

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121622\  
 Data File : BF131669.D  
 Acq On : 16 Dec 2022 16:32  
 Operator : CG\JU  
 Sample : N6038-25  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RB-41-(3-5)

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/19/2022  
 Supervised By :mohammad ahmed 12/19/2022

Quant Time: Dec 16 16:59:15 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120822.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 16 01:44:46 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.881  | 152  | 66619    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.169  | 136  | 237689   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.933  | 164  | 134217   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.427 | 188  | 267919   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.080 | 240  | 160037   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.580 | 264  | 140031   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.493  | 112  | 401964   | 100.661 | ng    | 0.00     |
| 7) Phenol-d6                | 6.510  | 99   | 532859   | 101.829 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.445  | 82   | 374342   | 59.543  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.728 | 330  | 129626   | 86.928  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.251  | 172  | 639956   | 60.119  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.022 | 244  | 747469   | 64.053  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 11.451 | 178  | 59207    | 3.965   | ng    | 99       |
| 75) Fluoranthene            | 12.645 | 202  | 117610   | 7.648   | ng    | 96       |
| 78) Pyrene                  | 12.874 | 202  | 91060    | 5.770   | ng    | 99       |
| 83) Chrysene                | 14.104 | 228  | 32046    | 2.917   | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.139 | 252  | 34491m   | 3.737   | ng    |          |
| 90) Benzo(a)pyrene          | 15.515 | 252  | 20354    | 2.584   | ng    | # 94     |
| -----                       |        |      |          |         |       |          |

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

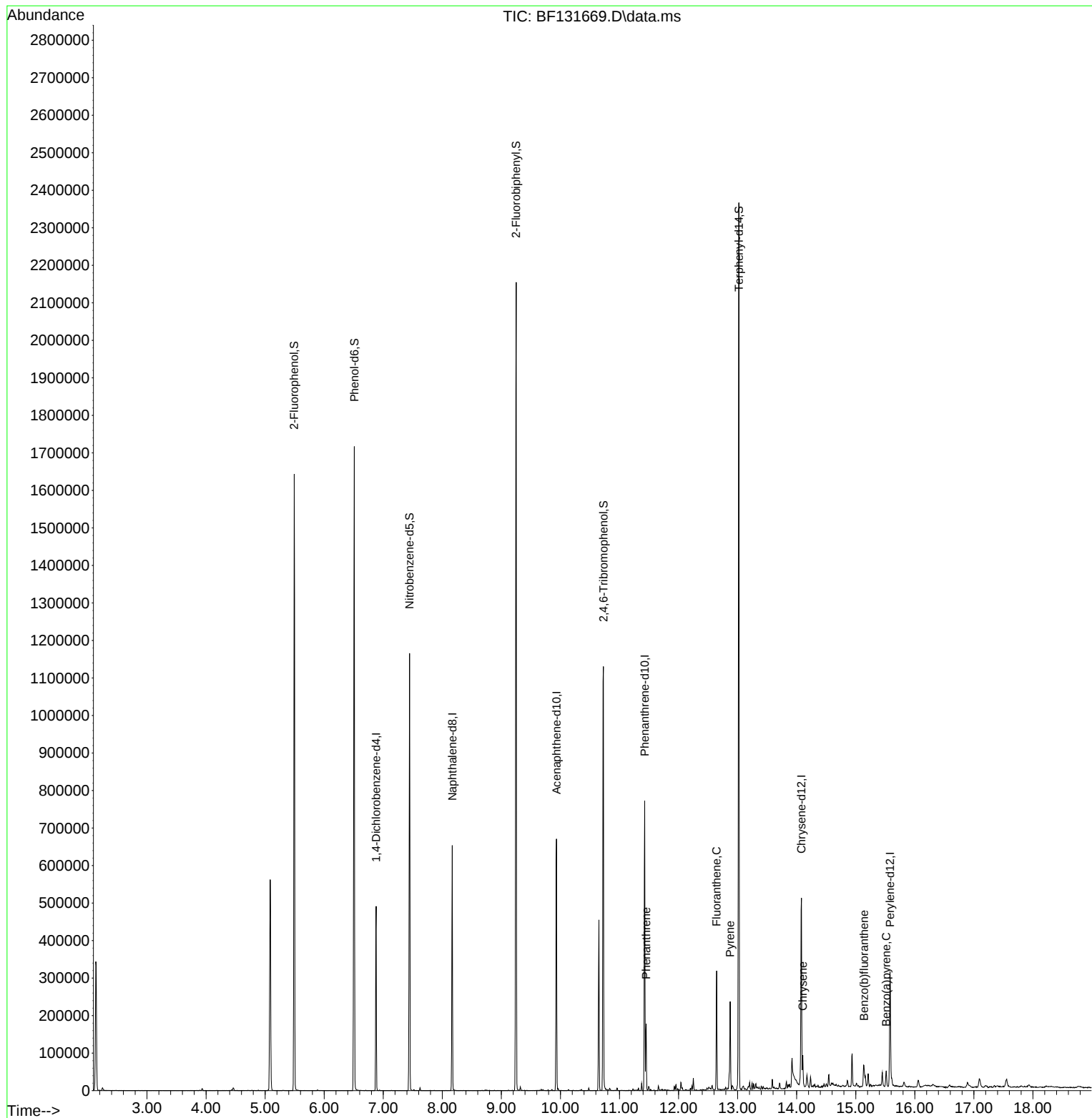
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121622\  
Data File : BF131669.D  
Acq On : 16 Dec 2022 16:32  
Operator : CG\JU  
Sample : N6038-25  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

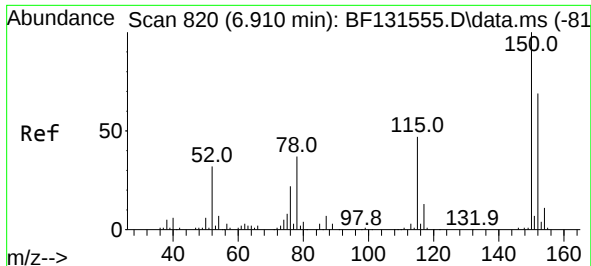
Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)

