

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121323\  
 Data File : BF136558.D  
 Acq On : 14 Dec 2023 02:03  
 Operator : CG\JU  
 Sample : 05767-04  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-E2-COMP

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/14/2023  
 Supervised By :mohammad ahmed 12/14/2023

Quant Time: Dec 14 03:51:45 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 06 09:40:27 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.792  | 152  | 72061    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.069  | 136  | 244646   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.827  | 164  | 102665   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.316 | 188  | 187350   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 13.974 | 240  | 175608   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.451 | 264  | 131707   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.434  | 112  | 382281   | 78.345 | ng    | 0.00     |
| 7) Phenol-d6                | 6.434  | 99   | 440193   | 72.307 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.351  | 82   | 256335   | 56.643 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.622 | 330  | 96535    | 76.260 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.145  | 172  | 471461   | 62.661 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.916 | 244  | 534621   | 40.127 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.339 | 178  | 38908    | 3.778  | ng    | 98       |
| 75) Fluoranthene            | 12.539 | 202  | 115809   | 10.732 | ng    | 97       |
| 78) Pyrene                  | 12.768 | 202  | 113754   | 6.614  | ng    | 96       |
| 81) Benzo(a)anthracene      | 13.963 | 228  | 69812    | 5.707  | ng    | 93       |
| 83) Chrysene                | 13.998 | 228  | 70964m   | 5.897  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 16.951 | 276  | 33282    | 3.637  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.021 | 252  | 87438m   | 9.710  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.045 | 252  | 23176m   | 2.731  | ng    |          |
| 90) Benzo(a)pyrene          | 15.386 | 252  | 52543    | 7.065  | ng    | 95       |
| 92) Benzo(g,h,i)perylene    | 17.409 | 276  | 32183    | 4.183  | ng    | 94       |
| -----                       |        |      |          |        |       |          |

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

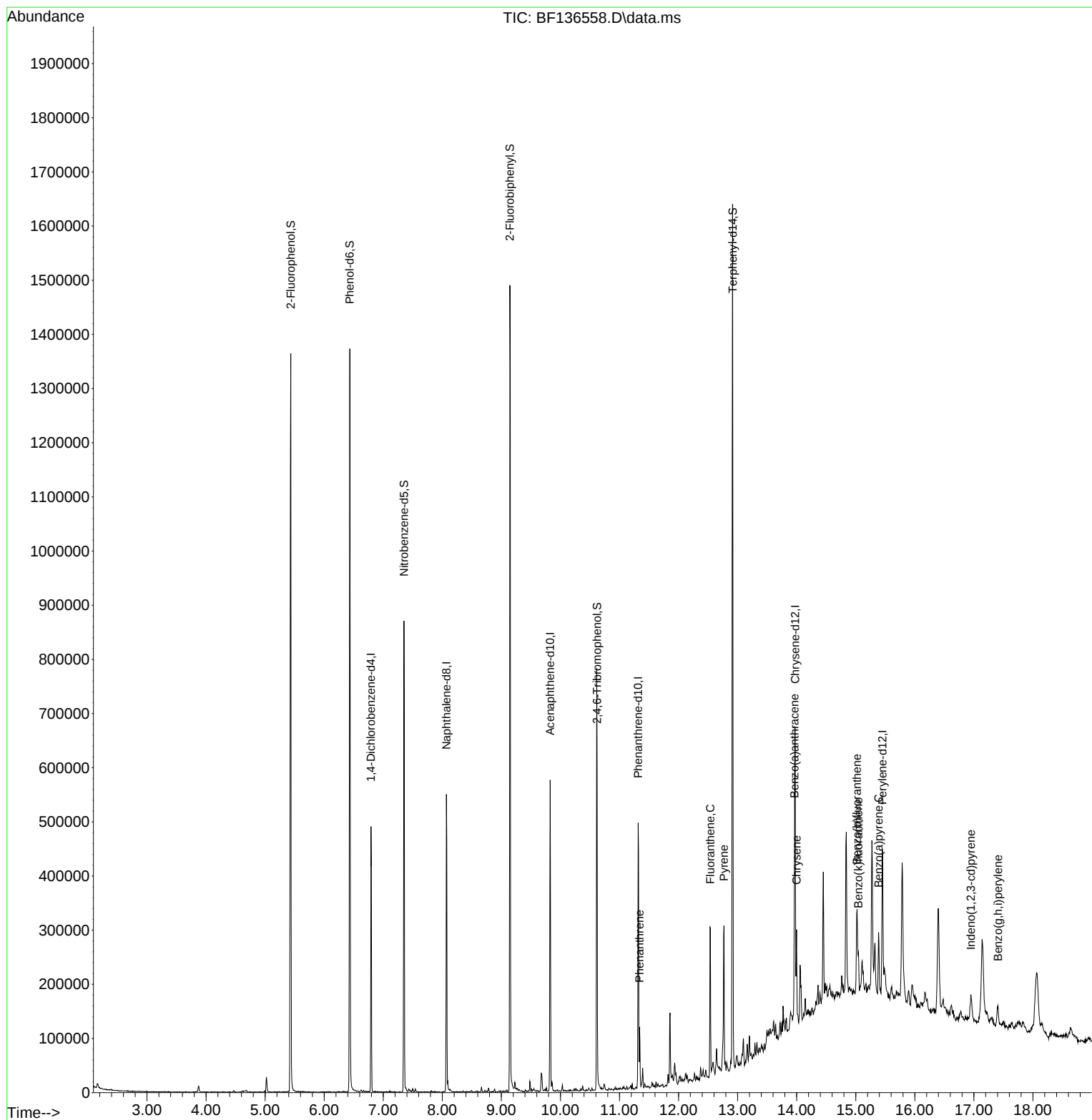
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121323\  
Data File : BF136558.D  
Acq On : 14 Dec 2023 02:03  
Operator : CG\JU  
Sample : 05767-04  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

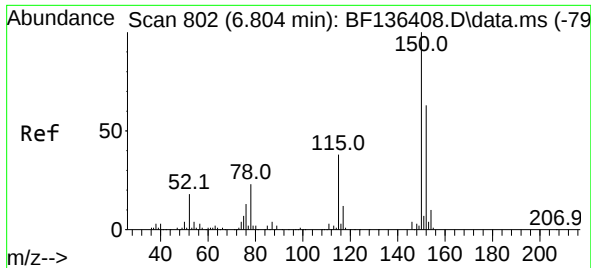
Instrument :  
BNA\_F  
ClientSampleId :  
SP-E2-COMP

Quant Time: Dec 14 03:51:45 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 06 09:40:27 2023  
Response via : Initial Calibration

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Supervised By :mohammad ahmed 12/14/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.792 min Scan# 802  
Delta R.T. -0.012 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

Instrument :

BNA\_F

ClientSampleId :

