

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102422\  
 Data File : BF130761.D  
 Acq On : 24 Oct 2022 14:58  
 Operator : CG\JU  
 Sample : N5209-01DL 10X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-101922DL

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 10/25/2022  
 Supervised By :mohammad ahmed 10/27/2022

Quant Time: Oct 24 17:31:16 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102022.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 21 06:12:36 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.563  | 152  | 75999    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.845  | 136  | 278716   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.592  | 164  | 126154   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.074 | 188  | 179272   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.710 | 240  | 178351   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.092 | 264  | 194718   | 20.000 | ng    | 0.01     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.192  | 112  | 32264    | 7.321  | ng    | 0.03     |
| 7) Phenol-d6                | 6.245  | 99   | 41422    | 7.768  | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.139  | 82   | 26188    | 4.984  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.386 | 330  | 6883     | 5.737  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 8.922  | 172  | 52059    | 6.289  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.651 | 244  | 49444    | 4.672  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 52) Acenaphthene            | 9.622  | 154  | 14788    | 2.207  | ng    | 93       |
| 58) Fluorene                | 10.139 | 166  | 21708    | 2.530  | ng    | 96       |
| 71) Phenanthrene            | 11.098 | 178  | 259538   | 26.401 | ng    | 99       |
| 72) Anthracene              | 11.151 | 178  | 79750    | 8.129  | ng    | 99       |
| 73) Carbazole               | 11.316 | 167  | 31587    | 3.487  | ng    | 96       |
| 75) Fluoranthene            | 12.286 | 202  | 718783   | 72.323 | ng    | 99       |
| 78) Pyrene                  | 12.515 | 202  | 657007   | 43.887 | ng    | 100      |
| 81) Benzo(a)anthracene      | 13.698 | 228  | 395870   | 33.219 | ng    | 99       |
| 83) Chrysene                | 13.739 | 228  | 335741   | 29.077 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.386 | 276  | 160674   | 11.505 | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 14.715 | 252  | 443410m  | 34.201 | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.733 | 252  | 141785m  | 10.885 | ng    |          |
| 90) Benzo(a)pyrene          | 15.039 | 252  | 308906   | 29.665 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 16.386 | 278  | 39626    | 3.434  | ng    | # 83     |
| 92) Benzo(g,h,i)perylene    | 16.774 | 276  | 140614   | 12.150 | ng    | 99       |
| -----                       |        |      |          |        |       |          |

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

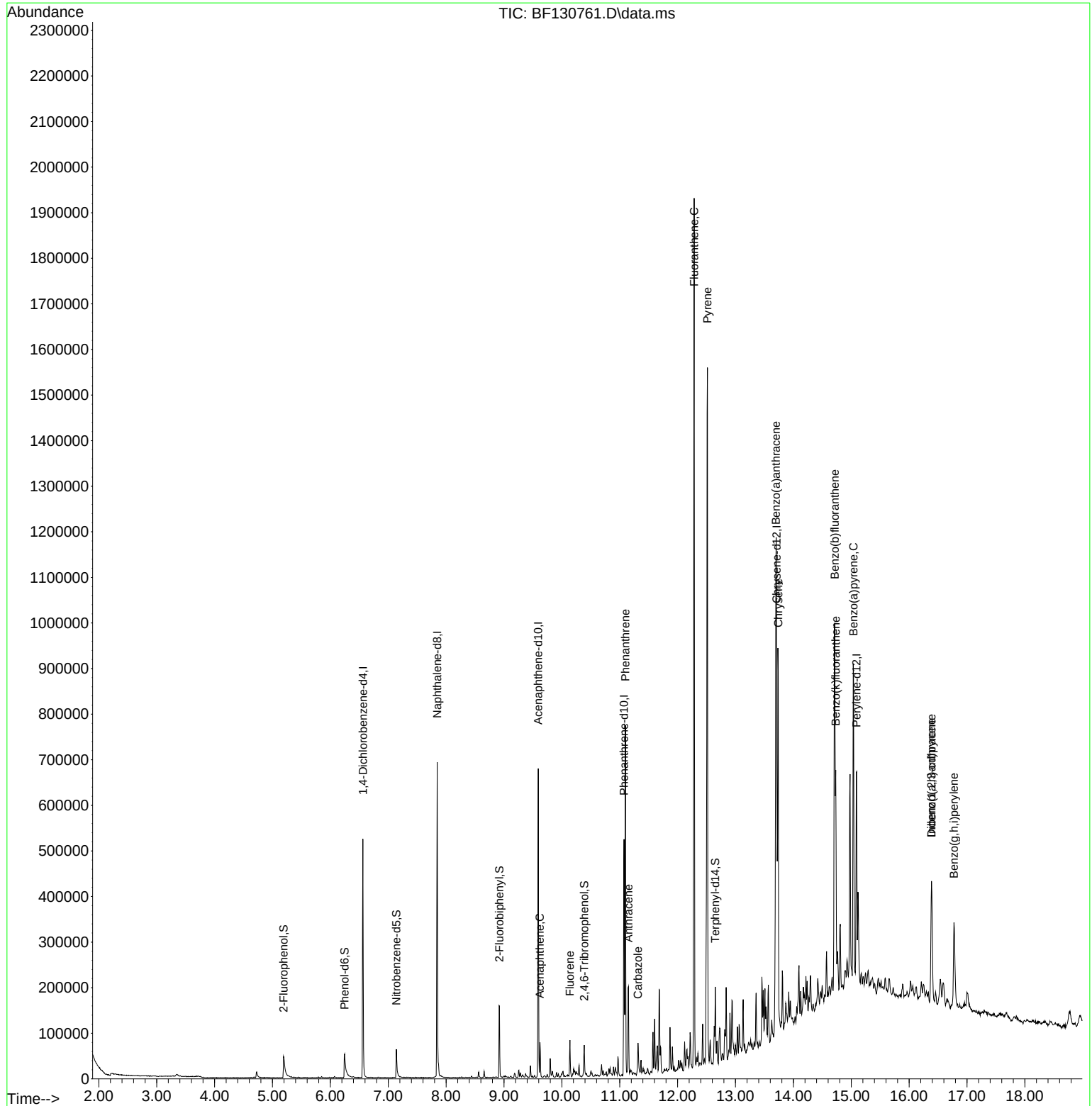
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102422\  
Data File : BF130761.D  
Acq On : 24 Oct 2022 14:58  
Operator : CG\JU  
Sample : N5209-01DL 10X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

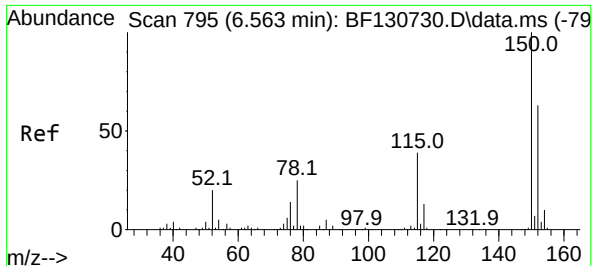
Instrument :  
BNA\_F  
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CL-02-101922DL

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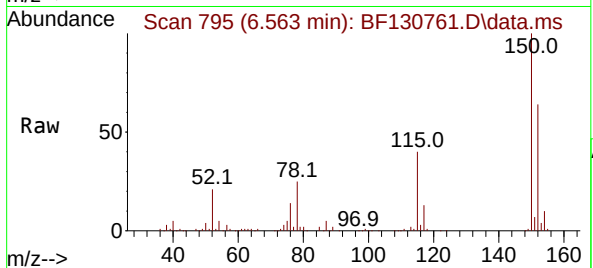
Quant Time: Oct 24 17:31:16 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102022.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 21 06:12:36 2022  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.563 min Scan# 795  
Delta R.T. -0.000 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

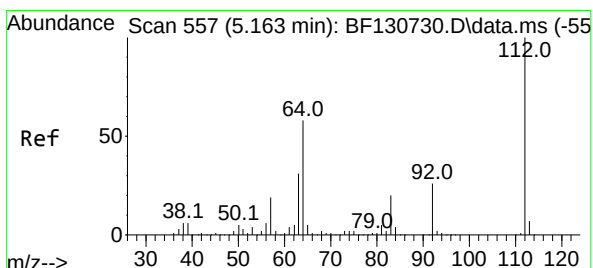
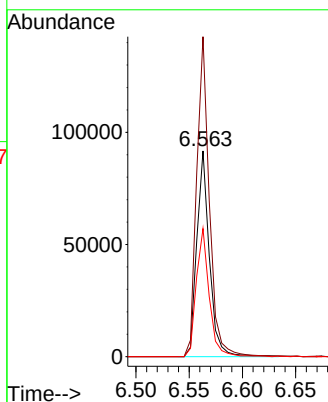
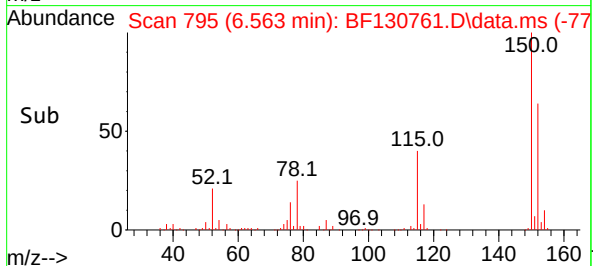
Instrument :  
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ClientSampleId :  
CL-02-101922DL



