

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122823\  
 Data File : BF136812.D  
 Acq On : 29 Dec 2023 00:56  
 Operator : CG\JU  
 Sample : 05882-01RE 10X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-121523RE

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/29/2023  
 Supervised By :mohammad ahmed 12/29/2023

Quant Time: Dec 29 01:24:46 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.781  | 152  | 65865    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.057  | 136  | 210544   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.816  | 164  | 82205    | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.310 | 188  | 153071   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 13.963 | 240  | 148772   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.445 | 264  | 108946   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.416  | 112  | 36050    | 8.540  | ng    | -0.01    |
| 7) Phenol-d6                | 6.428  | 99   | 43830    | 8.013  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.339  | 82   | 26356    | 6.406  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.610 | 330  | 7500     | 7.747  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.133  | 172  | 46098    | 7.542  | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.904 | 244  | 55756    | 5.237  | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.327 | 178  | 50657    | 6.450  | ng    | 98       |
| 72) Anthracene              | 11.380 | 178  | 18265m   | 2.296  | ng    |          |
| 75) Fluoranthene            | 12.527 | 202  | 104141   | 12.396 | ng    | 97       |
| 78) Pyrene                  | 12.763 | 202  | 117301   | 8.032  | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.957 | 228  | 72607    | 7.028  | ng    | 94       |
| 83) Chrysene                | 13.992 | 228  | 70087m   | 6.938  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 16.945 | 276  | 23988    | 3.050  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.010 | 252  | 56901m   | 7.820  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.039 | 252  | 22949m   | 3.338  | ng    |          |
| 90) Benzo(a)pyrene          | 15.380 | 252  | 43186    | 7.031  | ng    | # 89     |
| 92) Benzo(g,h,i)perylene    | 17.404 | 276  | 24054    | 3.639  | ng    | 97       |
| -----                       |        |      |          |        |       |          |

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

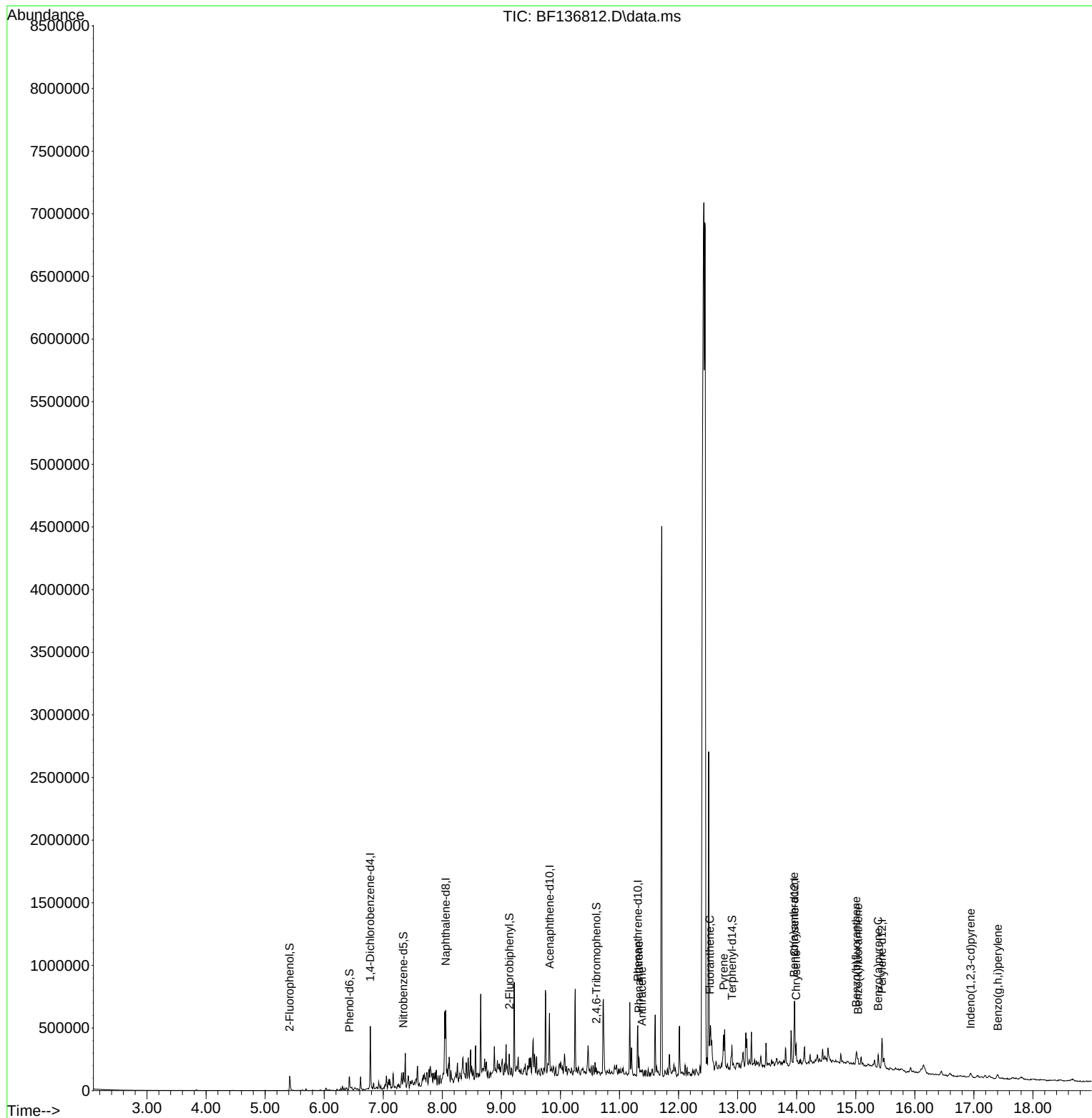
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122823\  
Data File : BF136812.D  
Acq On : 29 Dec 2023 00:56  
Operator : CG\JU  
Sample : 05882-01RE 10X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

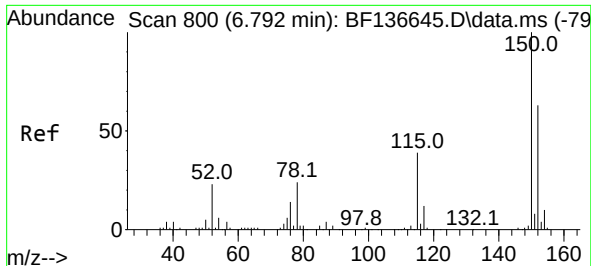
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-121523RE

Quant Time: Dec 29 01:24:46 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 21 01:54:25 2023  
Response via : Initial Calibration