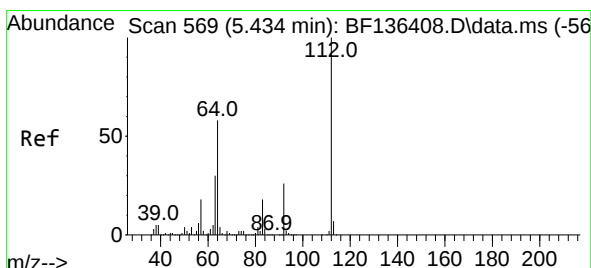
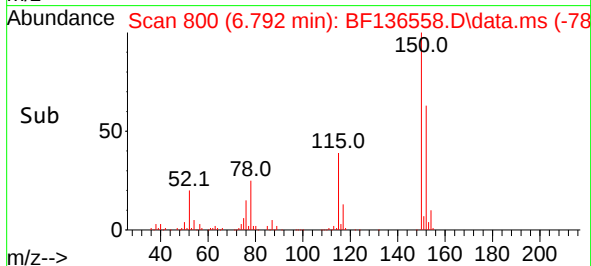
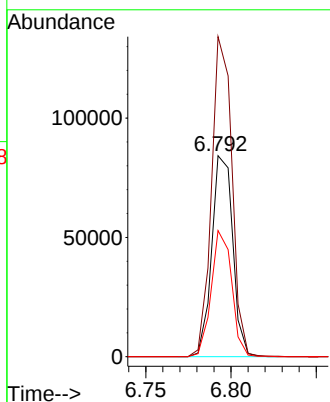
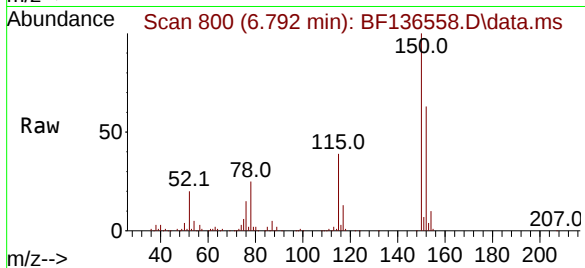
SP-E2-COMP

Tgt Ion:152 Resp: 7206  
Ion Ratio Lower Upper  
152 100  
150 159.3 126.4 189.6  
115 62.8 48.2 72.4

Manual Integrations

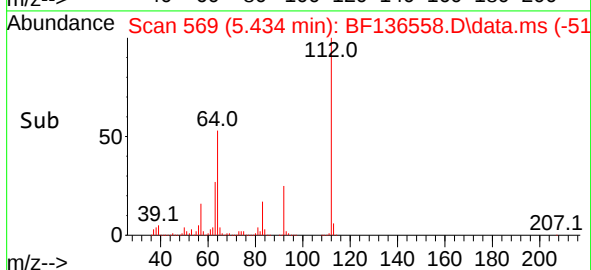
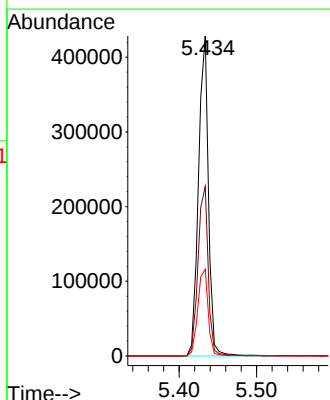
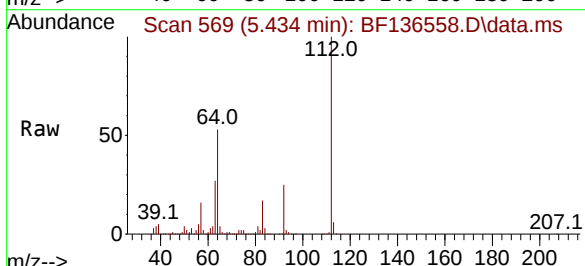
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Supervised By :mohammad ahmed 12/14/2023



#5  
2-Fluorophenol  
Concen: 78.345 ng  
RT: 5.434 min Scan# 569  
Delta R.T. -0.000 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

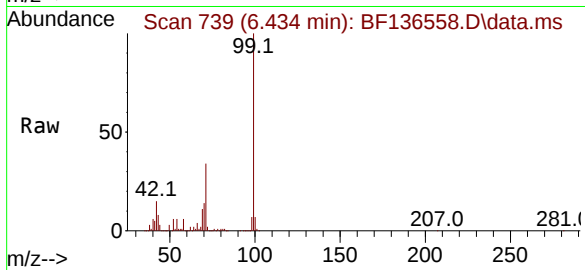
Tgt Ion:112 Resp: 382281  
Ion Ratio Lower Upper  
112 100  
64 52.9 46.5 69.7  
63 27.1 23.9 35.9





#7  
Phenol-d6  
Concen: 72.307 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

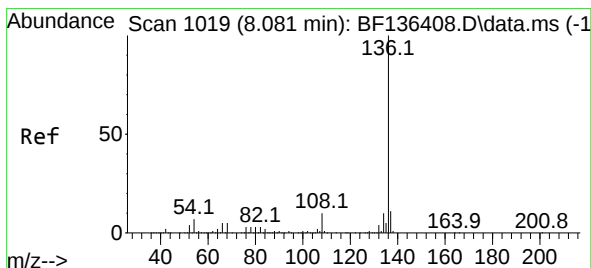
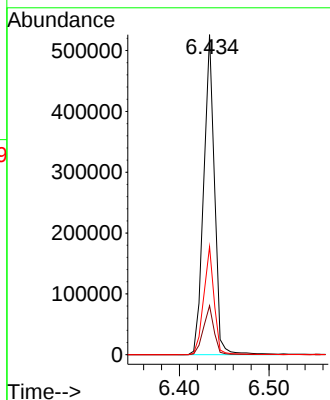
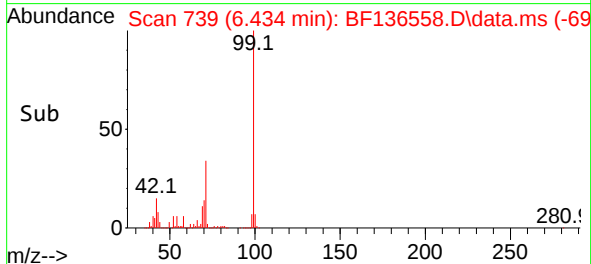
Instrument :  
BNA\_F  
ClientSampleId :  
SP-E2-COMP



Tgt Ion: 99 Resp: 44019  
Ion Ratio Lower Upper  
99 100  
42 15.3 12.8 19.2  
71 33.7 27.0 40.4

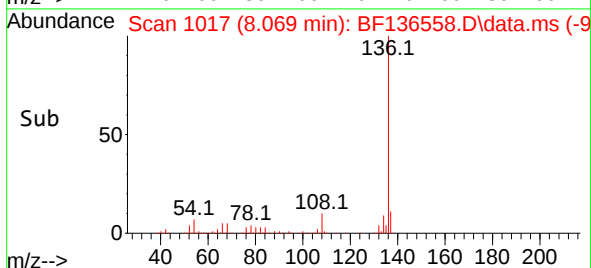
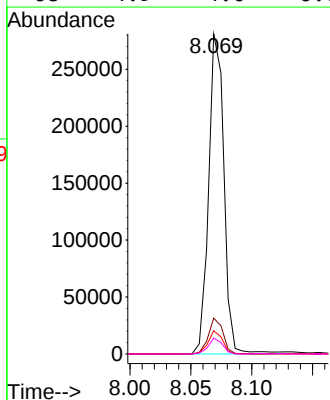
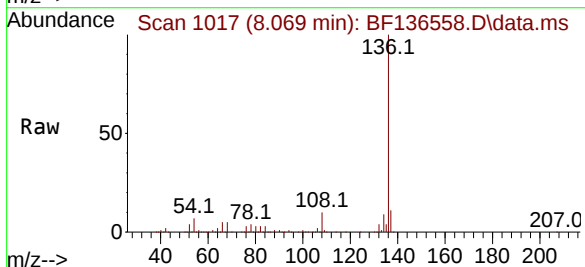
Manual Integrations  
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Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.069 min Scan# 1017  
Delta R.T. -0.012 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