Tgt Ion:152 Resp: 75998  
Ion Ratio Lower Upper  
152 100  
150 155.5 127.0 190.6  
115 62.3 49.9 74.9

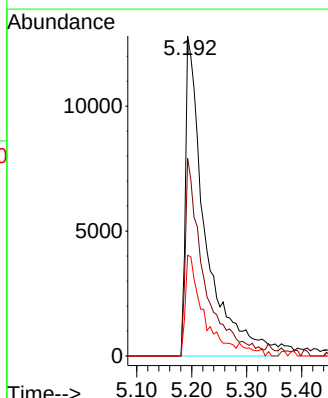
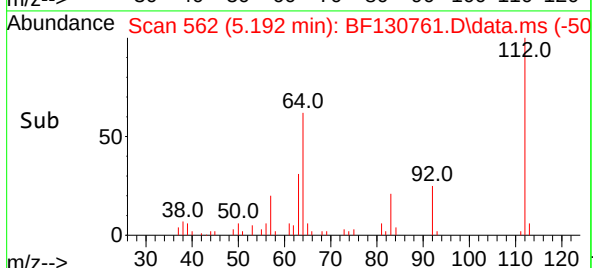
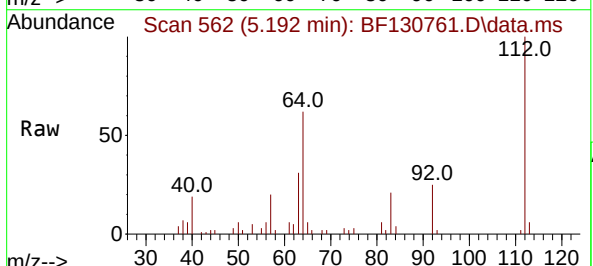
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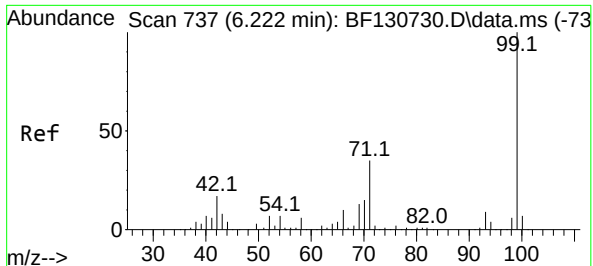
Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022



#5  
2-Fluorophenol  
Concen: 7.321 ng  
RT: 5.192 min Scan# 562  
Delta R.T. 0.029 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

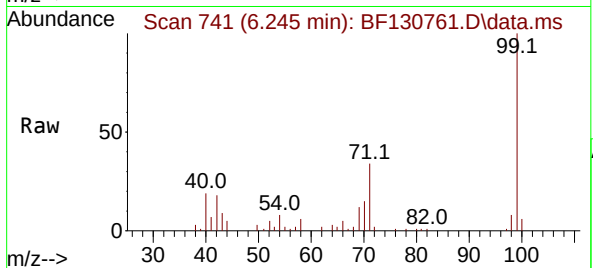
Tgt Ion:112 Resp: 32264  
Ion Ratio Lower Upper  
112 100  
64 61.7 46.2 69.4  
63 31.5 25.1 37.7





#7  
Phenol-d6  
Concen: 7.768 ng  
RT: 6.245 min Scan# 741  
Delta R.T. 0.023 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

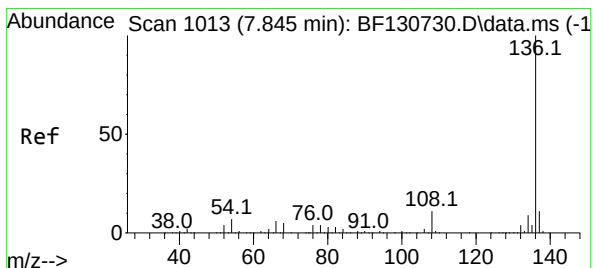
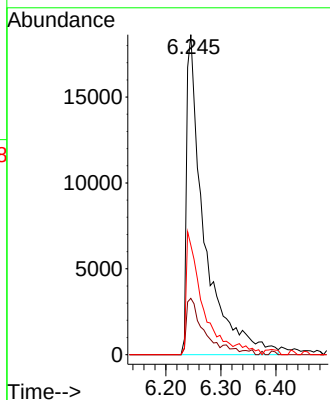
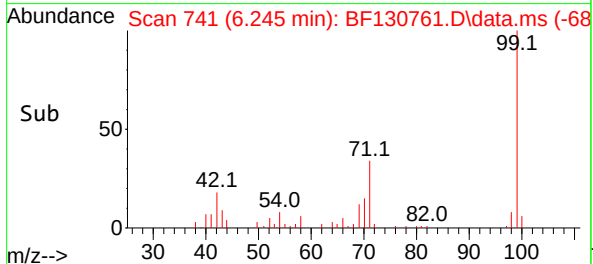
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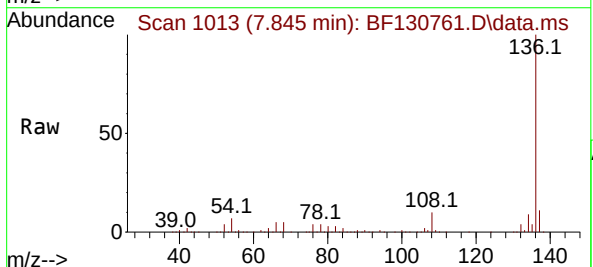
Tgt Ion: 99 Resp: 4142  
Ion Ratio Lower Upper  
99 100  
42 17.6 13.8 20.8  
71 34.2 28.3 42.5

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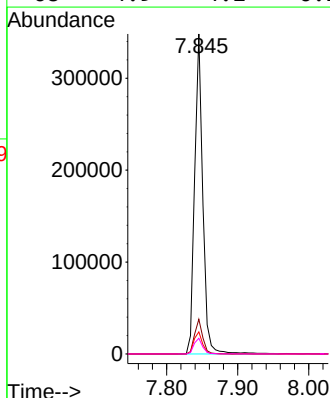
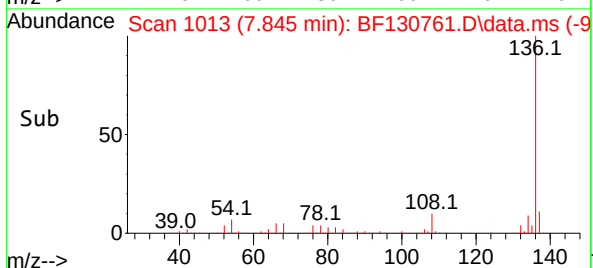
Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022

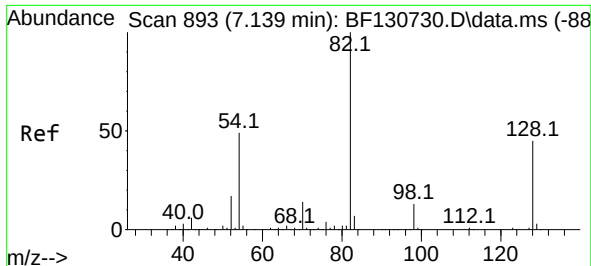


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.845 min Scan# 1013  
Delta R.T. 0.000 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58



Tgt Ion:136 Resp: 278716  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.1 13.7  
54 6.9 5.8 8.8  
68 4.9 4.2 6.2





#23  
Nitrobenzene-d5  
Concen: 4.984 ng  
RT: 7.139 min Scan# 893  
Delta R.T. 0.000 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

Instrument :

