

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051722\  
 Data File : BF128298.D  
 Acq On : 17 May 2022 18:42  
 Operator : CG\JU  
 Sample : N2879-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP1-0516

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/18/2022  
 Supervised By : Jagrut Upadhyay 05/18/2022

Quant Time: May 18 01:34:35 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF050922.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 18 01:31:11 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.875  | 152  | 75781    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.157  | 136  | 284104   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.916  | 164  | 145186   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.410 | 188  | 222835   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12            | 14.057 | 240  | 179517   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.551 | 264  | 171201   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.498  | 112  | 500510   | 105.288 | ng    | 0.00     |
| 7) Phenol-d6                | 6.510  | 99   | 660066   | 104.980 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.439  | 82   | 477867   | 75.685  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.710 | 330  | 156557   | 94.022  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.233  | 172  | 736355   | 79.358  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.992 | 244  | 614729   | 64.255  | ng    | -0.01    |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 11.433 | 178  | 139316   | 12.556  | ng    | 99       |
| 72) Anthracene              | 11.486 | 178  | 36350    | 3.281   | ng    | 98       |
| 75) Fluoranthene            | 12.627 | 202  | 196523   | 16.337  | ng    | 97       |
| 78) Pyrene                  | 12.857 | 202  | 214717   | 16.496  | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.045 | 228  | 154882   | 13.508  | ng    | 99       |
| 83) Chrysene                | 14.080 | 228  | 139450   | 12.746  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.062 | 276  | 91460    | 8.831   | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.110 | 252  | 205982m  | 19.409  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.139 | 252  | 76288m   | 7.282   | ng    |          |
| 90) Benzo(a)pyrene          | 15.486 | 252  | 181693   | 21.206  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 17.068 | 278  | 27388    | 3.267   | ng    | # 84     |
| 92) Benzo(g,h,i)perylene    | 17.527 | 276  | 93123    | 10.969  | ng    | 96       |
| -----                       |        |      |          |         |       |          |

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

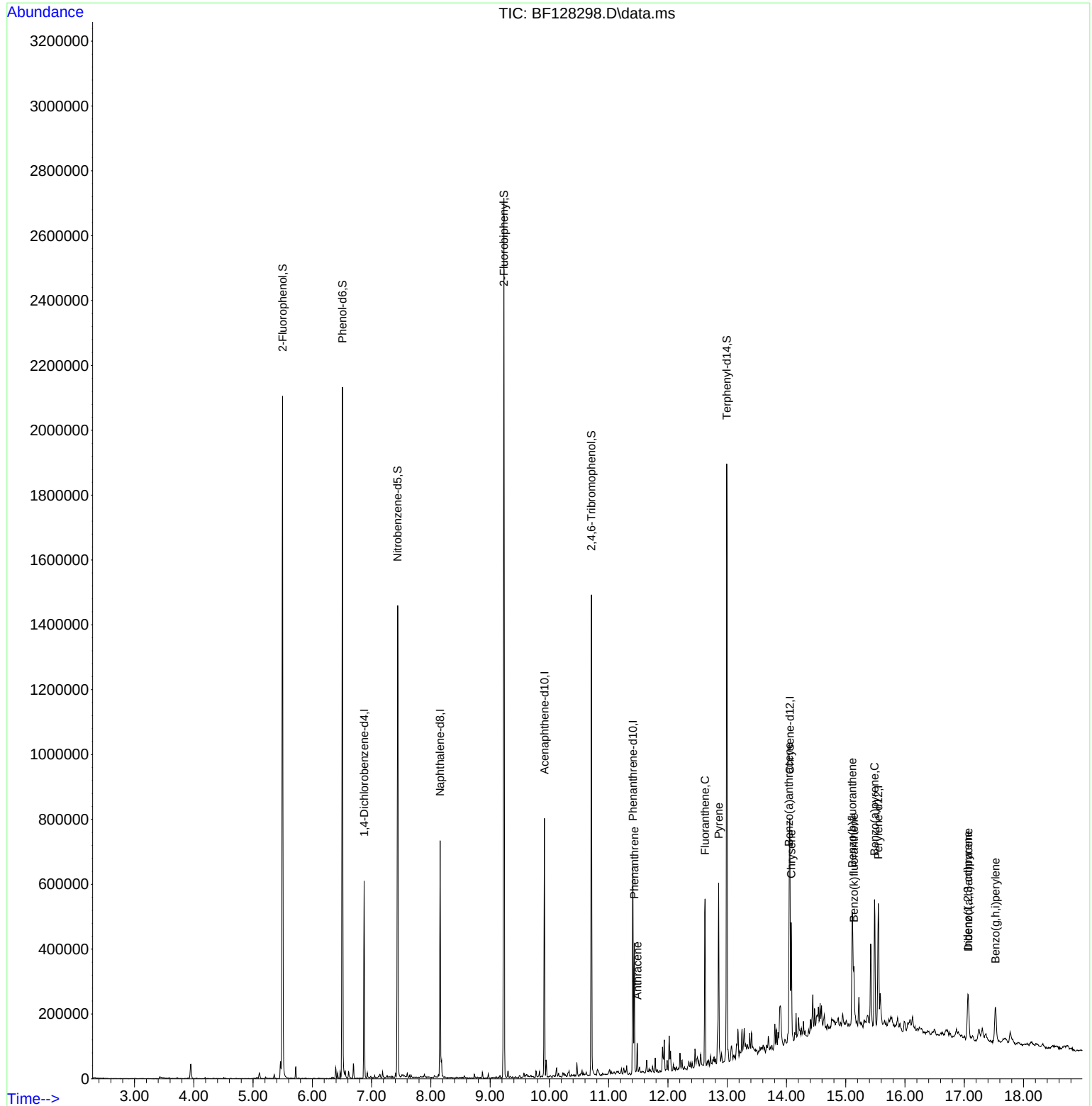
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051722\  
Data File : BF128298.D  
Acq On : 17 May 2022 18:42  
Operator : CG\JU  
Sample : N2879-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

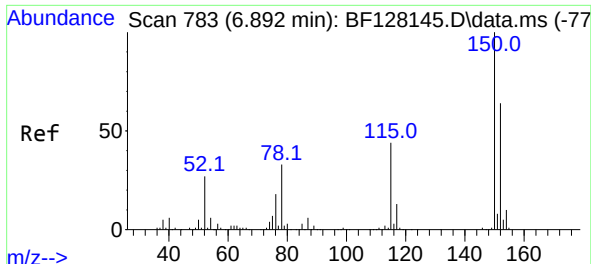
Instrument :  
BNA\_F  
ClientSampleId :  
TP1-0516

Quant Time: May 18 01:34:35 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF050922.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 18 01:31:11 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

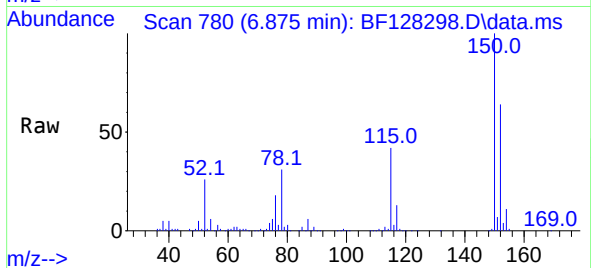
Reviewed By : Christian Giraldo 05/18/2022  
Supervised By : Jagrut Upadhyay 05/18/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