Tgt Ion:136 Resp: 244646  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.6 12.8  
54 7.2 5.7 8.5  
68 4.9 4.0 6.0





#23

Nitrobenzene-d5

Concen: 56.643 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF136558.D

Acq: 14 Dec 2023 02:03

Instrument :

BNA\_F

ClientSampleId :

SP-E2-COMP

Tgt Ion: 82 Resp: 25633

Ion Ratio Lower Upper

82 100

128 45.9 36.3 54.5

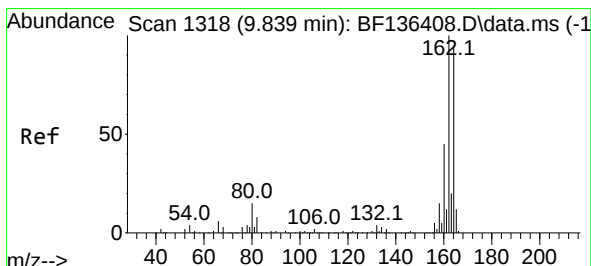
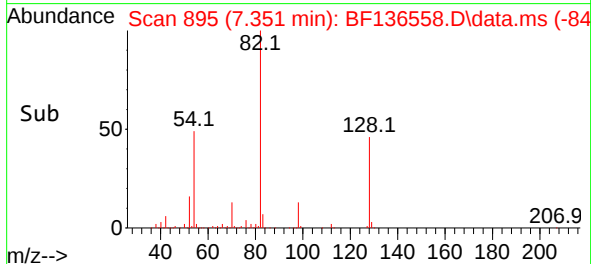
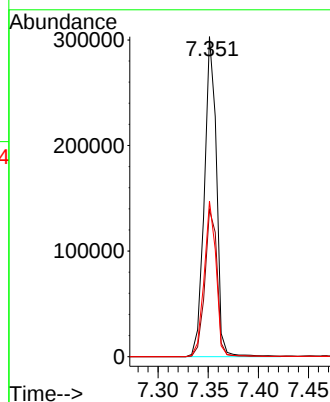
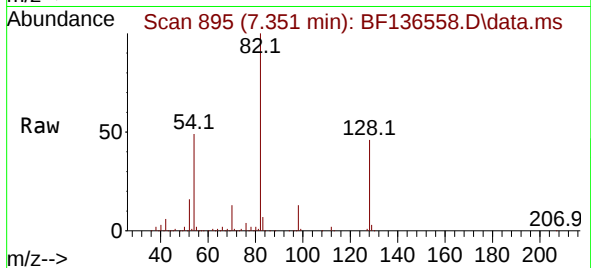
54 48.6 39.0 58.6

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.827 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF136558.D

Acq: 14 Dec 2023 02:03

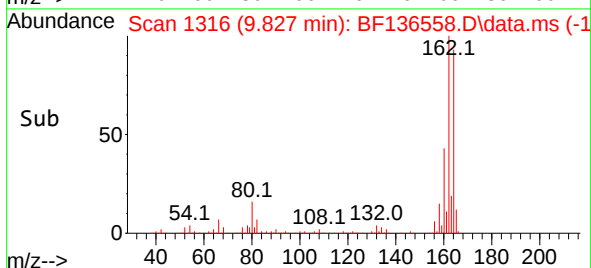
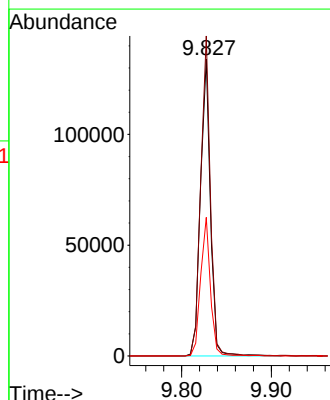
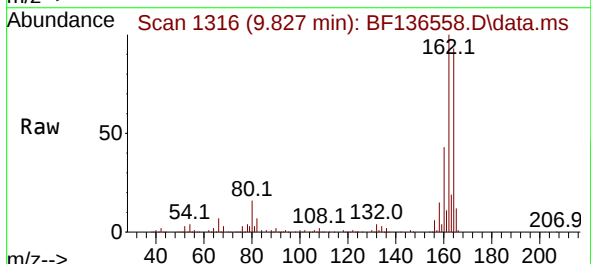
Tgt Ion:164 Resp: 102665

Ion Ratio Lower Upper

164 100

162 107.7 84.4 126.6

160 46.7 37.6 56.4





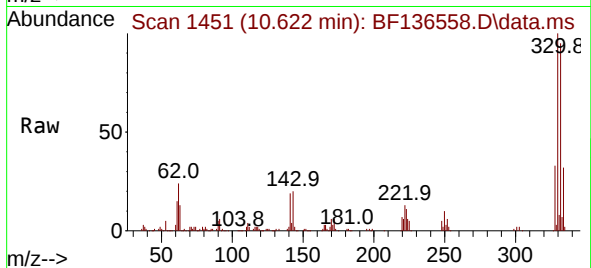
#42  
2,4,6-Tribromophenol  
Concen: 76.260 ng  
RT: 10.622 min Scan# 1453  
Delta R.T. -0.012 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

Instrument :

BNA\_F

ClientSampleId :

SP-E2-COMP



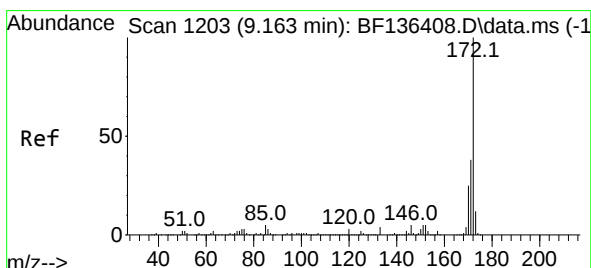
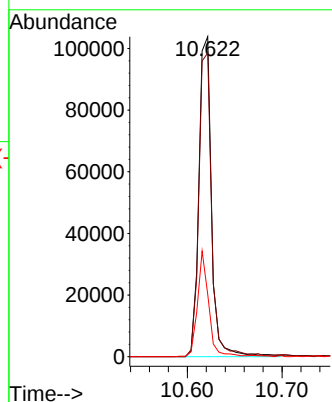
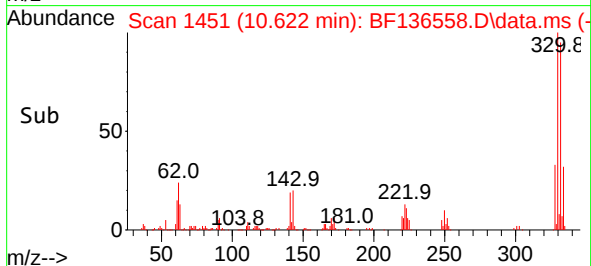
Tgt Ion:330 Resp: 9653  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.4 114.6  
141 29.0 23.4 35.2