Manual Integrations  
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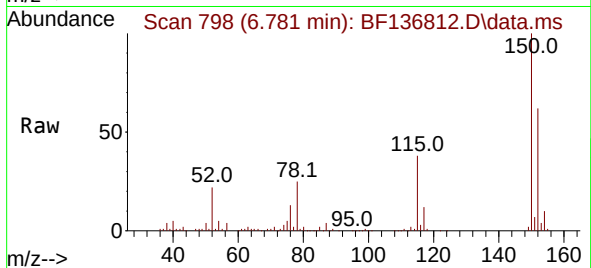
Reviewed By :Yogesh Patel 12/29/2023  
Supervised By :mohammad ahmed 12/29/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.781 min Scan# 798  
Delta R.T. -0.011 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

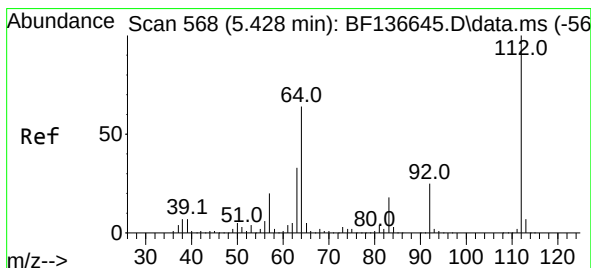
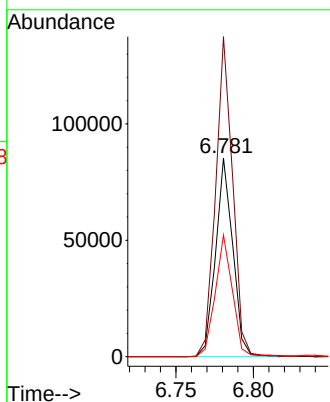
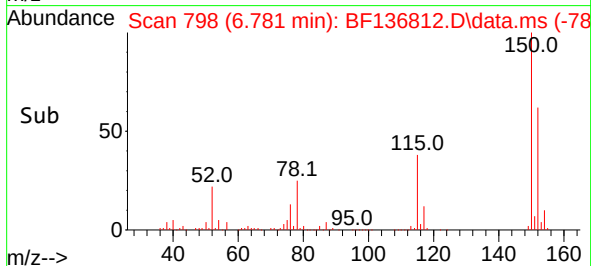
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-121523RE



Tgt Ion:152 Resp: 6586  
Ion Ratio Lower Upper  
152 100  
150 161.1 127.0 190.6  
115 61.2 49.0 73.4

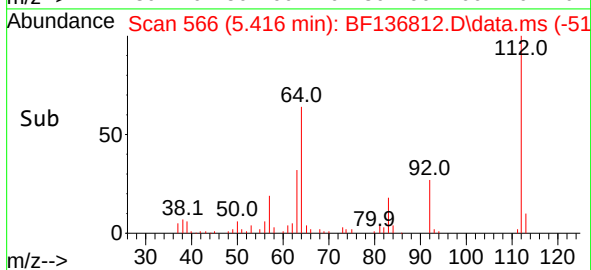
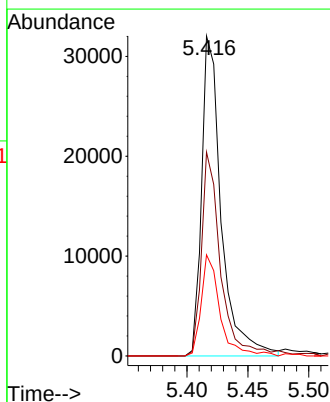
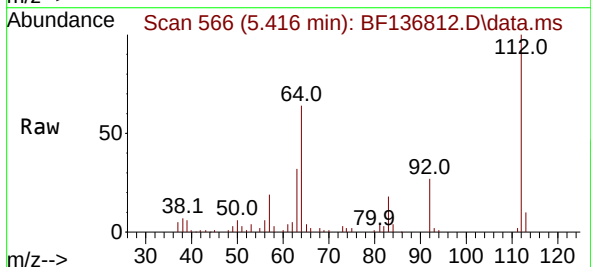
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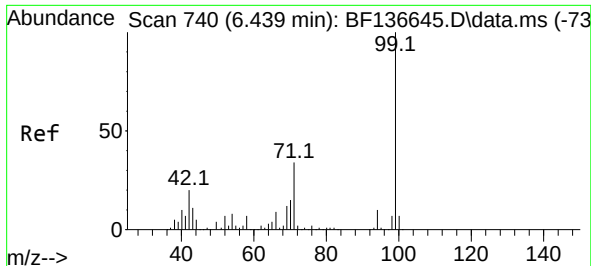
Reviewed By :Yogesh Patel 12/29/2023  
Supervised By :mohammad ahmed 12/29/2023



#5  
2-Fluorophenol  
Concen: 8.540 ng  
RT: 5.416 min Scan# 566  
Delta R.T. -0.012 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

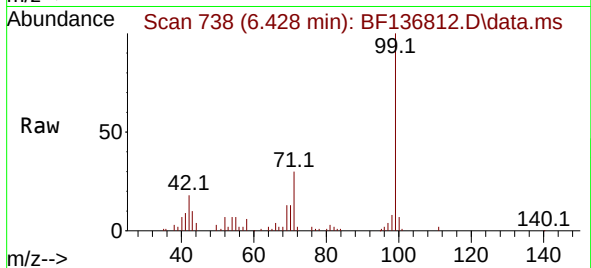
Tgt Ion:112 Resp: 36050  
Ion Ratio Lower Upper  
112 100  
64 63.7 51.1 76.7  
63 31.6 26.1 39.1





#7  
Phenol-d6  
Concen: 8.013 ng  
RT: 6.428 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

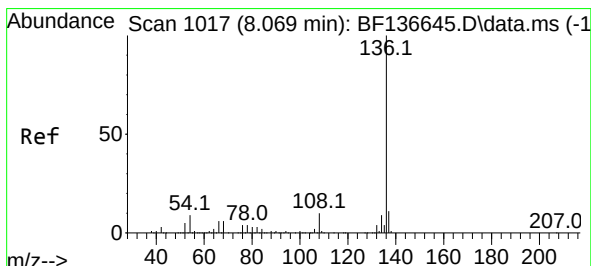
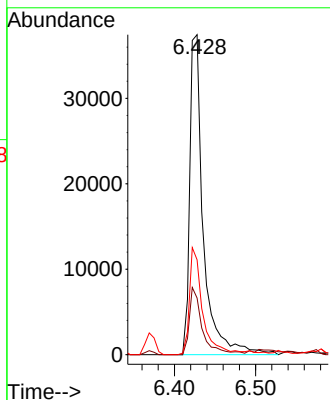
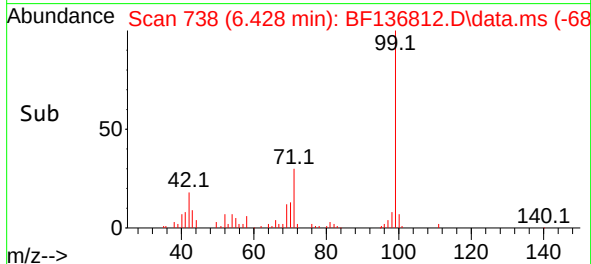
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 99 Resp: 43830  
Ion Ratio Lower Upper  
99 100  
42 17.7 16.1 24.1  
71 29.6 27.4 41.2