Quant Time: Dec 16 16:59:15 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120822.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 16 01:44:46 2022  
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Manual Integrations  
APPROVED

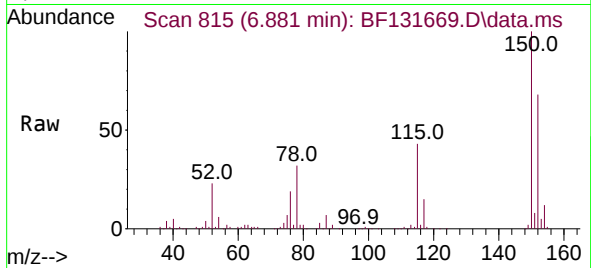
Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

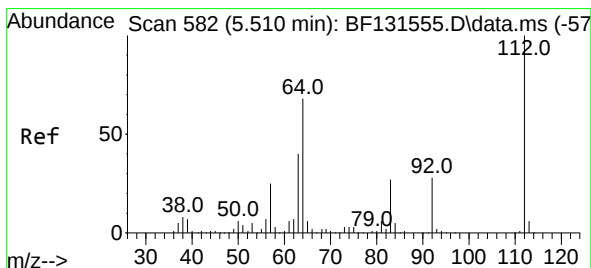
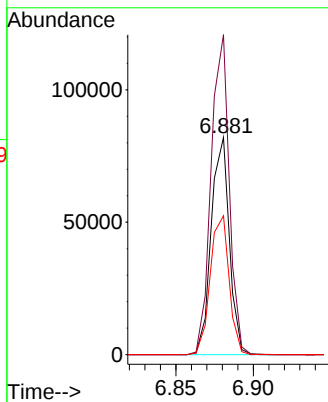
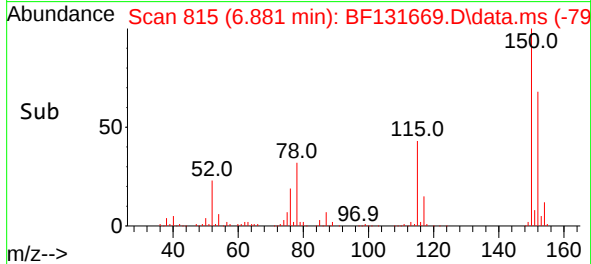
Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)



Tgt Ion:152 Resp: 66619  
Ion Ratio Lower Upper  
152 100  
150 147.3 116.7 175.1  
115 63.9 54.6 82.0

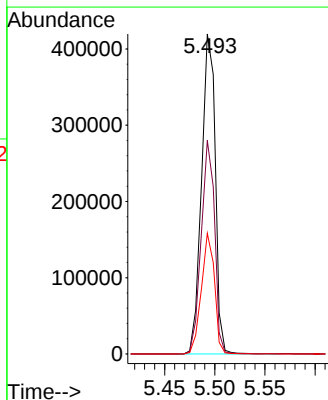
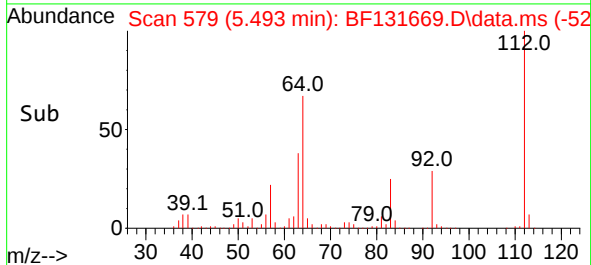
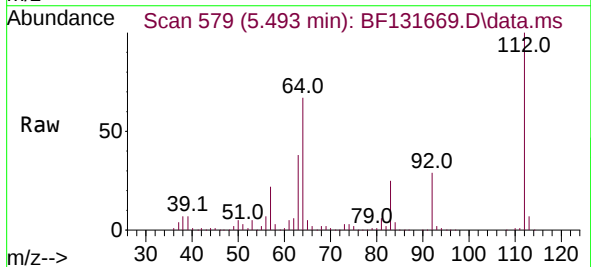
Manual Integrations  
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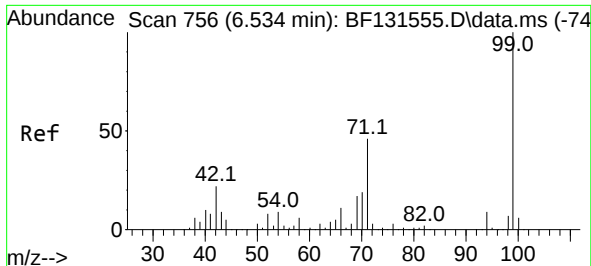
Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022



#5  
2-Fluorophenol  
Concen: 100.661 ng  
RT: 5.493 min Scan# 579  
Delta R.T. 0.000 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

Tgt Ion:112 Resp: 401964  
Ion Ratio Lower Upper  
112 100  
64 66.8 54.5 81.7  
63 37.7 31.9 47.9





