

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110724\  
 Data File : BF140274.D  
 Acq On : 07 Nov 2024 14:53  
 Operator : RC/JU  
 Sample : P4693-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BP-G5-WC

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024  
 Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 15:32:44 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF110524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 05 16:47:56 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.875  | 152  | 124198   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.157  | 136  | 471118   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.910  | 164  | 273664   | 20.000  | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.404 | 188  | 466005   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.051 | 240  | 265996   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12            | 15.539 | 264  | 281342   | 20.000  | ng    | -0.02    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.498  | 112  | 872100   | 116.367 | ng    | 0.00     |
| 7) Phenol-d6                | 6.498  | 99   | 1120288  | 116.217 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.434  | 82   | 744892   | 78.610  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.704 | 330  | 321089   | 118.701 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.233  | 172  | 1320824  | 77.069  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.992 | 244  | 1196540  | 73.689  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 11.427 | 178  | 72113    | 3.243   | ng    | 97       |
| 75) Fluoranthene            | 12.616 | 202  | 305049   | 13.118  | ng    | 99       |
| 77) Benzidine               | 12.745 | 184  | 12997    | 2.499   | ng    | # 87     |
| 78) Pyrene                  | 12.845 | 202  | 394576   | 17.966  | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.039 | 228  | 280783   | 16.448  | ng    | 100      |
| 83) Chrysene                | 14.074 | 228  | 229158   | 14.335  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.033 | 276  | 101440   | 6.142   | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.104 | 252  | 287888m  | 16.917  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.121 | 252  | 90916m   | 5.822   | ng    |          |
| 90) Benzo(a)pyrene          | 15.474 | 252  | 196002   | 13.969  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 17.045 | 278  | 30661m   | 2.257   | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.492 | 276  | 92908    | 6.703   | ng    | 99       |
| -----                       |        |      |          |         |       |          |

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

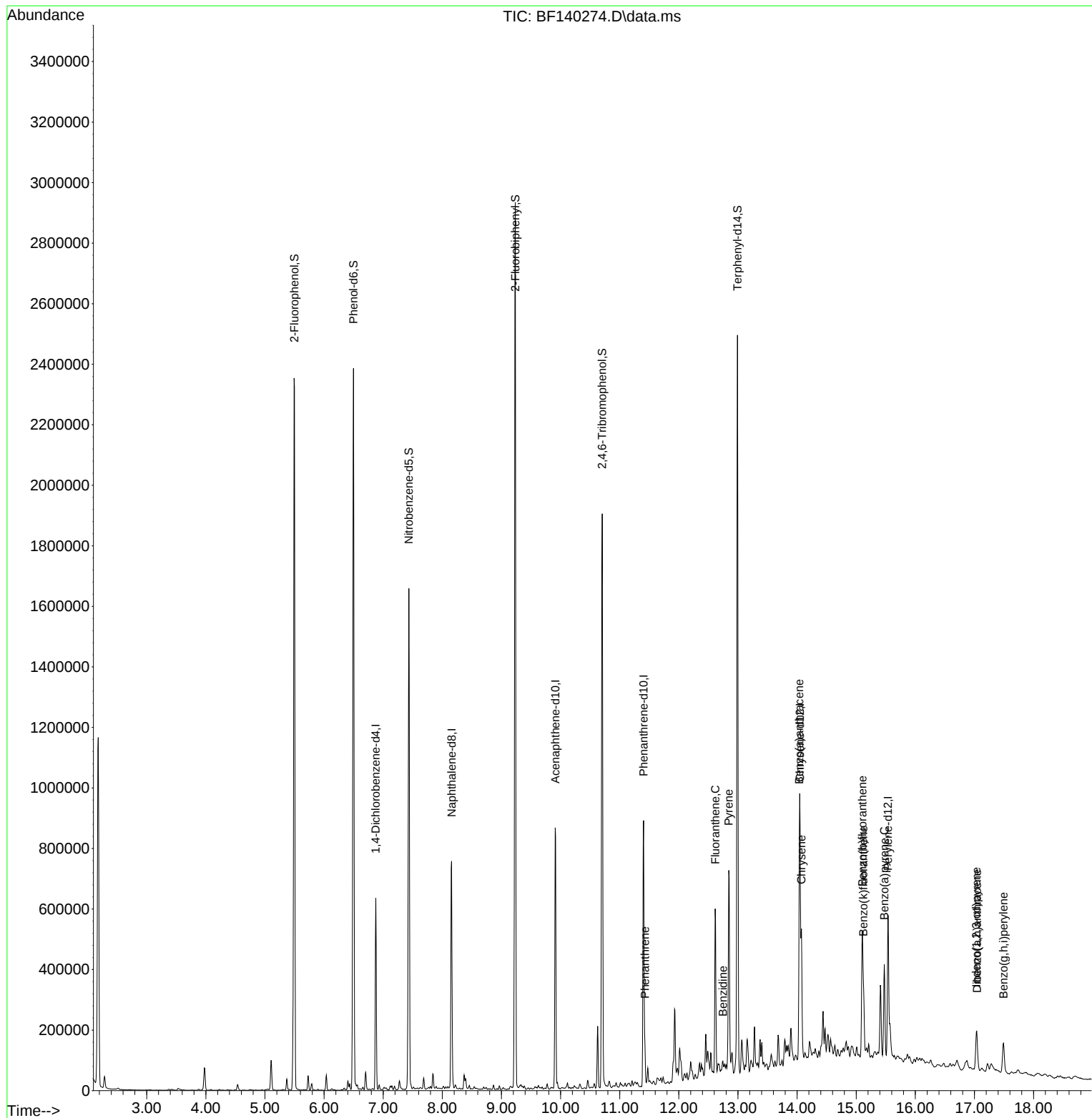
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110724\  
Data File : BF140274.D  
Acq On : 07 Nov 2024 14:53  
Operator : RC/JU  
Sample : P4693-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

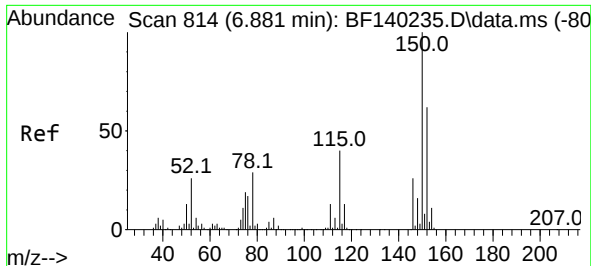
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024

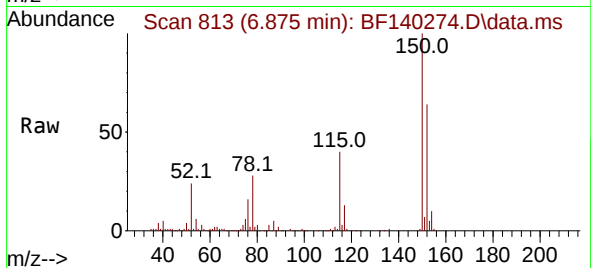
Quant Time: Nov 07 15:32:44 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF110524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 05 16:47:56 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

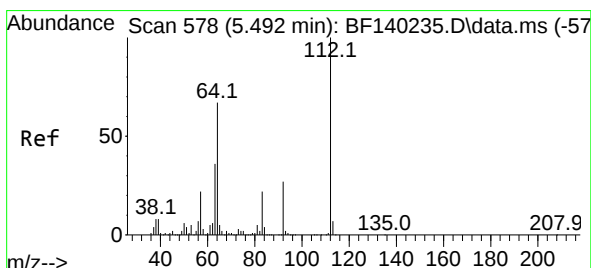
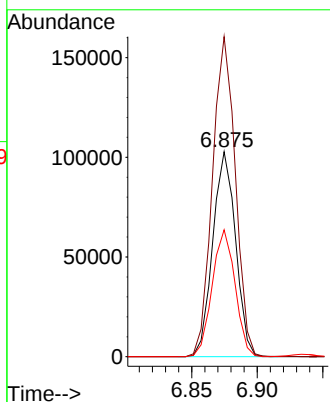
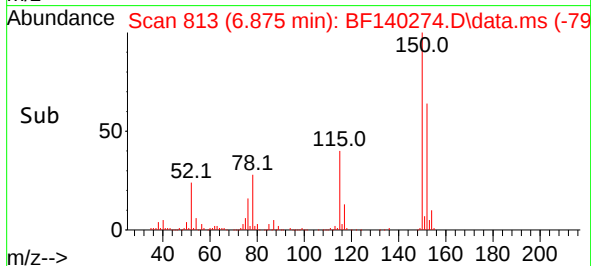
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC



Tgt Ion:152 Resp: 124198  
Ion Ratio Lower Upper  
152 100  
150 156.2 129.4 194.2  
115 61.9 51.5 77.3

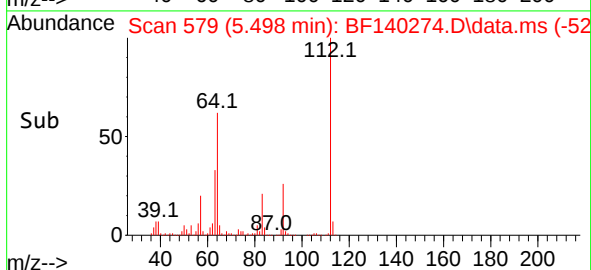
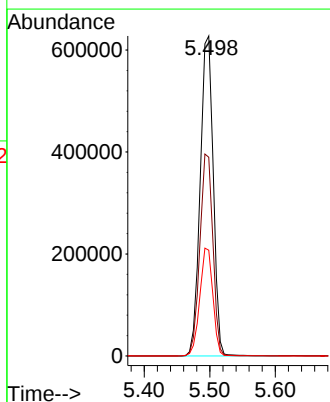
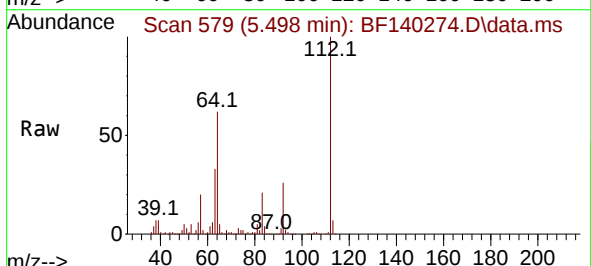
Manual Integrations  
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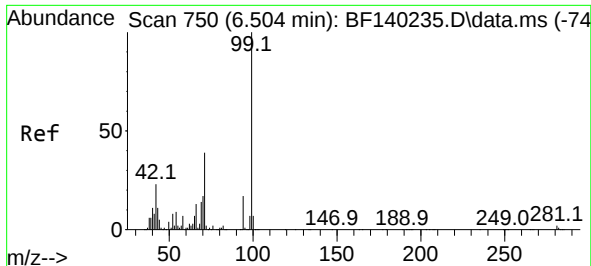
Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024



#5  
2-Fluorophenol  
Concen: 116.367 ng  
RT: 5.498 min Scan# 579  
Delta R.T. 0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

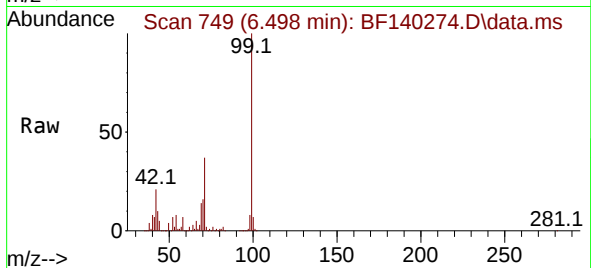
Tgt Ion:112 Resp: 872100  
Ion Ratio Lower Upper  
112 100  
64 62.1 53.4 80.2  
63 33.0 28.9 43.3





#7  
Phenol-d6  
Concen: 116.217 ng  
RT: 6.498 min Scan# 749  
Delta R.T. -0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

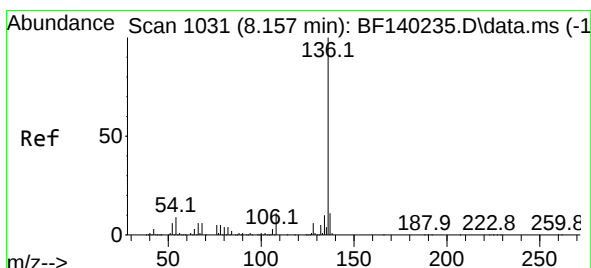
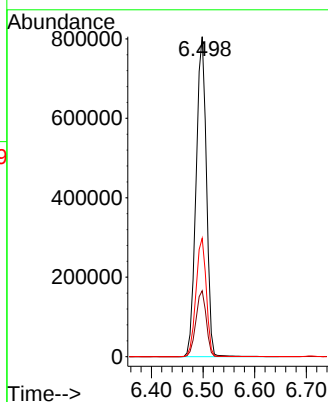
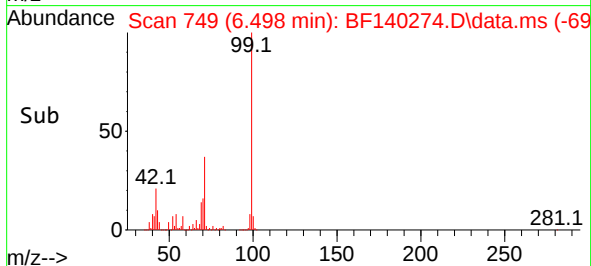
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC



Tgt Ion: 99 Resp: 112028  
Ion Ratio Lower Upper  
99 100  
42 20.6 18.2 27.2  
71 37.0 30.9 46.3

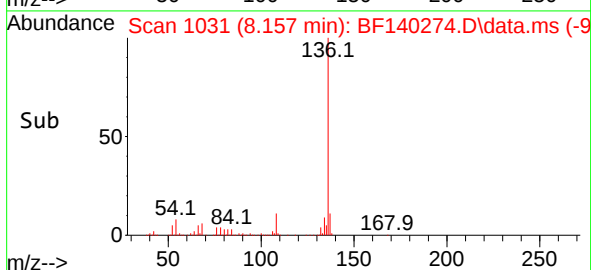
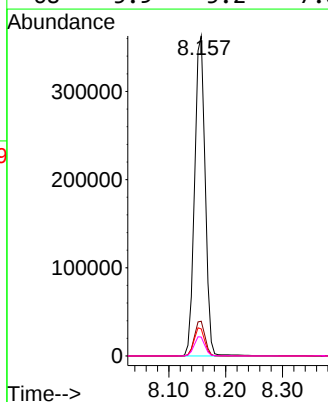
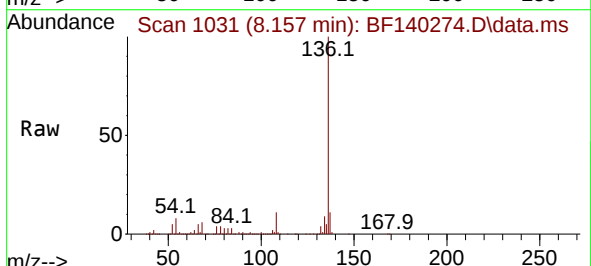
Manual Integrations  
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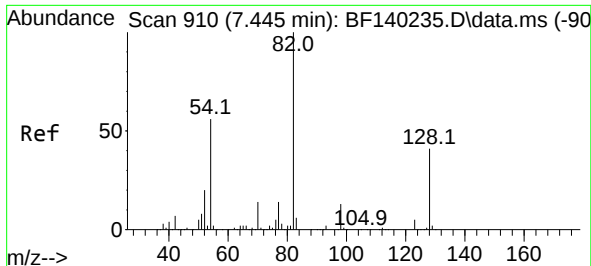
Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

