/2023  
Supervised By :mohammad ahmed 11/01/2023



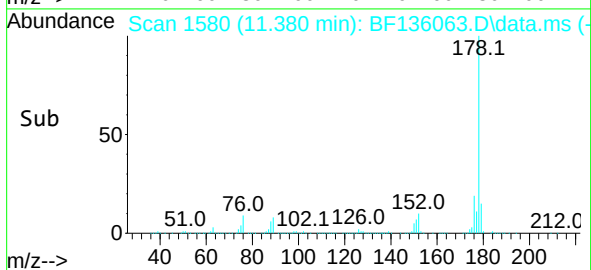
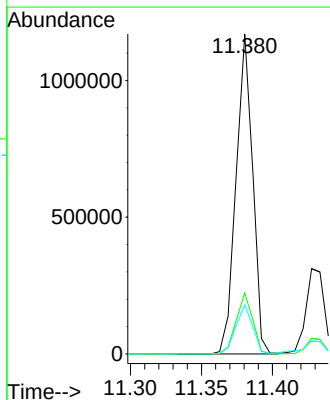
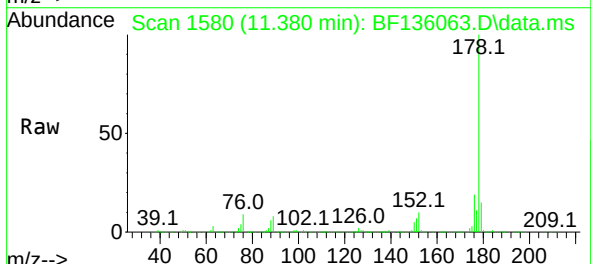
11/01/2023  
Supervised By :mohammad  
ahmed

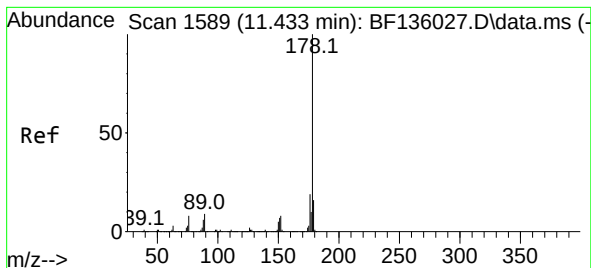
11/01/2023



#71  
Phenanthrene  
Concen: 55.066 ng  
RT: 11.380 min Scan# 1580  
Delta R.T. 0.000 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

Tgt Ion:178 Resp: 953173  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.5 23.3  
179 15.3 12.9 19.3





#72

Anthracene

Concen: 15.441 ng

RT: 11.428 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

WC-3RE

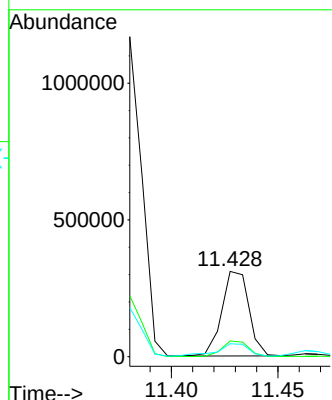
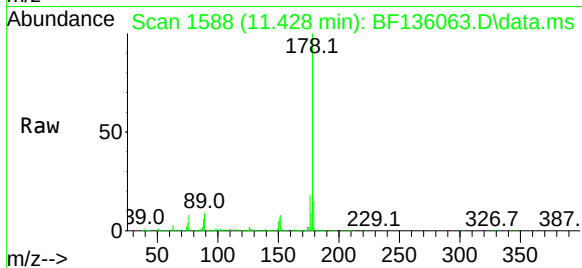
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 273870    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.4  | 15.0 22.4 |
| 179         | 15.2  | 12.6 18.8 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

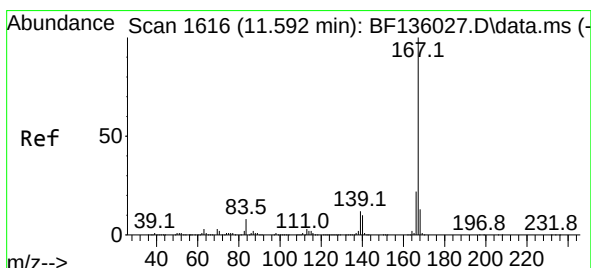
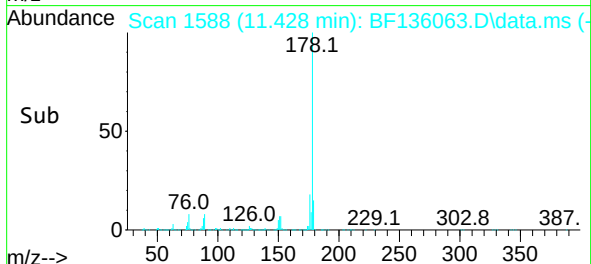
Supervised By :mohammad ahmed 11/01/2023



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Supervised By :mohammad ahmed

