

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF021722\  
 Data File : BF126926.D  
 Acq On : 17 Feb 2022 14:52  
 Operator : CG\JU  
 Sample : N1564-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-2

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 02/18/2022  
 Supervised By : Jagrut Upadhyay 02/18/2022

Quant Time: Feb 17 17:09:31 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF021622.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 16 14:55:48 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.928  | 152  | 112769   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.210  | 136  | 465524   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.969  | 164  | 246630   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.457 | 188  | 432677   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.098 | 240  | 211924   | 20.000  | ng    | #-0.01   |
| 86) Perylene-d12            | 15.604 | 264  | 180594   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.551  | 112  | 755270   | 103.515 | ng    | 0.00     |
| 7) Phenol-d6                | 6.551  | 99   | 1009792  | 102.567 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.493  | 82   | 721649   | 69.971  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.763 | 330  | 312853   | 110.175 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.287  | 172  | 1171857  | 69.949  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.045 | 244  | 1186666  | 82.315  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 10) Phenol                  | 6.563  | 94   | 21171    | 2.128   | ng    | 92       |
| 71) Phenanthrene            | 11.480 | 178  | 71988    | 2.973   | ng    | 98       |
| 75) Fluoranthene            | 12.669 | 202  | 132708   | 5.771   | ng    | 97       |
| 78) Pyrene                  | 12.904 | 202  | 113739   | 6.178   | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.092 | 228  | 44769    | 3.134   | ng    | 97       |
| 83) Chrysene                | 14.127 | 228  | 39652    | 2.951   | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.157 | 252  | 46789m   | 3.857   | ng    |          |
| 90) Benzo(a)pyrene          | 15.539 | 252  | 32216m   | 3.400   | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.592 | 276  | 21743    | 2.252   | ng    | # 91     |
| -----                       |        |      |          |         |       |          |

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

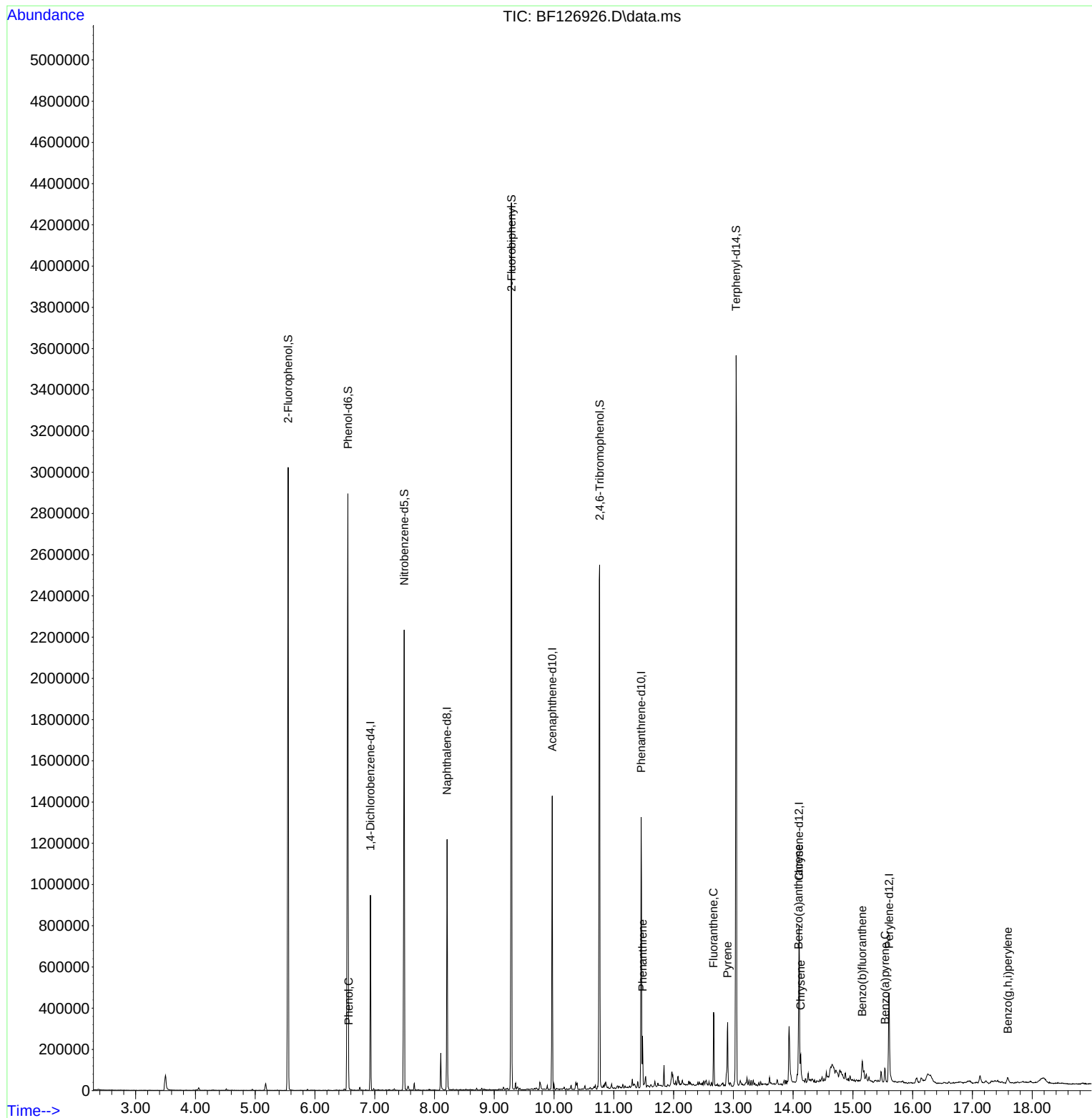
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF021722\  
Data File : BF126926.D  
Acq On : 17 Feb 2022 14:52  
Operator : CG\JU  
Sample : N1564-02  
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ALS Vial : 6 Sample Multiplier: 1

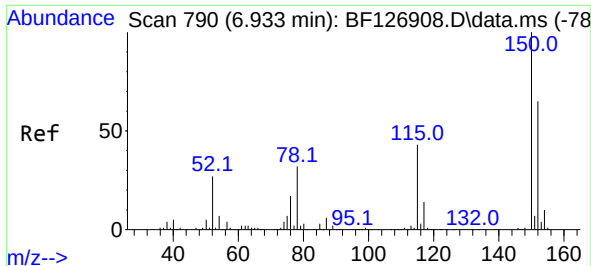
Instrument :  
BNA\_F  
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TP-2

Quant Time: Feb 17 17:09:31 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF021622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 16 14:55:48 2022  
Response via : Initial Calibration

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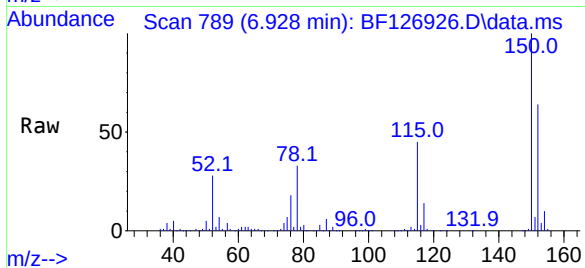
Reviewed By : Christian Giraldo 02/18/2022  
Supervised By : Jagrut Upadhyay 02/18/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.928 min Scan# 790  
Delta R.T. -0.005 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