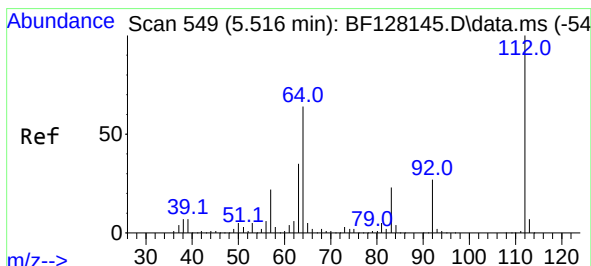
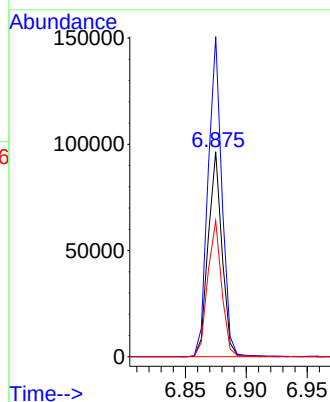
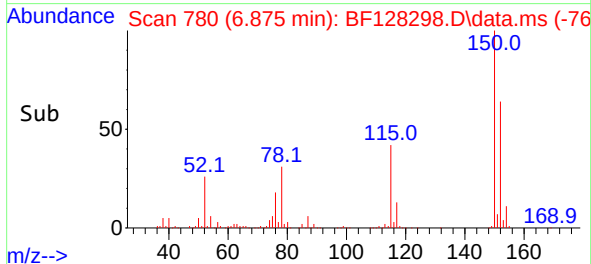
Instrument :  
BNA\_F  
ClientSampleId :  
TP1-0516



Tgt Ion:152 Resp: 7578  
Ion Ratio Lower Upper  
152 100  
150 156.2 125.3 187.9  
115 66.3 48.8 73.2

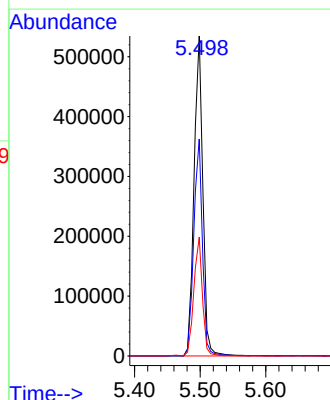
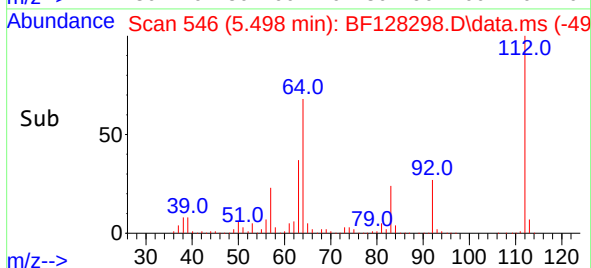
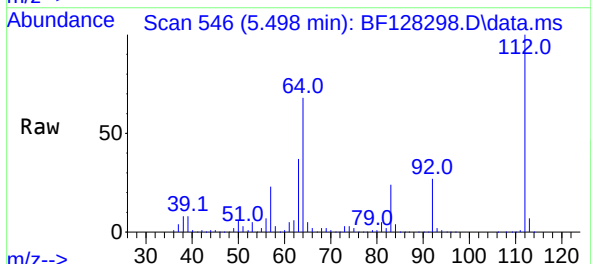
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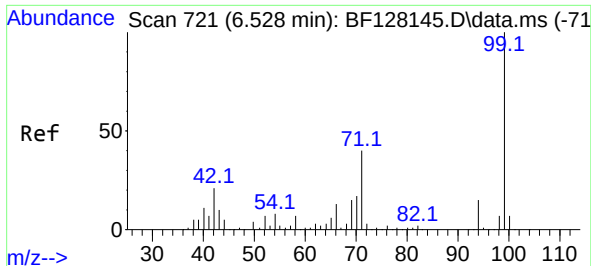
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022



#5  
2-Fluorophenol  
Concen: 105.288 ng  
RT: 5.498 min Scan# 546  
Delta R.T. 0.000 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

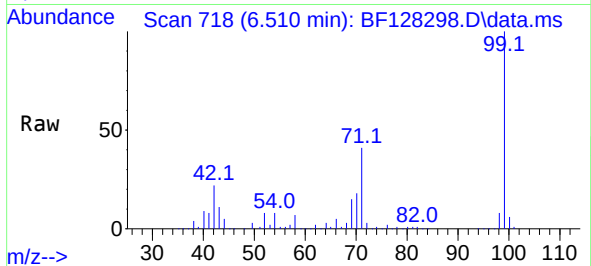
Tgt Ion:112 Resp: 500510  
Ion Ratio Lower Upper  
112 100  
64 67.8 49.5 74.3  
63 37.1 26.3 39.5





#7  
Phenol-d6  
Concen: 104.980 ng  
RT: 6.510 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

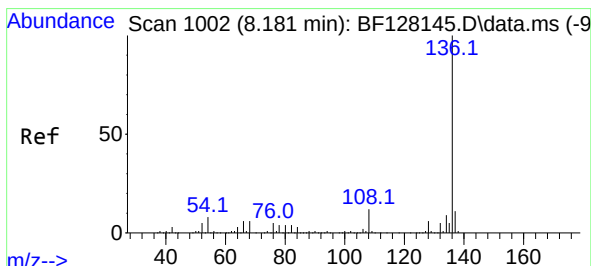
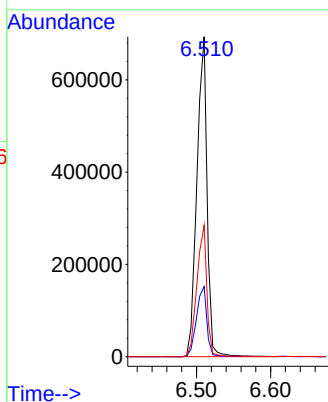
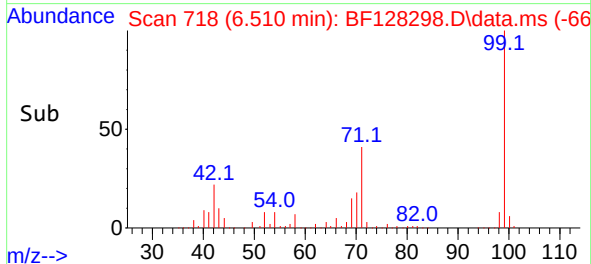
Instrument :  
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ClientSampleId :  
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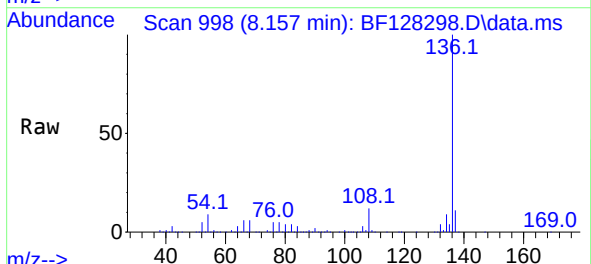
Tgt Ion: 99 Resp: 660060  
Ion Ratio Lower Upper  
99 100  
42 21.9 16.6 24.8  
71 41.0 30.0 45.0

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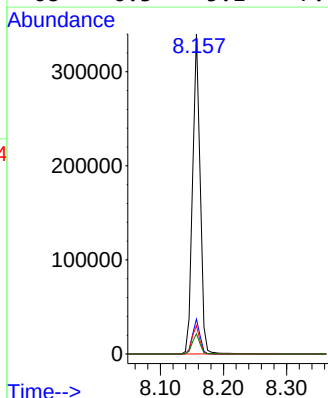
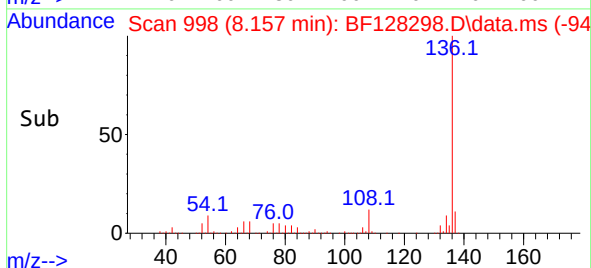
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022