Manual Integrations

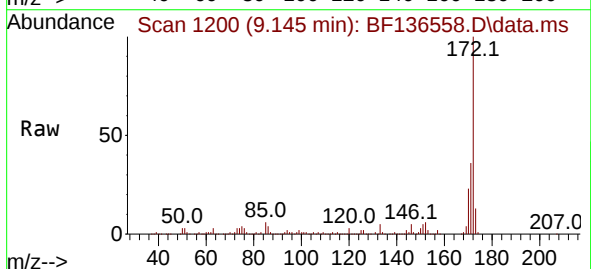
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Reviewed By :Yogesh Patel 12/14/2023

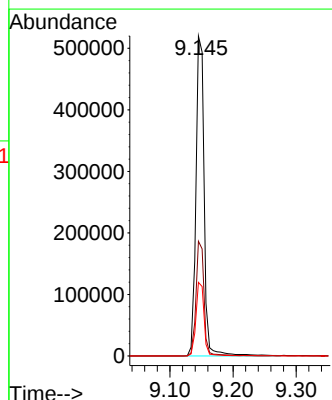
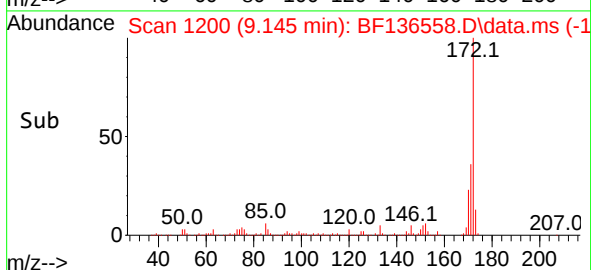
Supervised By :mohammad ahmed 12/14/2023

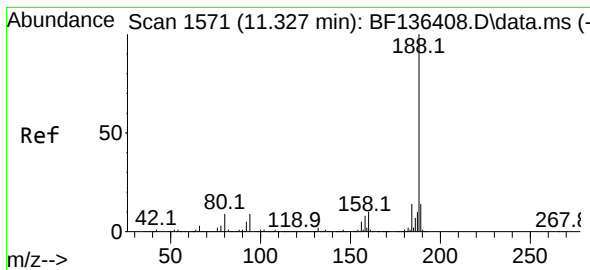


#45  
2-Fluorobiphenyl  
Concen: 62.661 ng  
RT: 9.145 min Scan# 1200  
Delta R.T. -0.018 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03



Tgt Ion:172 Resp: 471461  
Ion Ratio Lower Upper  
172 100  
171 35.8 30.5 45.7  
170 23.0 19.9 29.9





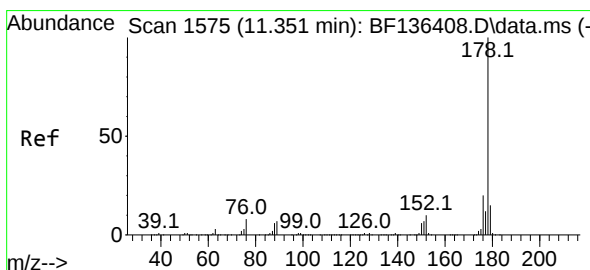
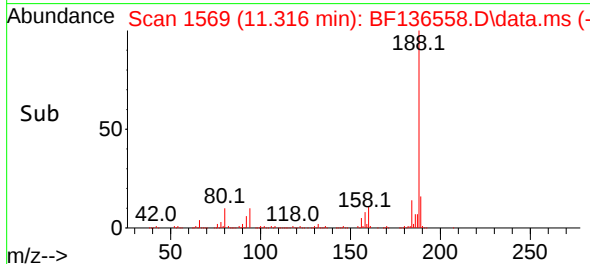
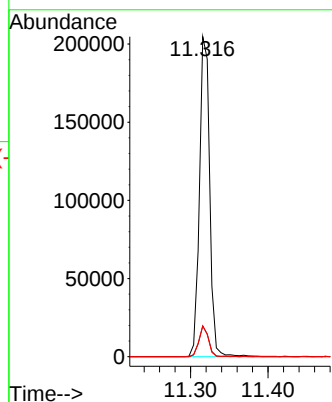
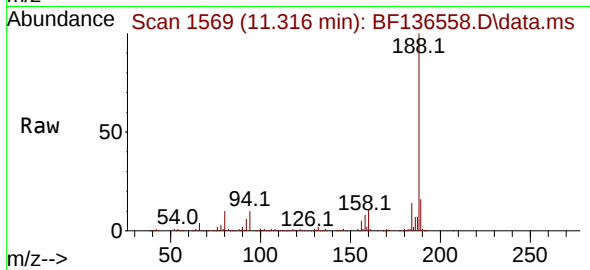
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.316 min Scan# 1569  
Delta R.T. -0.012 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

Instrument :  
BNA\_F  
ClientSampleId :  
SP-E2-COMP

Tgt Ion:188 Resp: 187350  
Ion Ratio Lower Upper  
188 100  
94 9.5 7.2 10.8  
80 9.6 7.2 10.8

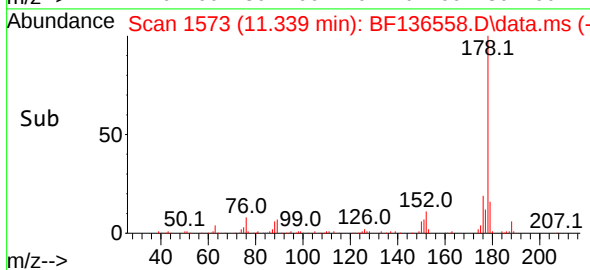
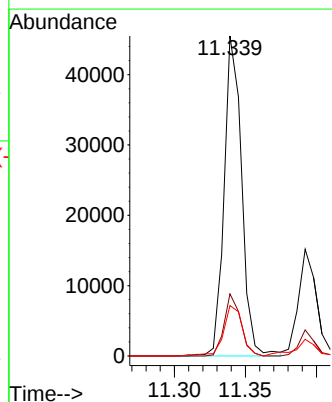
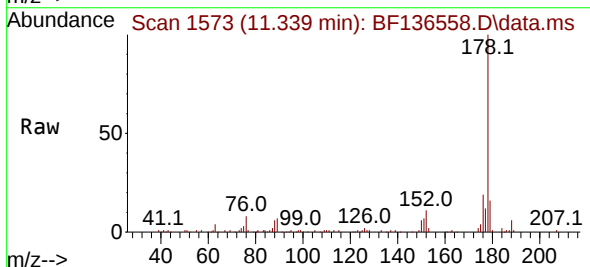
Manual Integrations  
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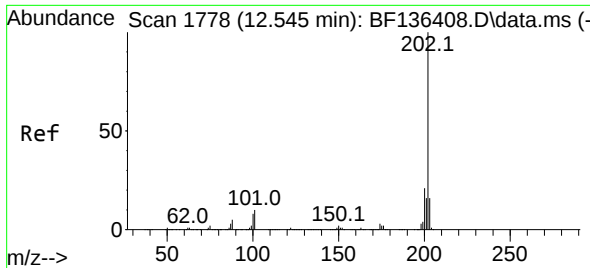
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023