BNA\_F

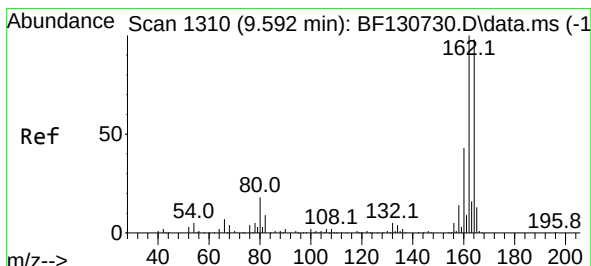
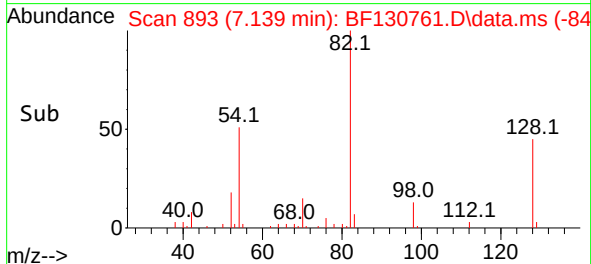
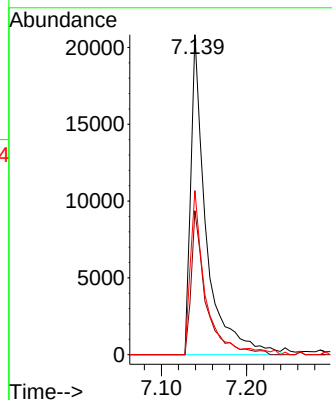
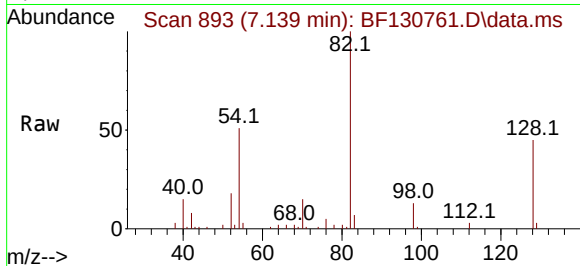
ClientSampleId :

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Tgt Ion: 82 Resp: 2618  
Ion Ratio Lower Upper  
82 100  
128 45.0 35.9 53.9  
54 51.3 39.2 58.8

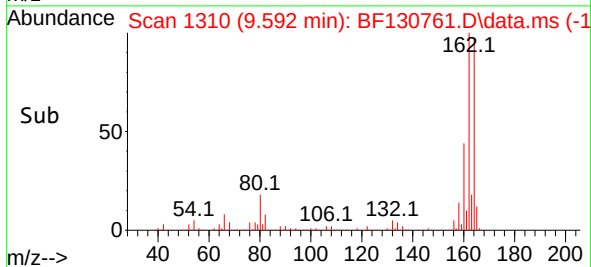
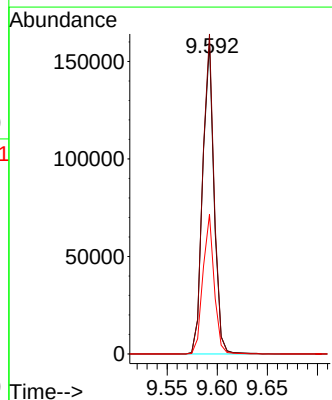
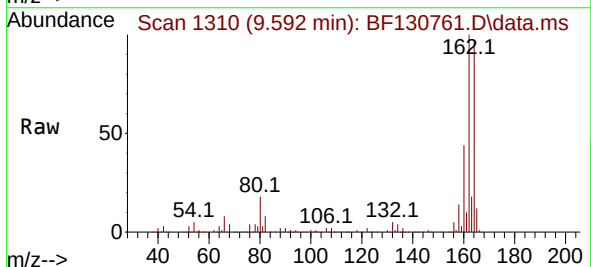
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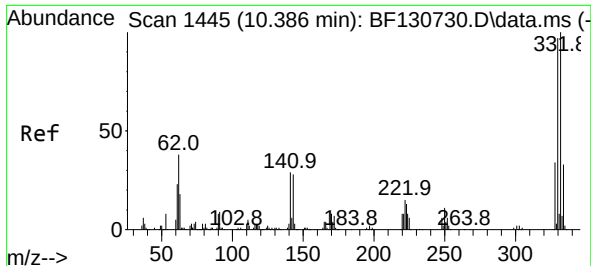
Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.592 min Scan# 1310  
Delta R.T. 0.000 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

Tgt Ion:164 Resp: 126154  
Ion Ratio Lower Upper  
164 100  
162 102.8 81.4 122.0  
160 44.8 35.0 52.4





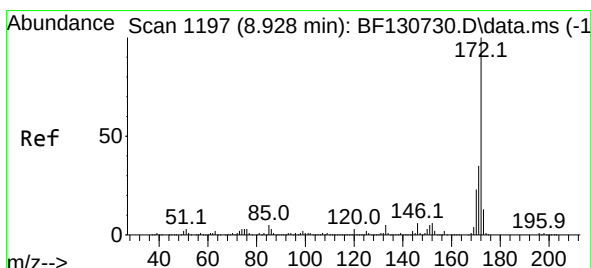
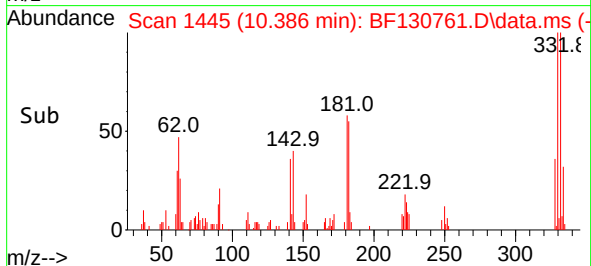
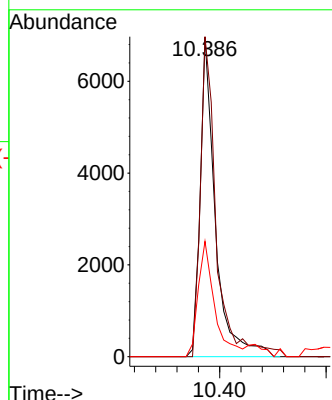
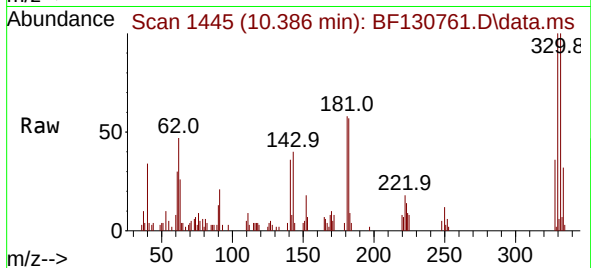
#42  
2,4,6-Tribromophenol  
Concen: 5.737 ng  
RT: 10.386 min Scan# 1445  
Delta R.T. 0.000 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

Instrument :  
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CL-02-101922DL

Tgt Ion: 330 Resp: 688  
Ion Ratio Lower Upper  
330 100  
332 105.1 81.4 122.2  
141 39.4 24.6 37.0

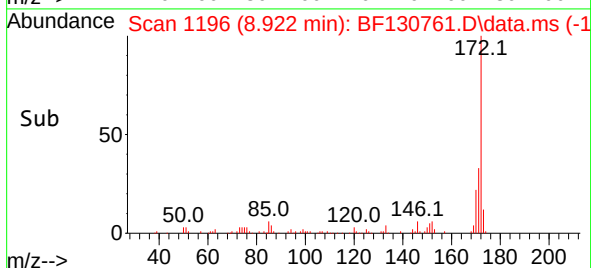
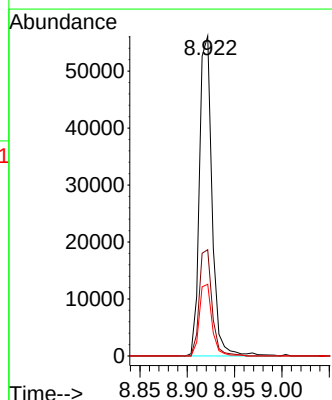
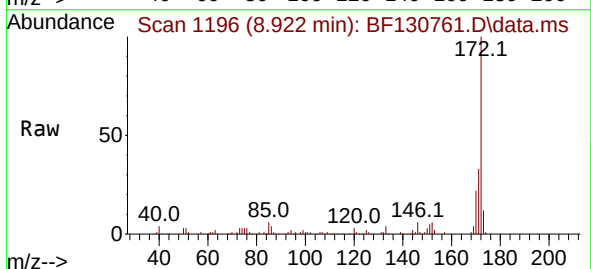
Manual Integrations  
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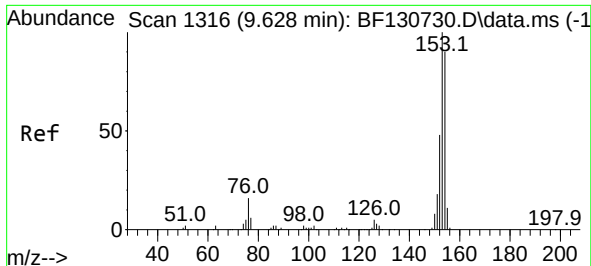
Reviewed By : Christian Giraldo 10/25/2022  
Supervised By : mohammad ahmed 10/27/2022



#45  
2-Fluorobiphenyl  
Concen: 6.289 ng  
RT: 8.922 min Scan# 1196  
Delta R.T. -0.006 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

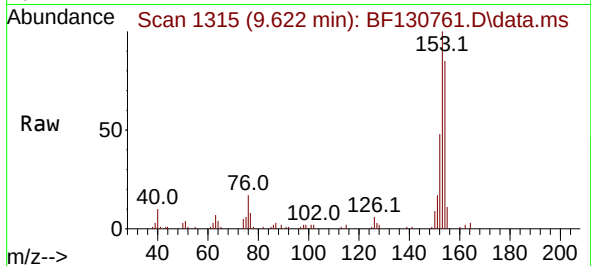
Tgt Ion: 172 Resp: 52059  
Ion Ratio Lower Upper  
172 100  
171 33.2 28.2 42.2  
170 22.4 18.5 27.7