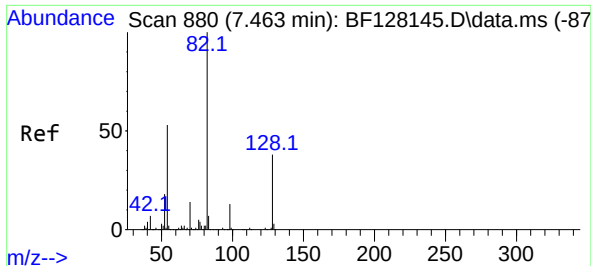


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 998  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42



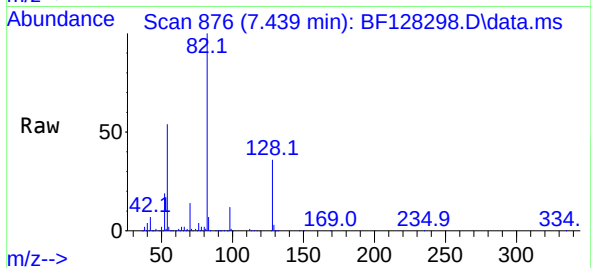
Tgt Ion:136 Resp: 284104  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 13.0  
54 8.8 6.8 10.2  
68 6.3 5.1 7.7





#23  
Nitrobenzene-d5  
Concen: 75.685 ng  
RT: 7.439 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

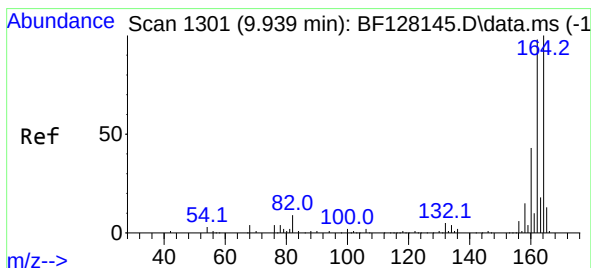
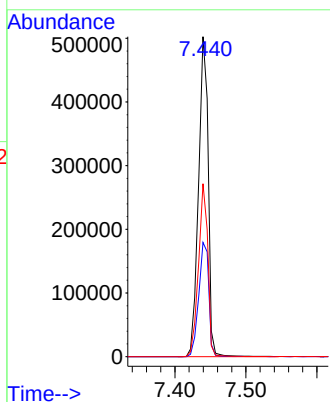
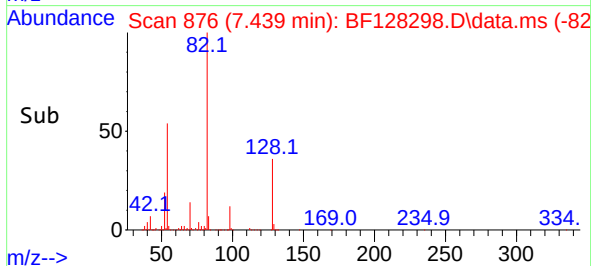
Instrument :  
BNA\_F  
ClientSampleId :  
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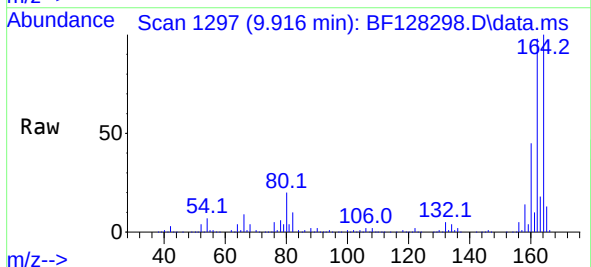
Tgt Ion: 82 Resp: 47786  
Ion Ratio Lower Upper  
82 100  
128 35.7 30.0 45.0  
54 54.1 41.3 61.9

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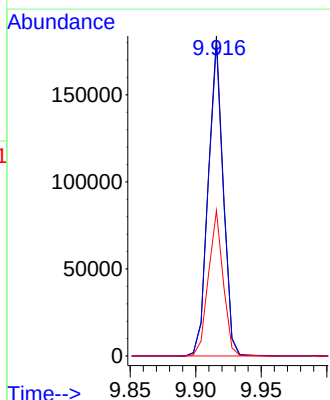
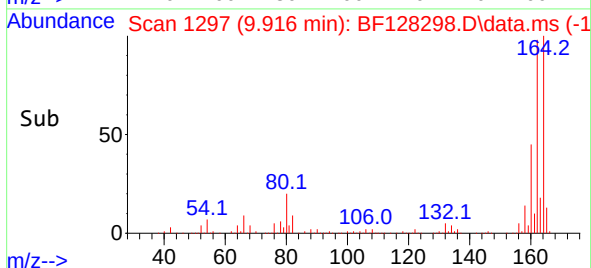
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022

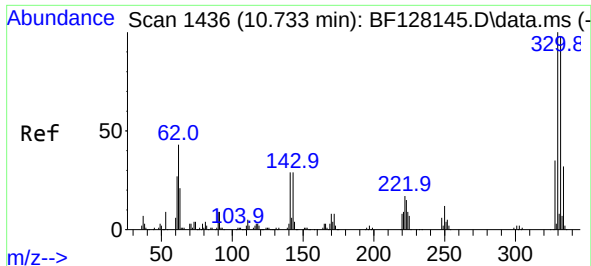


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.916 min Scan# 1297  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42



Tgt Ion:164 Resp: 145186  
Ion Ratio Lower Upper  
164 100  
162 97.6 76.0 114.0  
160 45.4 34.8 52.2





#42  
2,4,6-Tribromophenol  
Concen: 94.022 ng  
RT: 10.710 min Scan# 1436  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

Instrument :

BNA\_F

ClientSampleId :

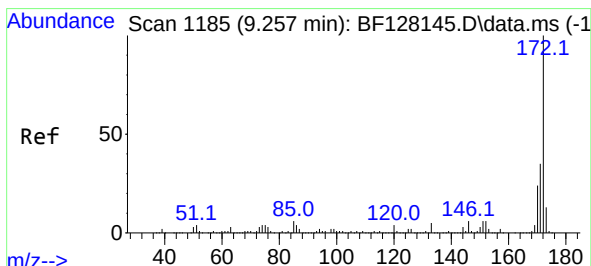
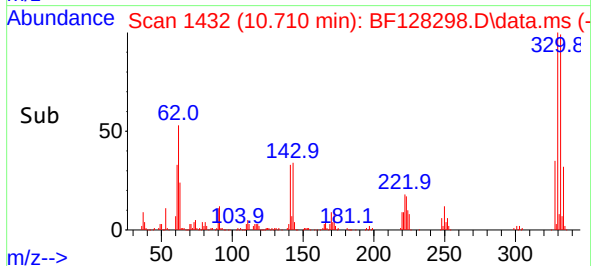
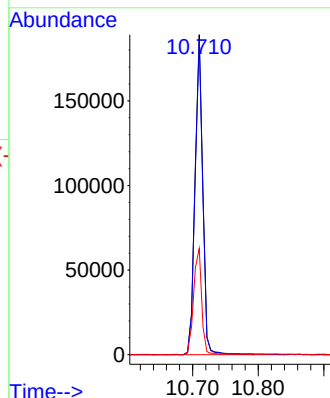
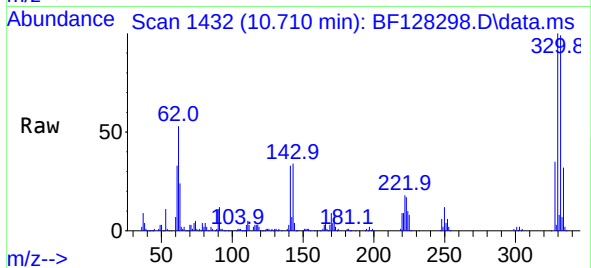
TP1-0516

Tgt Ion:330 Resp: 15655  
Ion Ratio Lower Upper  
330 100  
332 96.8 79.0 118.4  
141 35.1 28.9 43.3