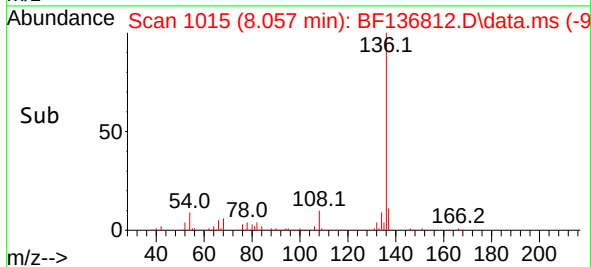
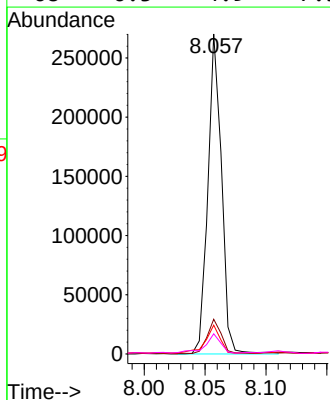
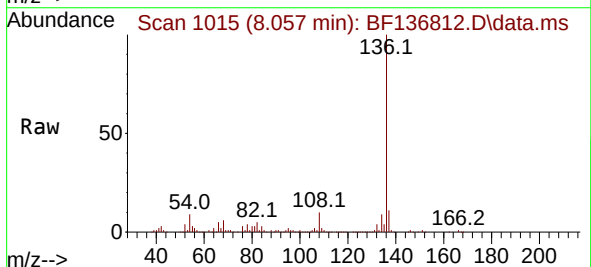
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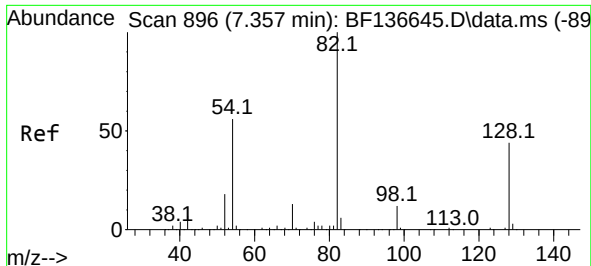
Reviewed By :Yogesh Patel 12/29/2023  
Supervised By :mohammad ahmed 12/29/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.057 min Scan# 1015  
Delta R.T. -0.012 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

Tgt Ion:136 Resp: 210544  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.0 13.4  
54 9.0 7.2 10.8  
68 6.3 4.9 7.3





#23

Nitrobenzene-d5

Concen: 6.406 ng

RT: 7.339 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF136812.D

Acq: 29 Dec 2023 00:56

Instrument :

BNA\_F

ClientSampleId :

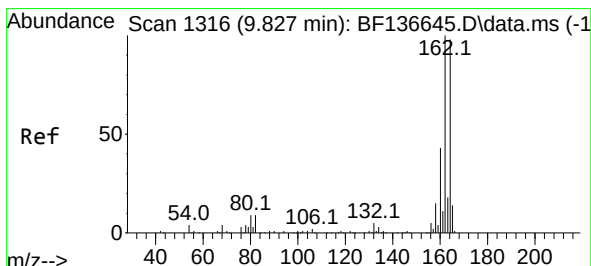
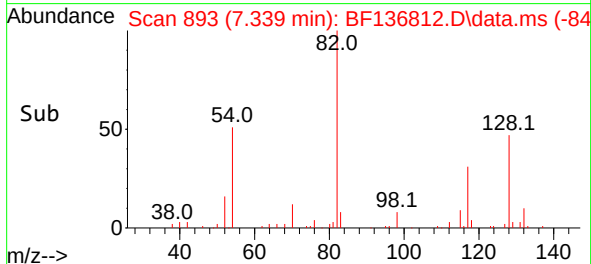
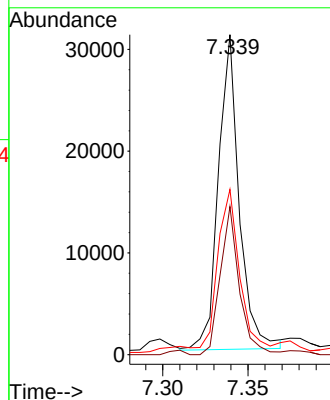
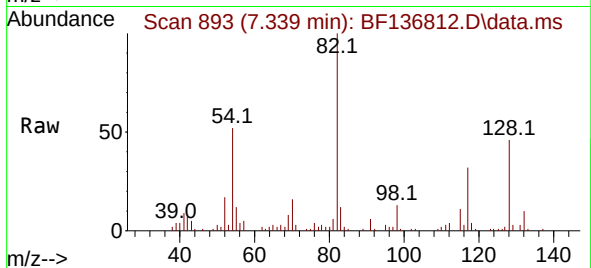
TR-04-121523RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 26350 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 46.3  | 35.3  | 52.9  |
| 54        | 51.7  | 44.5  | 66.7  |

Manual Integrations

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Reviewed By :Yogesh Patel 12/29/2023  
Supervised By :mohammad ahmed 12/29/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

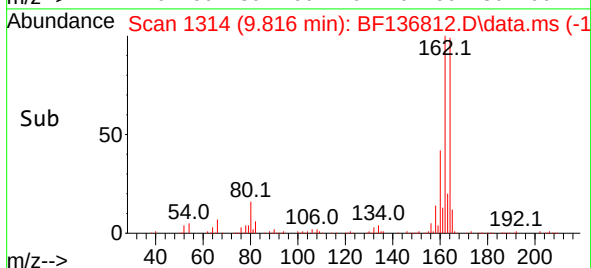
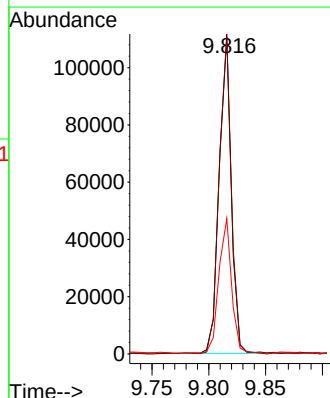
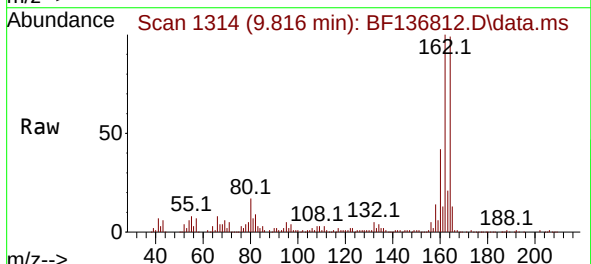
RT: 9.816 min Scan# 1314