#52  
Acenaphthene  
Concen: 2.207 ng  
RT: 9.622 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

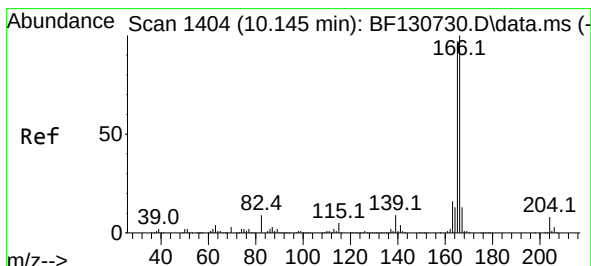
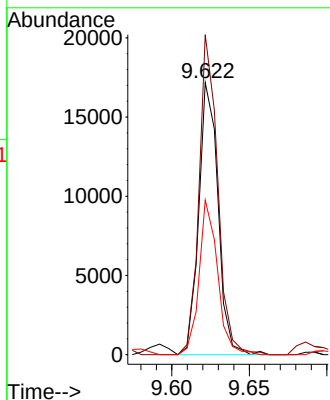
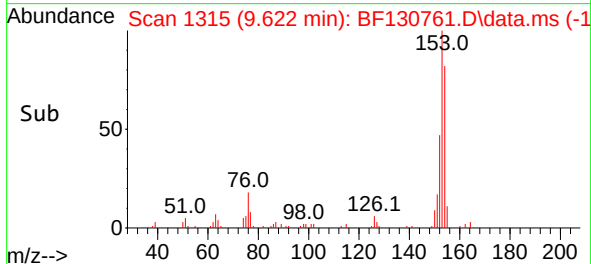
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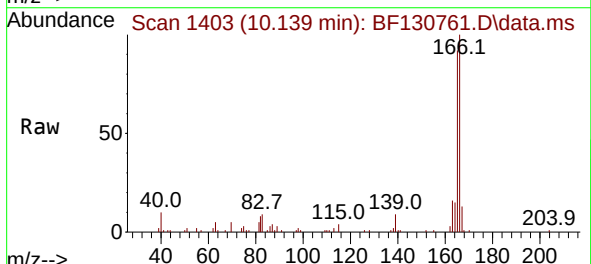
Tgt Ion:154 Resp: 1478  
Ion Ratio Lower Upper  
154 100  
153 117.6 88.4 132.6  
152 56.9 42.0 63.0

Manual Integrations  
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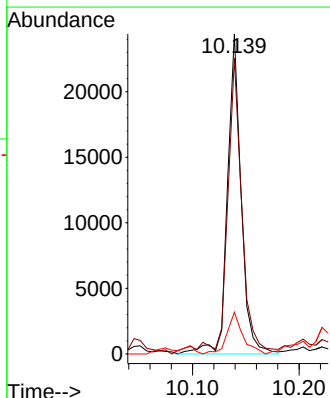
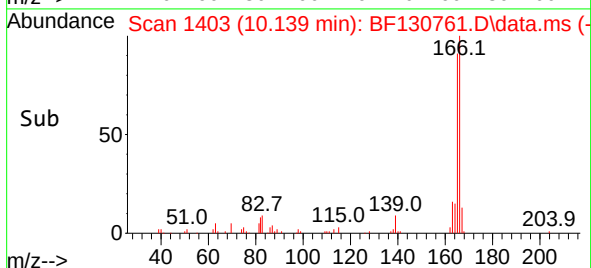
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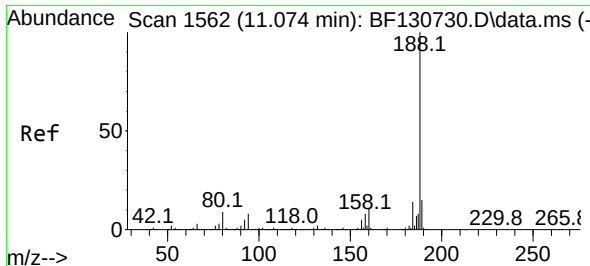


#58  
Fluorene  
Concen: 2.530 ng  
RT: 10.139 min Scan# 1403  
Delta R.T. -0.006 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58



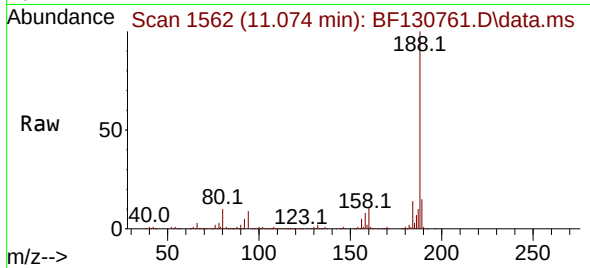
Tgt Ion:166 Resp: 21708  
Ion Ratio Lower Upper  
166 100  
165 92.4 77.6 116.4  
167 13.0 10.3 15.5





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.074 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

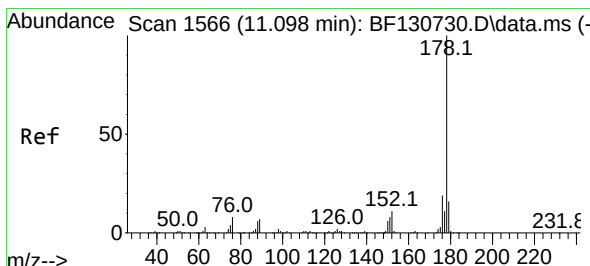
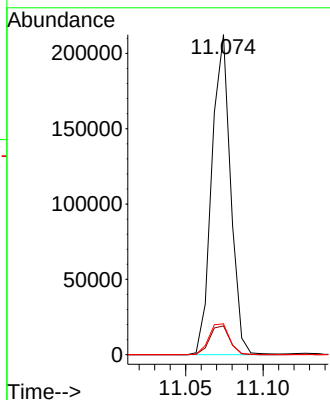
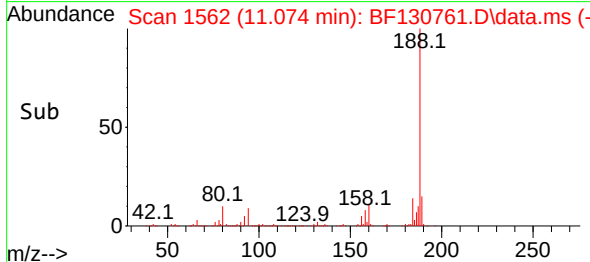
Instrument :  
BNA\_F  
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CL-02-101922DL



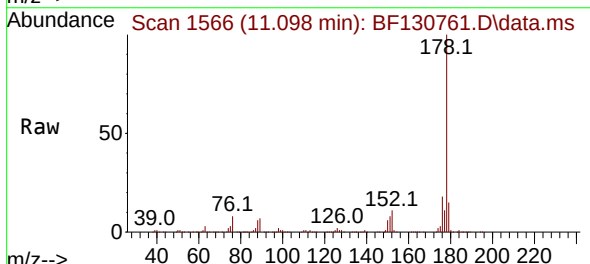
Tgt Ion:188 Resp: 179272  
Ion Ratio Lower Upper  
188 100  
94 9.0 6.7 10.1  
80 9.7 7.4 11.0

Manual Integrations  
APPROVED

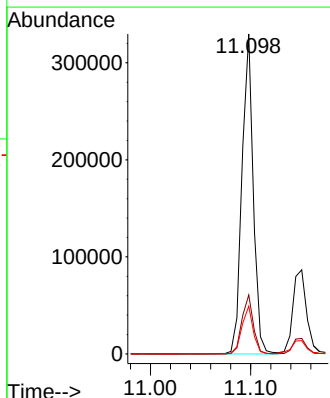
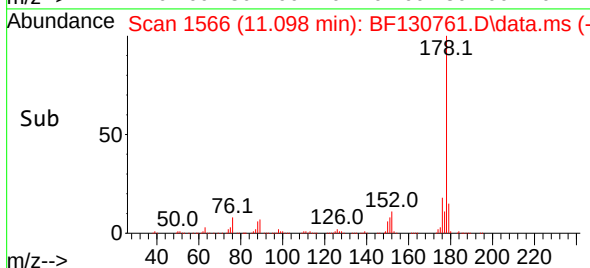
Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022



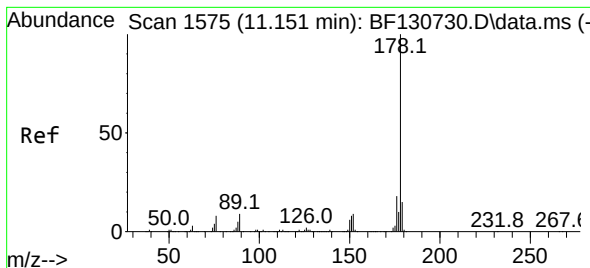
#71  
Phenanthrene  
Concen: 26.401 ng  
RT: 11.098 min Scan# 1566  
Delta R.T. -0.000 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58