Manual Integrations

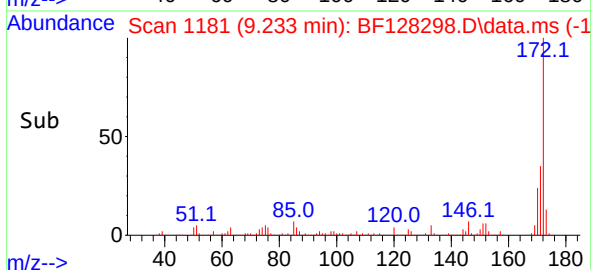
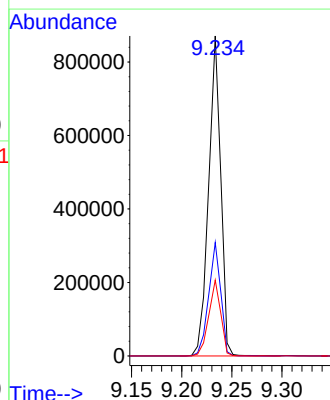
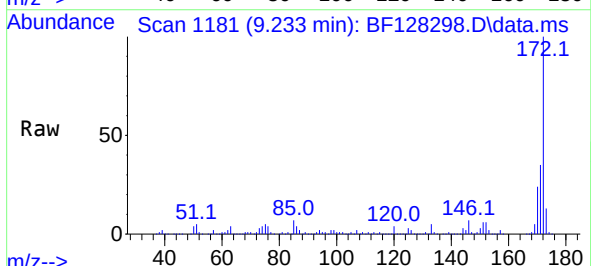
APPROVED

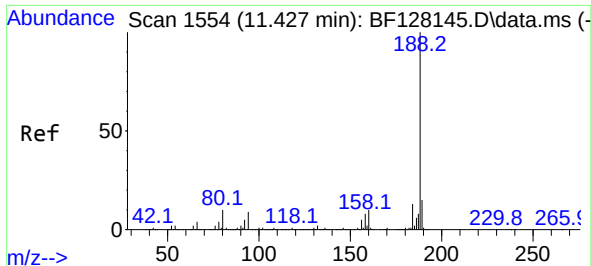
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022



#45  
2-Fluorobiphenyl  
Concen: 79.358 ng  
RT: 9.233 min Scan# 1181  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

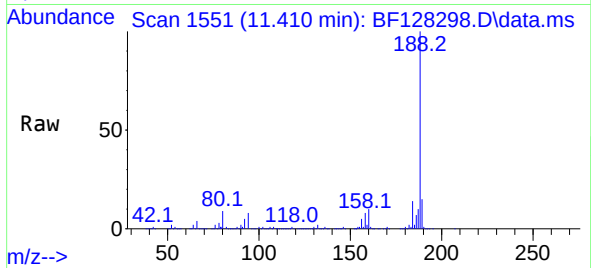
Tgt Ion:172 Resp: 736355  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.6 42.8  
170 23.7 19.1 28.7





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

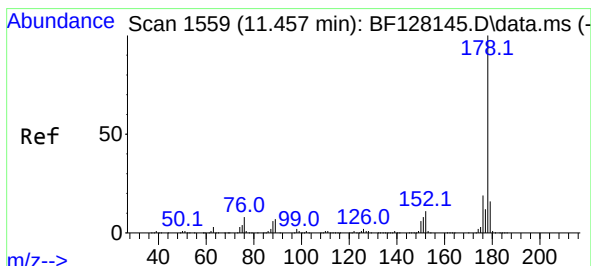
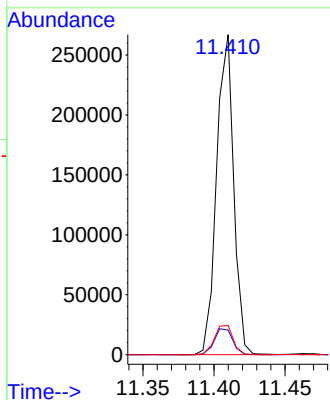
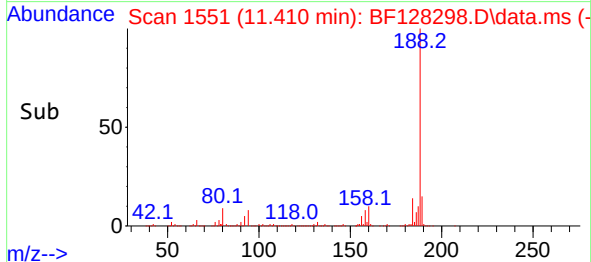
Instrument :  
BNA\_F  
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TP1-0516



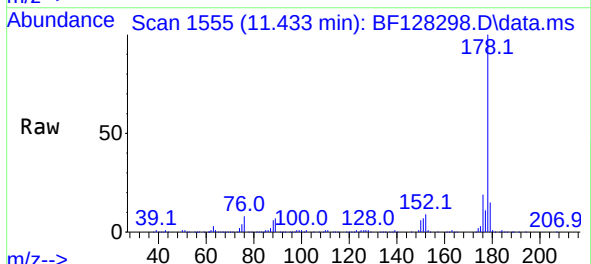
Tgt Ion:188 Resp: 222835  
Ion Ratio Lower Upper  
188 100  
94 7.7 8.0 12.0  
80 9.1 8.9 13.3

Manual Integrations  
APPROVED

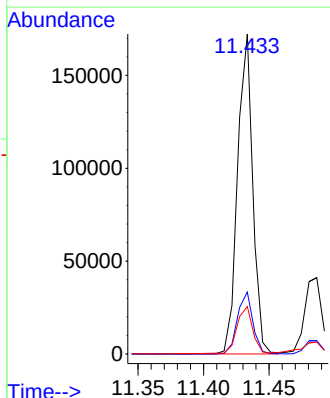
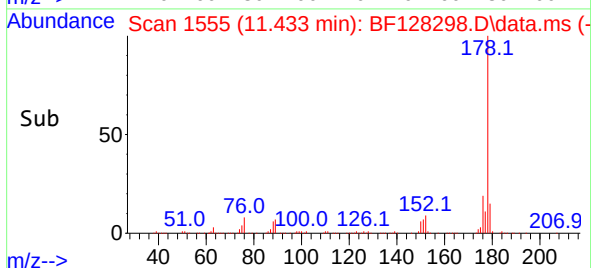
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Supervised By :Jagrut Upadhyay 05/18/2022

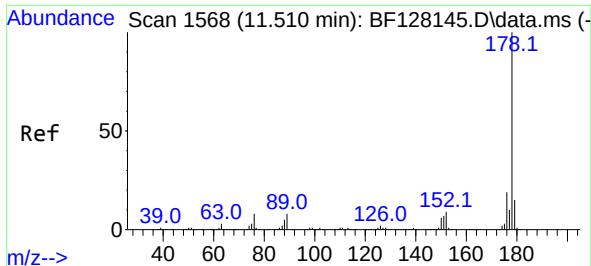


#71  
Phenanthrene  
Concen: 12.556 ng  
RT: 11.433 min Scan# 1555  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42



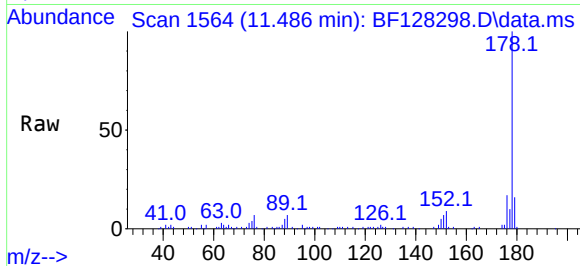
Tgt Ion:178 Resp: 139316  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.7 23.5  
179 14.8 12.6 19.0





#72  
 Anthracene  
 Concen: 3.281 ng  
 RT: 11.486 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF128298.D  
 Acq: 17 May 2022 18:42