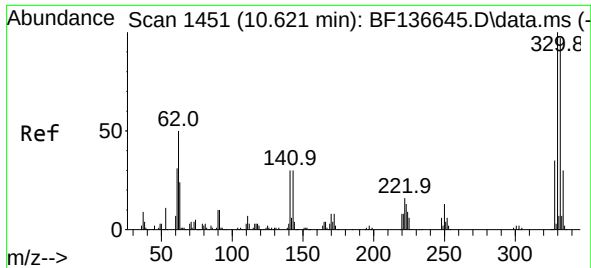
Delta R.T. -0.012 min

Lab File: BF136812.D

Acq: 29 Dec 2023 00:56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 82205 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 100.8 | 81.6  | 122.4 |
| 160       | 42.6  | 34.9  | 52.3  |





#42  
2,4,6-Tribromophenol  
Concen: 7.747 ng  
RT: 10.610 min Scan# 1451  
Delta R.T. -0.012 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

Instrument :

BNA\_F

ClientSampleId :

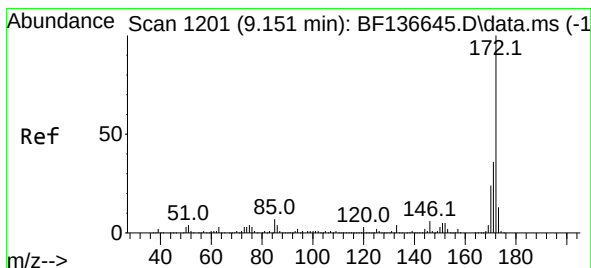
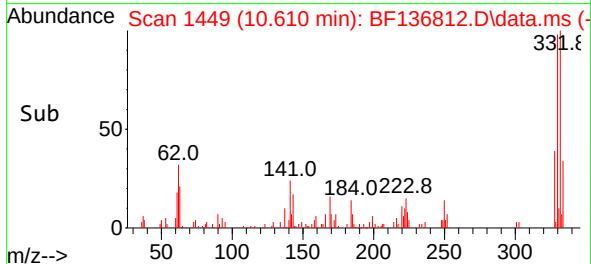
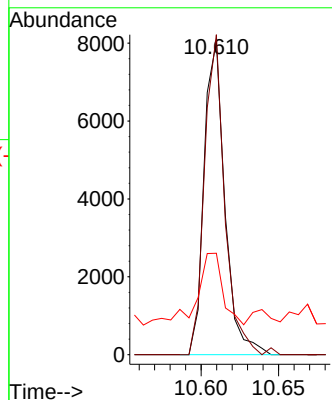
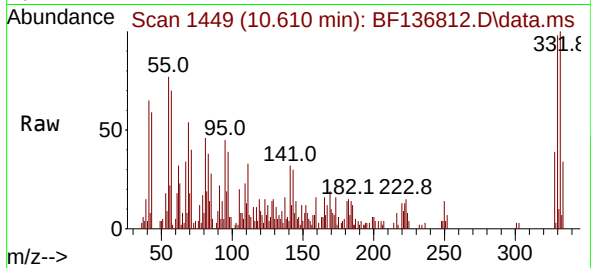
TR-04-121523RE

Tgt Ion:330 Resp: 7500  
Ion Ratio Lower Upper  
330 100  
332 99.2 77.4 116.0  
141 27.9 23.4 35.2

Manual Integrations

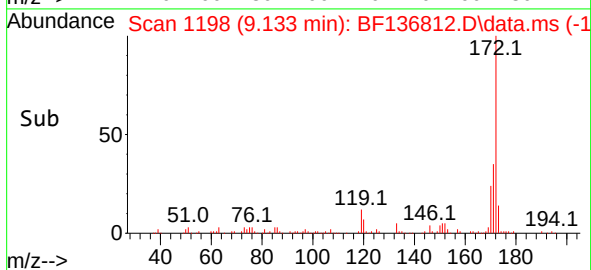
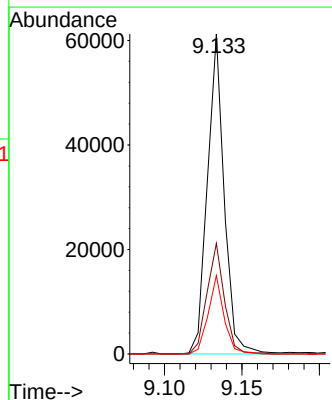
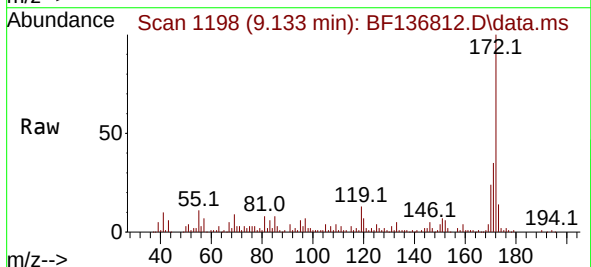
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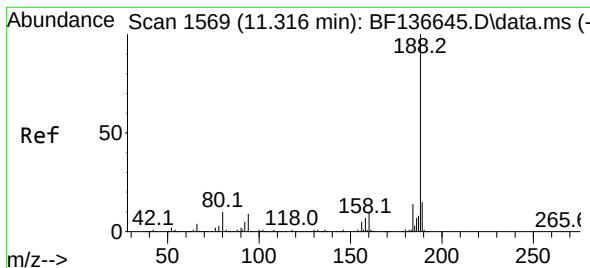
Reviewed By :Yogesh Patel 12/29/2023  
Supervised By :mohammad ahmed 12/29/2023



#45  
2-Fluorobiphenyl  
Concen: 7.542 ng  
RT: 9.133 min Scan# 1198  
Delta R.T. -0.018 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

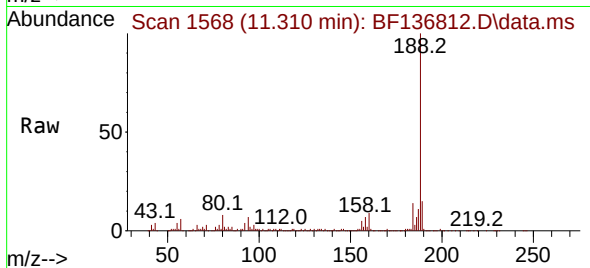
Tgt Ion:172 Resp: 46098  
Ion Ratio Lower Upper  
172 100  
171 34.6 29.0 43.6  
170 24.5 19.0 28.4