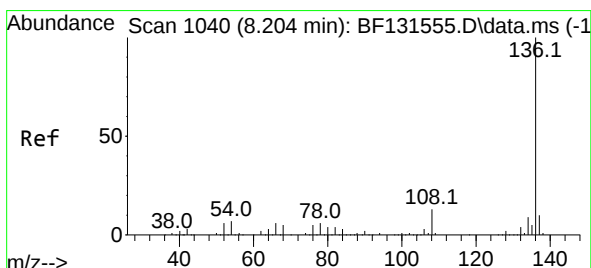
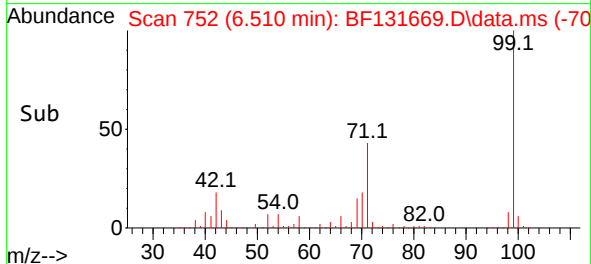
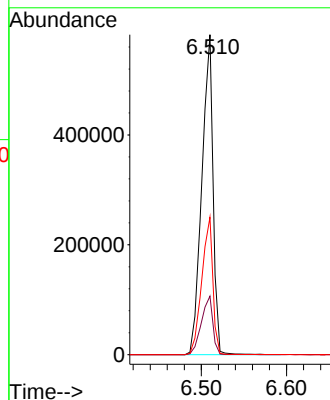
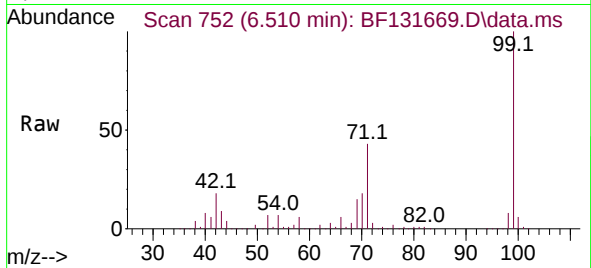
#7  
Phenol-d6  
Concen: 101.829 ng  
RT: 6.510 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)

Tgt Ion: 99 Resp: 53285  
Ion Ratio Lower Upper  
99 100  
42 18.3 17.9 26.9  
71 42.9 37.2 55.8

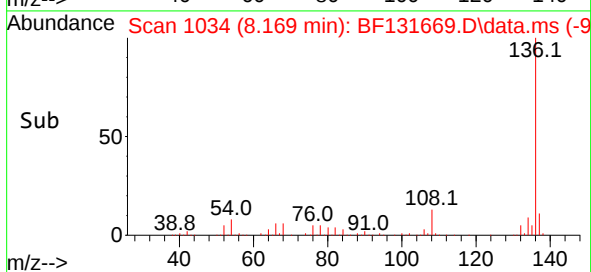
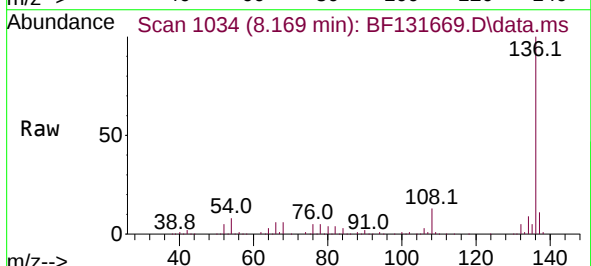
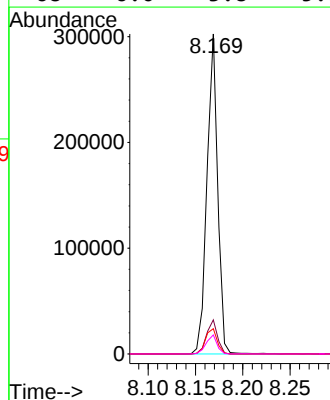
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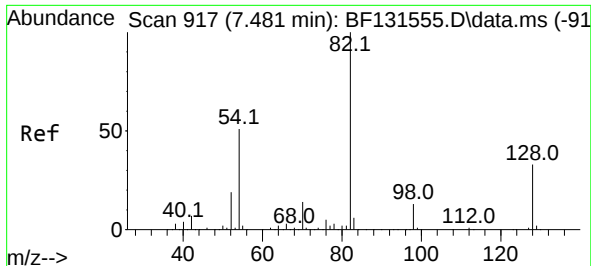
Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1034  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

Tgt Ion:136 Resp: 237689  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.1 12.1  
54 7.9 6.0 9.0  
68 6.0 3.8 5.8





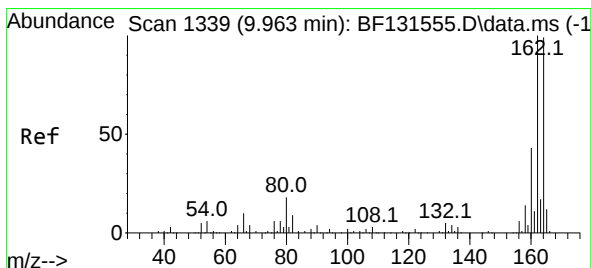
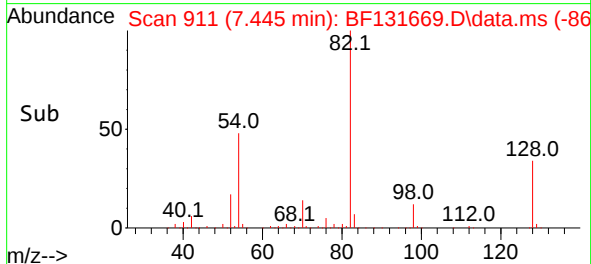
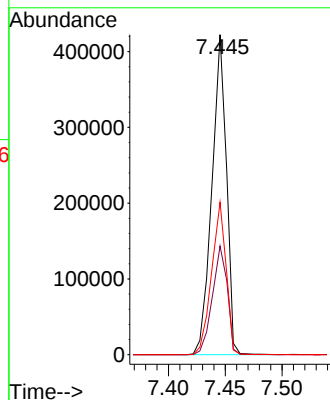
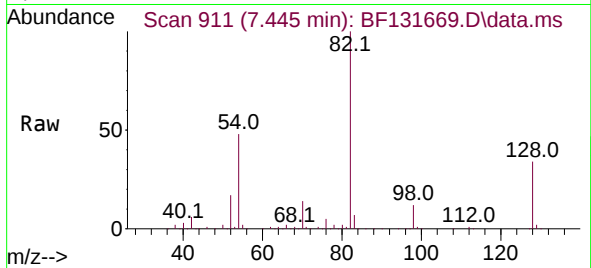
#23  
Nitrobenzene-d5  
Concen: 59.543 ng  
RT: 7.445 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)

Tgt Ion: 82 Resp: 37434  
Ion Ratio Lower Upper  
82 100  
128 34.0 26.1 39.1  
54 47.7 40.6 60.8