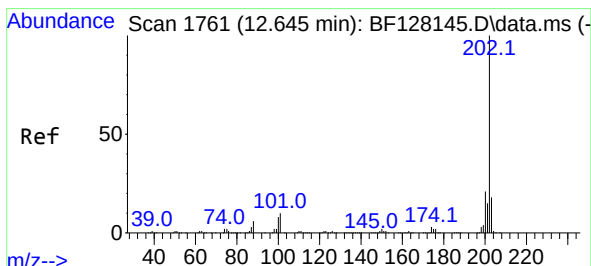
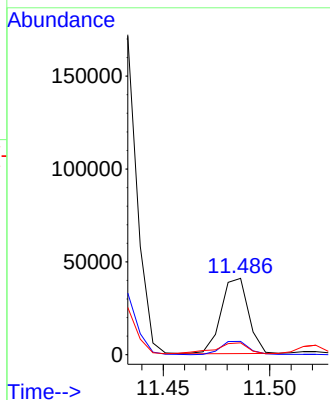
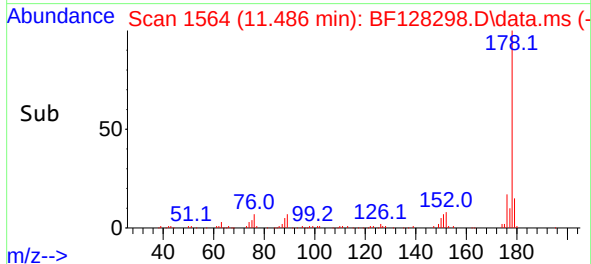
Instrument :  
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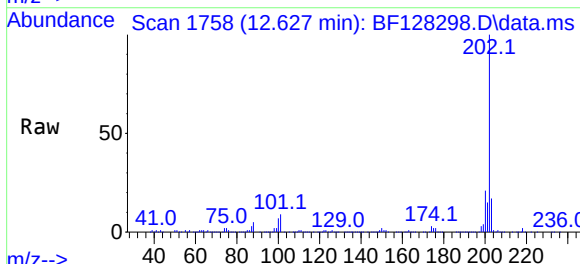
Tgt Ion:178 Resp: 36350  
 Ion Ratio Lower Upper  
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 179 15.5 12.4 18.6

Manual Integrations  
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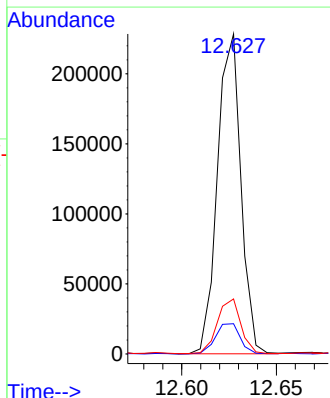
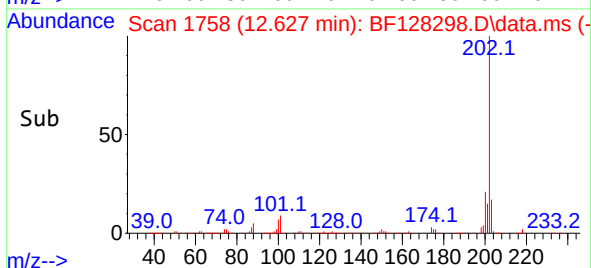
Reviewed By :Christian Giraldo 05/18/2022  
 Supervised By :Jagrut Upadhyay 05/18/2022



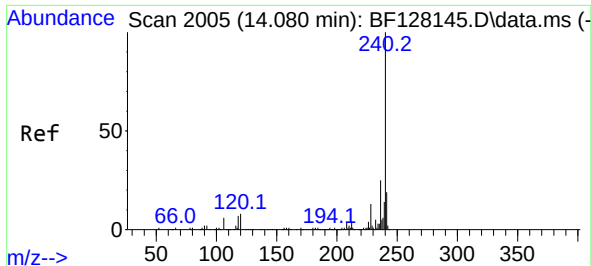
#75  
 Fluoranthene  
 Concen: 16.337 ng  
 RT: 12.627 min Scan# 1758  
 Delta R.T. -0.006 min  
 Lab File: BF128298.D  
 Acq: 17 May 2022 18:42



Tgt Ion:202 Resp: 196523  
 Ion Ratio Lower Upper  
 202 100  
 101 9.4 0.0 31.6  
 203 17.2 0.0 38.1

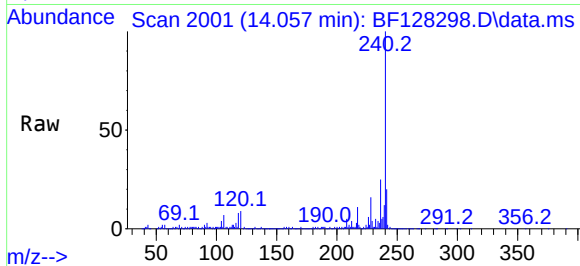






#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2005  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

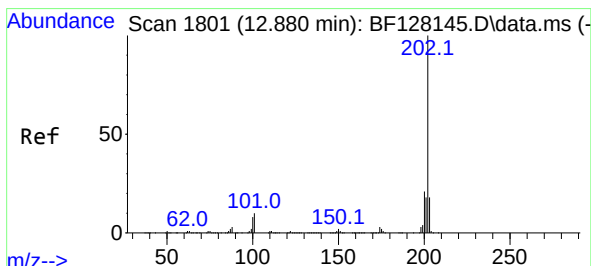
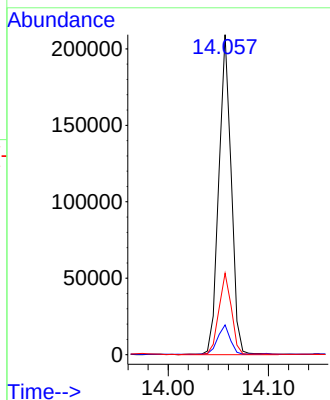
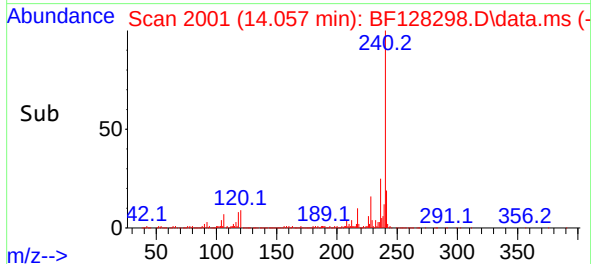
Instrument :  
BNA\_F  
ClientSampleId :  
TP1-0516



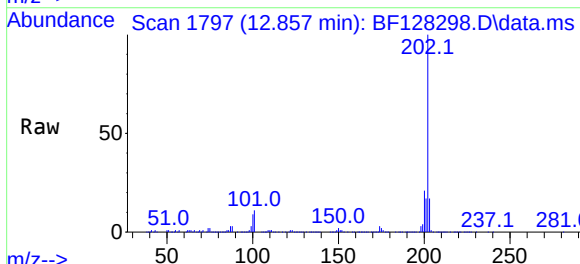
Tgt Ion:240 Resp: 179517  
Ion Ratio Lower Upper  
240 100  
120 9.3 7.0 10.6  
236 25.5 20.3 30.5

Manual Integrations  
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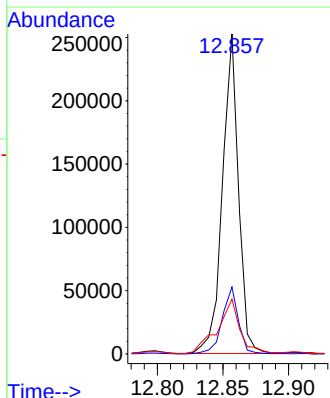
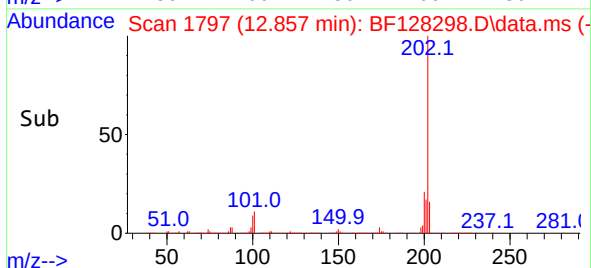
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022