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.310 min Scan# 1569  
Delta R.T. -0.006 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

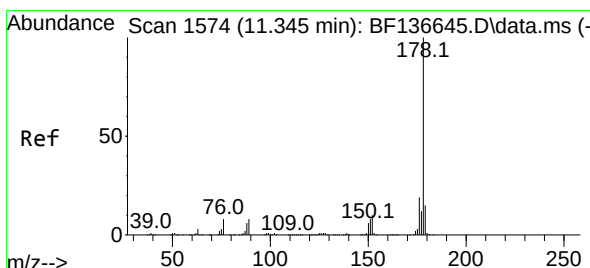
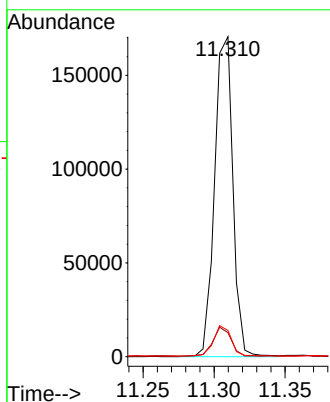
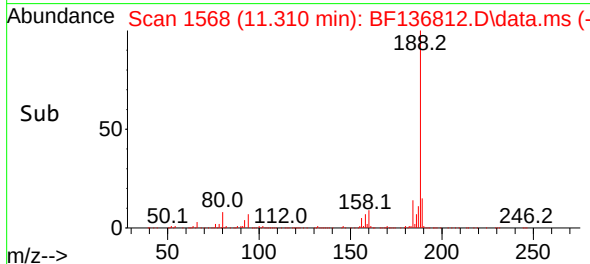
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-121523RE



Tgt Ion:188 Resp: 153072  
Ion Ratio Lower Upper  
188 100  
94 7.5 7.5 11.3  
80 8.2 8.1 12.1

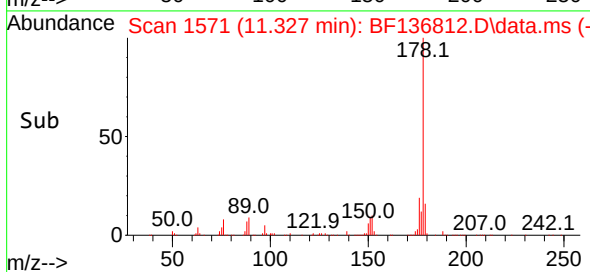
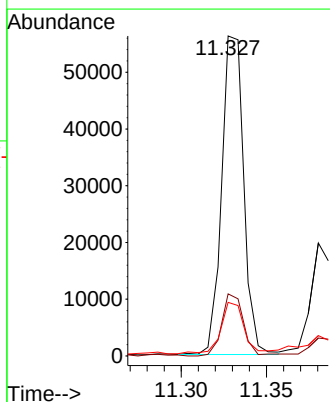
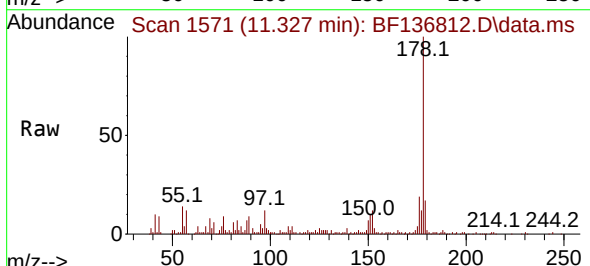
Manual Integrations  
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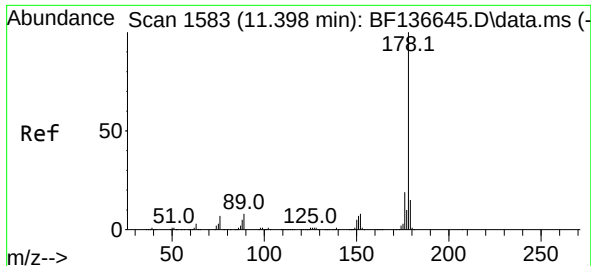
Reviewed By :Yogesh Patel 12/29/2023  
Supervised By :mohammad ahmed 12/29/2023



#71  
Phenanthrene  
Concen: 6.450 ng  
RT: 11.327 min Scan# 1571  
Delta R.T. -0.018 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

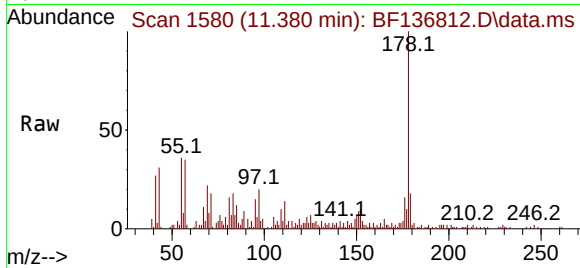
Tgt Ion:178 Resp: 50657  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.3 22.9  
179 16.8 11.9 17.9





#72  
 Anthracene  
 Concen: 2.296 ng m  
 RT: 11.380 min Scan# 11  
 Delta R.T. -0.018 min  
 Lab File: BF136812.D  
 Acq: 29 Dec 2023 00:56

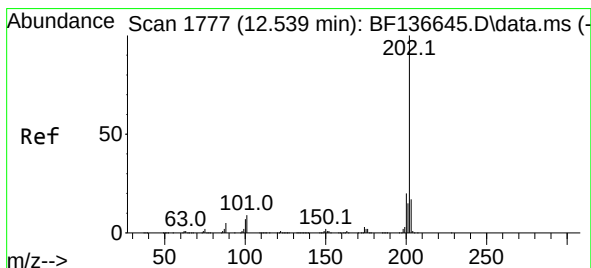
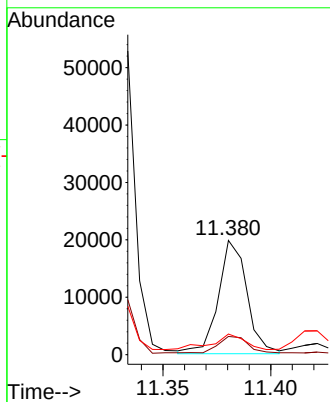
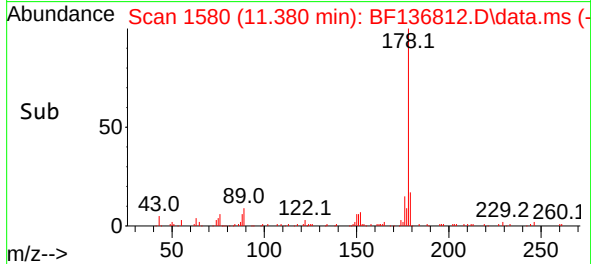
Instrument :  
 BNA\_F  
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 TR-04-121523RE