#71  
Phenanthrene  
Concen: 3.778 ng  
RT: 11.339 min Scan# 1573  
Delta R.T. -0.012 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

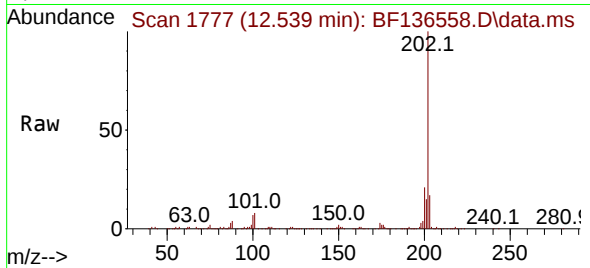
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Ion Ratio Lower Upper  
178 100  
176 19.4 15.9 23.9  
179 15.8 11.8 17.6





#75  
Fluoranthene  
Concen: 10.732 ng  
RT: 12.539 min Scan# 115809  
Delta R.T. -0.006 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

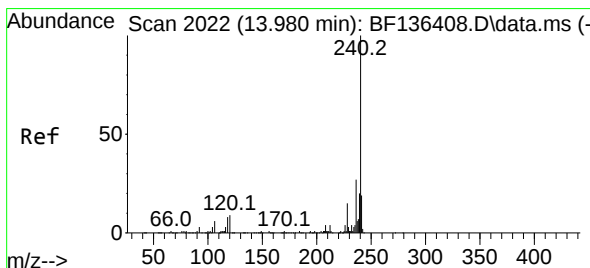
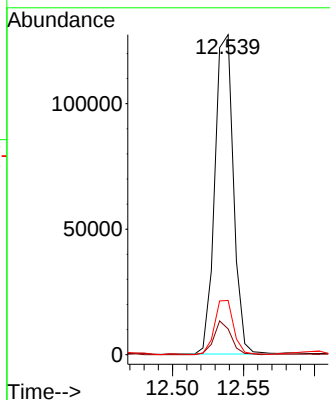
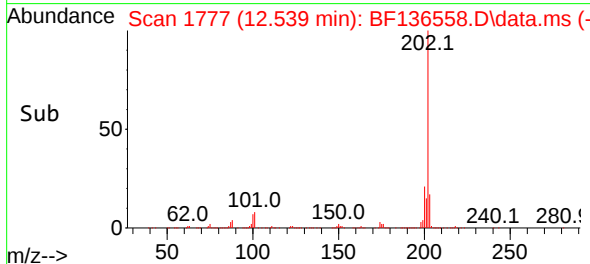
Instrument :  
BNA\_F  
ClientSampleId :  
SP-E2-COMP



Tgt Ion:202 Resp: 115809  
Ion Ratio Lower Upper  
202 100  
101 8.1 0.0 29.9  
203 17.0 0.0 36.3

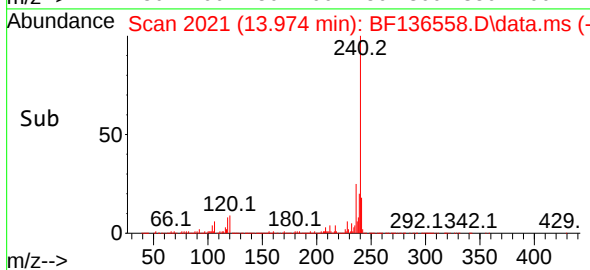
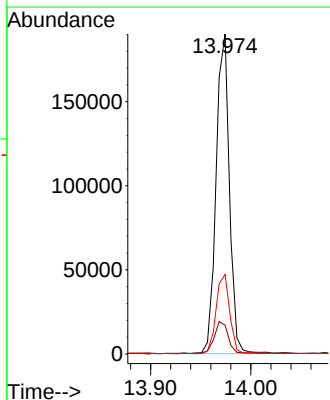
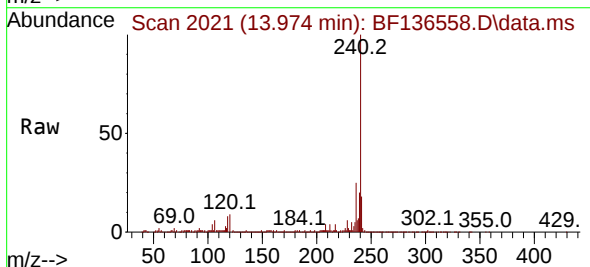
Manual Integrations  
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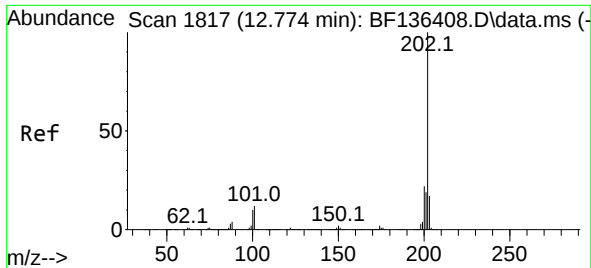
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.974 min Scan# 2021  
Delta R.T. -0.006 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

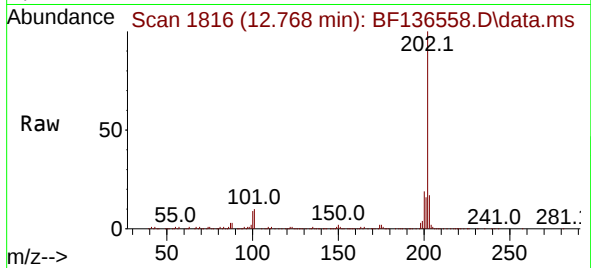
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Ion Ratio Lower Upper  
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120 9.0 7.3 10.9  
236 24.8 21.3 31.9





#78  
Pyrene  
Concen: 6.614 ng  
RT: 12.768 min Scan# 1816  
Delta R.T. -0.006 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