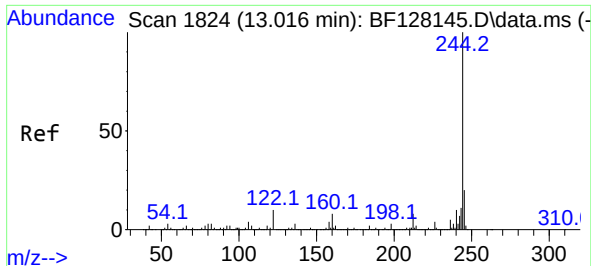


#78  
Pyrene  
Concen: 16.496 ng  
RT: 12.857 min Scan# 1797  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42



Tgt Ion:202 Resp: 214717  
Ion Ratio Lower Upper  
202 100  
200 20.9 17.4 26.2  
203 17.1 14.0 21.0





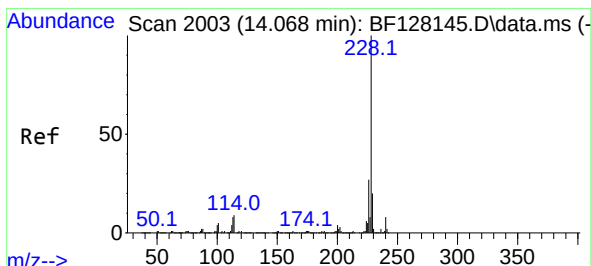
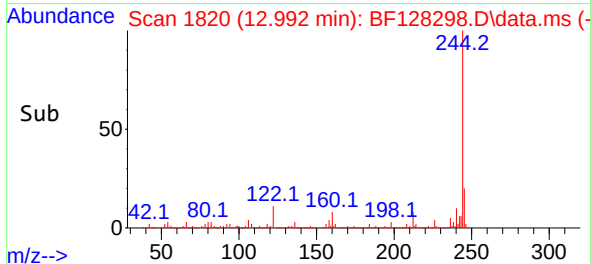
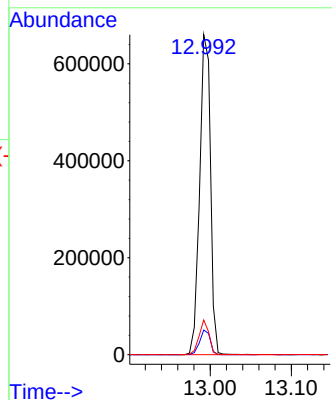
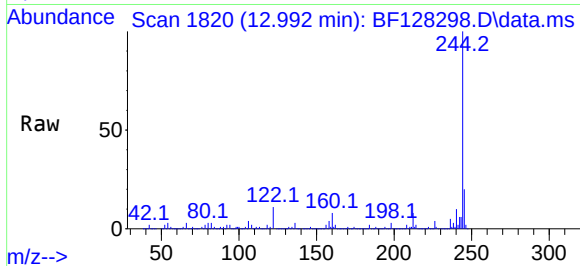
#79  
Terphenyl-d14  
Concen: 64.255 ng  
RT: 12.992 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

Instrument :  
BNA\_F  
ClientSampleId :  
TP1-0516

Tgt Ion:244 Resp: 614729  
Ion Ratio Lower Upper  
244 100  
212 7.7 6.2 9.4  
122 10.8 8.6 12.8

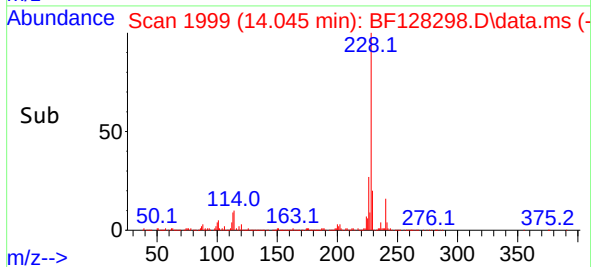
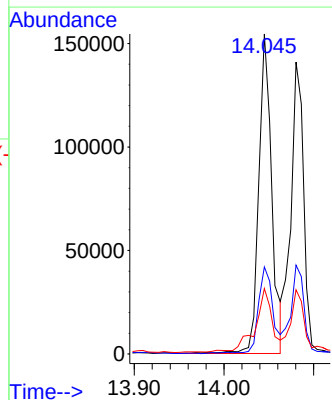
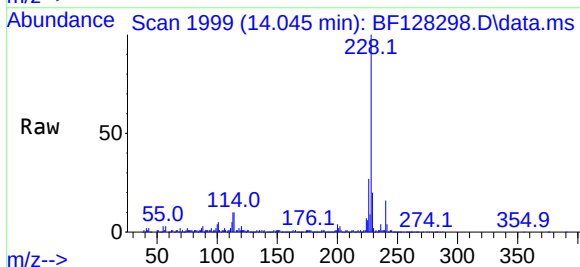
Manual Integrations  
APPROVED

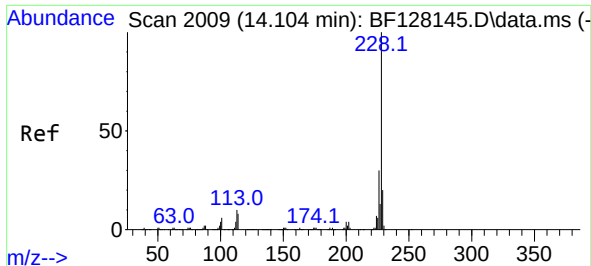
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022



#81  
Benzo(a)anthracene  
Concen: 13.508 ng  
RT: 14.045 min Scan# 1999  
Delta R.T. -0.012 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

Tgt Ion:228 Resp: 154882  
Ion Ratio Lower Upper  
228 100  
226 27.2 21.7 32.5  
229 20.4 15.4 23.2





#83  
Chrysene  
Concen: 12.746 ng  
RT: 14.080 min Scan# 2009  
Delta R.T. -0.012 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

Instrument :

BNA\_F

ClientSampleId :

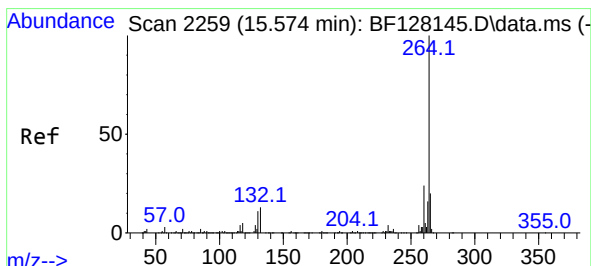
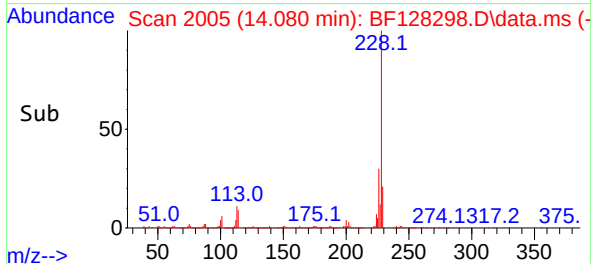
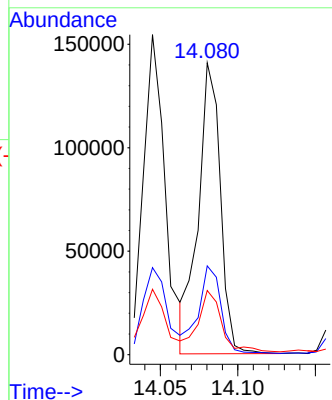
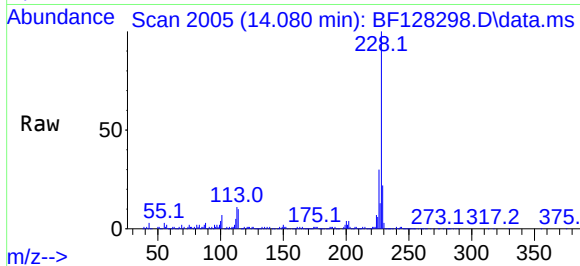
TP1-0516