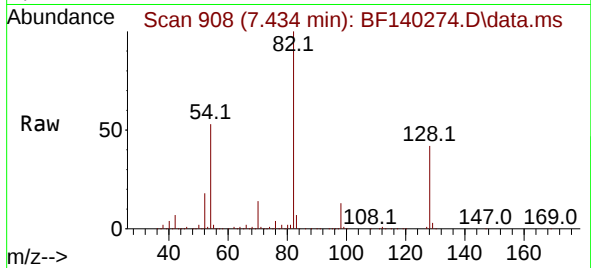
Tgt Ion:136 Resp: 471118  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.0 13.6  
54 8.5 7.7 11.5  
68 5.9 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 78.610 ng  
RT: 7.434 min Scan# 908  
Delta R.T. -0.012 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

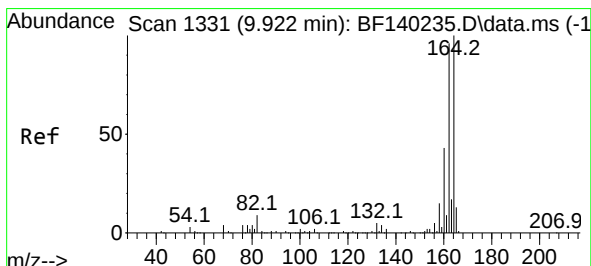
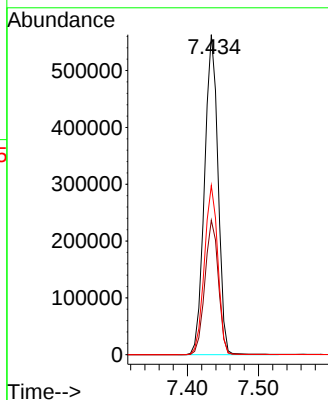
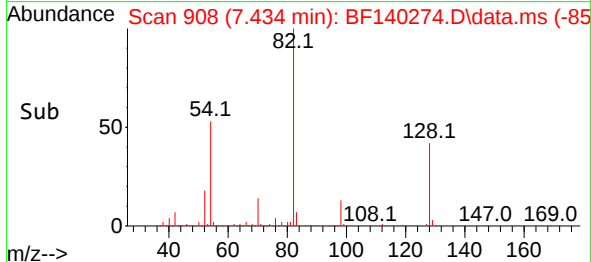
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC



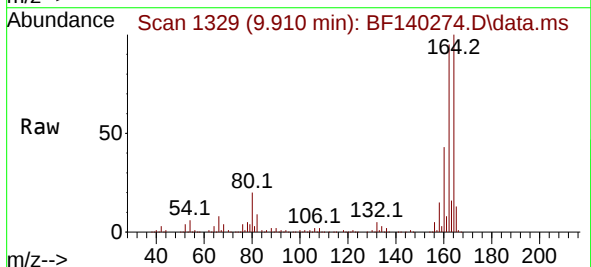
Tgt Ion: 82 Resp: 744892  
Ion Ratio Lower Upper  
82 100  
128 42.0 32.8 49.2  
54 52.8 44.3 66.5

Manual Integrations  
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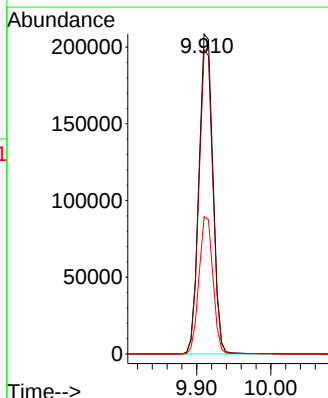
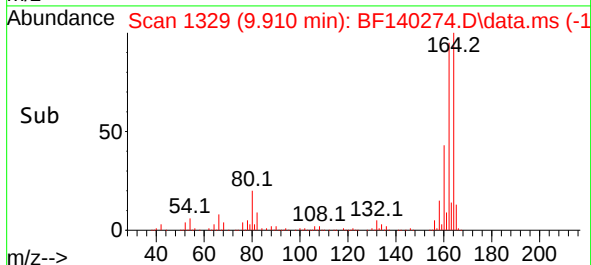
Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024

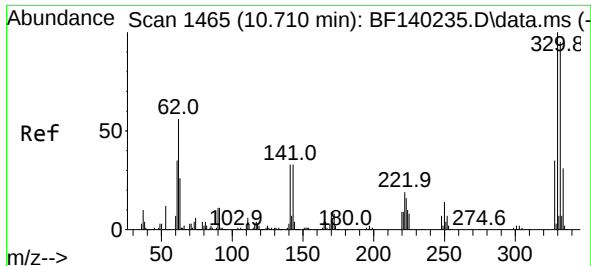


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. -0.012 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53



Tgt Ion:164 Resp: 273664  
Ion Ratio Lower Upper  
164 100  
162 95.1 77.0 115.4  
160 42.9 34.1 51.1





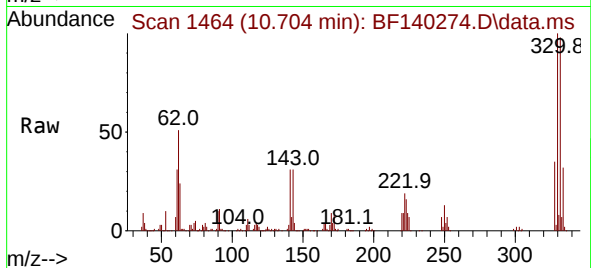
#42  
2,4,6-Tribromophenol  
Concen: 118.701 ng  
RT: 10.704 min Scan# 1464  
Delta R.T. -0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

Instrument :

BNA\_F

ClientSampleId :

BP-G5-WC



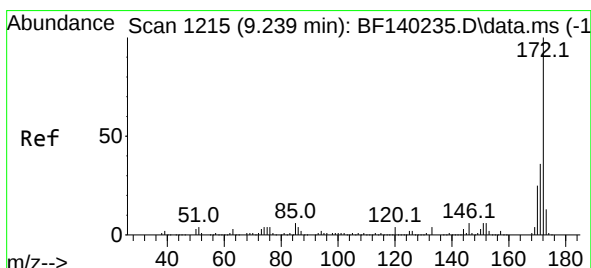
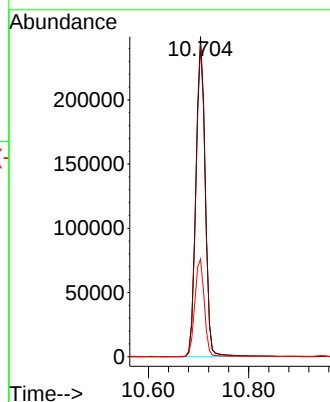
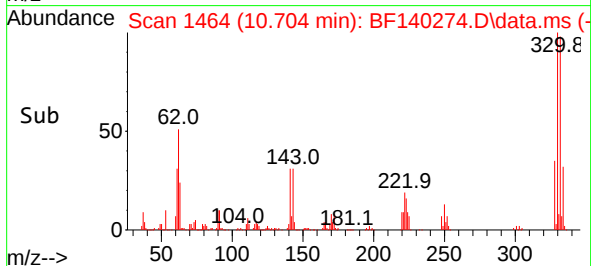
Tgt Ion:330 Resp: 321089  
Ion Ratio Lower Upper  
330 100  
332 97.5 76.4 114.6  
141 30.9 27.0 40.4

Manual Integrations

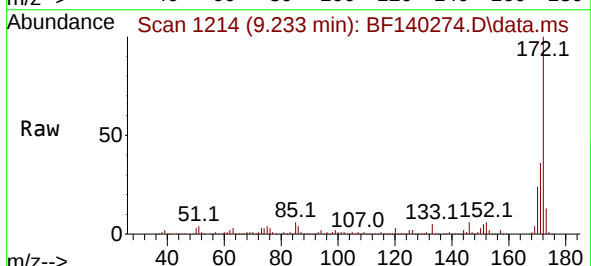
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