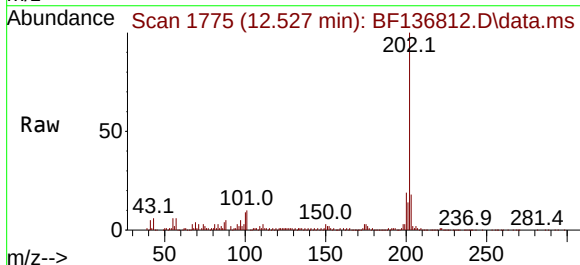
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 Ion Ratio Lower Upper  
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 179 18.1 11.8 17.6

Manual Integrations  
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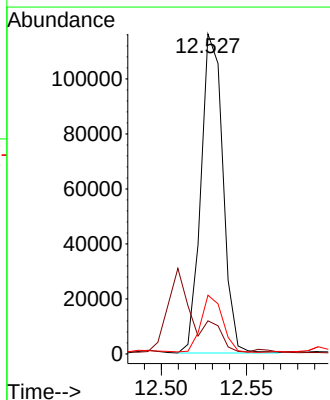
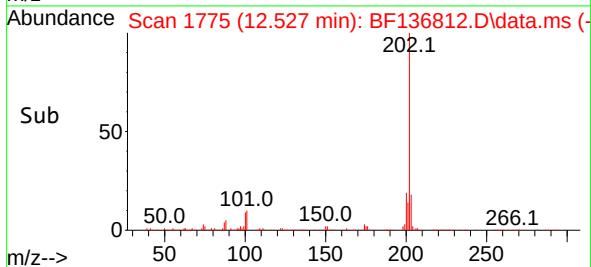
Reviewed By :Yogesh Patel 12/29/2023  
 Supervised By :mohammad ahmed 12/29/2023



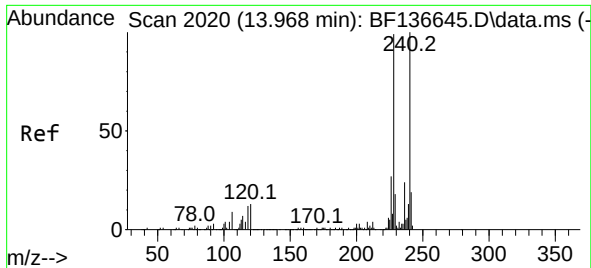
#75  
 Fluoranthene  
 Concen: 12.396 ng  
 RT: 12.527 min Scan# 1775  
 Delta R.T. -0.012 min  
 Lab File: BF136812.D  
 Acq: 29 Dec 2023 00:56



Tgt Ion:202 Resp: 104141  
 Ion Ratio Lower Upper  
 202 100  
 101 10.4 0.0 29.3  
 203 18.3 0.0 37.1







#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.963 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

Instrument :

BNA\_F

ClientSampleId :

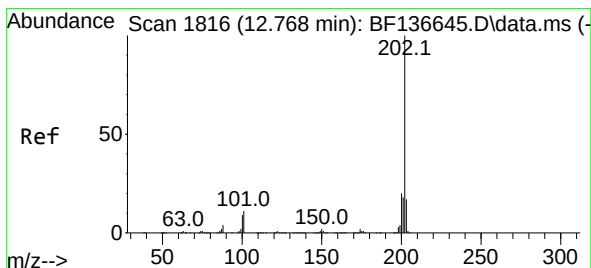
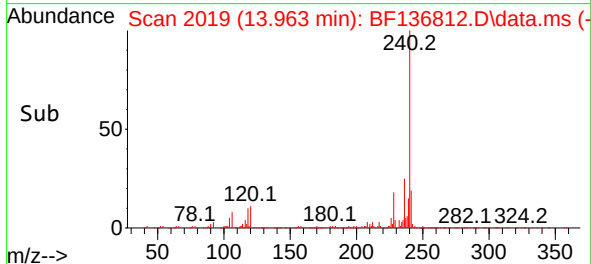
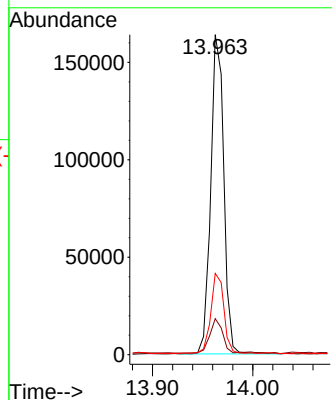
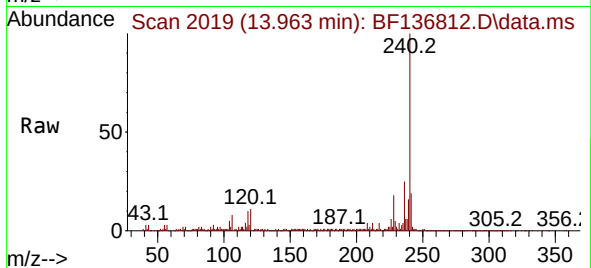
TR-04-121523RE

Tgt Ion:240 Resp: 148772  
Ion Ratio Lower Upper  
240 100  
120 11.3 10.3 15.5  
236 25.4 19.4 29.2

Manual Integrations

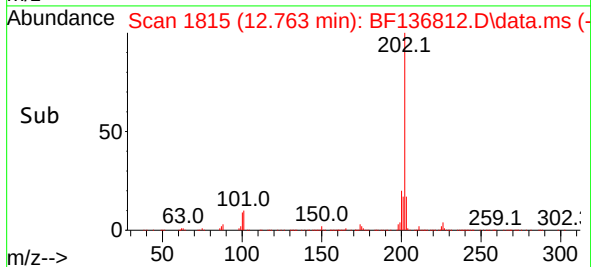
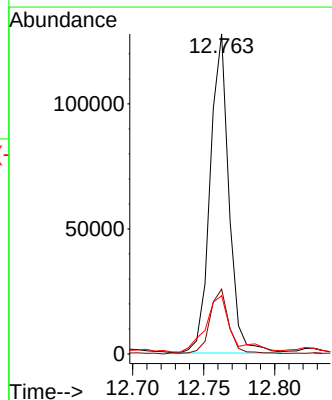
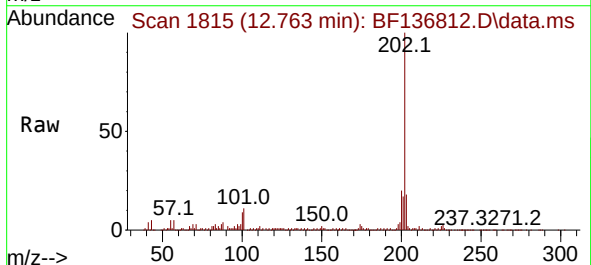
APPROVED