Tgt Ion:228 Resp: 139450  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.4 36.6  
229 22.0 15.8 23.8

Manual Integrations

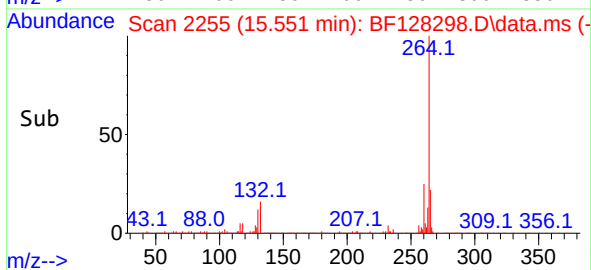
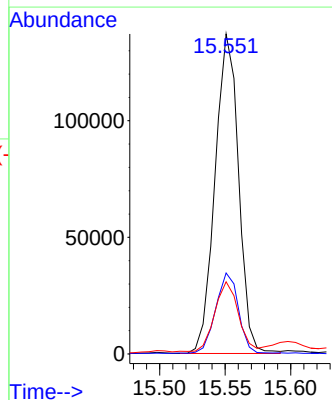
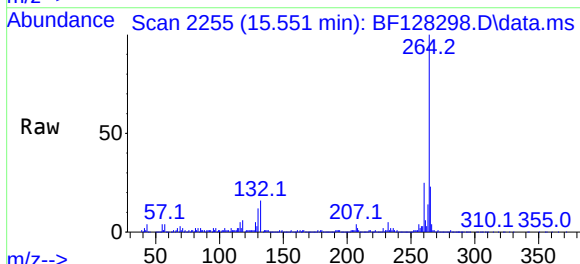
APPROVED

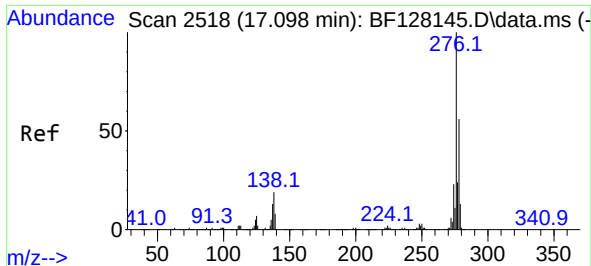
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.551 min Scan# 2255  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

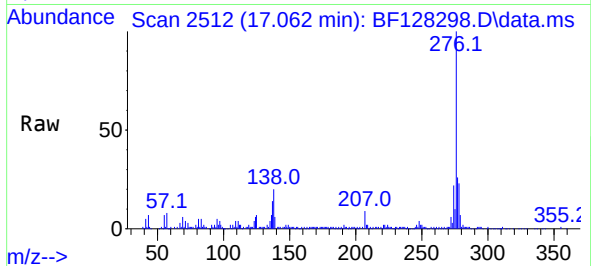
Tgt Ion:264 Resp: 171201  
Ion Ratio Lower Upper  
264 100  
260 25.3 20.1 30.1  
265 22.5 17.5 26.3





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 8.831 ng  
RT: 17.062 min Scan# 2180  
Delta R.T. -0.024 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

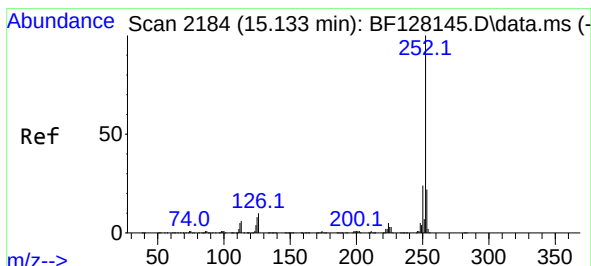
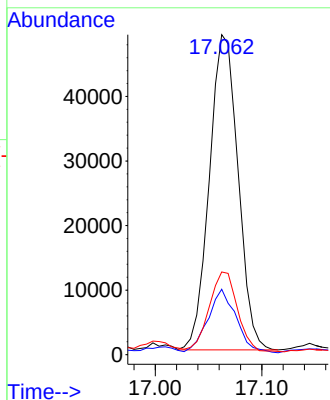
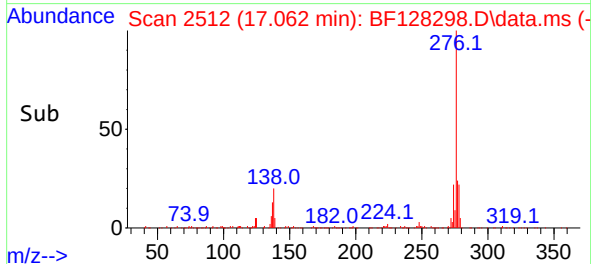
Instrument :  
BNA\_F  
ClientSampleId :  
TP1-0516



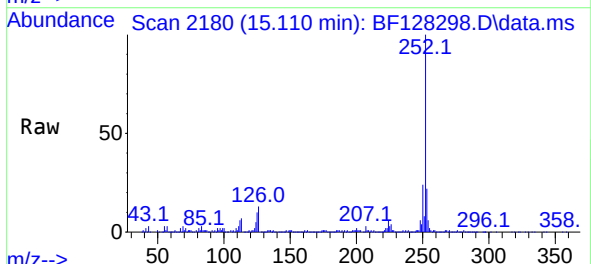
Tgt Ion:276 Resp: 91460  
Ion Ratio Lower Upper  
276 100  
138 19.9 19.0 28.4  
277 25.0 20.1 30.1

Manual Integrations  
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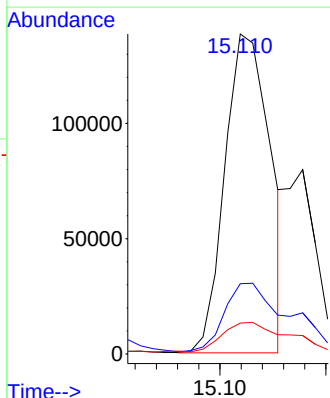
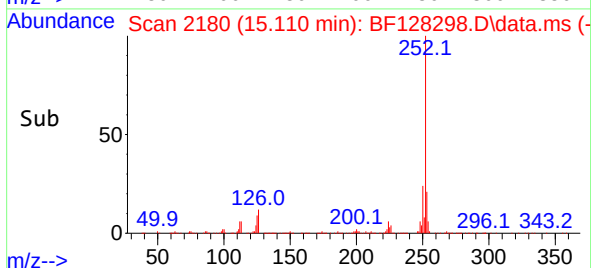
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022

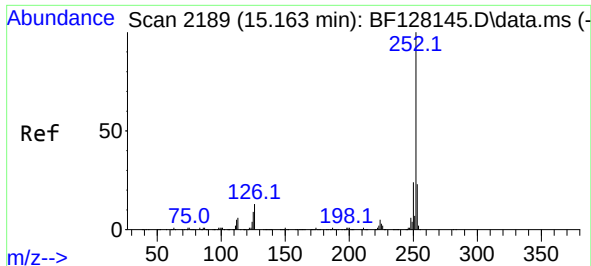


#88  
Benzo(b)fluoranthene  
Concen: 19.409 ng m  
RT: 15.110 min Scan# 2180  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42



Tgt Ion:252 Resp: 205982  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.4 26.2  
125 9.6 7.4 11.2