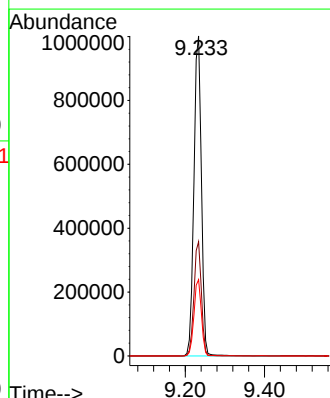
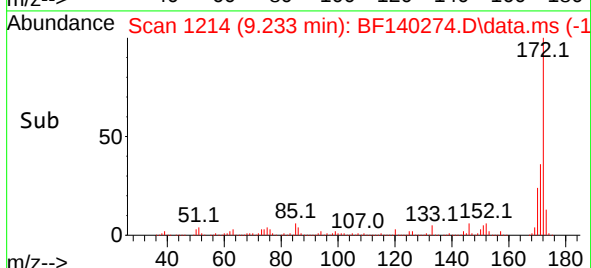
Supervised By :mohammad ahmed 11/11/2024

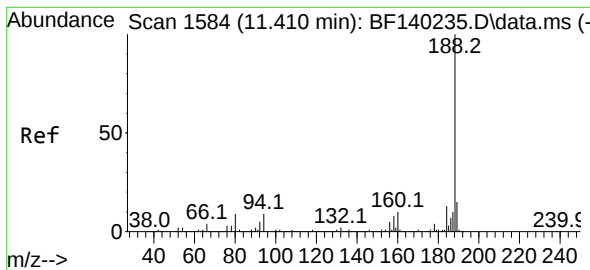


#45  
2-Fluorobiphenyl  
Concen: 77.069 ng  
RT: 9.233 min Scan# 1214  
Delta R.T. -0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53



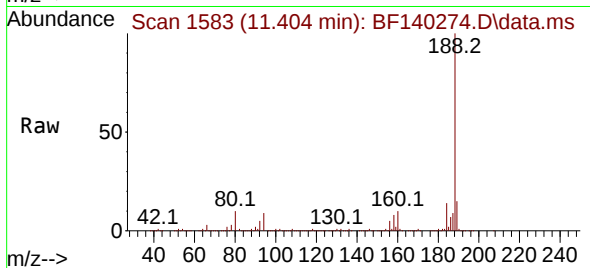
Tgt Ion:172 Resp: 1320824  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.8 43.2  
170 23.9 19.6 29.4





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.404 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

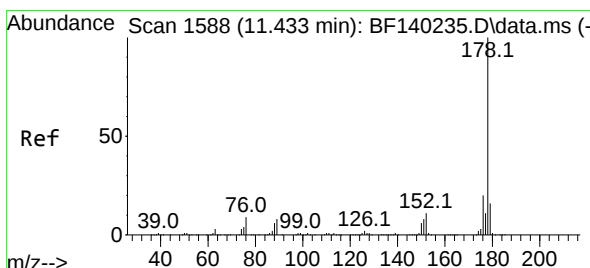
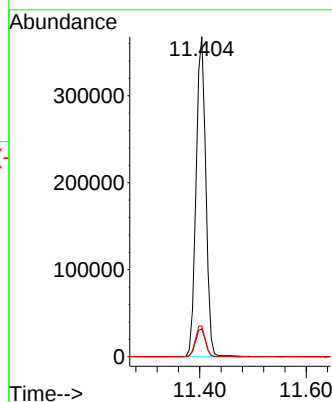
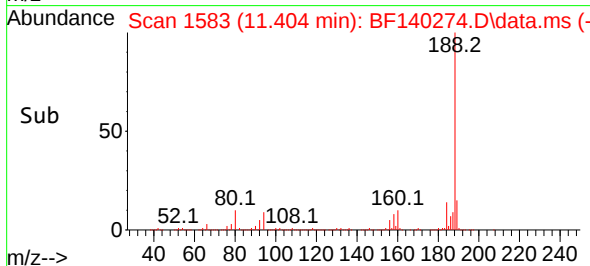
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC



Tgt Ion:188 Resp: 466000  
Ion Ratio Lower Upper  
188 100  
94 8.6 6.9 10.3  
80 9.6 7.5 11.3

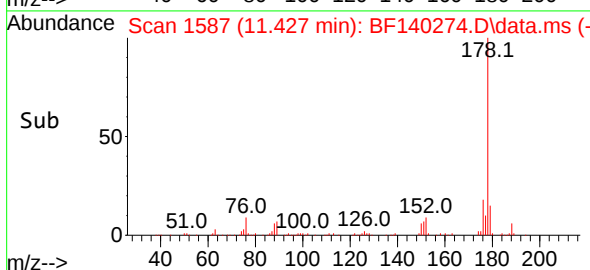
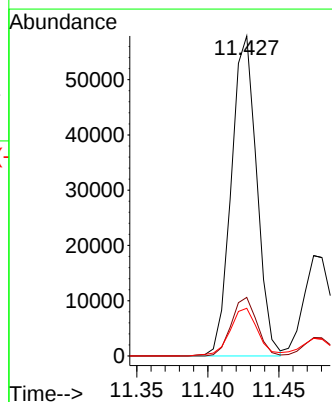
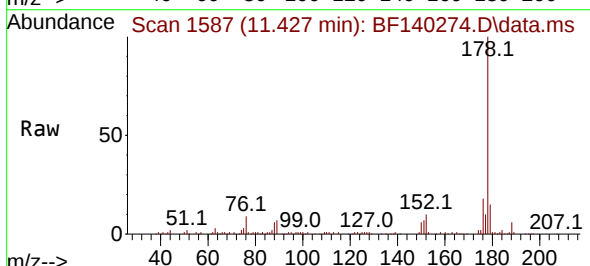
Manual Integrations  
APPROVED

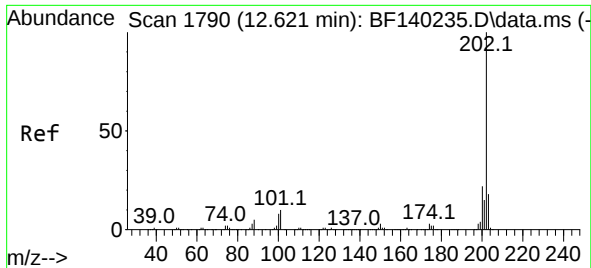
Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024



#71  
Phenanthrene  
Concen: 3.243 ng  
RT: 11.427 min Scan# 1587  
Delta R.T. -0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

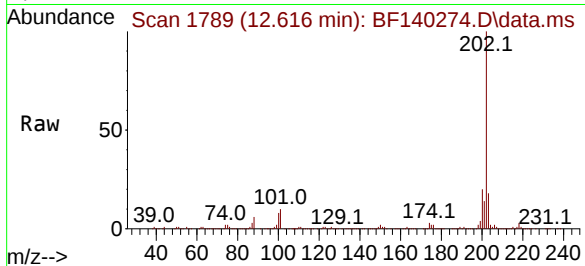
Tgt Ion:178 Resp: 72113  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.9 23.9  
179 14.9 12.6 18.8





#75  
Fluoranthene  
Concen: 13.118 ng  
RT: 12.616 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