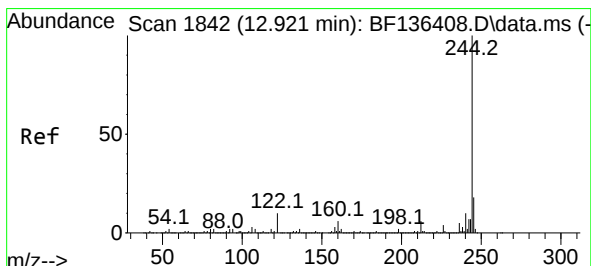
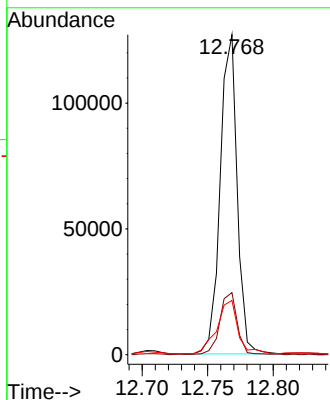
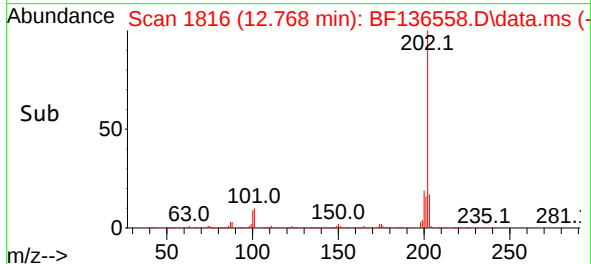
Instrument :  
BNA\_F  
ClientSampleId :  
SP-E2-COMP



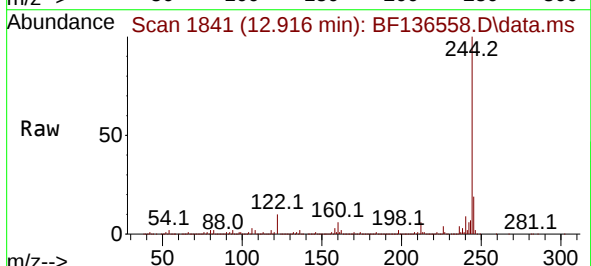
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Ion Ratio Lower Upper  
202 100  
200 19.4 18.0 27.0  
203 16.9 13.5 20.3

Manual Integrations  
APPROVED

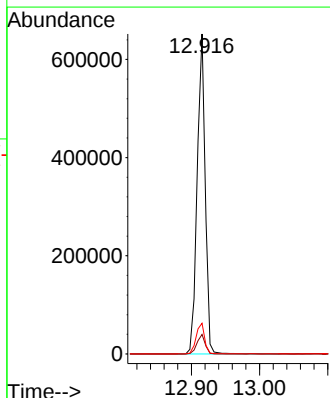
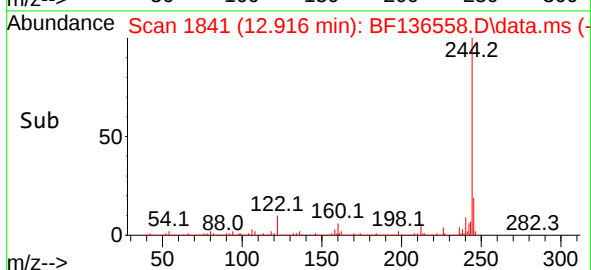
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023

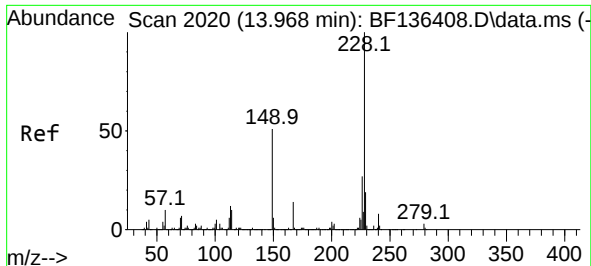


#79  
Terphenyl-d14  
Concen: 40.127 ng  
RT: 12.916 min Scan# 1841  
Delta R.T. -0.006 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03



Tgt Ion:244 Resp: 534621  
Ion Ratio Lower Upper  
244 100  
212 6.1 5.0 7.4  
122 9.6 8.3 12.5





#81  
Benzo(a)anthracene  
Concen: 5.707 ng  
RT: 13.963 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

Instrument :

BNA\_F

ClientSampleId :

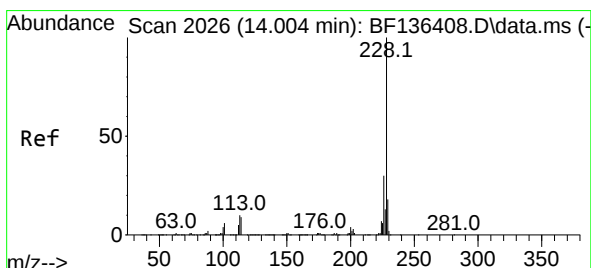
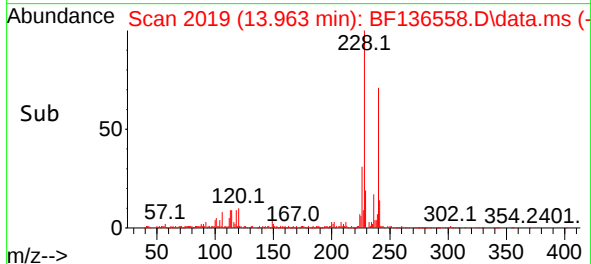
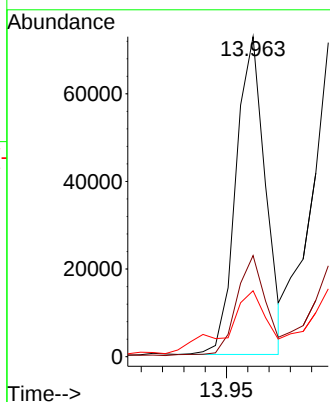
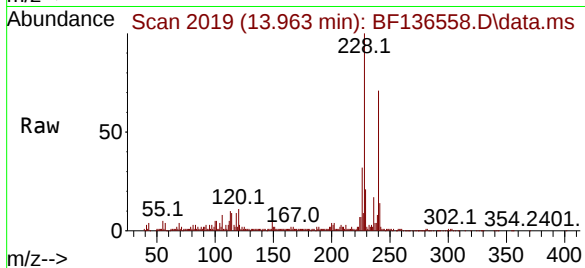
SP-E2-COMP

Tgt Ion:228 Resp: 6981  
Ion Ratio Lower Upper  
228 100  
226 31.6 21.8 32.8  
229 20.6 15.0 22.4

Manual Integrations

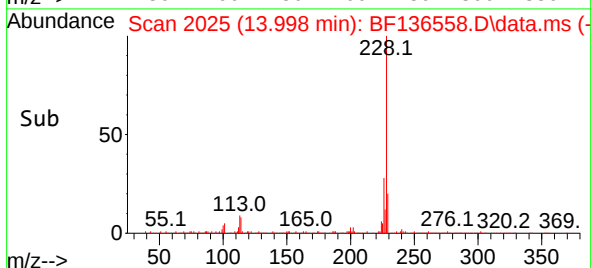
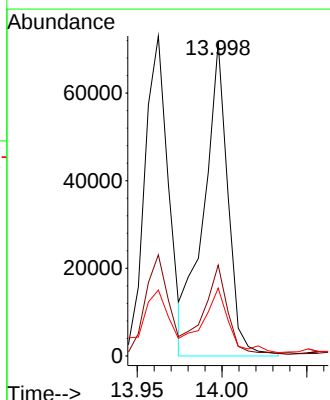
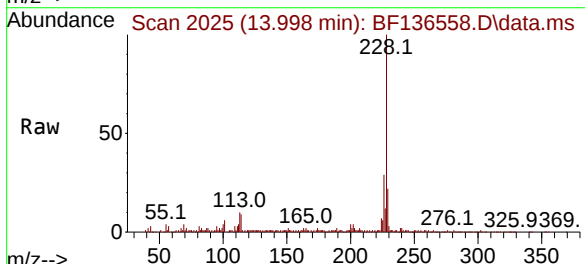
APPROVED