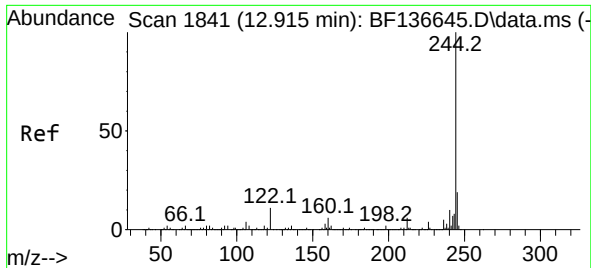
Reviewed By :Yogesh Patel 12/29/2023  
Supervised By :mohammad ahmed 12/29/2023



#78  
Pyrene  
Concen: 8.032 ng  
RT: 12.763 min Scan# 1815  
Delta R.T. -0.006 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

Tgt Ion:202 Resp: 117301  
Ion Ratio Lower Upper  
202 100  
200 20.3 15.9 23.9  
203 18.2 13.8 20.6





#79  
 Terphenyl-d14  
 Concen: 5.237 ng  
 RT: 12.904 min Scan# 1839  
 Delta R.T. -0.012 min  
 Lab File: BF136812.D  
 Acq: 29 Dec 2023 00:56

Instrument :

BNA\_F

ClientSampleId :

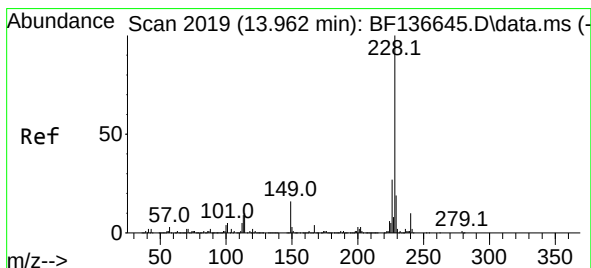
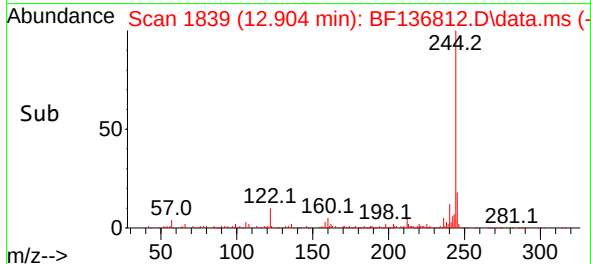
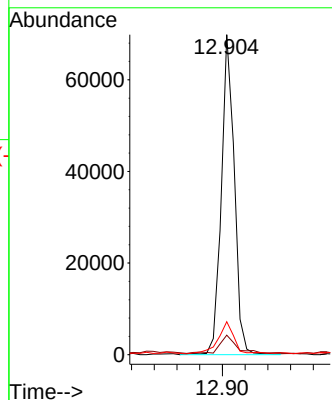
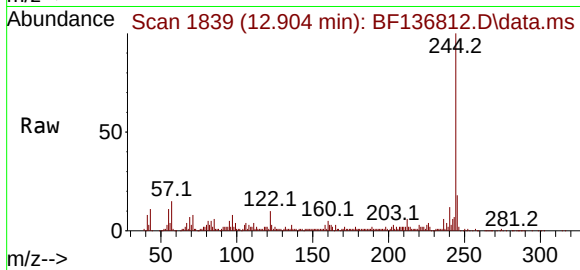
TR-04-121523RE

Tgt Ion:244 Resp: 55750  
 Ion Ratio Lower Upper  
 244 100  
 212 6.1 5.0 7.4  
 122 10.3 9.0 13.4

Manual Integrations

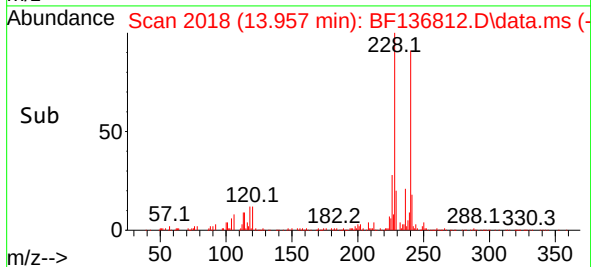
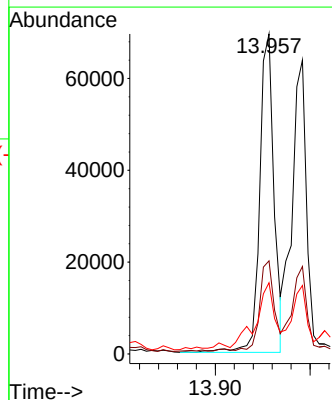
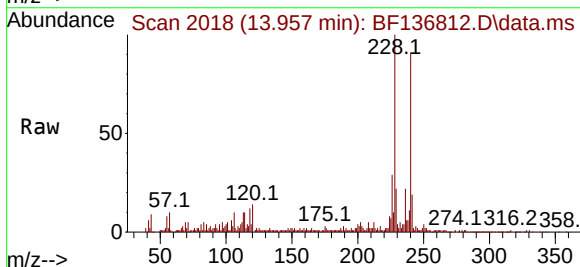
APPROVED

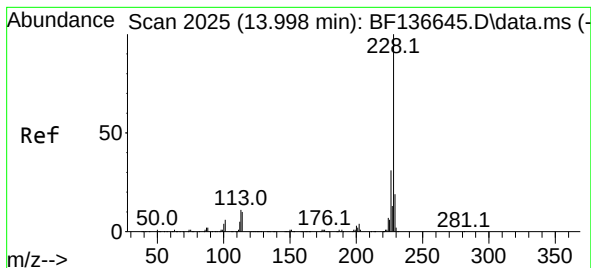
Reviewed By :Yogesh Patel 12/29/2023  
 Supervised By :mohammad ahmed 12/29/2023



#81  
 Benzo(a)anthracene  
 Concen: 7.028 ng  
 RT: 13.957 min Scan# 2018  
 Delta R.T. -0.006 min  
 Lab File: BF136812.D  
 Acq: 29 Dec 2023 00:56

Tgt Ion:228 Resp: 72607  
 Ion Ratio Lower Upper  
 228 100  
 226 29.1 21.4 32.0  
 229 22.2 14.9 22.3





#83

Chrysene

Concen: 6.938 ng m

RT: 13.992 min Scan# 2025

Delta R.T. -0.006 min

Lab File: BF136812.D

Acq: 29 Dec 2023 00:56

Instrument :

BNA\_F

ClientSampleId :