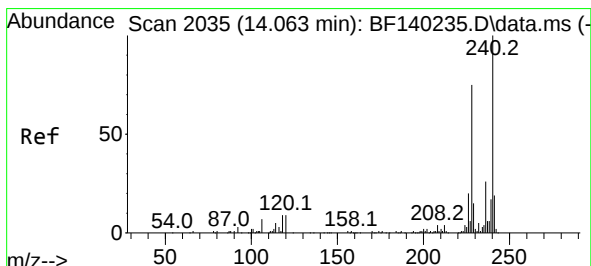
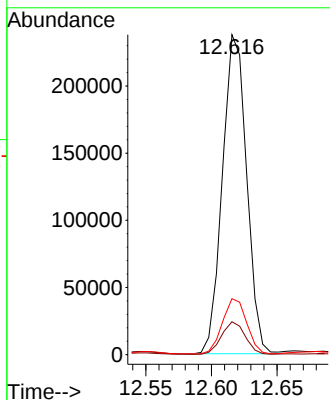
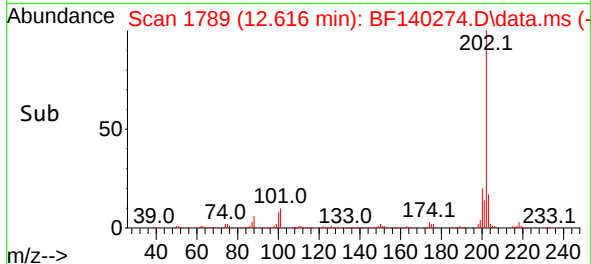
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC



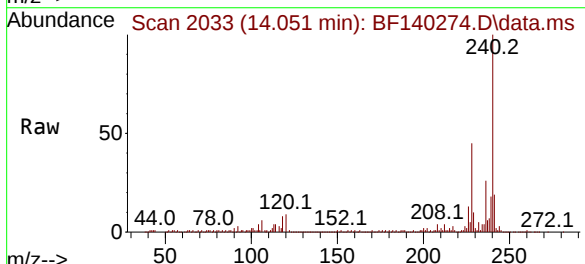
Tgt Ion:202 Resp: 305049  
Ion Ratio Lower Upper  
202 100  
101 10.3 0.0 30.4  
203 17.5 0.0 38.0

Manual Integrations  
APPROVED

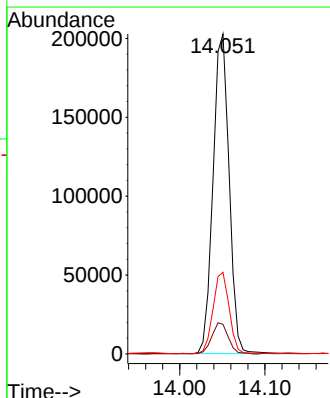
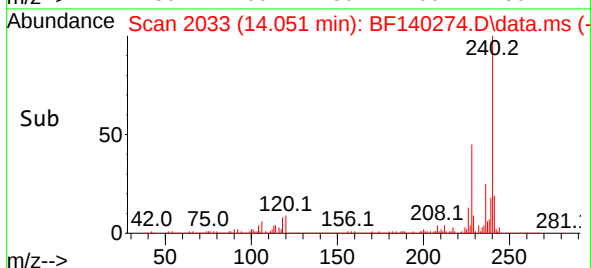
Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024

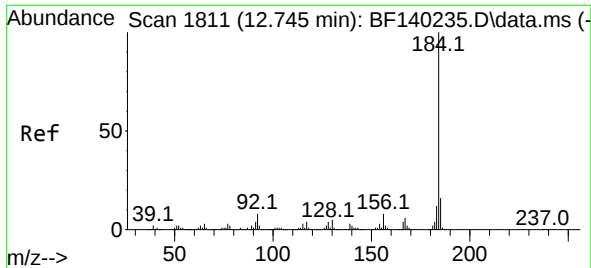


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.051 min Scan# 2033  
Delta R.T. -0.012 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53



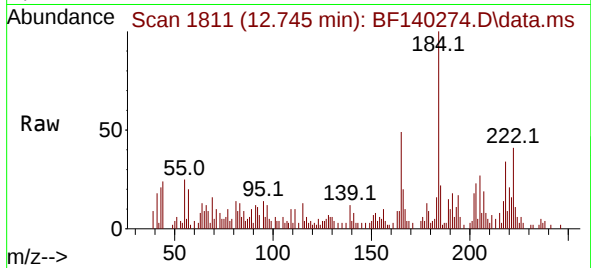
Tgt Ion:240 Resp: 265996  
Ion Ratio Lower Upper  
240 100  
120 9.2 7.5 11.3  
236 25.5 20.9 31.3





#77  
Benzidine  
Concen: 2.499 ng  
RT: 12.745 min Scan# 1811  
Delta R.T. -0.000 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

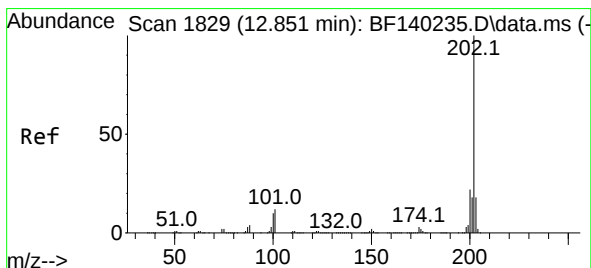
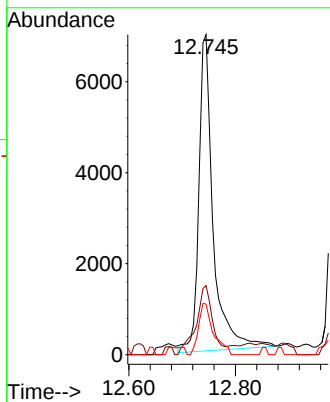
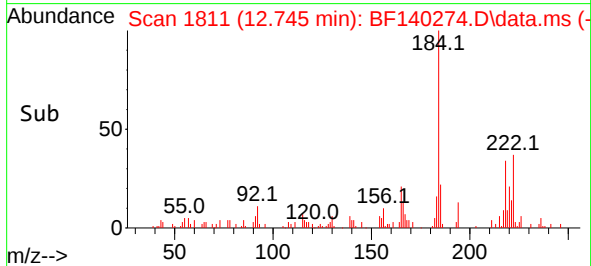
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC



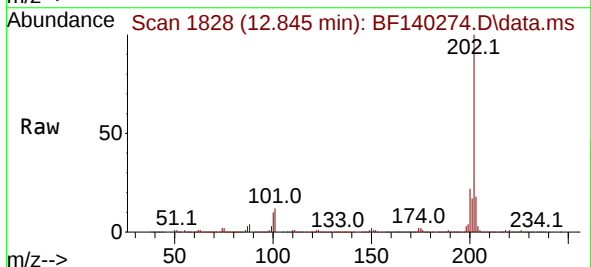
Tgt Ion:184 Resp: 1299  
Ion Ratio Lower Upper  
184 100  
185 21.6 12.5 18.7  
183 15.8 9.3 13.9

Manual Integrations  
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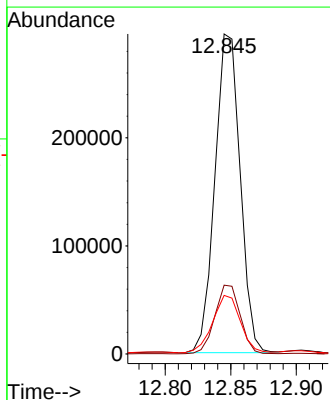
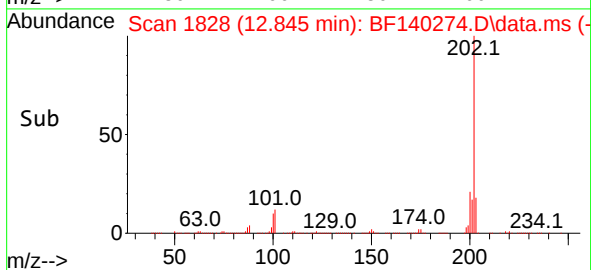
Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024