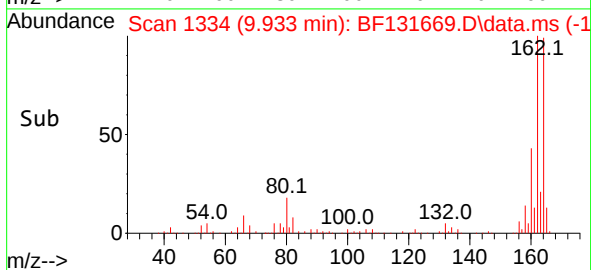
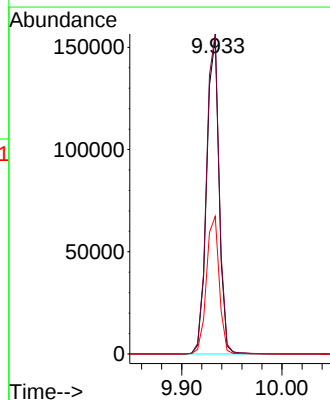
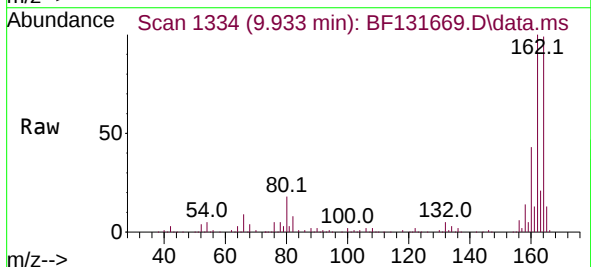
Manual Integrations  
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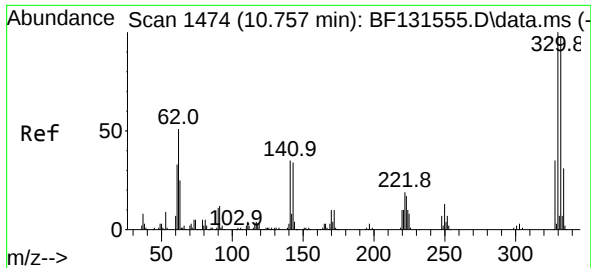
Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.933 min Scan# 1334  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

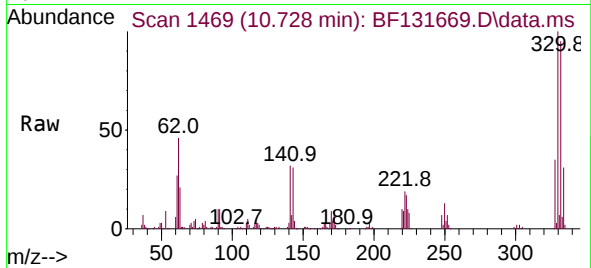
Tgt Ion:164 Resp: 134217  
Ion Ratio Lower Upper  
164 100  
162 101.2 81.0 121.6  
160 43.5 35.0 52.6





#42  
2,4,6-Tribromophenol  
Concen: 86.928 ng  
RT: 10.728 min Scan# 1474  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

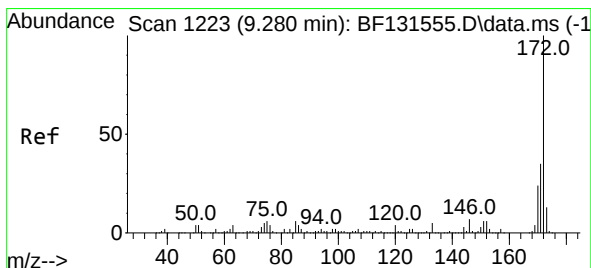
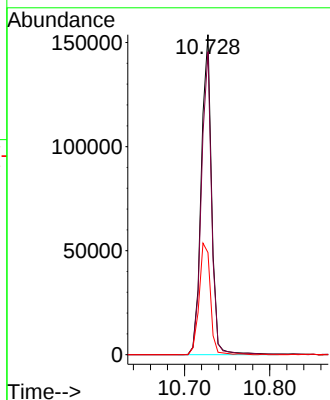
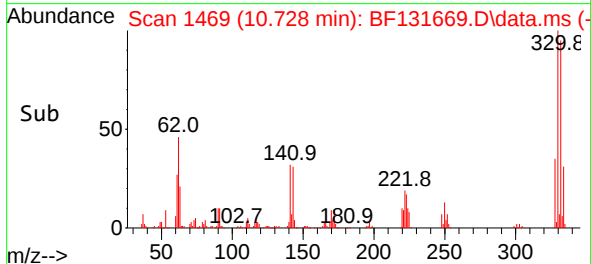
Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)



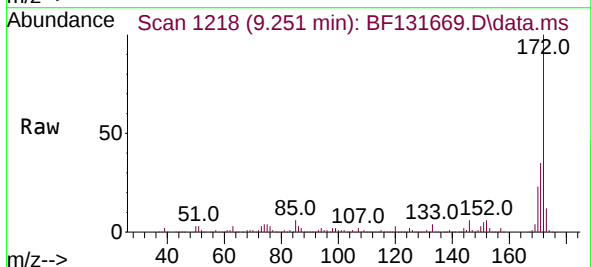
Tgt Ion: 330 Resp: 129620  
Ion Ratio Lower Upper  
330 100  
332 93.5 78.3 117.5  
141 37.9 32.6 49.0

Manual Integrations  
APPROVED

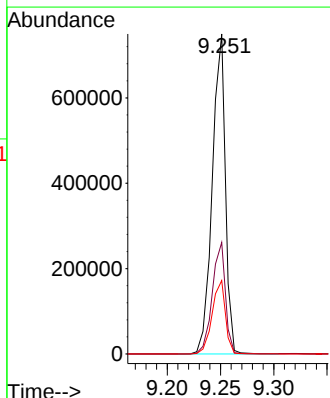
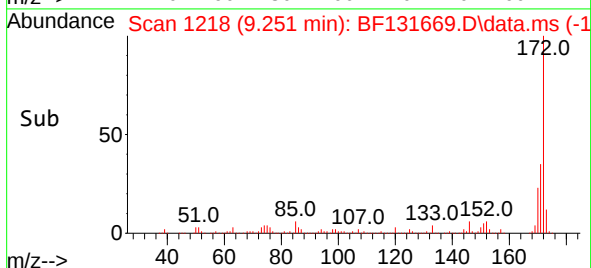
Reviewed By : Yogesh Patel 12/19/2022  
Supervised By : mohammad ahmed 12/19/2022