11/01/2023



#73

Carbazole

Concen: 3.287 ng

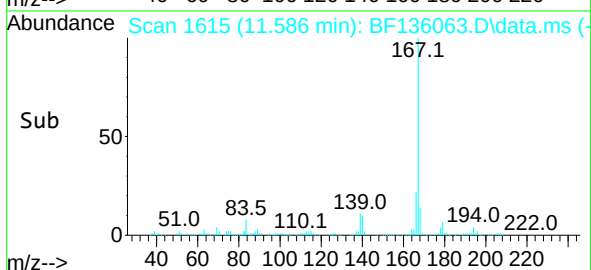
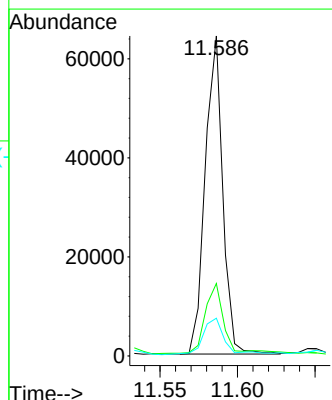
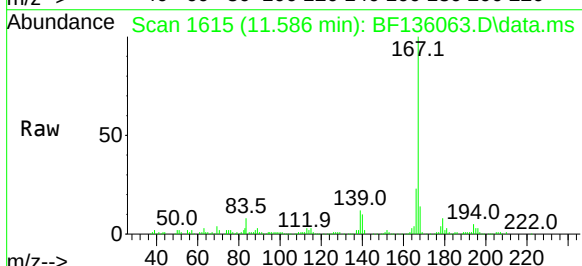
RT: 11.586 min Scan# 1615

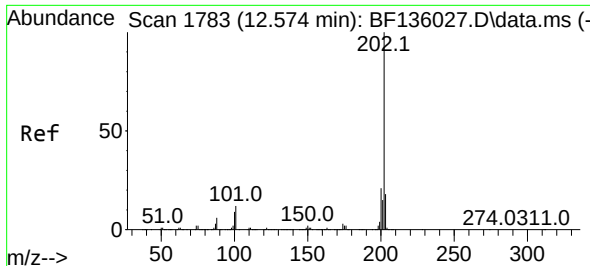
Delta R.T. -0.006 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

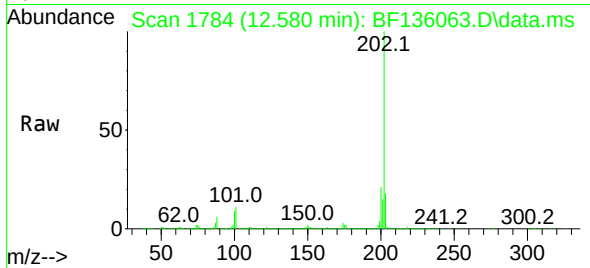
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 50663     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 22.7  | 17.2 25.8 |
| 139         | 11.8  | 9.9 14.9  |





#75  
Fluoranthene  
Concen: 83.309 ng  
RT: 12.580 min Scan# 1783  
Delta R.T. 0.006 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

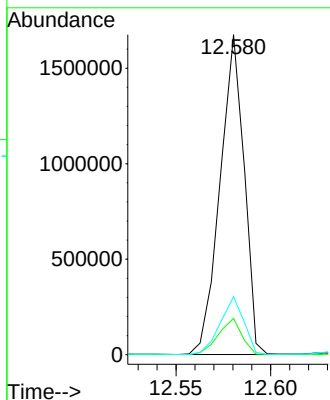
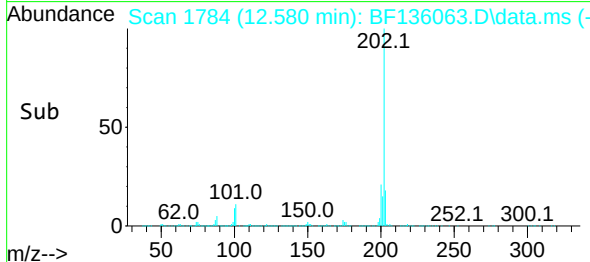
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3RE



Tgt Ion:202 Resp: 1481420  
Ion Ratio Lower Upper  
202 100  
101 11.4 0.0 31.8  
203 18.1 0.0 37.9

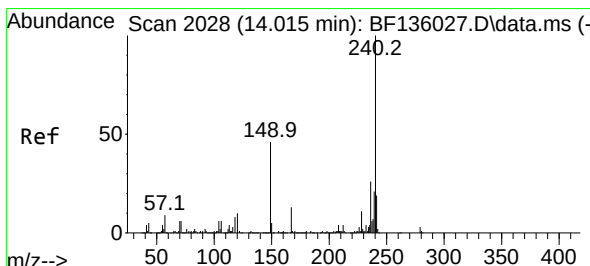
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/01/2023  
Supervised By :mohammad ahmed 11/01/2023