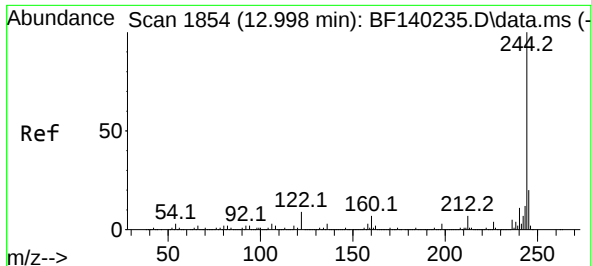


#78  
Pyrene  
Concen: 17.966 ng  
RT: 12.845 min Scan# 1828  
Delta R.T. -0.006 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53



Tgt Ion:202 Resp: 394576  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.5 26.3  
203 18.3 14.4 21.6





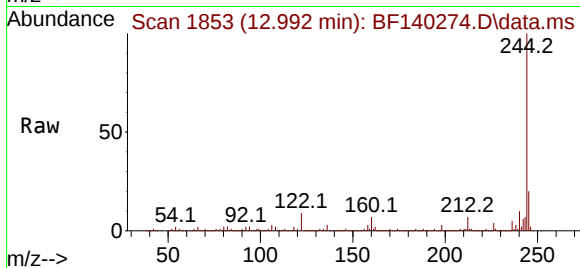
#79  
 Terphenyl-d14  
 Concen: 73.689 ng  
 RT: 12.992 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF140274.D  
 Acq: 07 Nov 2024 14:53

Instrument :

BNA\_F

ClientSampleId :

BP-G5-WC



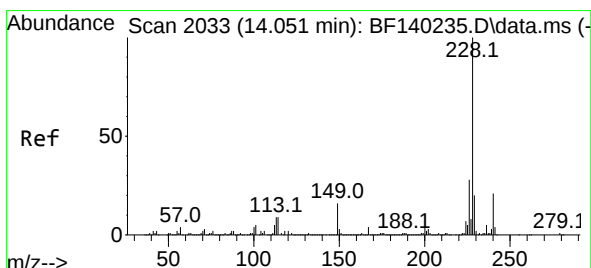
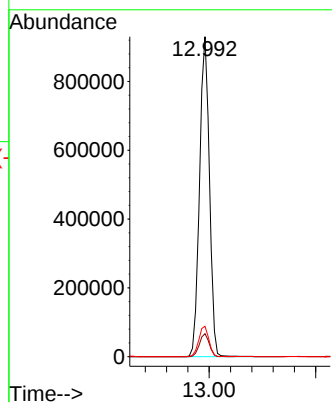
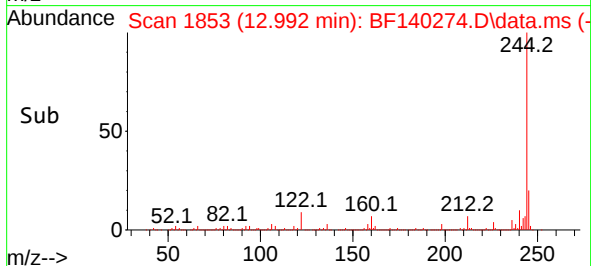
Tgt Ion:244 Resp: 1196540  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.0 9.0  
 122 9.5 7.6 11.4

Manual Integrations

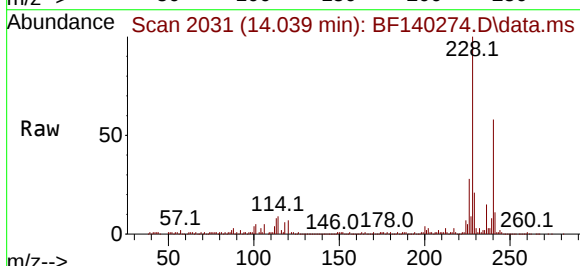
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

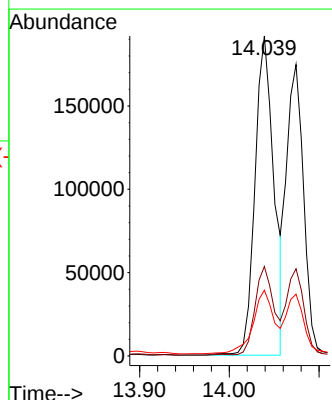
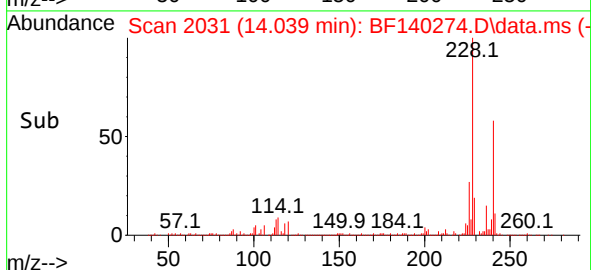
Supervised By :mohammad ahmed 11/11/2024

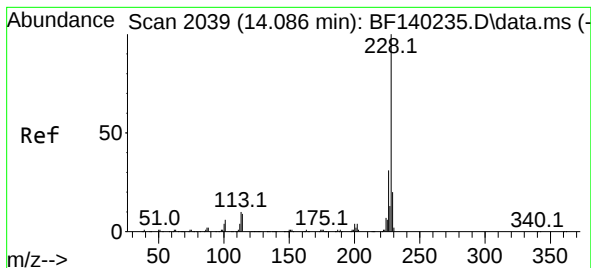


#81  
 Benzo(a)anthracene  
 Concen: 16.448 ng  
 RT: 14.039 min Scan# 2031  
 Delta R.T. -0.012 min  
 Lab File: BF140274.D  
 Acq: 07 Nov 2024 14:53



Tgt Ion:228 Resp: 280783  
 Ion Ratio Lower Upper  
 228 100  
 226 28.0 22.3 33.5  
 229 20.5 16.1 24.1





#83

Chrysene

Concen: 14.335 ng

RT: 14.074 min Scan# 2039

Delta R.T. -0.012 min

Lab File: BF140274.D

Acq: 07 Nov 2024 14:53

Instrument :

BNA\_F

ClientSampleId :

BP-G5-WC

Tgt Ion:228 Resp: 229158

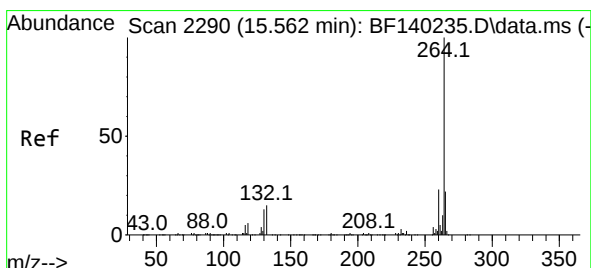
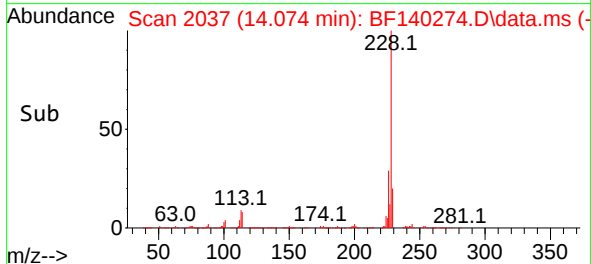
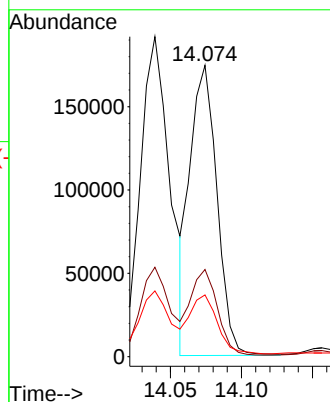
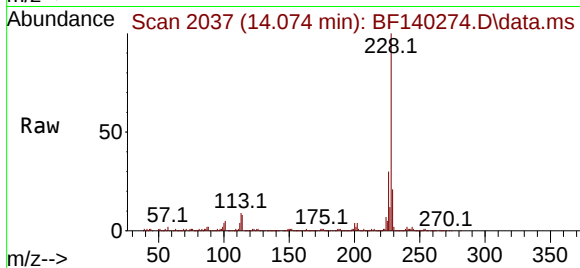
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.9  | 24.6  | 36.8  |
| 229 | 21.2  | 16.1  | 24.1  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/11/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2286