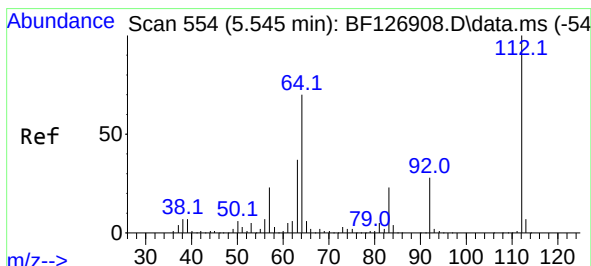
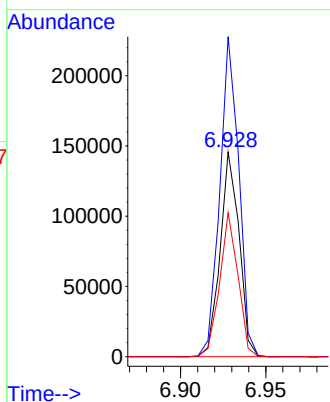
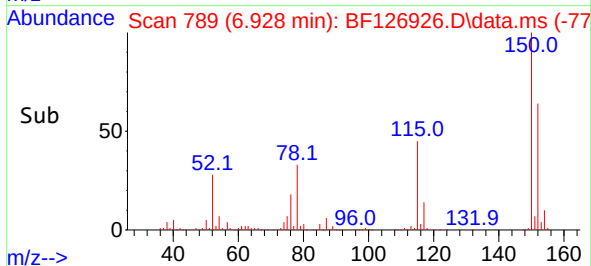
Instrument :  
BNA\_F  
ClientSampleId :  
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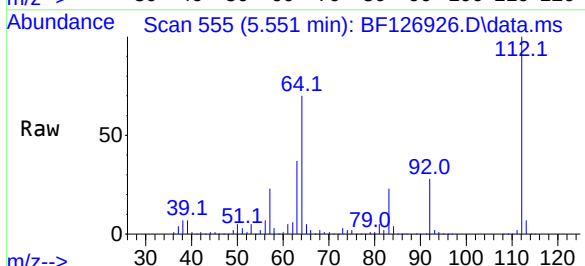
Tgt Ion:152 Resp: 112769  
Ion Ratio Lower Upper  
152 100  
150 156.3 128.1 192.1  
115 70.3 56.7 85.1

Manual Integrations  
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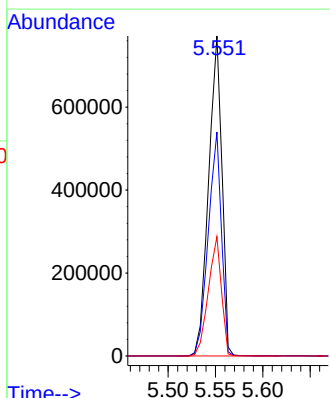
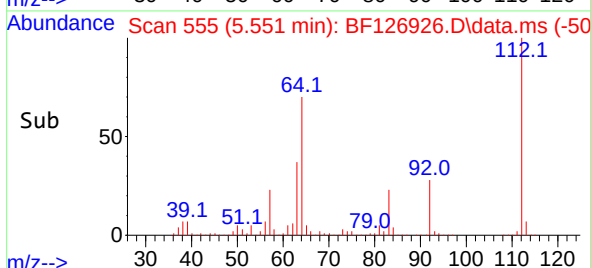
Reviewed By :Christian Giraldo 02/18/2022  
Supervised By :Jagrut Upadhyay 02/18/2022

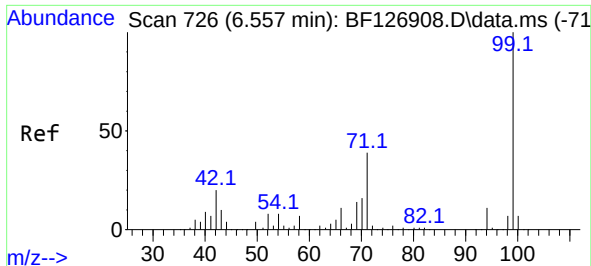


#5  
2-Fluorophenol  
Concen: 103.515 ng  
RT: 5.551 min Scan# 555  
Delta R.T. 0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52



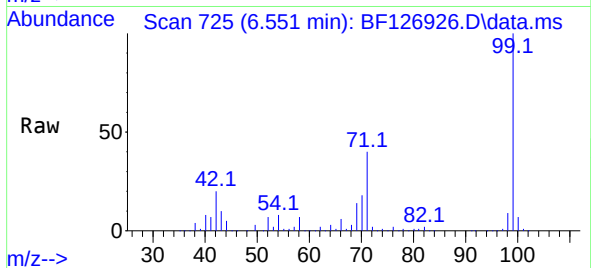
Tgt Ion:112 Resp: 755270  
Ion Ratio Lower Upper  
112 100  
64 70.0 49.5 74.3  
63 37.3 23.9 35.9





#7  
Phenol-d6  
Concen: 102.567 ng  
RT: 6.551 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

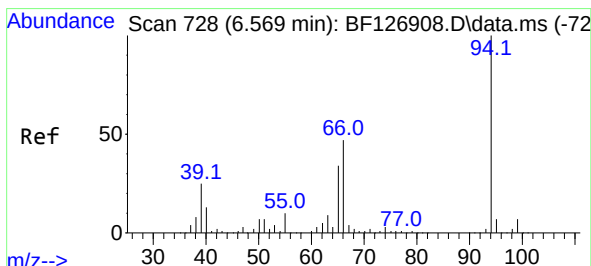
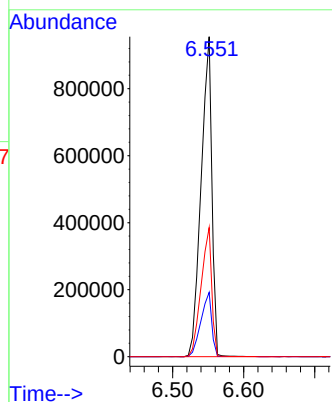
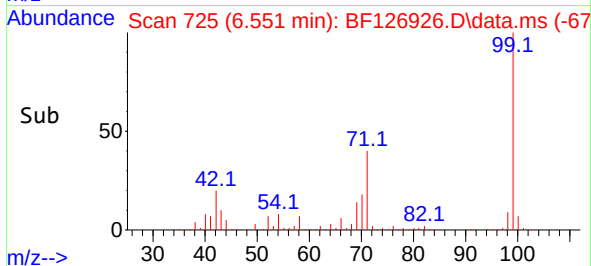
Instrument :  
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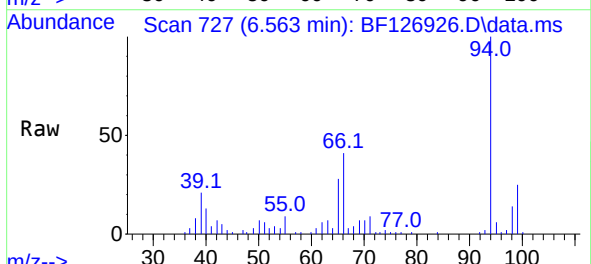
Tgt Ion: 99 Resp: 100979  
Ion Ratio Lower Upper  
99 100  
42 20.1 14.2 21.4  
71 40.4 24.3 36.5