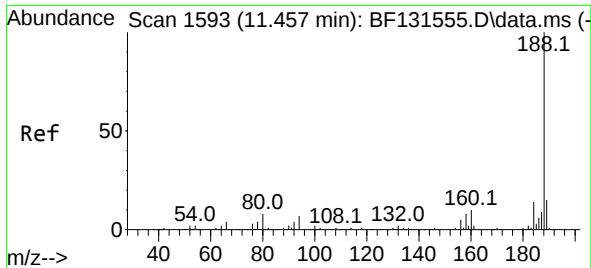


#45  
2-Fluorobiphenyl  
Concen: 60.119 ng  
RT: 9.251 min Scan# 1218  
Delta R.T. 0.000 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32



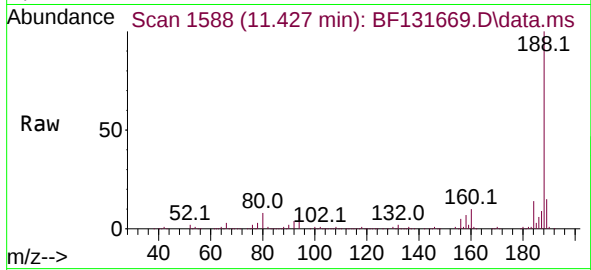
Tgt Ion: 172 Resp: 639956  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.3 42.5  
170 22.9 19.3 28.9





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.427 min Scan# 1588  
Delta R.T. 0.000 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

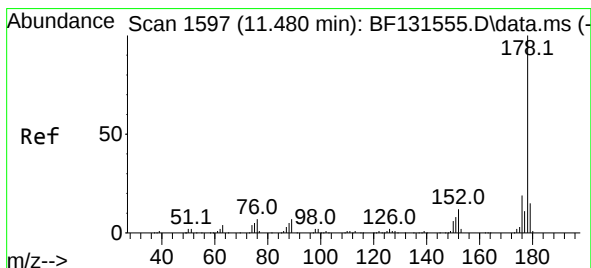
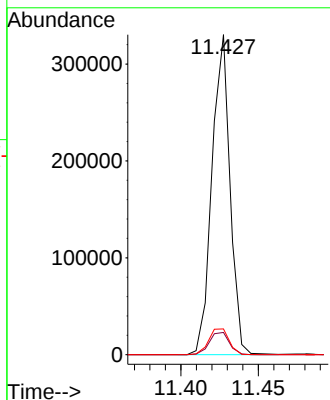
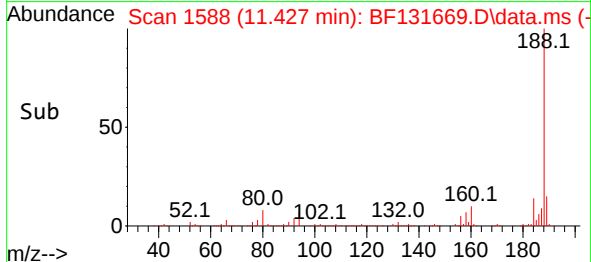
Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)



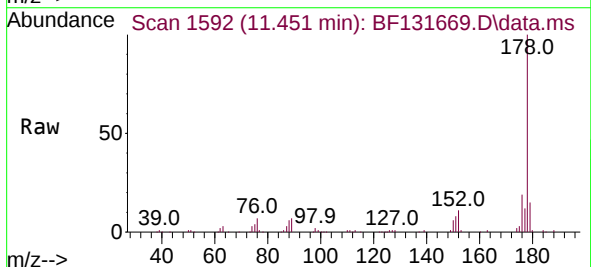
Tgt Ion:188 Resp: 267919  
Ion Ratio Lower Upper  
188 100  
94 6.9 5.5 8.3  
80 8.1 6.6 10.0

Manual Integrations  
APPROVED

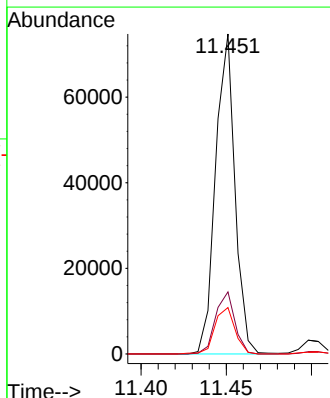
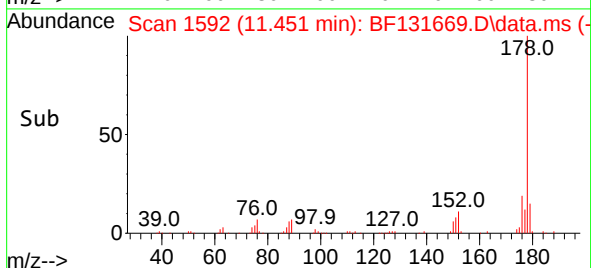
Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022

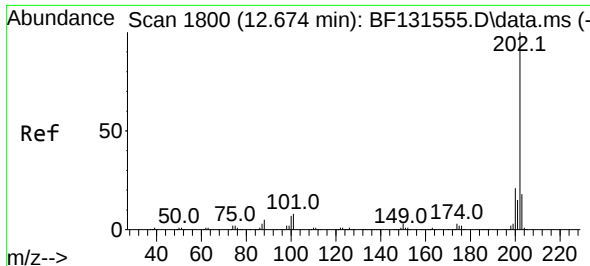


#71  
Phenanthrene  
Concen: 3.965 ng  
RT: 11.451 min Scan# 1592  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32