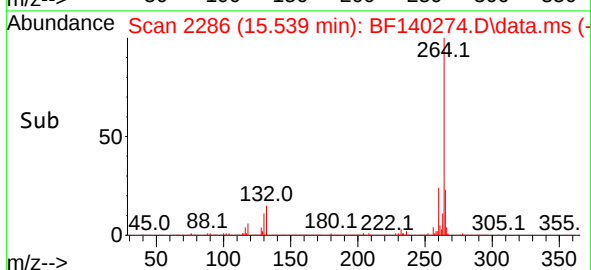
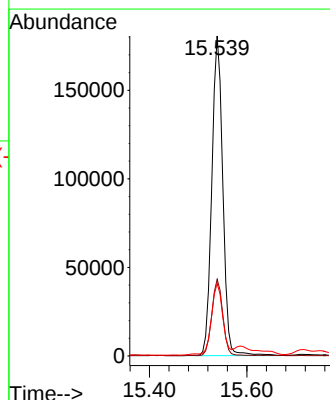
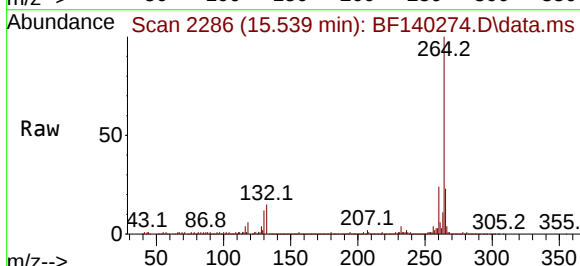
Delta R.T. -0.024 min

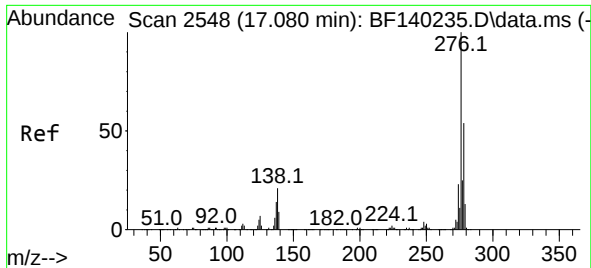
Lab File: BF140274.D

Acq: 07 Nov 2024 14:53

Tgt Ion:264 Resp: 281342

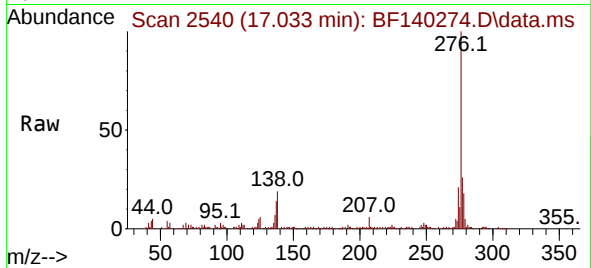
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.0  | 18.8  | 28.2  |
| 265 | 22.7  | 17.3  | 25.9  |





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 6.142 ng  
RT: 17.033 min Scan# 21  
Delta R.T. -0.047 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

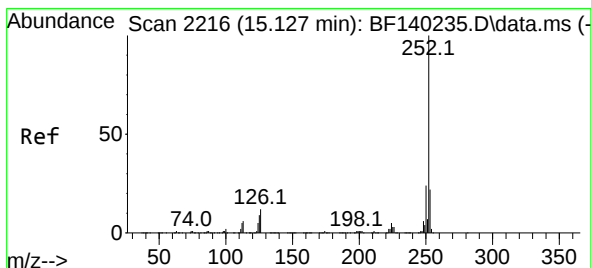
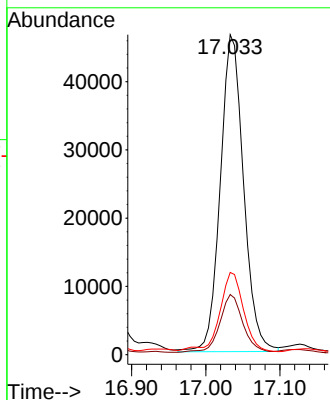
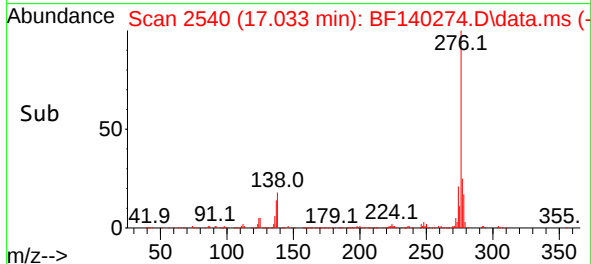
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC



Tgt Ion:276 Resp: 101440  
Ion Ratio Lower Upper  
276 100  
138 17.8 17.6 26.4  
277 25.8 20.2 30.2

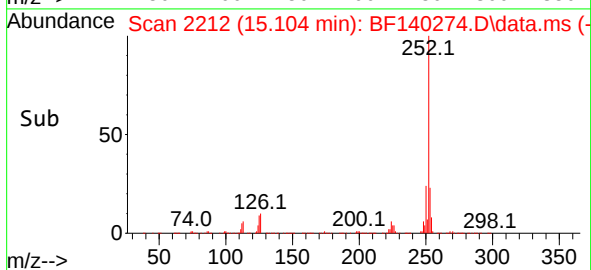
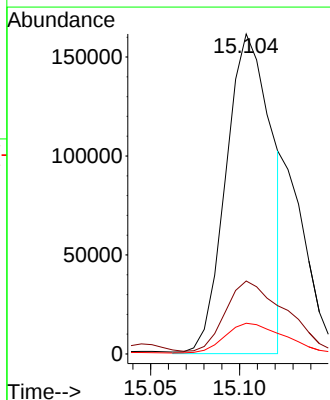
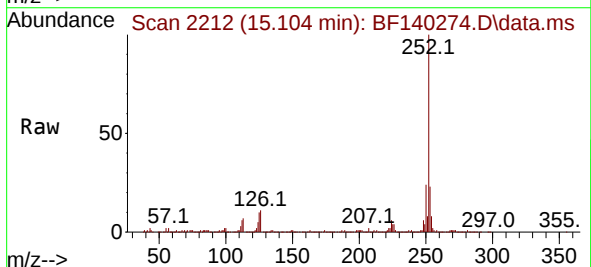
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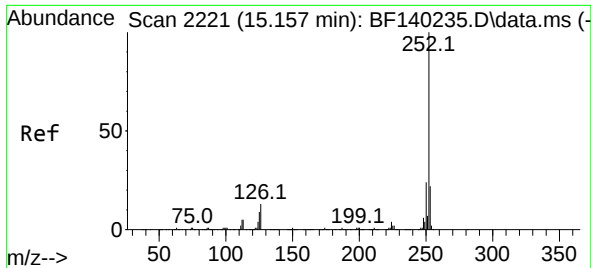
Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024



#88  
Benzo(b)fluoranthene  
Concen: 16.917 ng m  
RT: 15.104 min Scan# 2212  
Delta R.T. -0.024 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

Tgt Ion:252 Resp: 287888  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.9 26.9  
125 9.6 7.0 10.6