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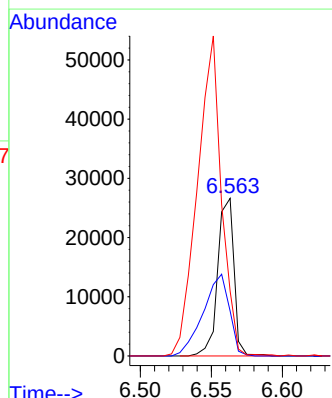
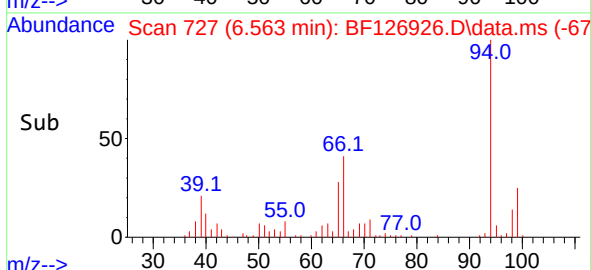
Reviewed By :Christian Giraldo 02/18/2022  
Supervised By :Jagrut Upadhyay 02/18/2022

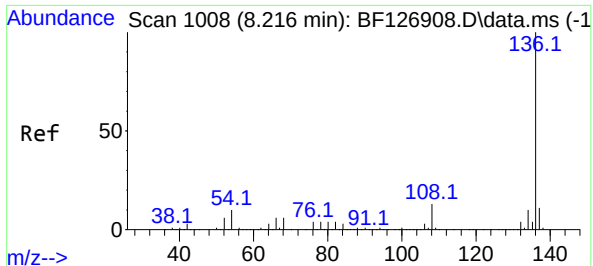


#10  
Phenol  
Concen: 2.128 ng  
RT: 6.563 min Scan# 727  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52



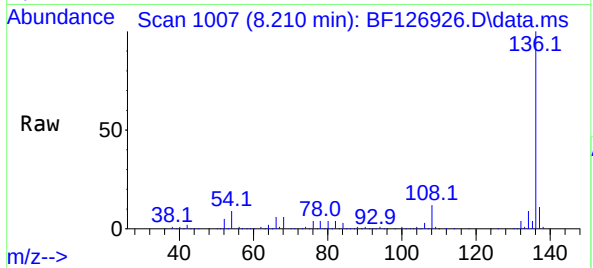
Tgt Ion: 94 Resp: 21171  
Ion Ratio Lower Upper  
94 100  
65 28.5 7.2 47.2  
66 41.2 14.5 54.5





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.210 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

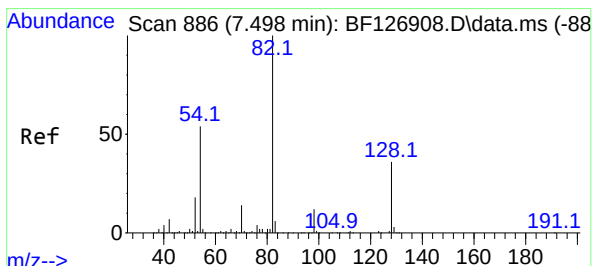
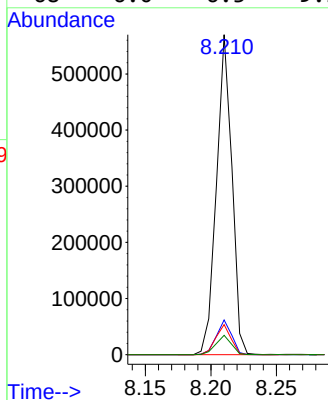
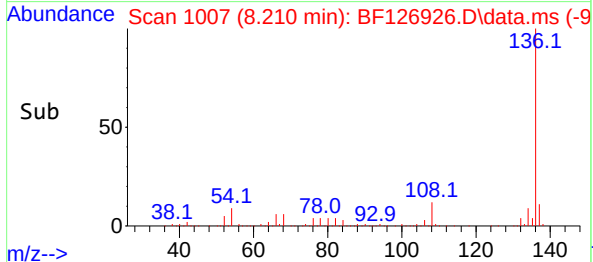
Instrument :  
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ClientSampleId :  
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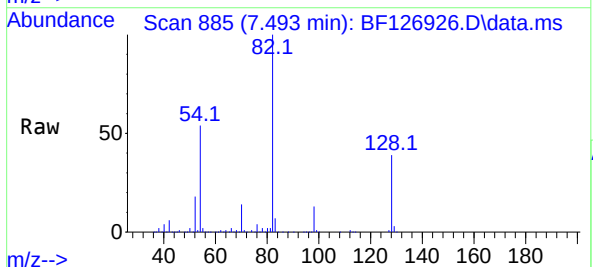
Tgt Ion:136 Resp: 465524  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.6 13.0  
54 9.4 7.8 11.6  
68 6.0 6.3 9.5#

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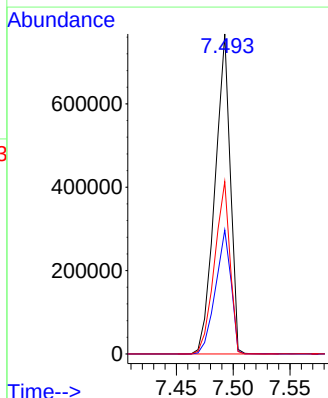
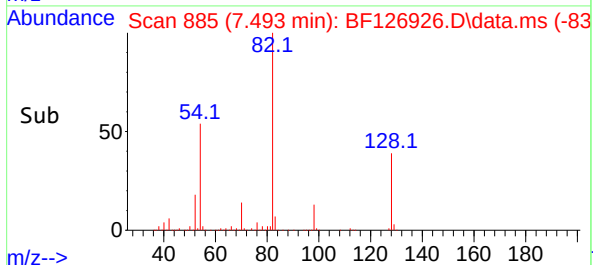
Reviewed By :Christian Giraldo 02/18/2022  
Supervised By :Jagrut Upadhyay 02/18/2022

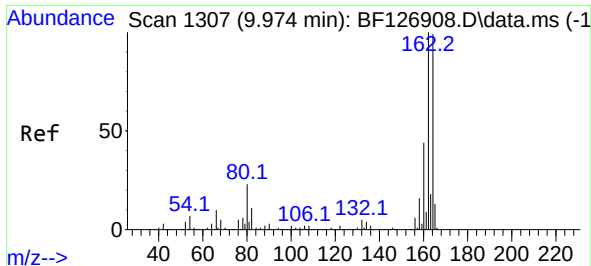


#23  
Nitrobenzene-d5  
Concen: 69.971 ng  
RT: 7.493 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52



Tgt Ion: 82 Resp: 721649  
Ion Ratio Lower Upper  
82 100  
128 38.7 32.7 49.1  
54 53.8 41.7 62.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.969 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF126926.D

Acq: 17 Feb 2022 14:52

Instrument :