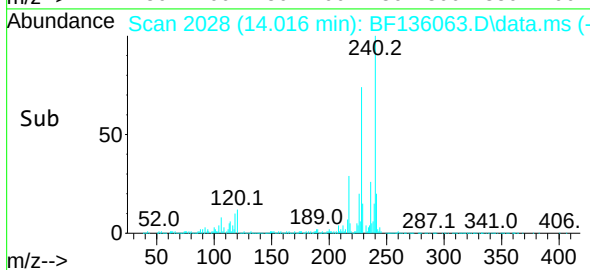
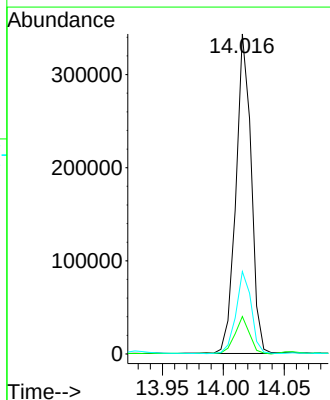
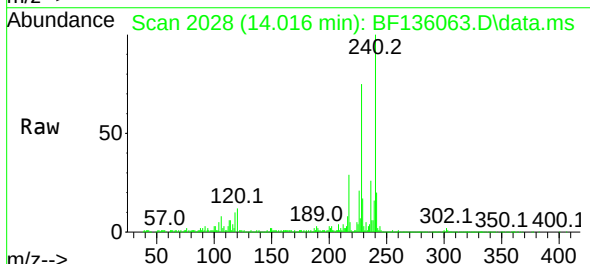
11/01/2023  
Supervised By :mohammad  
ahmed

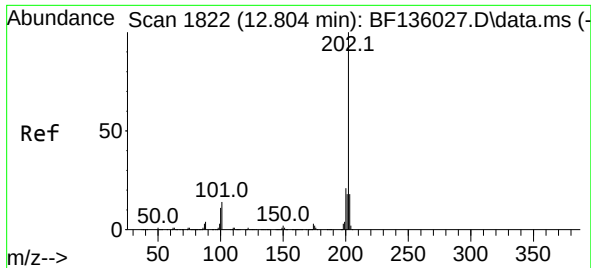
11/01/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.016 min Scan# 2028  
Delta R.T. 0.000 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

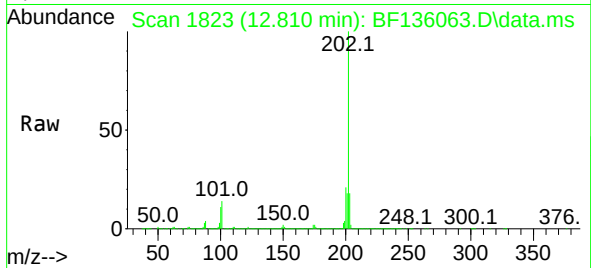
Tgt Ion:240 Resp: 299446  
Ion Ratio Lower Upper  
240 100  
120 11.7 7.6 11.4#  
236 25.7 20.6 31.0





#78  
Pyrene  
Concen: 52.474 ng  
RT: 12.810 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

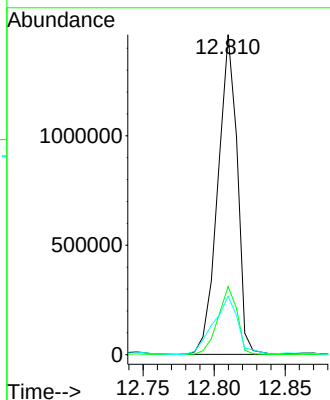
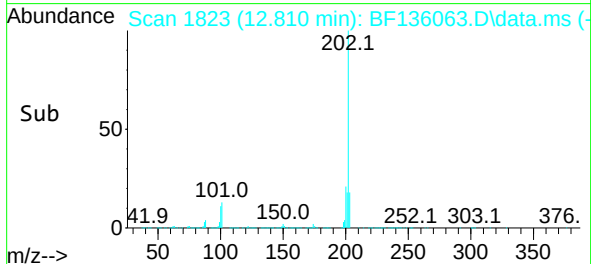
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3RE



Tgt Ion:202 Resp: 138533  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.0 25.4  
203 18.3 14.4 21.6

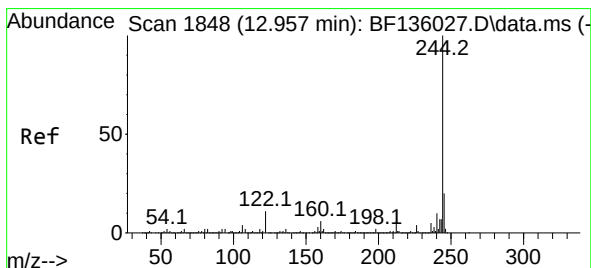
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/01/2023  
Supervised By :mohammad ahmed 11/01/2023