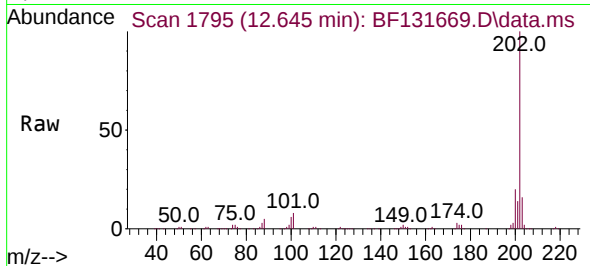
Tgt Ion:178 Resp: 59207  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.0  
179 14.5 12.2 18.4





#75  
Fluoranthene  
Concen: 7.648 ng  
RT: 12.645 min Scan# 117610  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

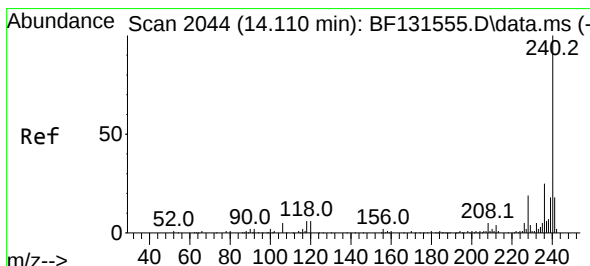
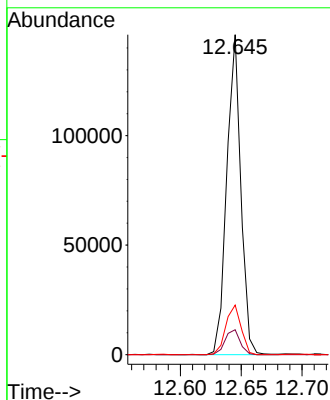
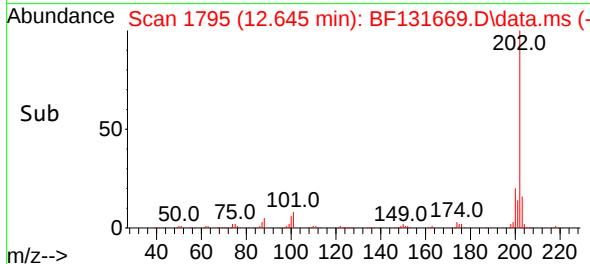
Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)



Tgt Ion:202 Resp: 117610  
Ion Ratio Lower Upper  
202 100  
101 7.8 0.0 27.7  
203 15.5 0.0 37.7

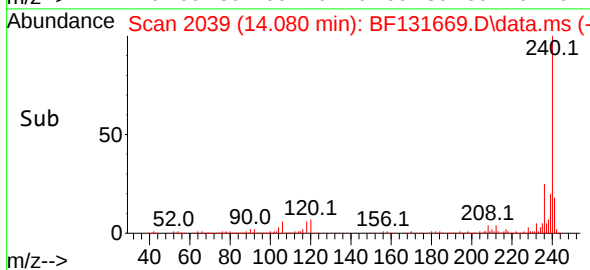
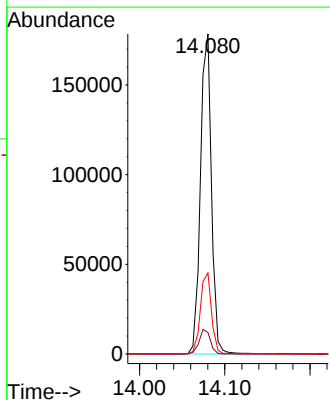
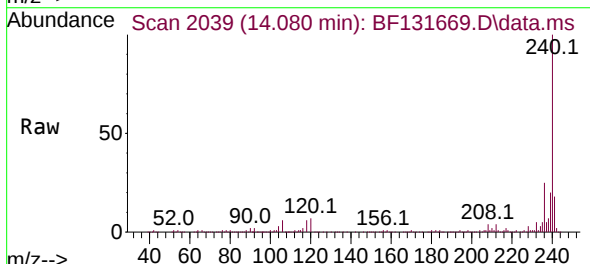
Manual Integrations  
APPROVED

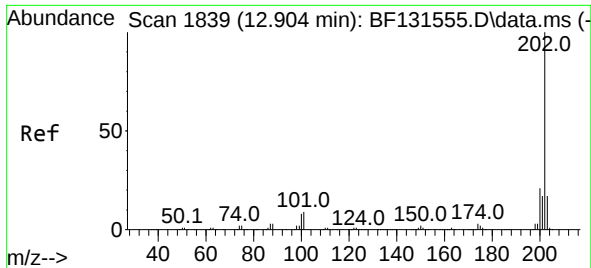
Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.080 min Scan# 2039  
Delta R.T. 0.000 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

Tgt Ion:240 Resp: 160037  
Ion Ratio Lower Upper  
240 100  
120 6.7 4.6 7.0  
236 25.3 20.2 30.2





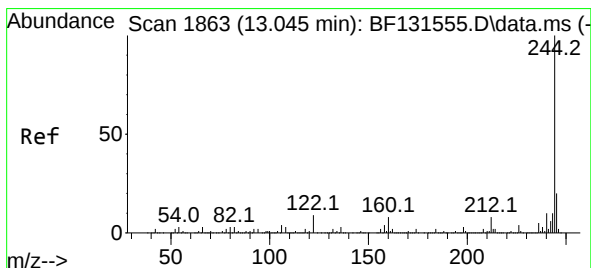
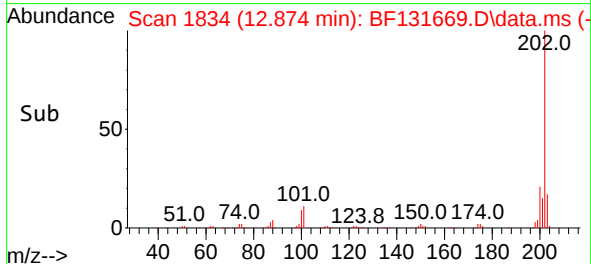
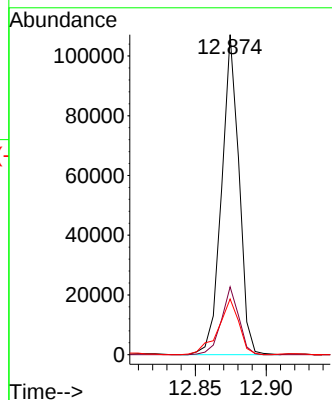
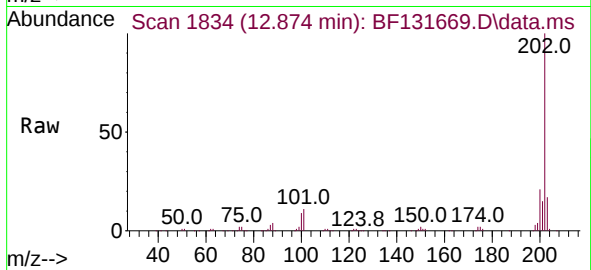
#78  
Pyrene  
Concen: 5.770 ng  
RT: 12.874 min Scan# 1834  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)