BNA\_F

ClientSampleId :

TP-2

Tgt Ion:164 Resp: 246630

Ion Ratio Lower Upper

164 100

162 99.5 81.4 122.0

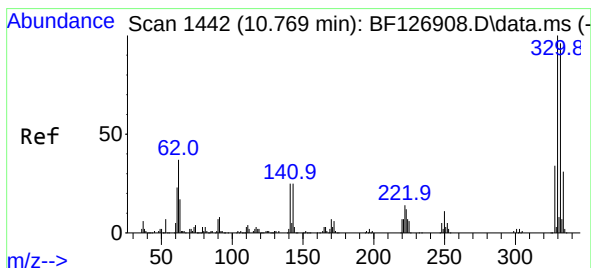
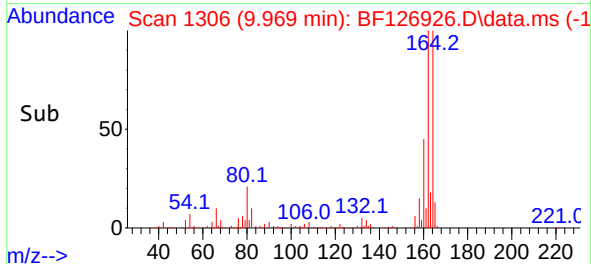
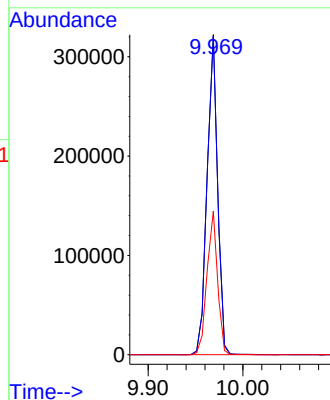
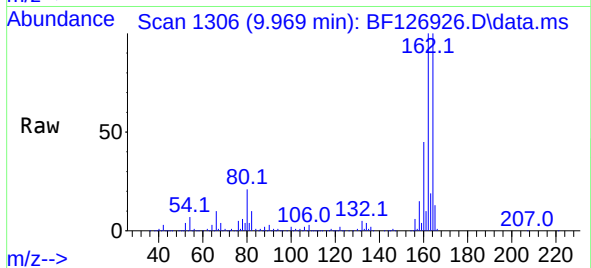
160 44.8 36.6 54.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 02/18/2022



#42

2,4,6-Tribromophenol

Concen: 110.175 ng

RT: 10.763 min Scan# 1441

Delta R.T. -0.006 min

Lab File: BF126926.D

Acq: 17 Feb 2022 14:52

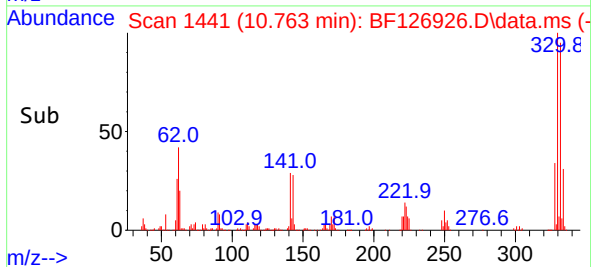
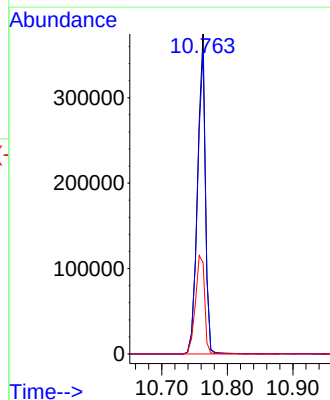
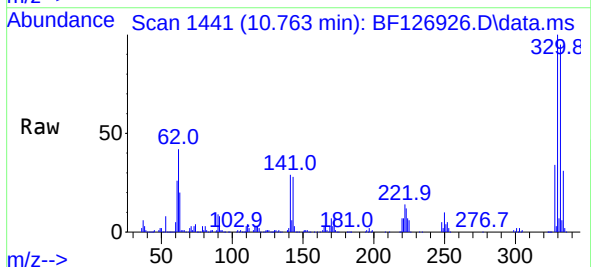
Tgt Ion:330 Resp: 312853

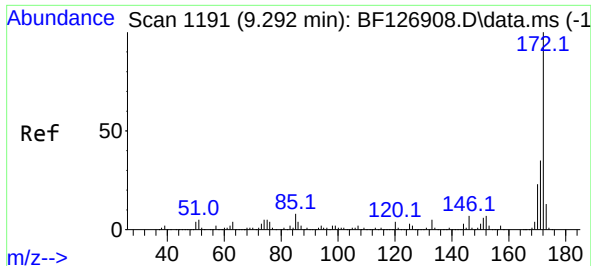
Ion Ratio Lower Upper

330 100

332 96.1 76.0 114.0

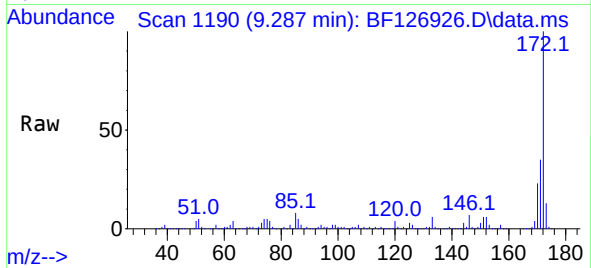
141 36.0 30.1 45.1





#45  
2-Fluorobiphenyl  
Concen: 69.949 ng  
RT: 9.287 min Scan# 1191  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

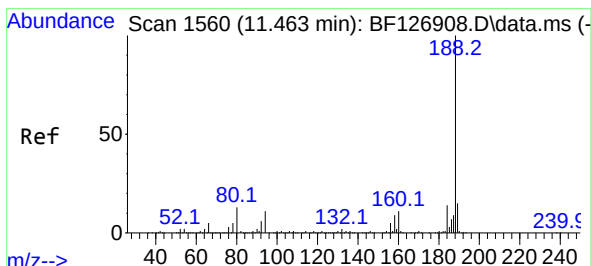
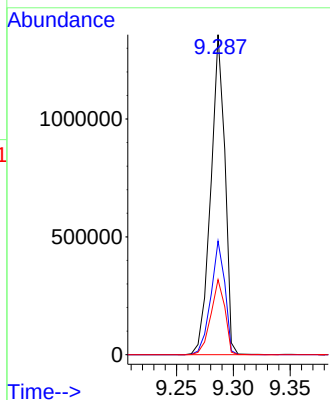
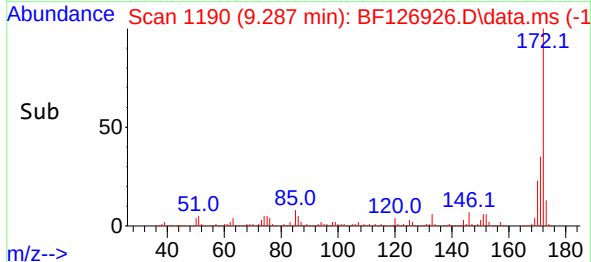
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion:172 Resp: 117185  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.3 42.5  
170 23.5 19.0 28.6