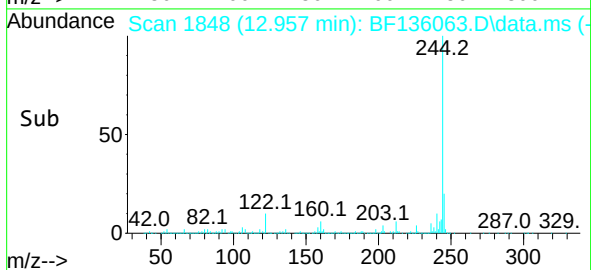
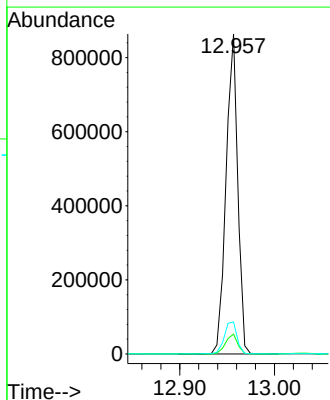
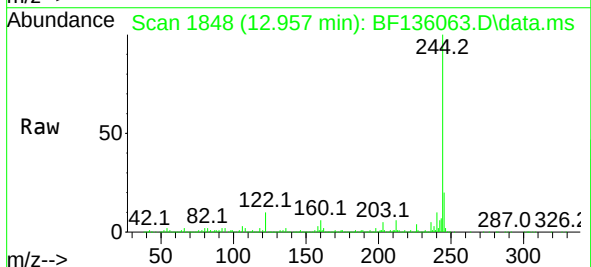
11/01/2023  
Supervised By :mohammad  
ahmed

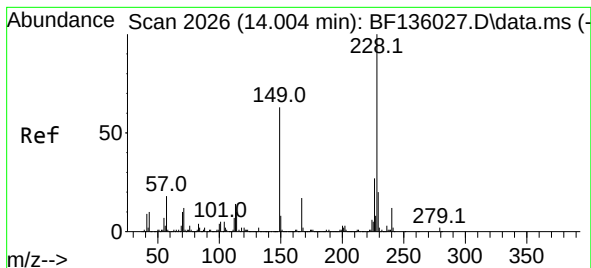
11/01/2023



#79  
Terphenyl-d14  
Concen: 38.547 ng  
RT: 12.957 min Scan# 1848  
Delta R.T. 0.000 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

Tgt Ion:244 Resp: 742755  
Ion Ratio Lower Upper  
244 100  
212 6.2 5.1 7.7  
122 10.0 8.6 12.8





#81

Benzo(a)anthracene

Concen: 39.168 ng

RT: 14.010 min Scan# 2026

Delta R.T. 0.006 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

Instrument :

BNF

ClientSampleId :

WC-3RE

Tgt Ion:228 Resp: 776479

Ion Ratio Lower Upper

228 100

226 29.2 21.5 32.3

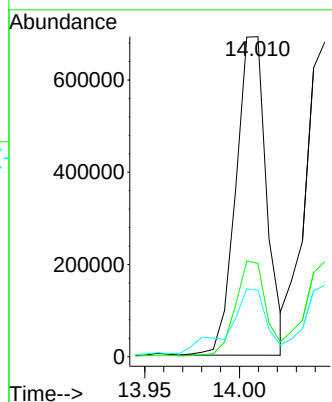
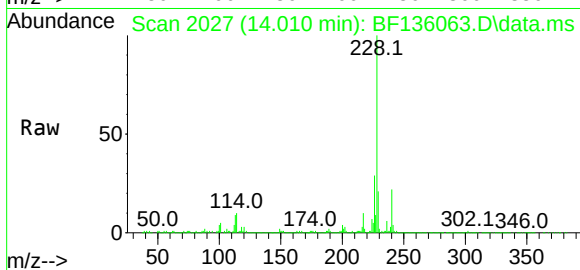
229 20.8 15.8 23.6

Manual Integrations

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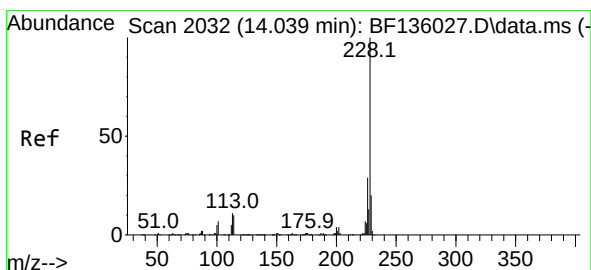
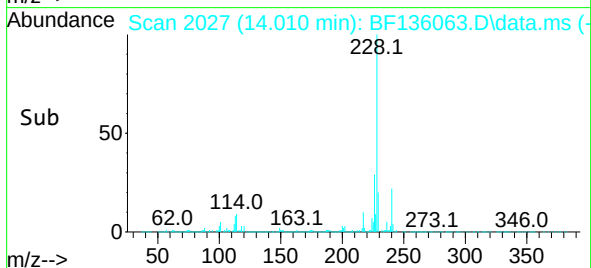
Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