Tgt Ion:178 Resp: 259538  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.1 22.7  
179 15.0 12.4 18.6







#72

Anthracene

Concen: 8.129 ng

RT: 11.151 min Scan# 1575

Delta R.T. -0.000 min

Lab File: BF130761.D

Acq: 24 Oct 2022 14:58

Instrument :

BNA\_F

ClientSampleId :

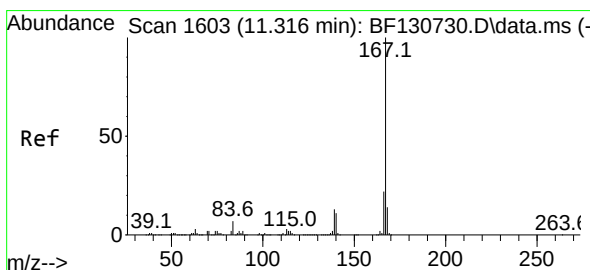
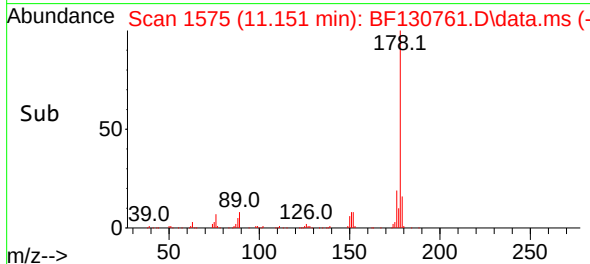
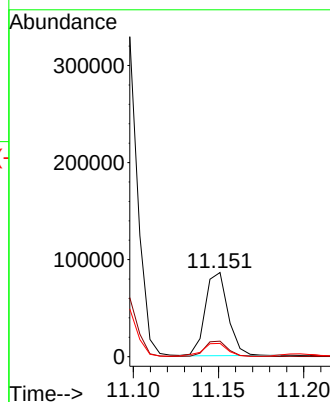
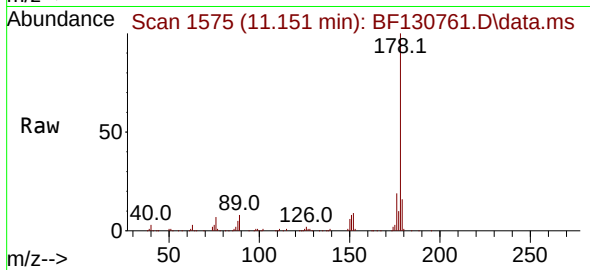
CL-02-101922DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 79750 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.5  | 14.6  | 21.8  |
| 179       | 15.8  | 12.4  | 18.6  |

Manual Integrations

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Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022



#73

Carbazole

Concen: 3.487 ng

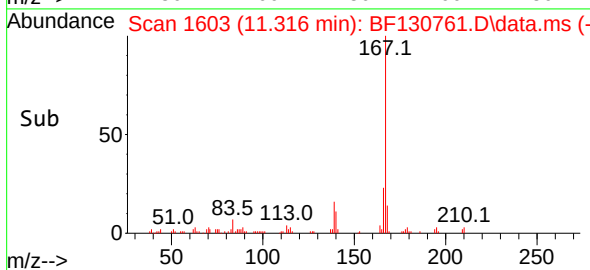
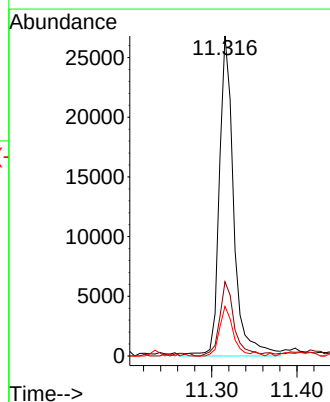
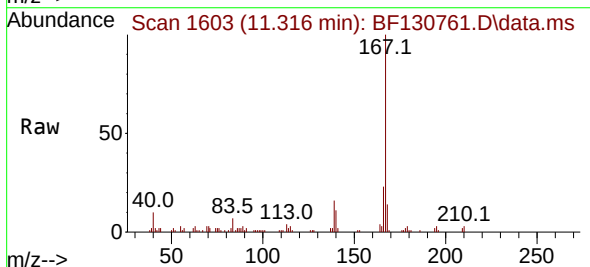
RT: 11.316 min Scan# 1603

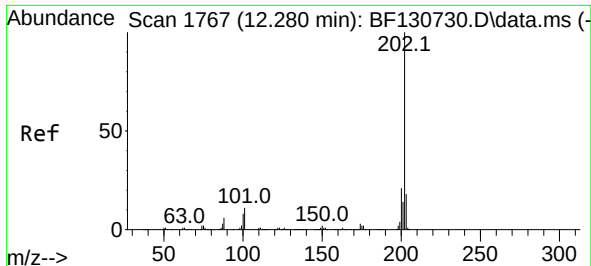
Delta R.T. -0.000 min

Lab File: BF130761.D

Acq: 24 Oct 2022 14:58

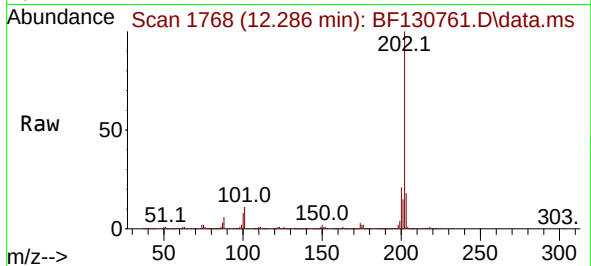
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 31587 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 23.2  | 17.3  | 25.9  |
| 139       | 15.5  | 10.7  | 16.1  |





#75  
Fluoranthene  
Concen: 72.323 ng  
RT: 12.286 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

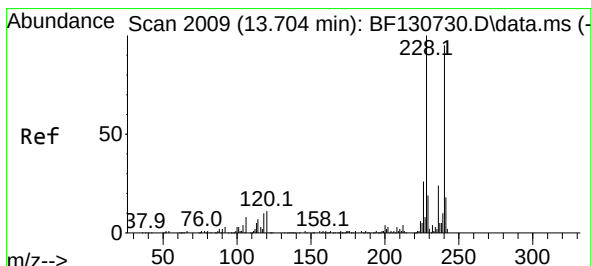
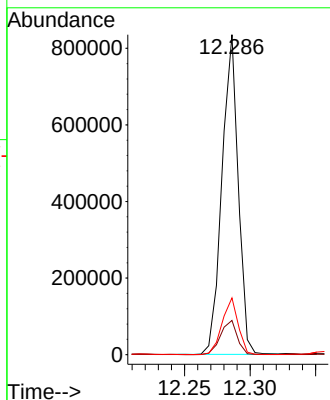
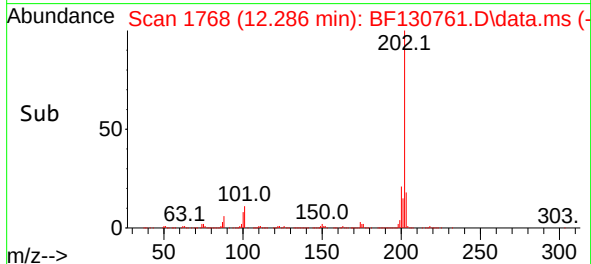
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101922DL



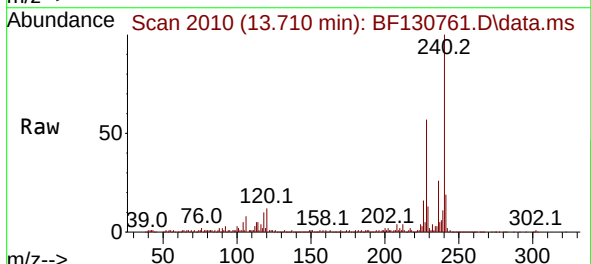
Tgt Ion:202 Resp: 71878  
Ion Ratio Lower Upper  
202 100  
101 10.7 0.0 31.0  
203 17.7 0.0 37.6

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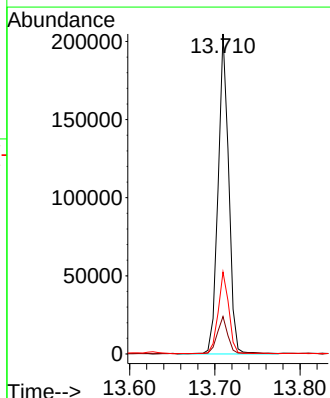
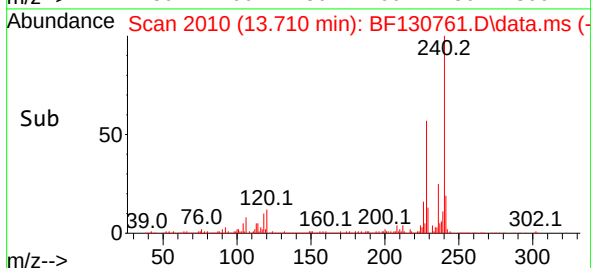
Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022