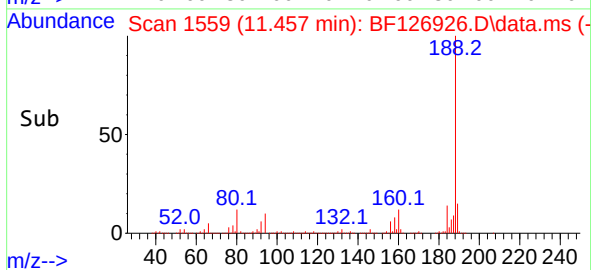
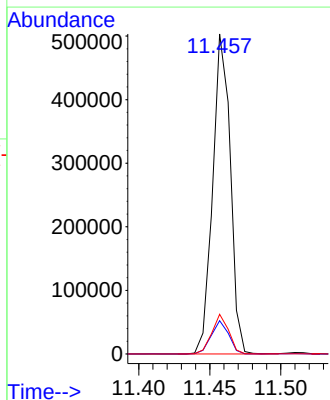
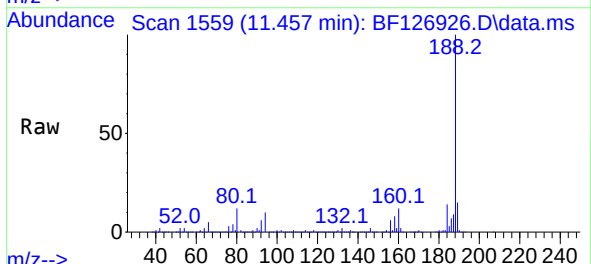
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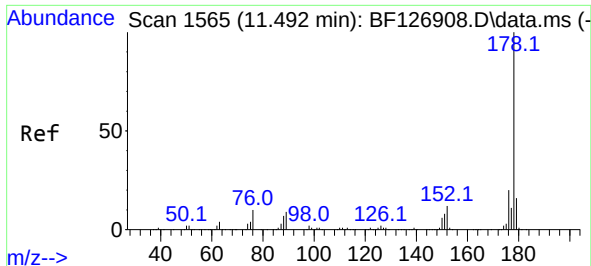
Reviewed By :Christian Giraldo 02/18/2022  
Supervised By :Jagrut Upadhyay 02/18/2022



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.457 min Scan# 1559  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

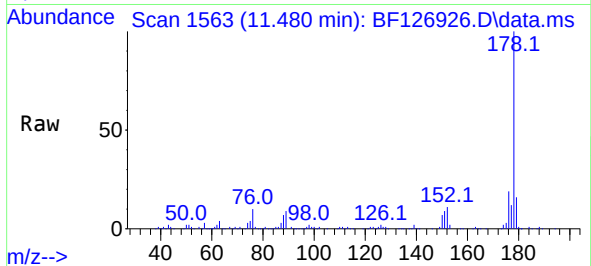
Tgt Ion:188 Resp: 432677  
Ion Ratio Lower Upper  
188 100  
94 10.4 10.1 15.1  
80 12.4 11.8 17.6





#71  
Phenanthrene  
Concen: 2.973 ng  
RT: 11.480 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

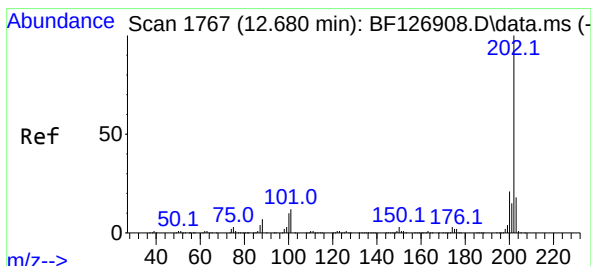
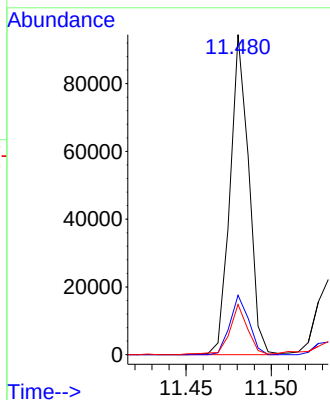
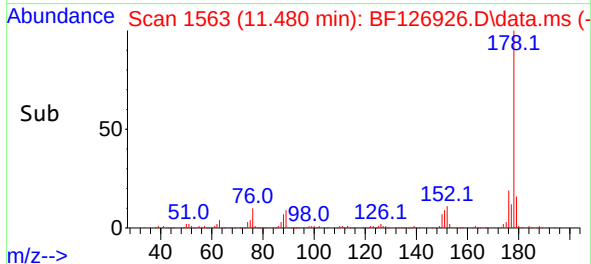
Instrument :  
BNA\_F  
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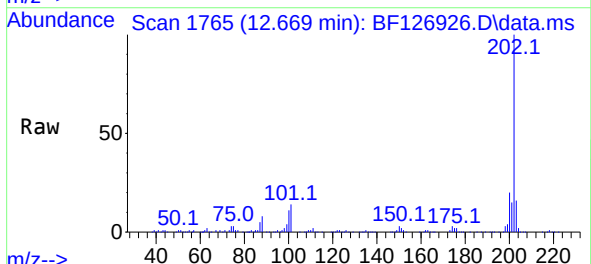
Tgt Ion:178 Resp: 71988  
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178 100  
176 18.5 15.7 23.5  
179 15.7 12.3 18.5

Manual Integrations  
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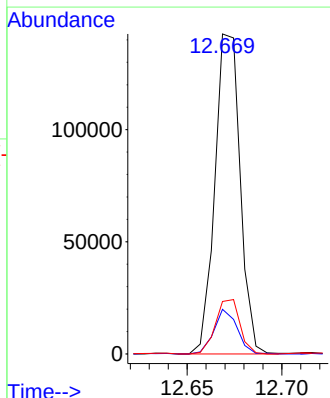
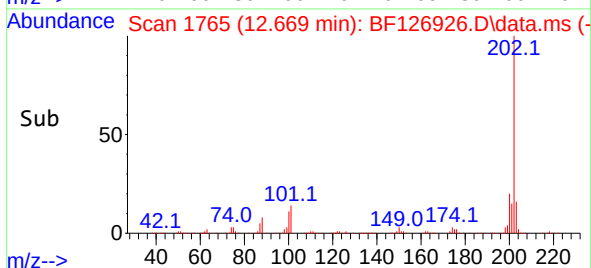
Reviewed By :Christian Giraldo 02/18/2022  
Supervised By :Jagrut Upadhyay 02/18/2022



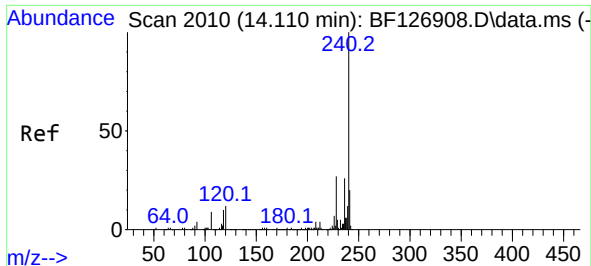
#75  
Fluoranthene  
Concen: 5.771 ng  
RT: 12.669 min Scan# 1765  
Delta R.T. -0.012 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52