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Supervised By :mohammad  
ahmed

11/01/2023



#83

Chrysene

Concen: 34.304 ng

RT: 14.045 min Scan# 2033

Delta R.T. 0.006 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

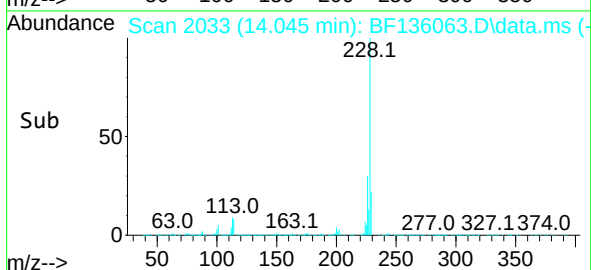
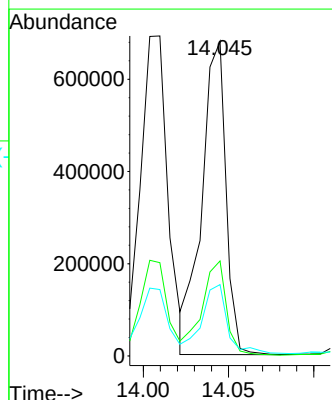
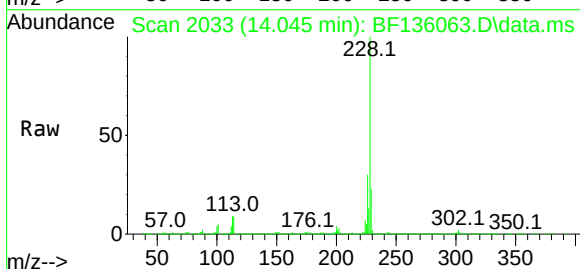
Tgt Ion:228 Resp: 669735

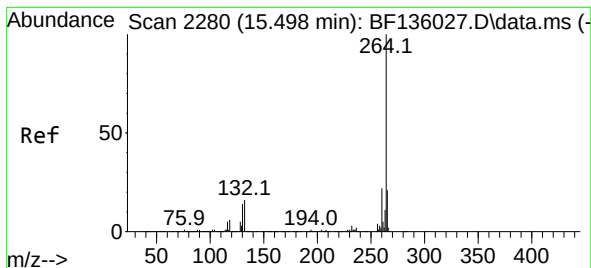
Ion Ratio Lower Upper

228 100

226 30.2 23.5 35.3

229 22.7 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

WC-3RE

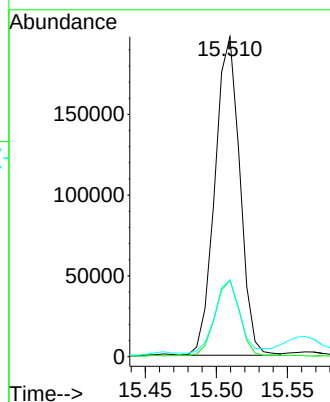
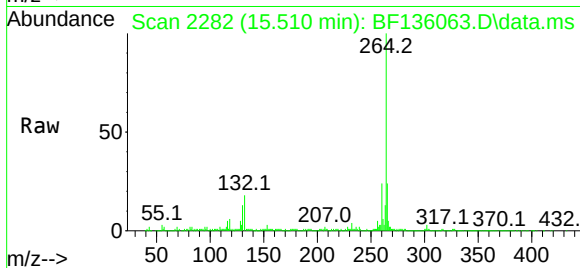
|             |             |
|-------------|-------------|
| Tgt Ion:264 | Resp: 24068 |
| Ion Ratio   | Lower Upper |
| 264 100     |             |
| 260 23.9    | 17.9 26.9   |
| 265 24.0    | 16.8 25.2   |

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

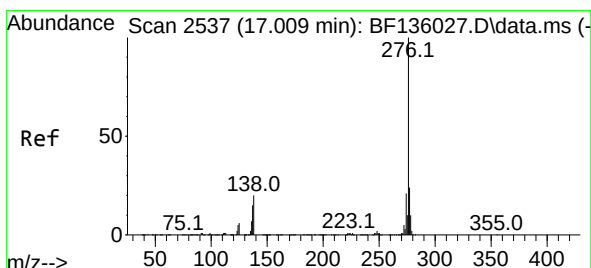
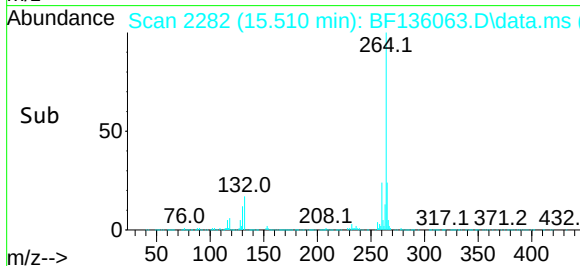
Supervised By :mohammad ahmed 11/01/2023