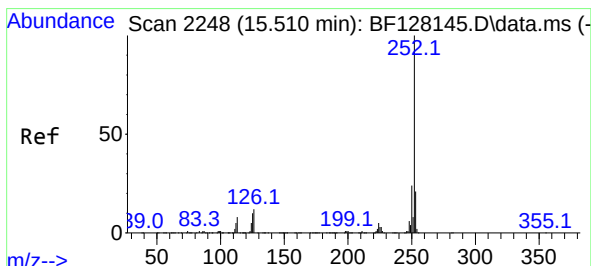
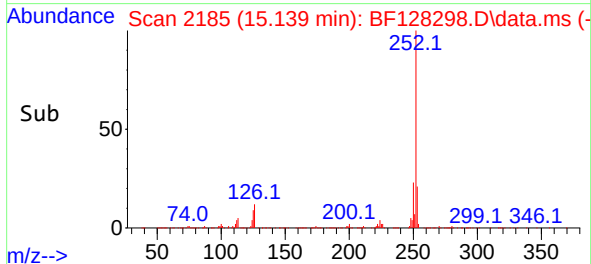
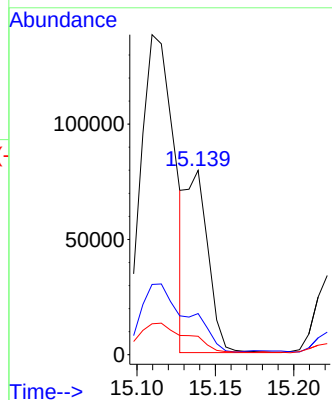
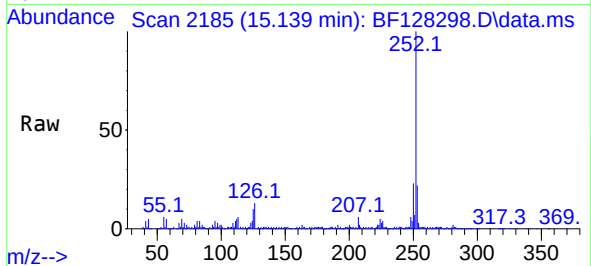
#89  
Benzo(k)fluoranthene  
Concen: 7.282 ng m  
RT: 15.139 min Scan# 2189  
Delta R.T. -0.012 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

Instrument :  
BNA\_F  
ClientSampleId :  
TP1-0516

Tgt Ion:252 Resp: 7628  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.0 25.4  
125 10.0 6.8 10.2

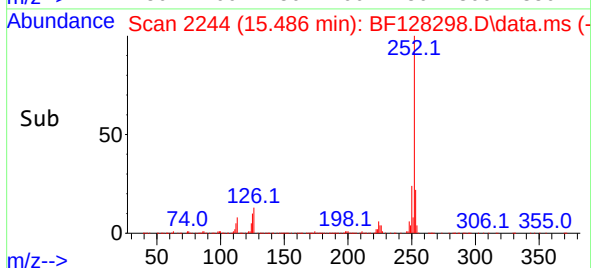
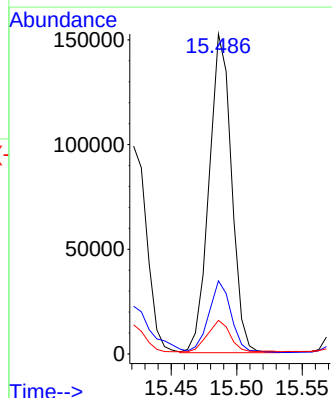
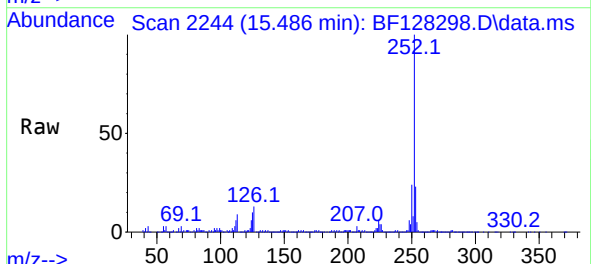
Manual Integrations  
APPROVED

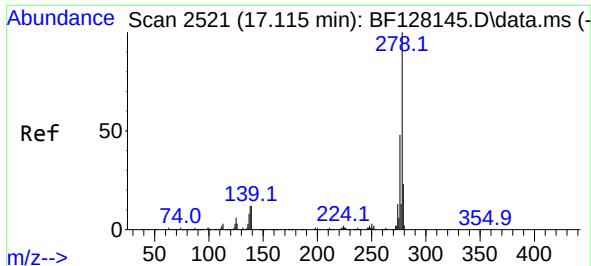
Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022



#90  
Benzo(a)pyrene  
Concen: 21.206 ng  
RT: 15.486 min Scan# 2244  
Delta R.T. -0.006 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

Tgt Ion:252 Resp: 181693  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.8 26.6  
125 10.5 9.2 13.8





#91  
Dibenzo(a,h)anthracene  
Concen: 3.267 ng  
RT: 17.068 min Scan# 2513  
Delta R.T. -0.029 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

Instrument :

BNA\_F

ClientSampleId :

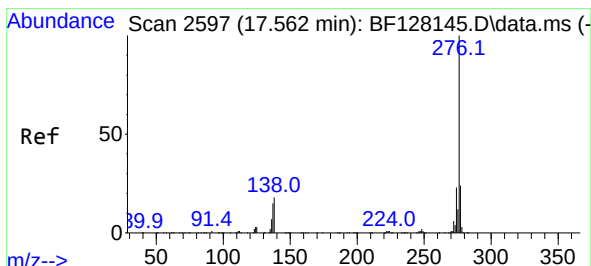
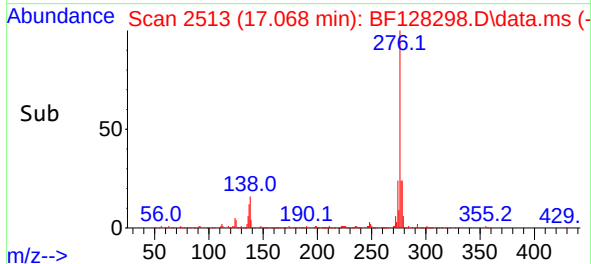
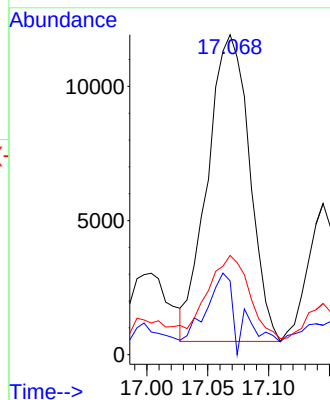
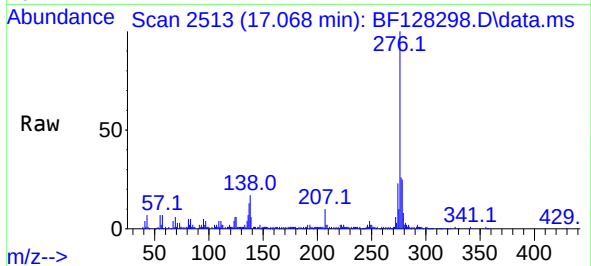
TP1-0516

Tgt Ion:278 Resp: 2738  
Ion Ratio Lower Upper  
278 100  
139 23.1 12.6 19.0  
279 31.0 18.9 28.3

Manual Integrations

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Reviewed By :Christian Giraldo 05/18/2022  
Supervised By :Jagrut Upadhyay 05/18/2022



#92  
Benzo(g,h,i)perylene  
Concen: 10.969 ng  
RT: 17.527 min Scan# 2591  
Delta R.T. -0.018 min  
Lab File: BF128298.D  
Acq: 17 May 2022 18:42

Tgt Ion:276 Resp: 93123  
Ion Ratio Lower Upper  
276 100  
277 26.0 18.8 28.2  
138 19.3 16.2 24.2