Tgt Ion:202 Resp: 132708  
Ion Ratio Lower Upper  
202 100  
101 13.9 0.0 35.7  
203 16.4 0.0 37.1

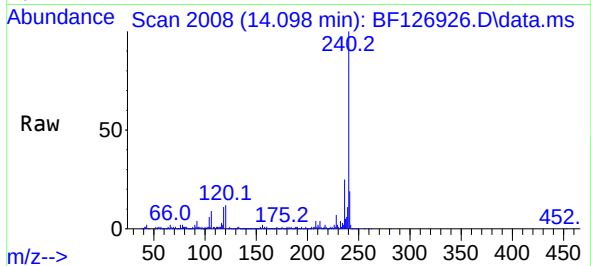






#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.098 min Scan# 2010  
Delta R.T. -0.012 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

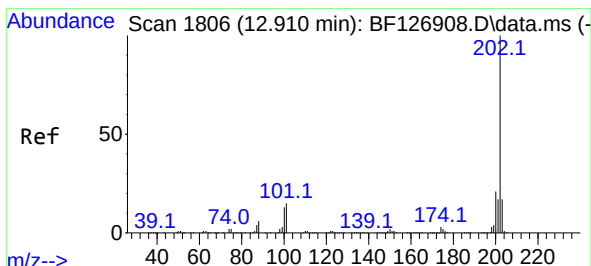
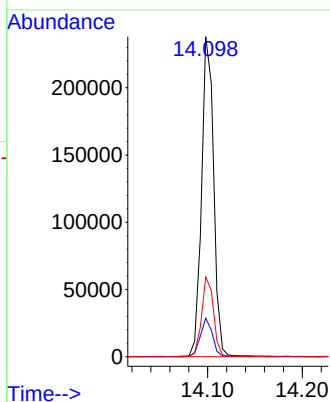
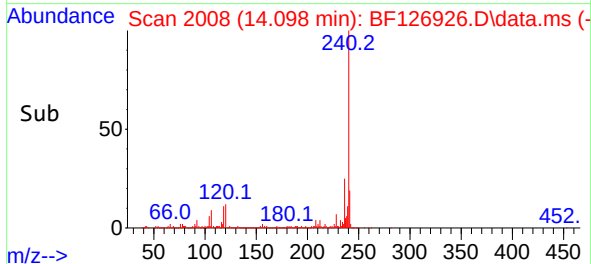
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2



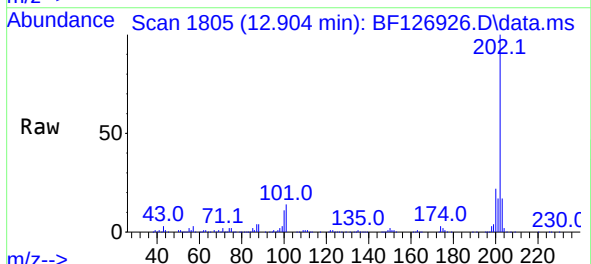
Tgt Ion:240 Resp: 211924  
Ion Ratio Lower Upper  
240 100  
120 12.0 14.4 21.6  
236 24.9 20.5 30.7

Manual Integrations  
APPROVED

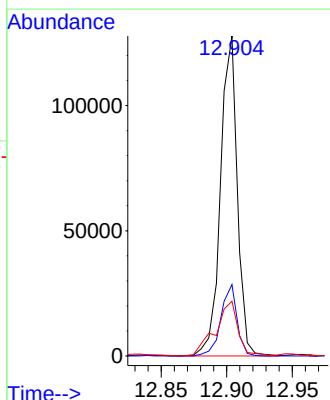
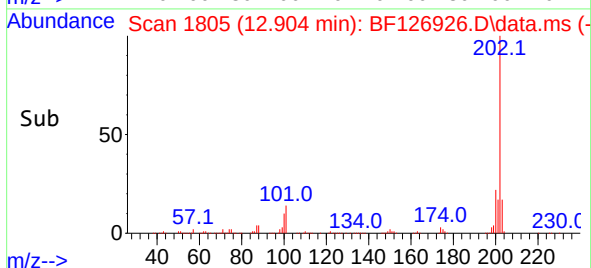
Reviewed By :Christian Giraldo 02/18/2022  
Supervised By :Jagrut Upadhyay 02/18/2022

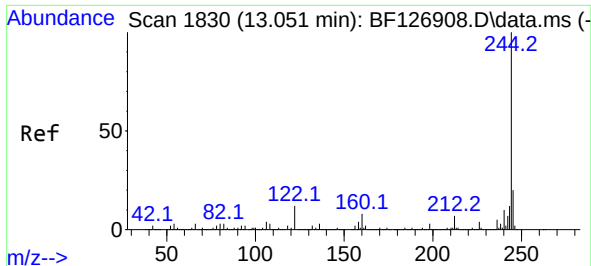


#78  
Pyrene  
Concen: 6.178 ng  
RT: 12.904 min Scan# 1805  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52



Tgt Ion:202 Resp: 113739  
Ion Ratio Lower Upper  
202 100  
200 22.3 16.6 24.8  
203 17.1 13.8 20.8





#79  
 Terphenyl-d14  
 Concen: 82.315 ng  
 RT: 13.045 min Scan# 1829  
 Delta R.T. -0.006 min  
 Lab File: BF126926.D  
 Acq: 17 Feb 2022 14:52

Instrument :

BNA\_F

ClientSampleId :

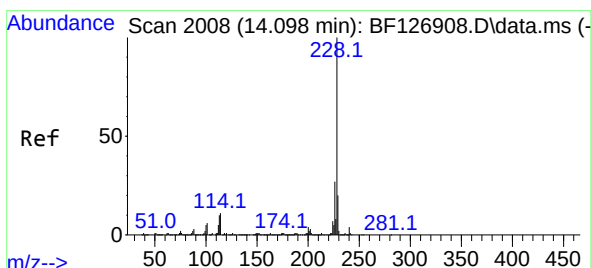
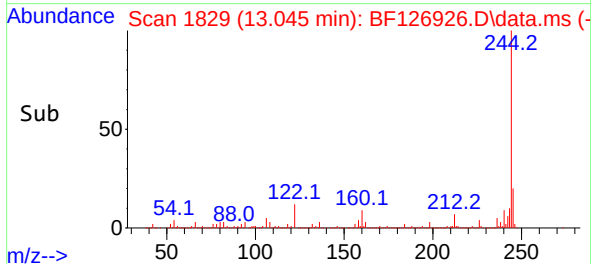
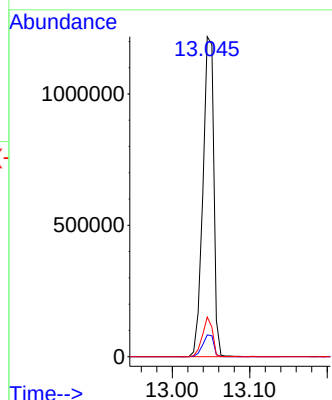
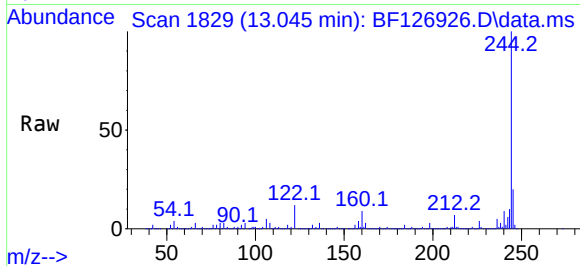
TP-2