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Supervised By :mohammad ahmed

11/01/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 12.946 ng

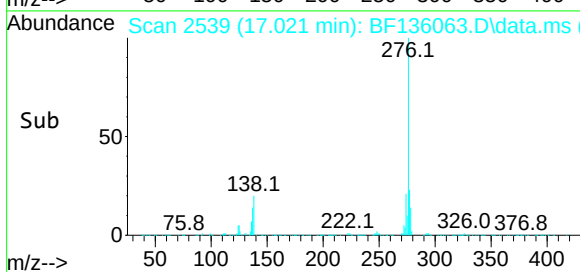
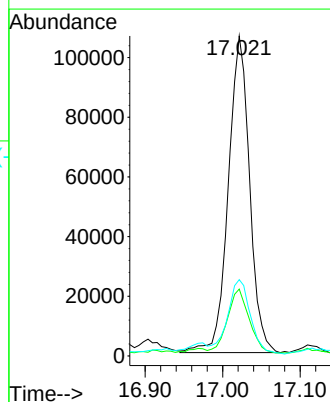
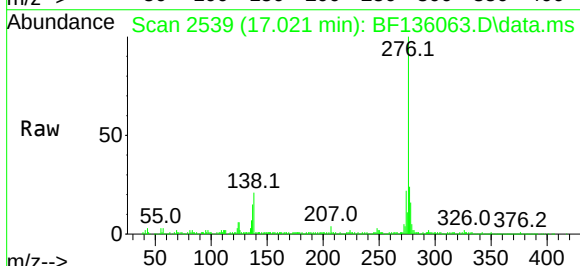
RT: 17.021 min Scan# 2539

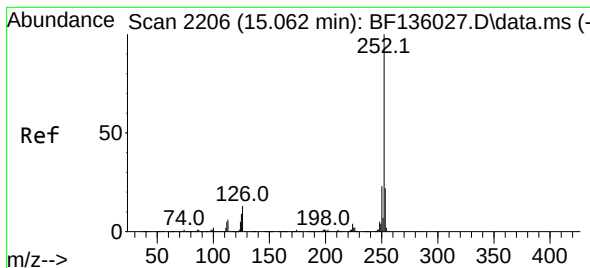
Delta R.T. 0.012 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

|             |              |
|-------------|--------------|
| Tgt Ion:276 | Resp: 203653 |
| Ion Ratio   | Lower Upper  |
| 276 100     |              |
| 138 20.6    | 20.4 30.6    |
| 277 25.2    | 20.2 30.2    |





#88

Benzo(b)fluoranthene

Concen: 46.221 ng m

RT: 15.074 min Scan# 2112

Delta R.T. 0.012 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

WC-3RE

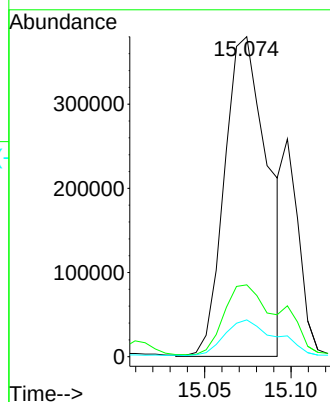
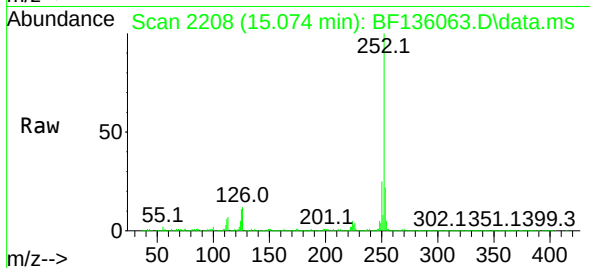
Tgt Ion:252 Resp: 658284  
 Ion Ratio Lower Upper  
 252 100  
 253 22.4 17.7 26.5  
 125 11.5 7.5 11.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

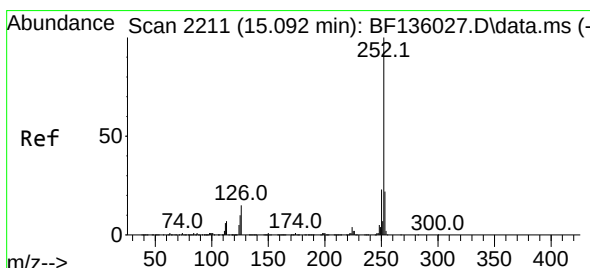
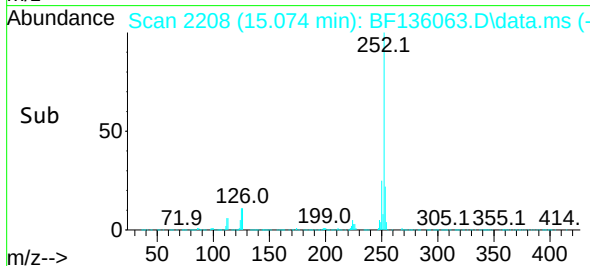
Supervised By :mohammad ahmed 11/01/2023