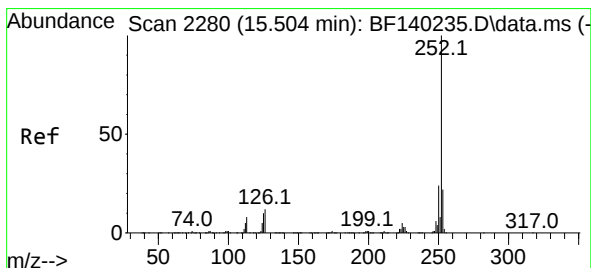
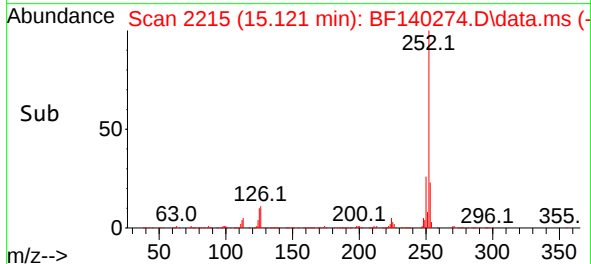
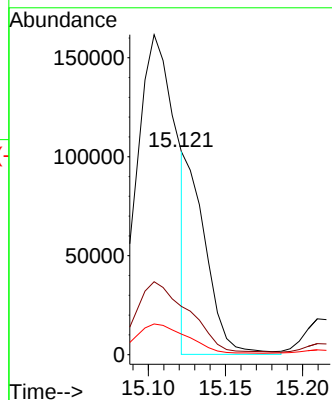
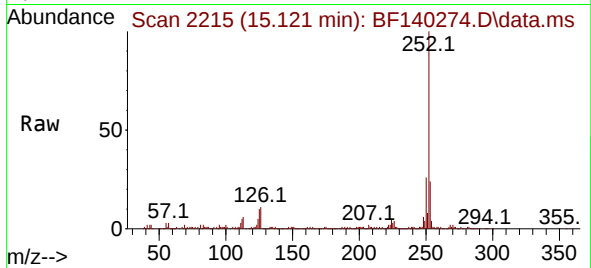
#89  
Benzo(k)fluoranthene  
Concen: 5.822 ng m  
RT: 15.121 min Scan# 21  
Delta R.T. -0.035 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC

Tgt Ion:252 Resp: 90910  
Ion Ratio Lower Upper  
252 100  
253 23.8 17.8 26.8  
125 10.2 7.2 10.8

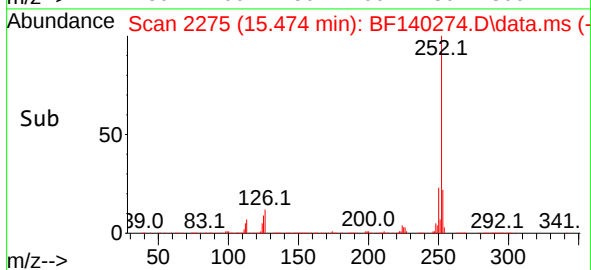
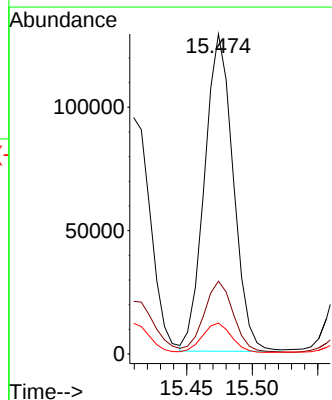
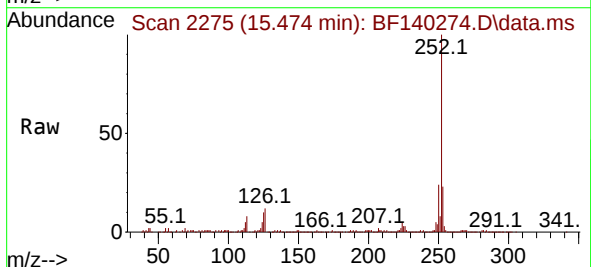
Manual Integrations  
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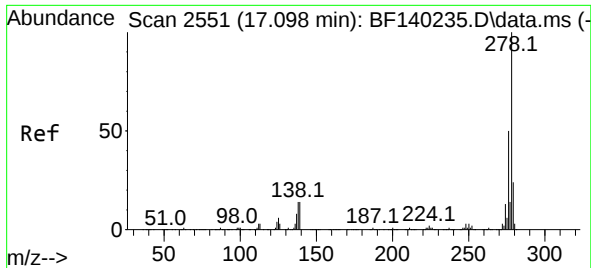
Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024



#90  
Benzo(a)pyrene  
Concen: 13.969 ng  
RT: 15.474 min Scan# 2275  
Delta R.T. -0.029 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

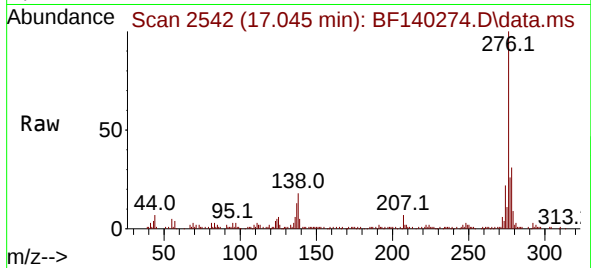
Tgt Ion:252 Resp: 196002  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.4 26.0  
125 9.7 7.6 11.4





#91  
Dibenzo(a,h)anthracene  
Concen: 2.257 ng m  
RT: 17.045 min Scan# 21  
Delta R.T. -0.053 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53

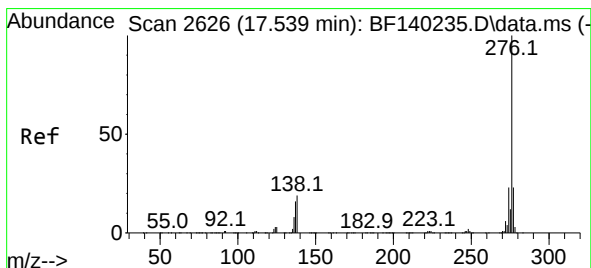
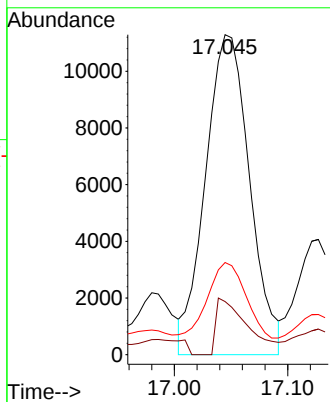
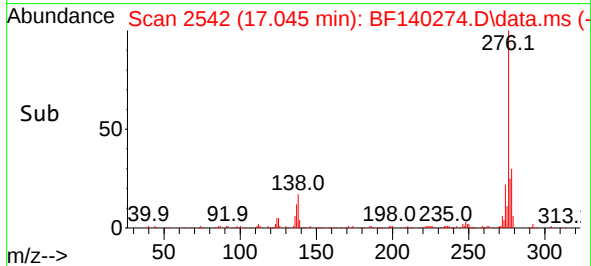
Instrument :  
BNA\_F  
ClientSampleId :  
BP-G5-WC



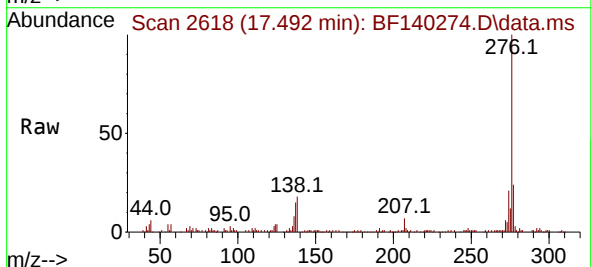
Tgt Ion:278 Resp: 3066  
Ion Ratio Lower Upper  
278 100  
139 16.6 11.1 16.7  
279 28.8 19.1 28.7

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/08/2024  
Supervised By :mohammad ahmed 11/11/2024



#92  
Benzo(g,h,i)perylene  
Concen: 6.703 ng  
RT: 17.492 min Scan# 2618  
Delta R.T. -0.047 min  
Lab File: BF140274.D  
Acq: 07 Nov 2024 14:53



Tgt Ion:276 Resp: 92908  
Ion Ratio Lower Upper  
276 100  
277 23.7 18.8 28.2  
138 18.4 15.3 22.9