Tgt Ion:244 Resp: 118666  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.0 7.4  
 122 12.4 13.3 19.9

Manual Integrations

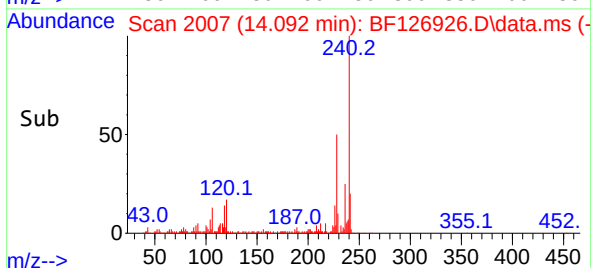
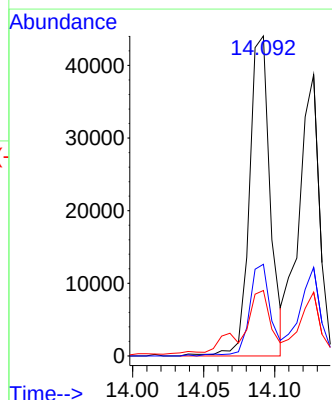
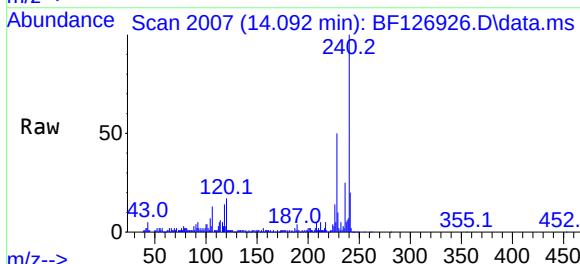
APPROVED

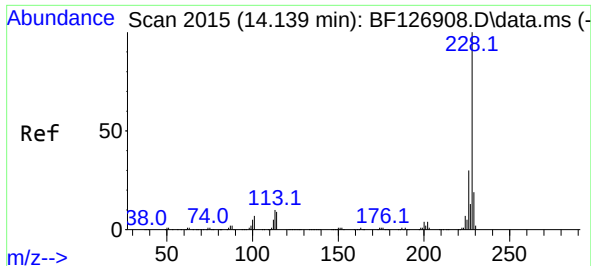
Reviewed By :Christian Giraldo 02/18/2022  
 Supervised By :Jagrut Upadhyay 02/18/2022



#81  
 Benzo(a)anthracene  
 Concen: 3.134 ng  
 RT: 14.092 min Scan# 2007  
 Delta R.T. -0.006 min  
 Lab File: BF126926.D  
 Acq: 17 Feb 2022 14:52

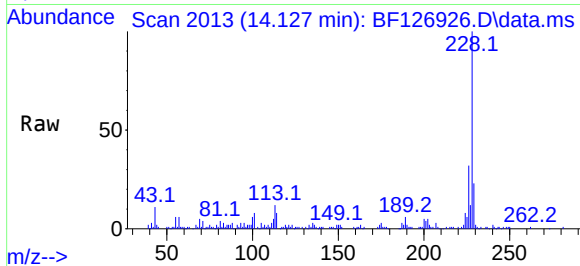
Tgt Ion:228 Resp: 44769  
 Ion Ratio Lower Upper  
 228 100  
 226 28.7 21.4 32.0  
 229 20.5 15.4 23.2





#83  
Chrysene  
Concen: 2.951 ng  
RT: 14.127 min Scan# 2015  
Delta R.T. -0.012 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

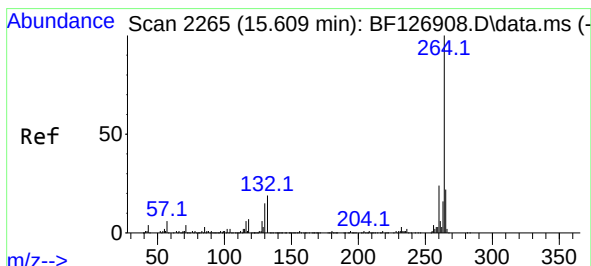
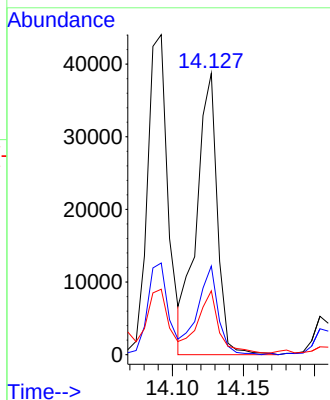
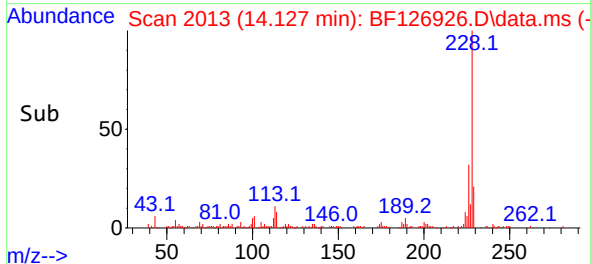
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2



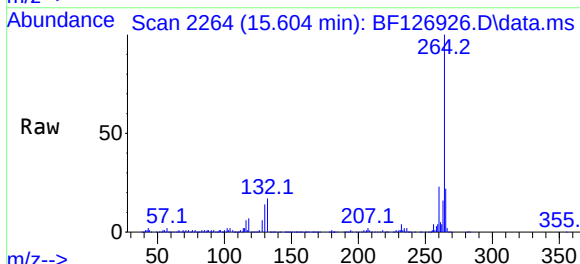
Tgt Ion:228 Resp: 39652  
Ion Ratio Lower Upper  
228 100  
226 31.5 23.7 35.5  
229 22.7 15.5 23.3

Manual Integrations  
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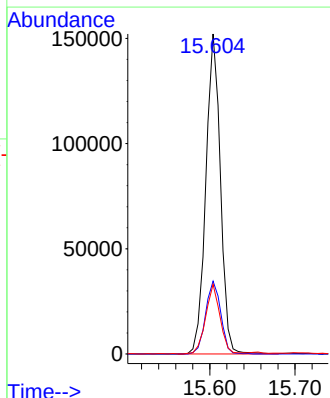
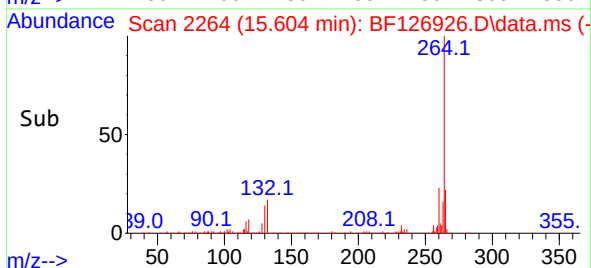
Reviewed By :Christian Giraldo 02/18/2022  
Supervised By :Jagrut Upadhyay 02/18/2022