Tgt Ion:202 Resp: 91060  
Ion Ratio Lower Upper  
202 100  
200 21.2 16.7 25.1  
203 17.4 13.8 20.6

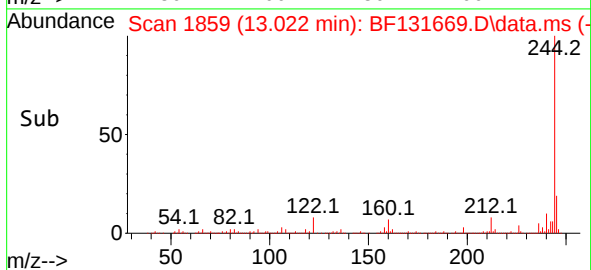
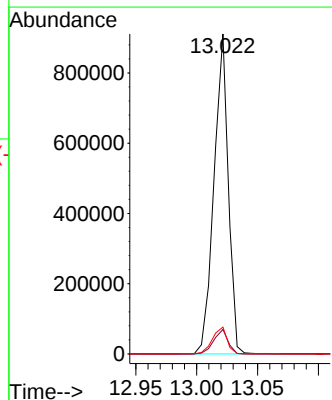
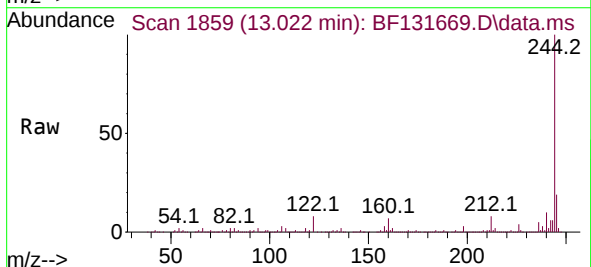
Manual Integrations  
APPROVED

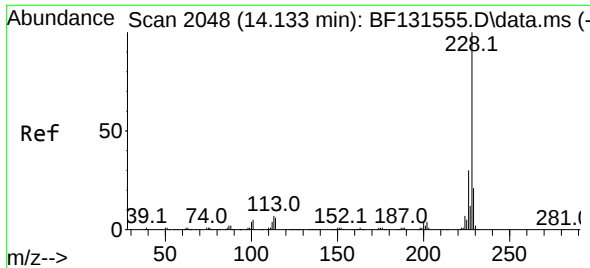
Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022



#79  
Terphenyl-d14  
Concen: 64.053 ng  
RT: 13.022 min Scan# 1859  
Delta R.T. 0.000 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

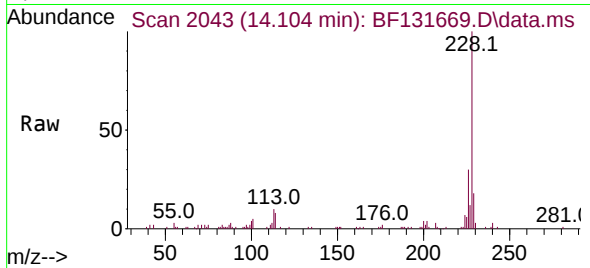
Tgt Ion:244 Resp: 747469  
Ion Ratio Lower Upper  
244 100  
212 7.7 6.5 9.7  
122 8.4 7.1 10.7





#83  
Chrysene  
Concen: 2.917 ng  
RT: 14.104 min Scan# 2048  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

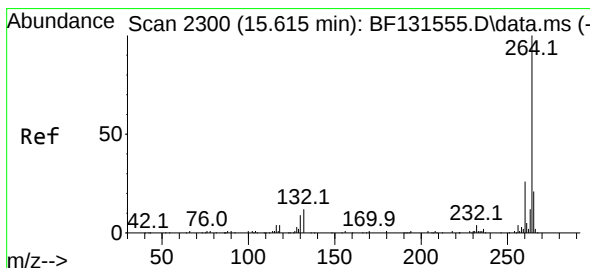
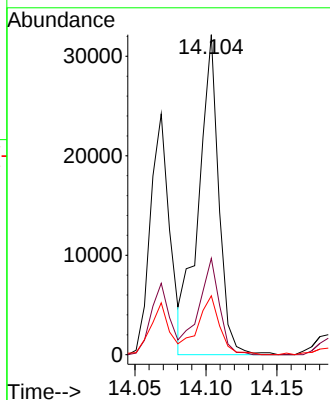
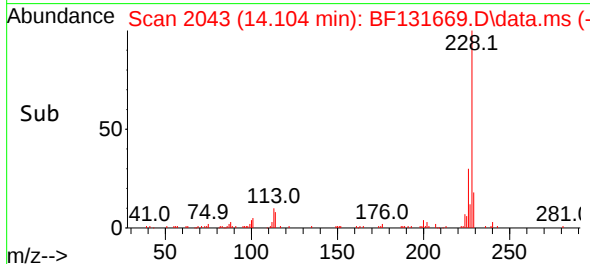
Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)