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11/01/2023



#89

Benzo(k)fluoranthene

Concen: 12.029 ng m

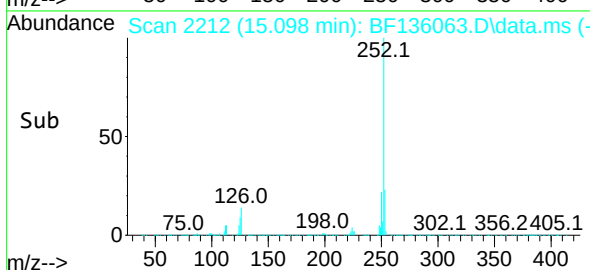
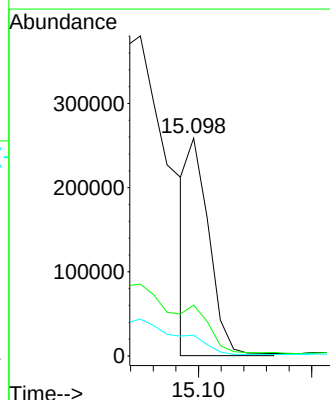
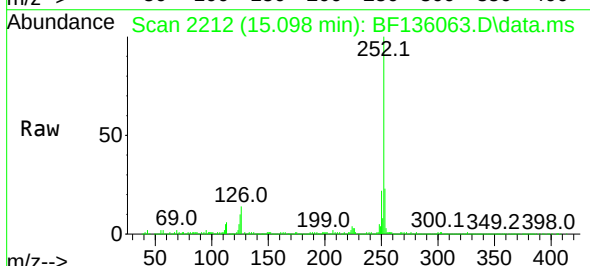
RT: 15.098 min Scan# 2212

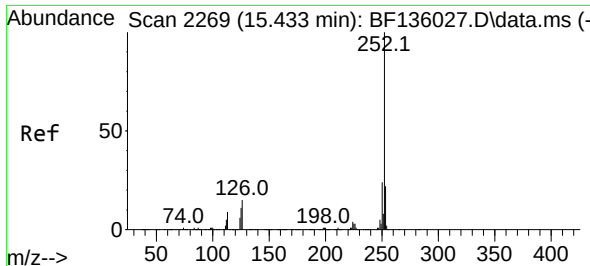
Delta R.T. 0.006 min

Lab File: BF136063.D

Acq: 31 Oct 2023 21:12

Tgt Ion:252 Resp: 169507  
 Ion Ratio Lower Upper  
 252 100  
 253 23.4 17.4 26.0  
 125 9.5 8.0 12.0





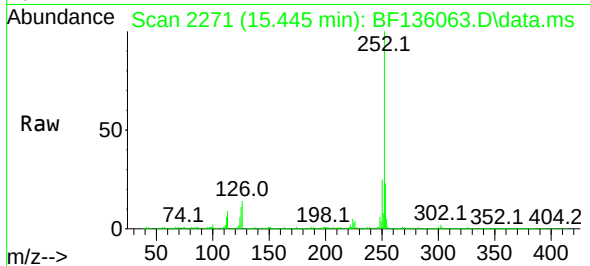
#90  
Benzo(a)pyrene  
Concen: 31.372 ng  
RT: 15.445 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

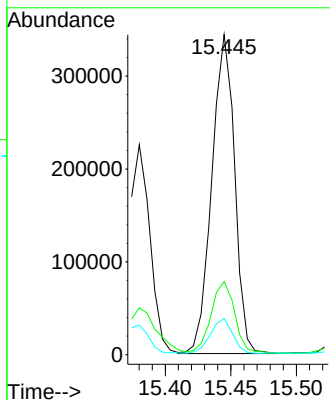
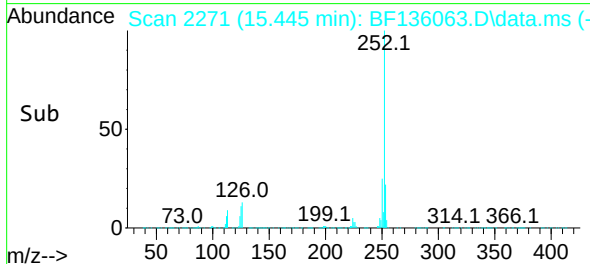
WC-3RE



Tgt Ion:252 Resp: 41514  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.3 25.9  
125 11.4 9.0 13.6

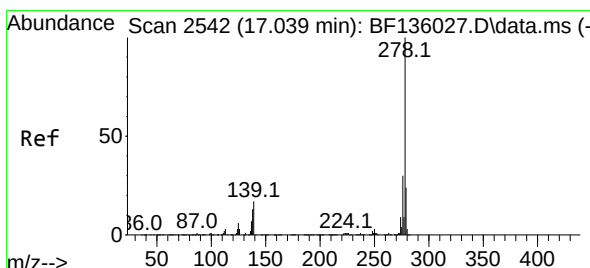
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/01/2023  
Supervised By :mohammad ahmed 11/01/2023