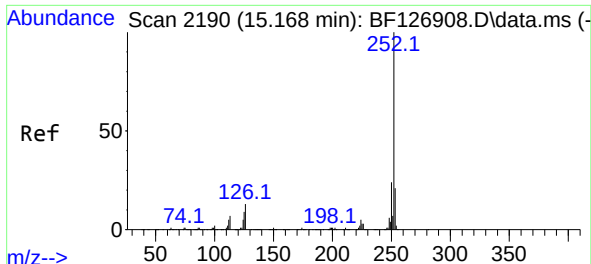


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.604 min Scan# 2264  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52



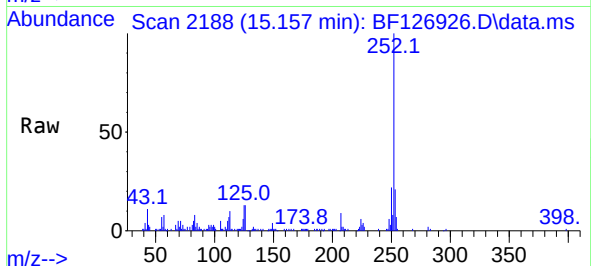
Tgt Ion:264 Resp: 180594  
Ion Ratio Lower Upper  
264 100  
260 22.8 19.2 28.8  
265 21.8 17.4 26.2





#88  
Benzo(b)fluoranthene  
Concen: 3.857 ng m  
RT: 15.157 min Scan# 2188  
Delta R.T. -0.012 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52

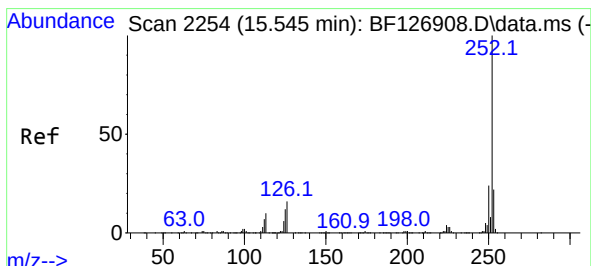
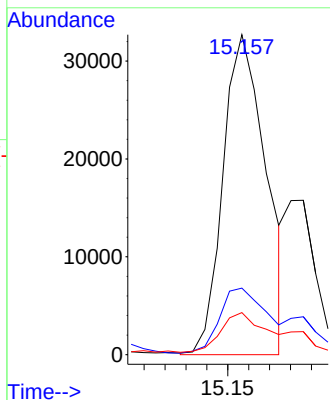
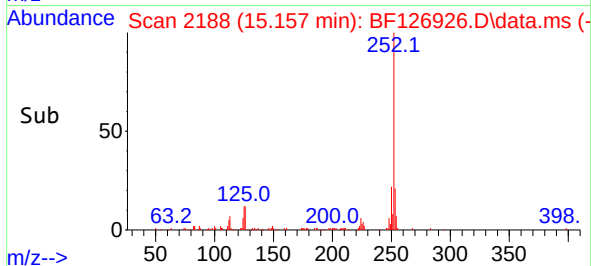
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2



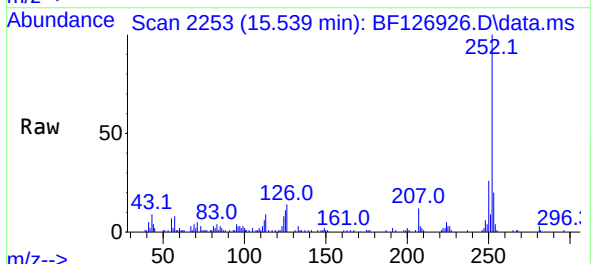
Tgt Ion:252 Resp: 46789  
Ion Ratio Lower Upper  
252 100  
253 20.8 17.8 26.8  
125 13.1 12.4 18.6

Manual Integrations  
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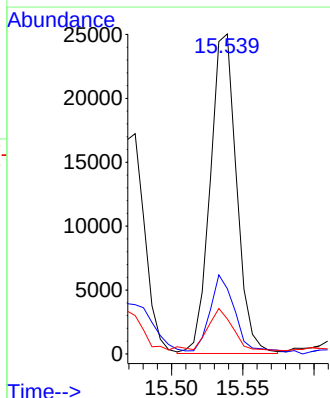
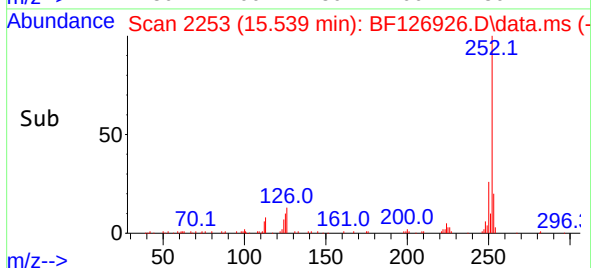
Reviewed By :Christian Giraldo 02/18/2022  
Supervised By :Jagrut Upadhyay 02/18/2022

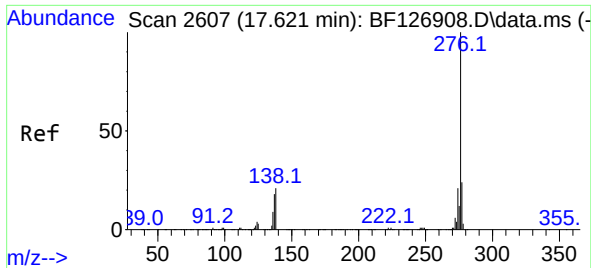


#90  
Benzo(a)pyrene  
Concen: 3.400 ng m  
RT: 15.539 min Scan# 2253  
Delta R.T. -0.006 min  
Lab File: BF126926.D  
Acq: 17 Feb 2022 14:52



Tgt Ion:252 Resp: 32216  
Ion Ratio Lower Upper  
252 100  
253 20.4 17.1 25.7  
125 11.0 13.0 19.6#





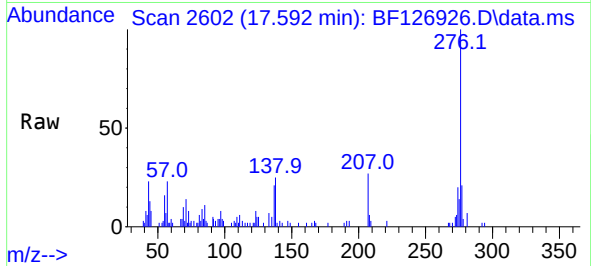
#92  
 Benzo(g,h,i)perylene  
 Concen: 2.252 ng  
 RT: 17.592 min Scan# 20  
 Delta R.T. -0.029 min  
 Lab File: BF126926.D  
 Acq: 17 Feb 2022 14:52

Instrument :

BNA\_F

ClientSampleId :

TP-2



Tgt Ion: 276 Resp: 2174

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 21.3  | 18.5  | 27.7  |
| 138 | 24.8  | 25.9  | 38.9  |

Manual Integrations

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Reviewed By : Christian Giraldo 02/18/2022  
 Supervised By : Jagrut Upadhyay 02/18/2022