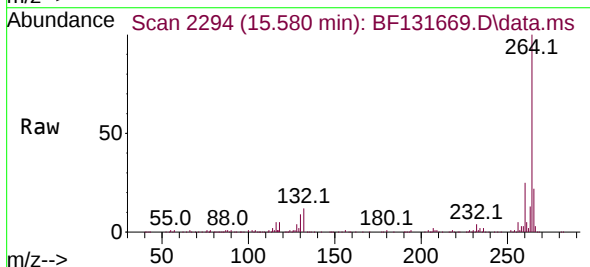
Tgt Ion:228 Resp: 32040  
Ion Ratio Lower Upper  
228 100  
226 30.1 23.9 35.9  
229 18.4 16.7 25.1

Manual Integrations  
APPROVED

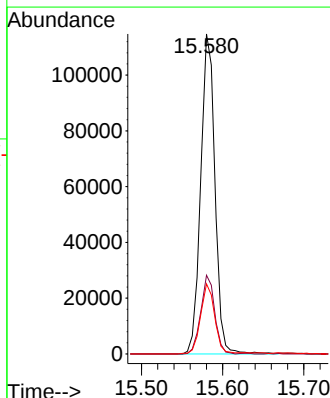
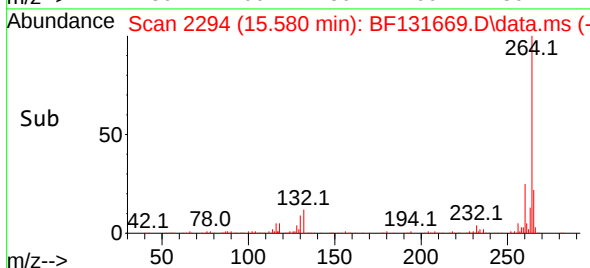
Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022

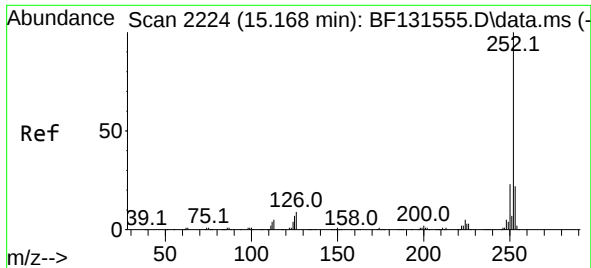


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.580 min Scan# 2294  
Delta R.T. 0.000 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32



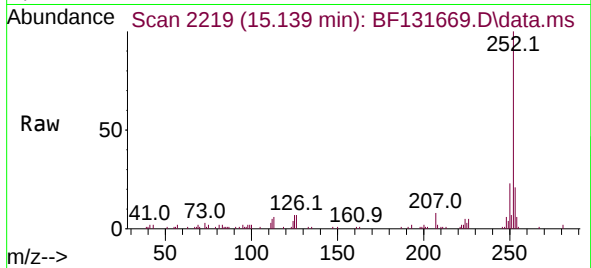
Tgt Ion:264 Resp: 140031  
Ion Ratio Lower Upper  
264 100  
260 24.6 20.6 30.8  
265 21.9 16.8 25.2





#88  
Benzo(b)fluoranthene  
Concen: 3.737 ng m  
RT: 15.139 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32

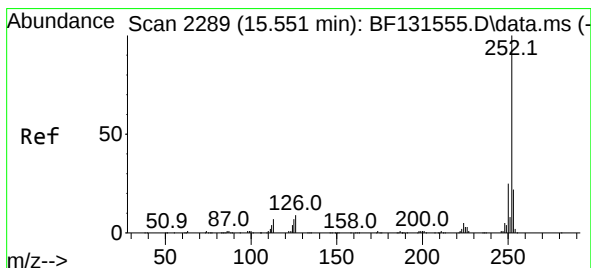
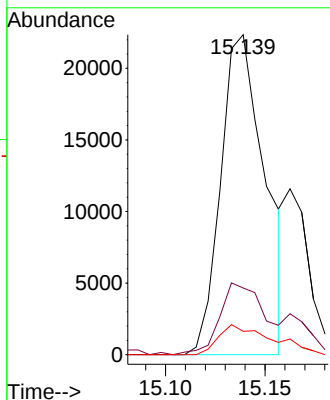
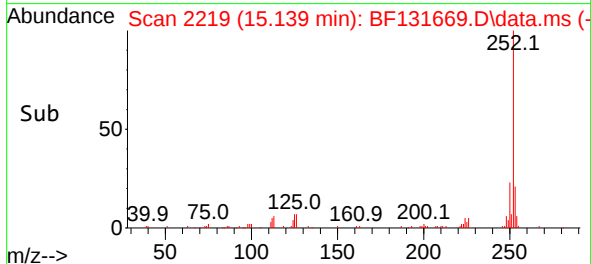
Instrument :  
BNA\_F  
ClientSampleId :  
RB-41-(3-5)



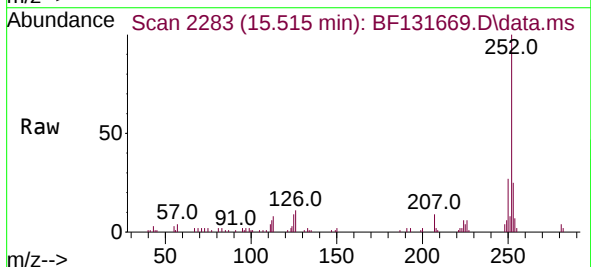
Tgt Ion:252 Resp: 3449  
Ion Ratio Lower Upper  
252 100  
253 20.8 17.7 26.5  
125 7.3 5.6 8.4

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/19/2022  
Supervised By :mohammad ahmed 12/19/2022



#90  
Benzo(a)pyrene  
Concen: 2.584 ng  
RT: 15.515 min Scan# 2283  
Delta R.T. -0.006 min  
Lab File: BF131669.D  
Acq: 16 Dec 2022 16:32



Tgt Ion:252 Resp: 20354  
Ion Ratio Lower Upper  
252 100  
253 24.8 17.5 26.3  
125 9.3 5.6 8.4#