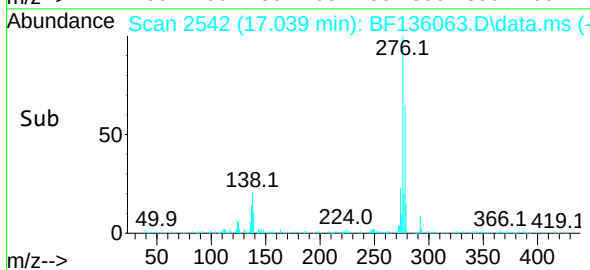
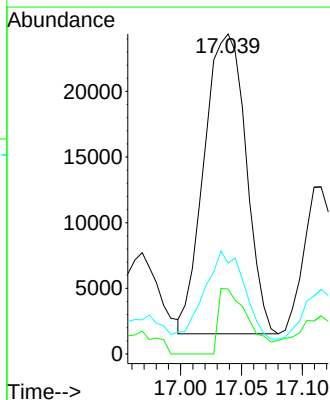
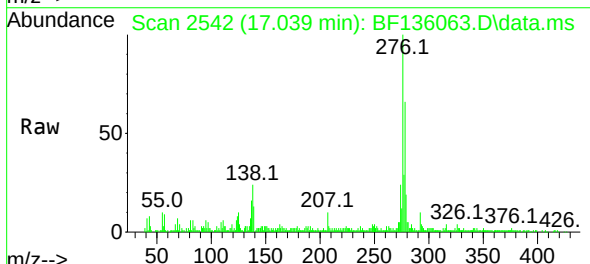
11/01/2023  
Supervised By :mohammad  
ahmed

11/01/2023

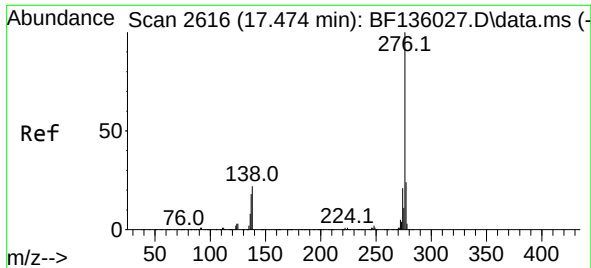


#91  
Dibenzo(a,h)anthracene  
Concen: 4.236 ng  
RT: 17.039 min Scan# 2542  
Delta R.T. 0.000 min  
Lab File: BF136063.D  
Acq: 31 Oct 2023 21:12

Tgt Ion:278 Resp: 54583  
Ion Ratio Lower Upper  
278 100  
139 20.3 13.7 20.5  
279 28.4 19.0 28.6







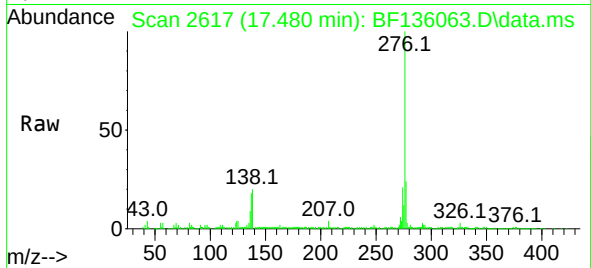
#92  
 Benzo(g,h,i)perylene  
 Concen: 14.362 ng  
 RT: 17.480 min Scan# 20  
 Delta R.T. 0.006 min  
 Lab File: BF136063.D  
 Acq: 31 Oct 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

WC-3RE



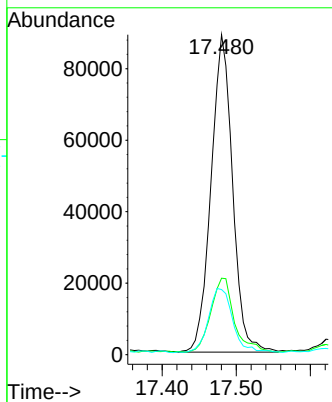
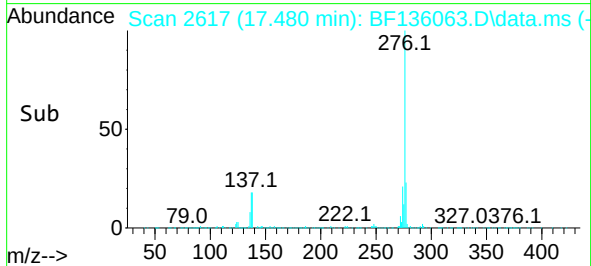
Tgt Ion:276 Resp: 17902  
 Ion Ratio Lower Upper  
 276 100  
 277 23.9 19.0 28.4  
 138 20.4 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



11/01/2023

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ahmed

11/01/2023