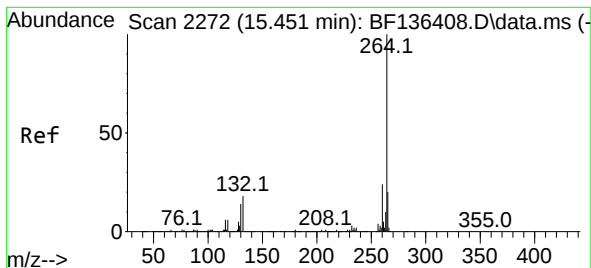
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023



#83  
Chrysene  
Concen: 5.897 ng m  
RT: 13.998 min Scan# 2025  
Delta R.T. -0.006 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

Tgt Ion:228 Resp: 70964  
Ion Ratio Lower Upper  
228 100  
226 28.9 23.8 35.6  
229 21.6 14.8 22.2





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.451 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BF136558.D  
 Acq: 14 Dec 2023 02:03

Instrument :

BNA\_F

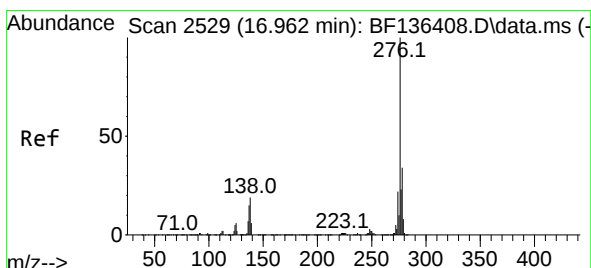
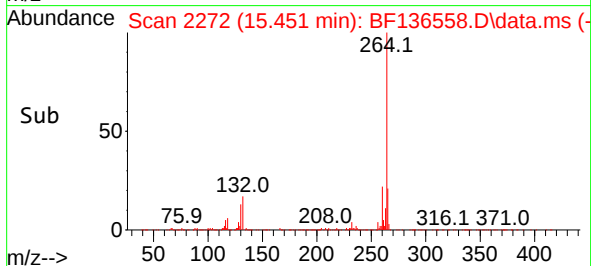
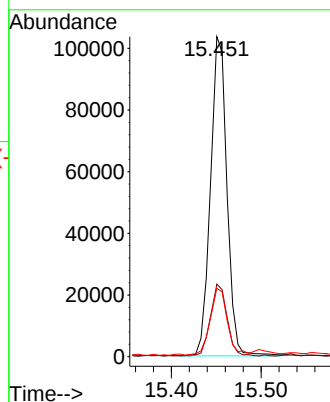
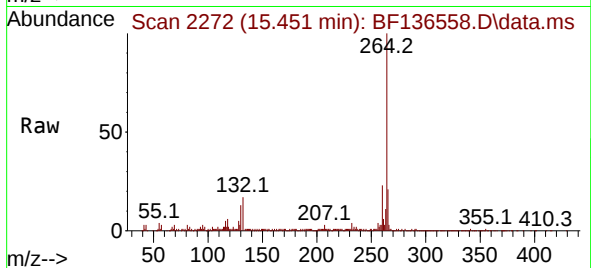
ClientSampleId :

SP-E2-COMP

Tgt Ion:264 Resp: 13170  
 Ion Ratio Lower Upper  
 264 100  
 260 22.6 19.2 28.8  
 265 21.4 15.9 23.9

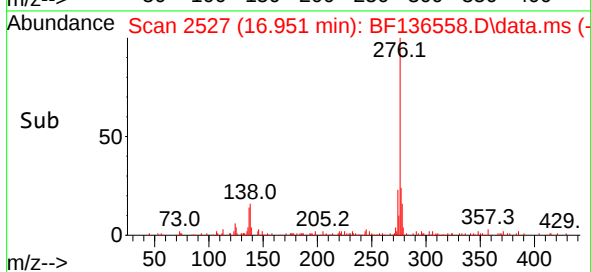
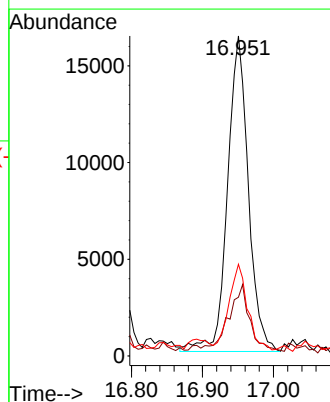
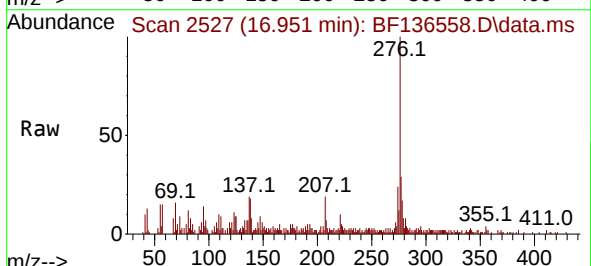
Manual Integrations  
 APPROVED

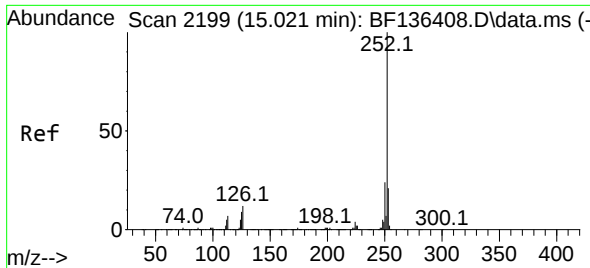
Reviewed By :Yogesh Patel 12/14/2023  
 Supervised By :mohammad ahmed 12/14/2023



#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.637 ng  
 RT: 16.951 min Scan# 2527  
 Delta R.T. -0.012 min  
 Lab File: BF136558.D  
 Acq: 14 Dec 2023 02:03

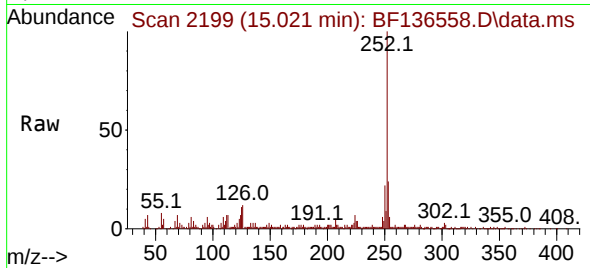
Tgt Ion:276 Resp: 33282  
 Ion Ratio Lower Upper  
 276 100  
 138 21.4 19.0 28.4  
 277 24.0 20.0 30.0





#88  
Benzo(b)fluoranthene  
Concen: 9.710 ng m  
RT: 15.021 min Scan# 2199  
Delta R.T. -0.000 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03