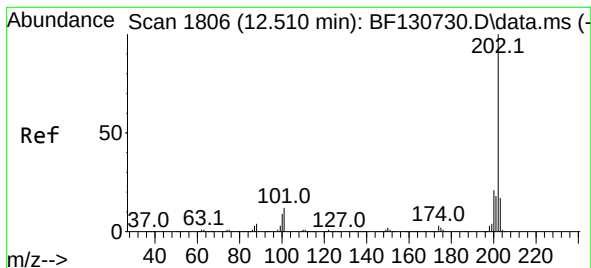


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.710 min Scan# 2010  
Delta R.T. 0.006 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58



Tgt Ion:240 Resp: 178351  
Ion Ratio Lower Upper  
240 100  
120 11.7 9.6 14.4  
236 25.6 20.2 30.2





#78

Pyrene

Concen: 43.887 ng

RT: 12.515 min Scan# 1807

Delta R.T. 0.006 min

Lab File: BF130761.D

Acq: 24 Oct 2022 14:58

Instrument :

BNA\_F

ClientSampleId :

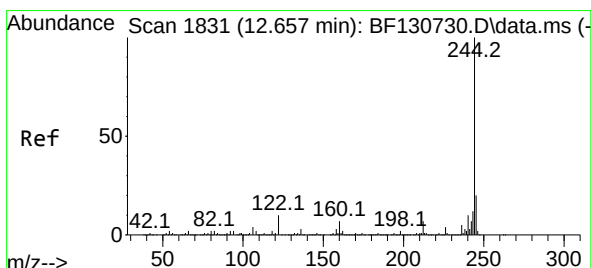
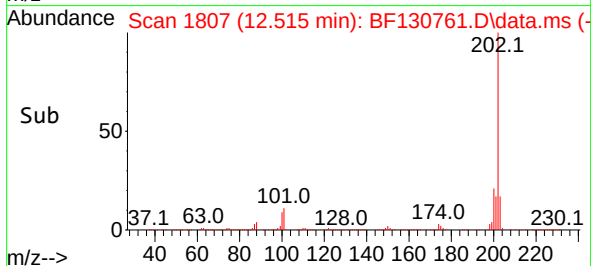
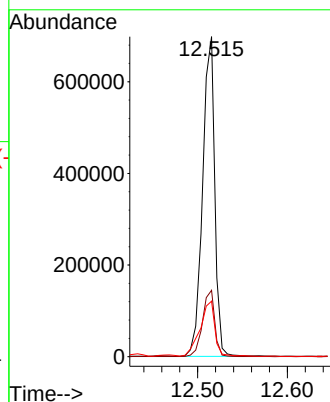
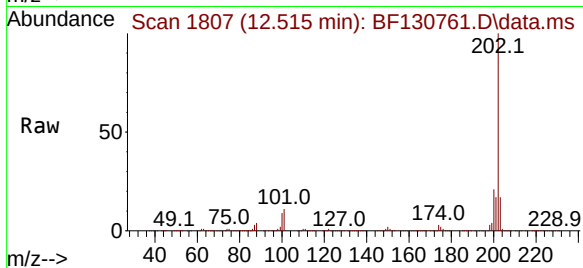
CL-02-101922DL

Tgt Ion:202 Resp: 65700  
 Ion Ratio Lower Upper  
 202 100  
 200 20.7 16.8 25.2  
 203 17.4 13.8 20.8

Manual Integrations

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Reviewed By :Christian Giraldo 10/25/2022  
 Supervised By :mohammad ahmed 10/27/2022



#79

Terphenyl-d14

Concen: 4.672 ng

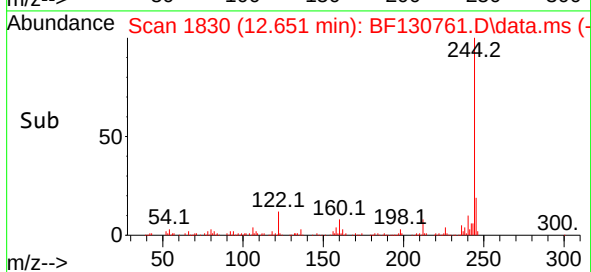
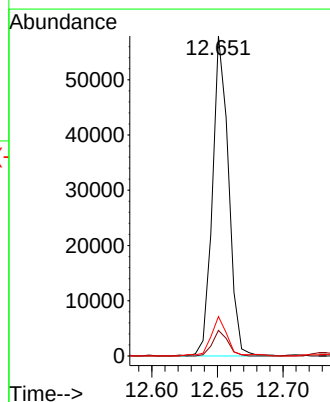
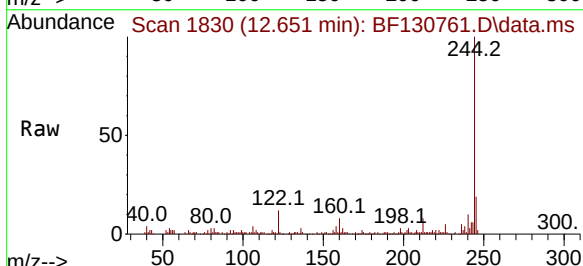
RT: 12.651 min Scan# 1830

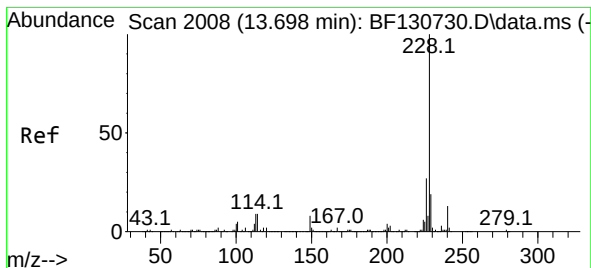
Delta R.T. -0.006 min

Lab File: BF130761.D

Acq: 24 Oct 2022 14:58

Tgt Ion:244 Resp: 49444  
 Ion Ratio Lower Upper  
 244 100  
 212 8.0 5.4 8.0  
 122 12.3 8.2 12.4





#81

Benzo(a)anthracene

Concen: 33.219 ng

RT: 13.698 min Scan# 2008

Delta R.T. -0.000 min

Lab File: BF130761.D

Acq: 24 Oct 2022 14:58

Instrument :

BNA\_F

ClientSampleId :

CL-02-101922DL

Tgt Ion:228 Resp: 395870

Ion Ratio Lower Upper

228 100

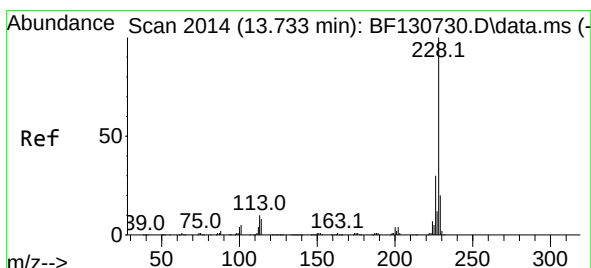
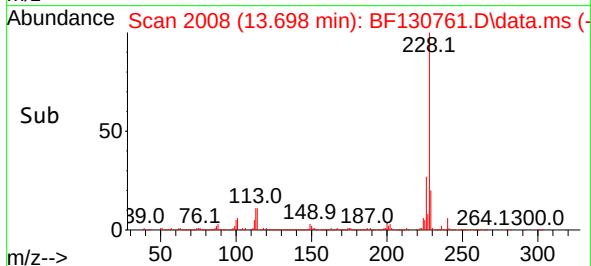
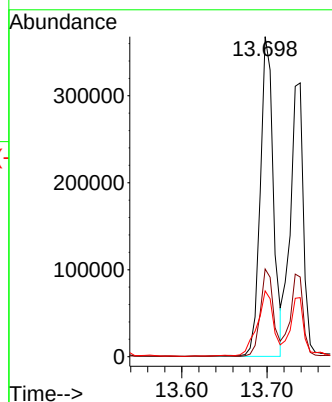
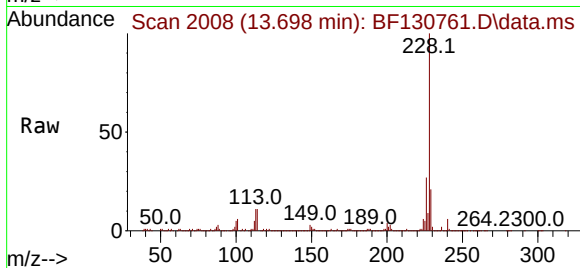
226 27.4 21.8 32.8

229 20.6 15.4 23.2

Manual Integrations

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Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022