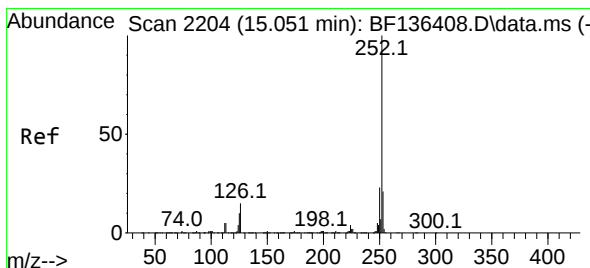
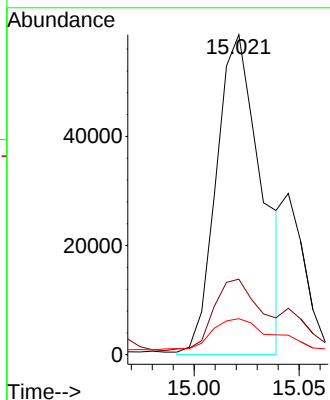
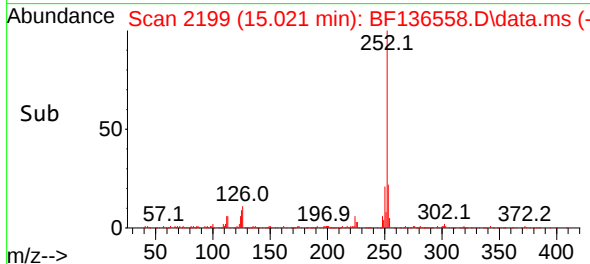
Instrument :  
BNA\_F  
ClientSampleId :  
SP-E2-COMP



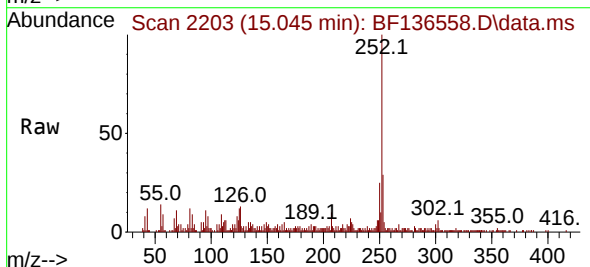
Tgt Ion:252 Resp: 87438  
Ion Ratio Lower Upper  
252 100  
253 23.6 16.9 25.3  
125 11.2 7.4 11.2

Manual Integrations  
APPROVED

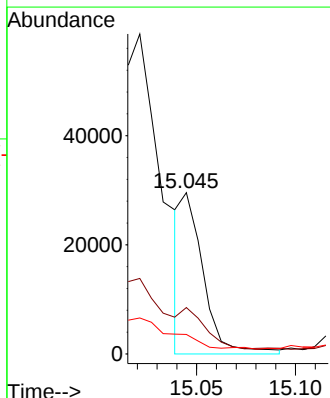
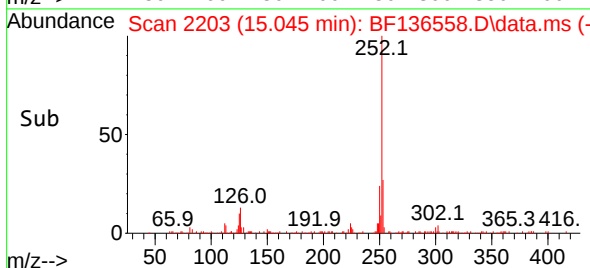
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023

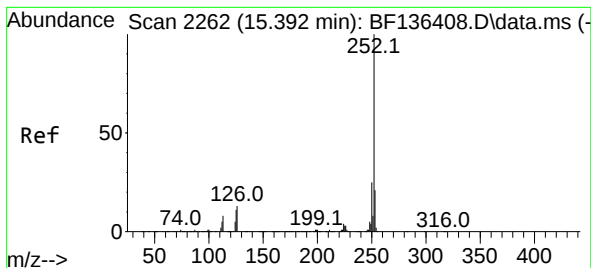


#89  
Benzo(k)fluoranthene  
Concen: 2.731 ng m  
RT: 15.045 min Scan# 2203  
Delta R.T. -0.006 min  
Lab File: BF136558.D  
Acq: 14 Dec 2023 02:03



Tgt Ion:252 Resp: 23176  
Ion Ratio Lower Upper  
252 100  
253 28.8 16.9 25.3#  
125 12.1 7.5 11.3#





#90

Benzo(a)pyrene

Concen: 7.065 ng

RT: 15.386 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136558.D

Acq: 14 Dec 2023 02:03

Instrument :

BNA\_F

ClientSampleId :

SP-E2-COMP

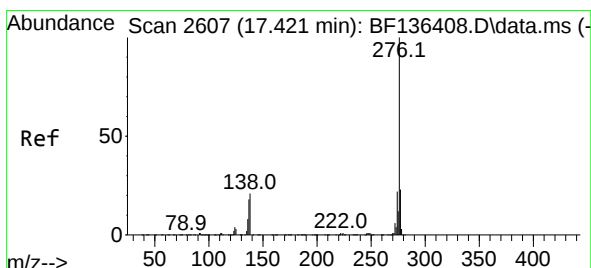
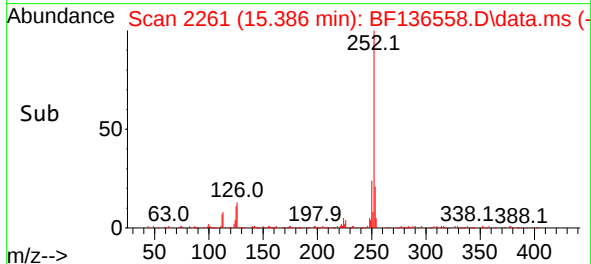
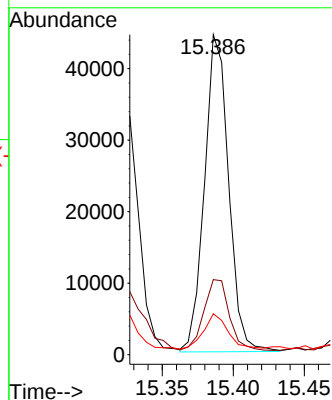
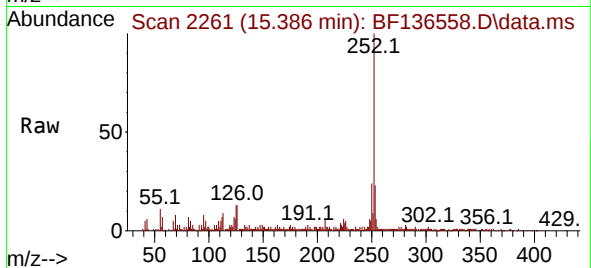
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 5254 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 23.4  | 17.0  | 25.4 |
| 125       | 12.8  | 8.6   | 13.0 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/14/2023

Supervised By :mohammad ahmed 12/14/2023



#92

Benzo(g,h,i)perylene

Concen: 4.183 ng

RT: 17.409 min Scan# 2605

Delta R.T. -0.012 min

Lab File: BF136558.D

Acq: 14 Dec 2023 02:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 32183 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 27.9  | 18.7  | 28.1  |
| 138       | 21.8  | 16.6  | 25.0  |