#83

Chrysene

Concen: 29.077 ng

RT: 13.739 min Scan# 2015

Delta R.T. 0.006 min

Lab File: BF130761.D

Acq: 24 Oct 2022 14:58

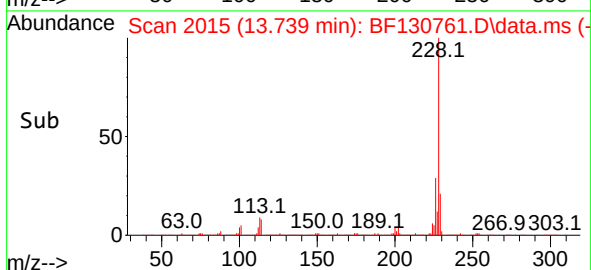
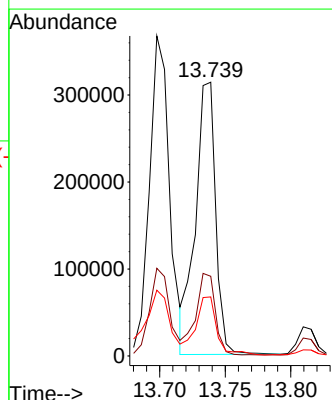
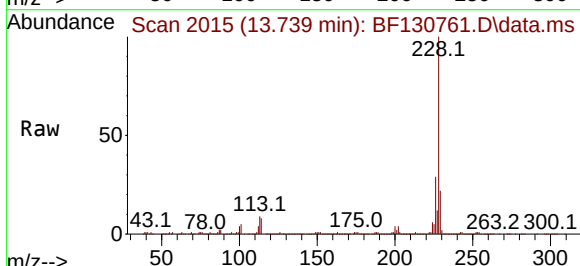
Tgt Ion:228 Resp: 335741

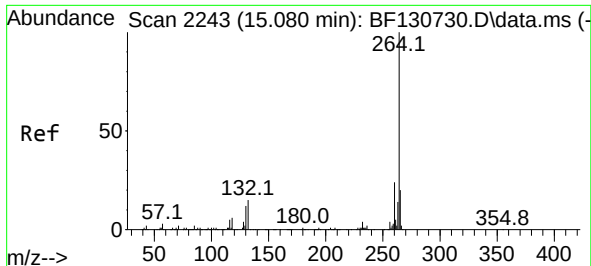
Ion Ratio Lower Upper

228 100

226 29.1 23.6 35.4

229 21.6 15.8 23.6





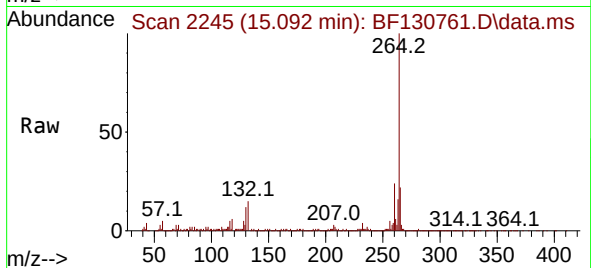
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.092 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

Instrument :

BNA\_F

ClientSampleId :

CL-02-101922DL

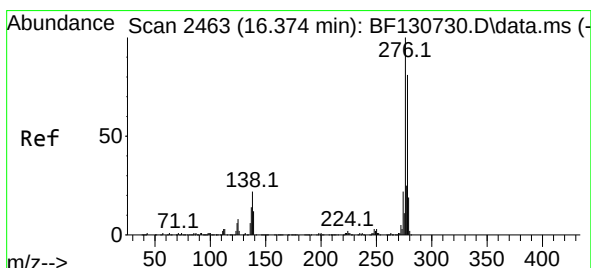
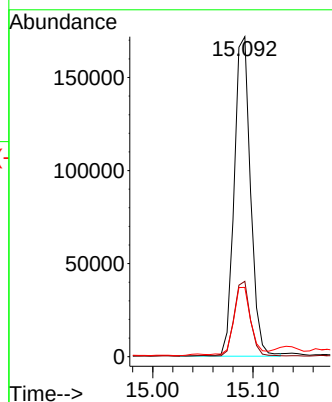
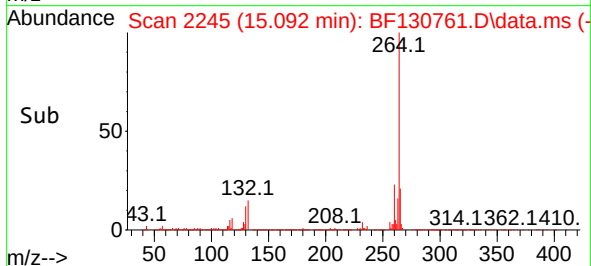


Tgt Ion:264 Resp: 194718  
Ion Ratio Lower Upper  
264 100  
260 23.5 18.8 28.2  
265 21.6 16.2 24.4

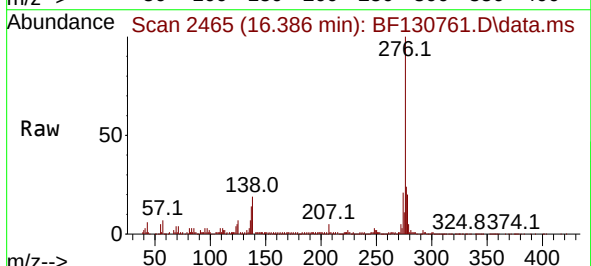
Manual Integrations

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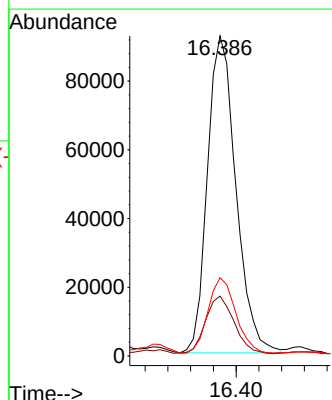
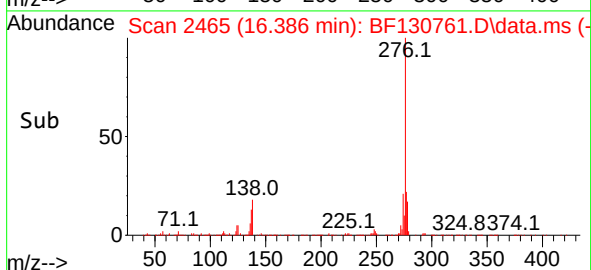
Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022

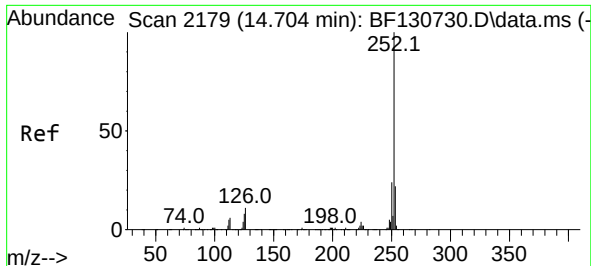


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 11.505 ng  
RT: 16.386 min Scan# 2465  
Delta R.T. 0.012 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58



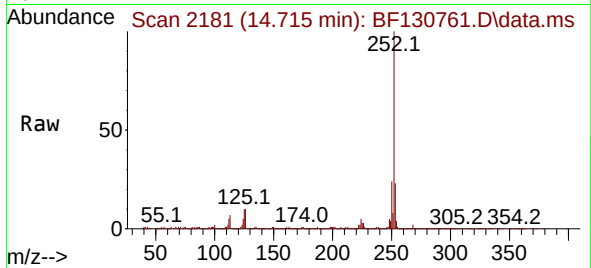
Tgt Ion:276 Resp: 160674  
Ion Ratio Lower Upper  
276 100  
138 18.8 17.2 25.8  
277 23.0 20.1 30.1





#88  
Benzo(b)fluoranthene  
Concen: 34.201 ng m  
RT: 14.715 min Scan# 2179  
Delta R.T. 0.012 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

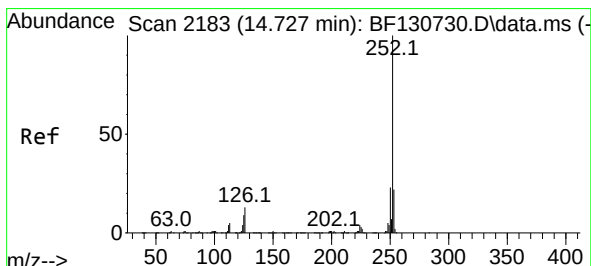
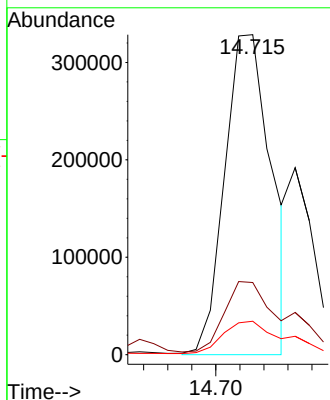
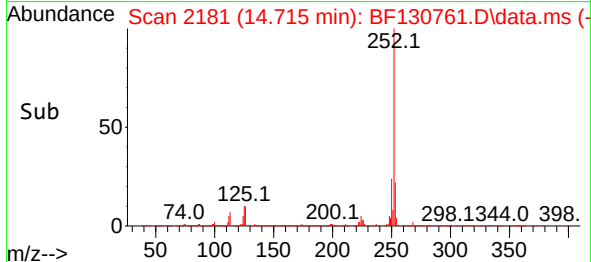
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101922DL



Tgt Ion:252 Resp: 443410  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.4 26.0  
125 10.5 6.4 9.6

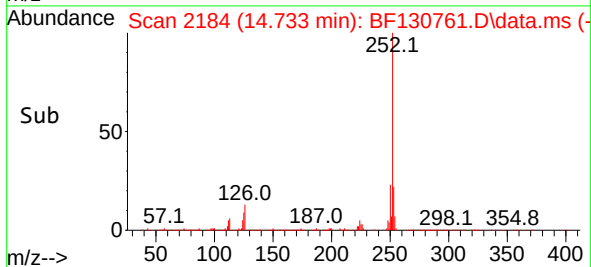
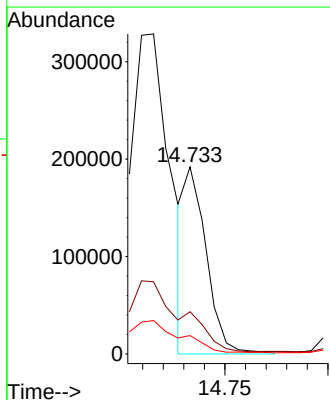
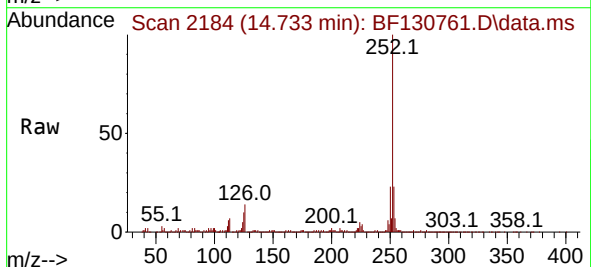
Manual Integrations  
APPROVED

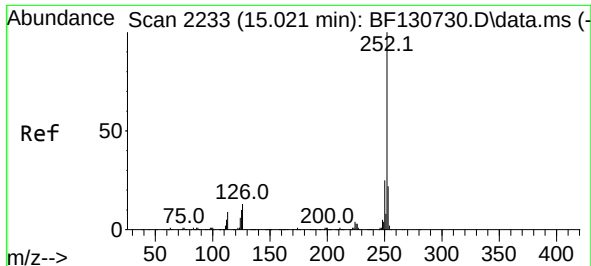
Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022



#89  
Benzo(k)fluoranthene  
Concen: 10.885 ng m  
RT: 14.733 min Scan# 2184  
Delta R.T. 0.006 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

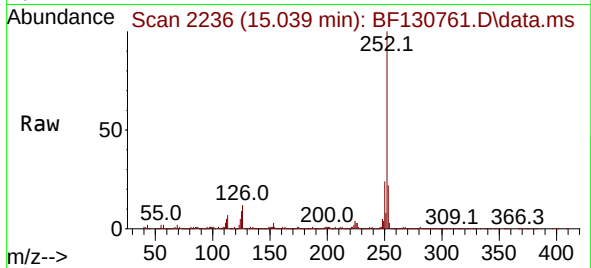
Tgt Ion:252 Resp: 141785  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.7 26.5  
125 9.9 7.2 10.8





#90  
Benzo(a)pyrene  
Concen: 29.665 ng  
RT: 15.039 min Scan# 21  
Delta R.T. 0.018 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

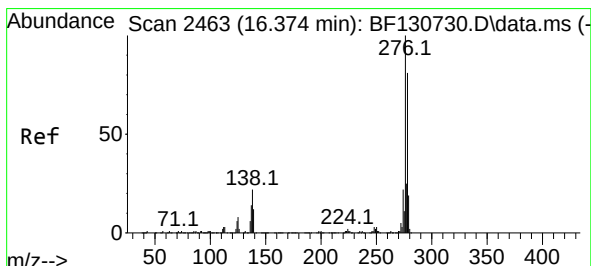
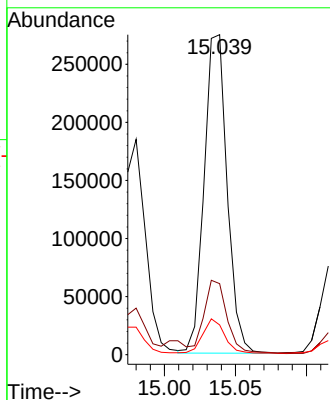
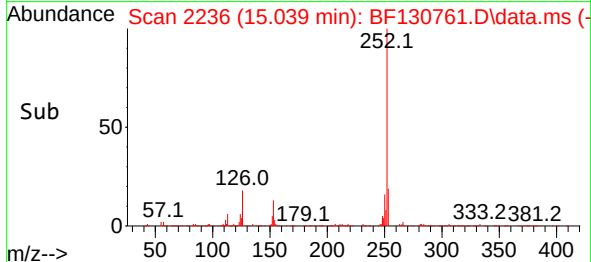
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101922DL



Tgt Ion:252 Resp: 308900  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.4 26.0  
125 9.3 8.3 12.5

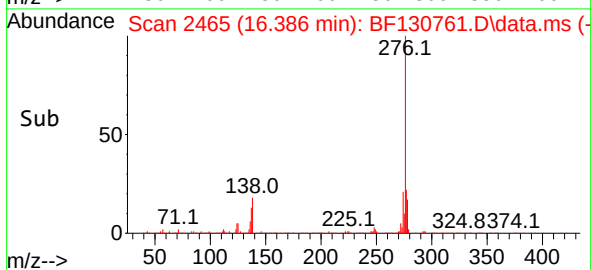
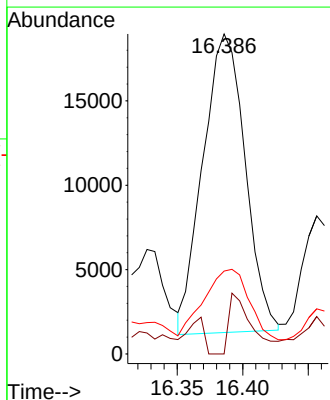
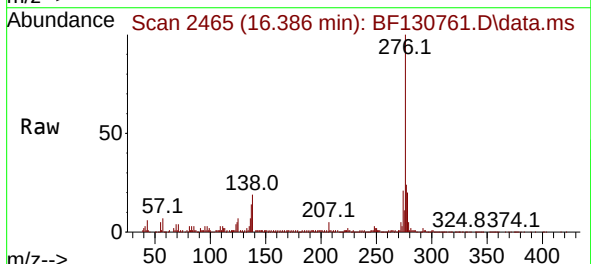
Manual Integrations  
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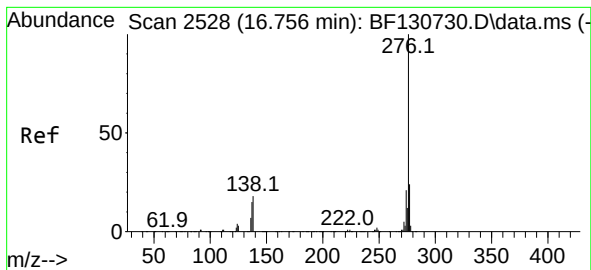
Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022



#91  
Dibenzo(a,h)anthracene  
Concen: 3.434 ng  
RT: 16.386 min Scan# 2465  
Delta R.T. 0.012 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

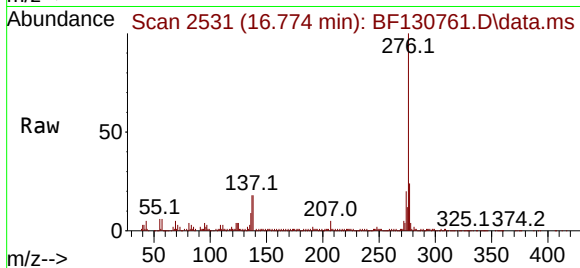
Tgt Ion:278 Resp: 39626  
Ion Ratio Lower Upper  
278 100  
139 0.0 11.4 17.0#  
279 25.9 18.4 27.6





#92  
Benzo(g,h,i)perylene  
Concen: 12.150 ng  
RT: 16.774 min Scan# 21  
Delta R.T. 0.018 min  
Lab File: BF130761.D  
Acq: 24 Oct 2022 14:58

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-101922DL



Tgt Ion:276 Resp: 140614  
Ion Ratio Lower Upper  
276 100  
277 24.3 19.1 28.7  
138 18.3 14.2 21.2

Manual Integrations  
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Reviewed By :Christian Giraldo 10/25/2022  
Supervised By :mohammad ahmed 10/27/2022