TR-04-121523RE

Tgt Ion:228 Resp: 7008

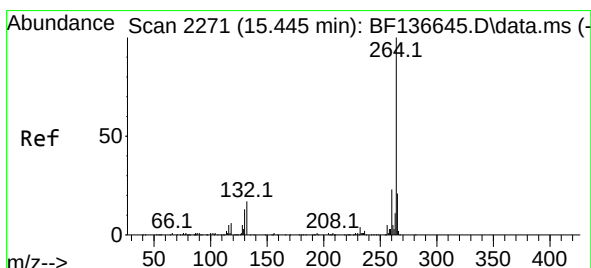
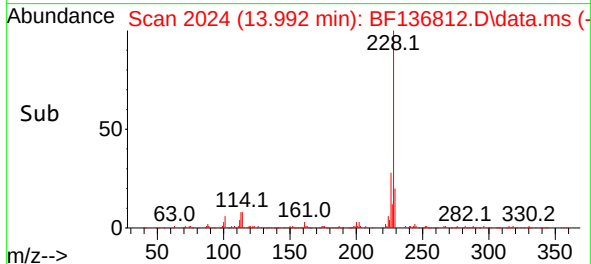
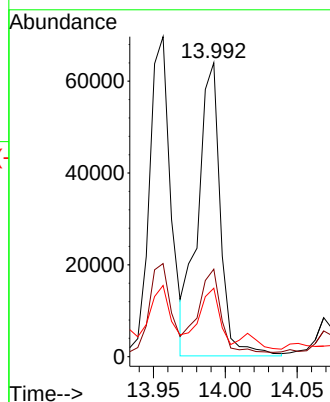
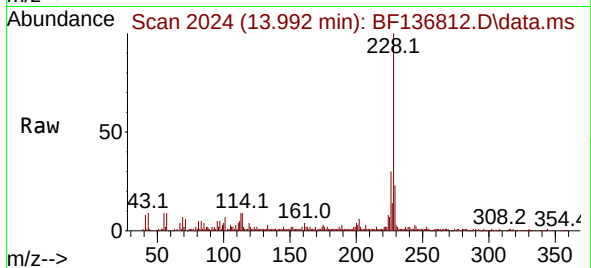
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.8  | 24.7  | 37.1  |
| 229 | 23.3  | 15.4  | 23.0  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/29/2023

Supervised By :mohammad ahmed 12/29/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.445 min Scan# 2271

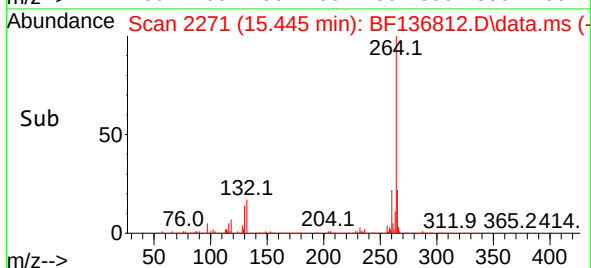
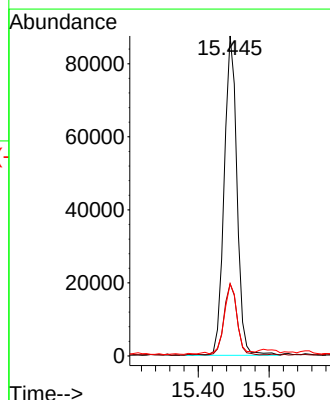
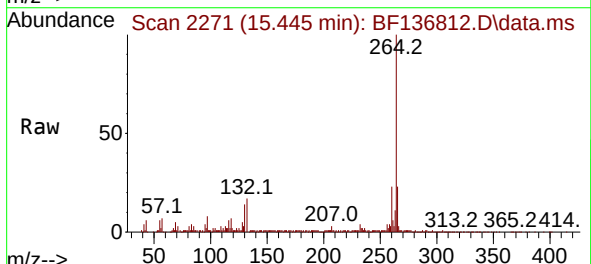
Delta R.T. 0.000 min

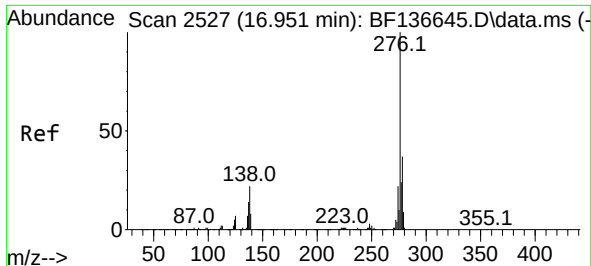
Lab File: BF136812.D

Acq: 29 Dec 2023 00:56

Tgt Ion:264 Resp: 108946

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.5  | 18.3  | 27.5  |
| 265 | 22.5  | 17.0  | 25.6  |





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.050 ng  
RT: 16.945 min Scan# 2198  
Delta R.T. -0.006 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

Instrument :

BNA\_F

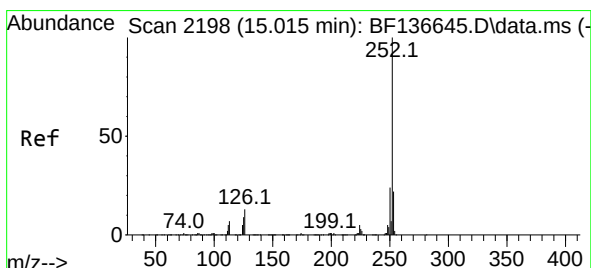
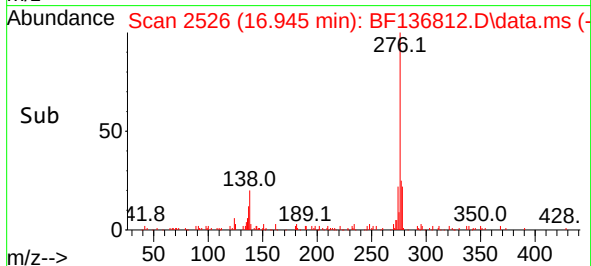
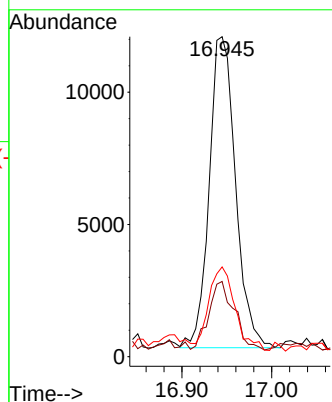
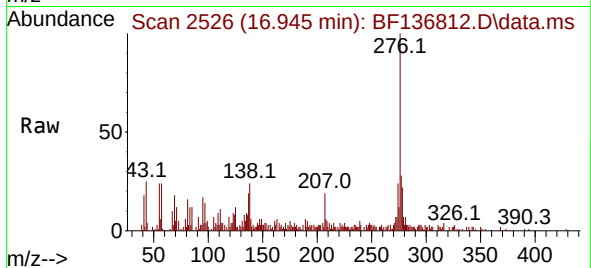
ClientSampleId :

TR-04-121523RE

Tgt Ion:276 Resp: 2398  
Ion Ratio Lower Upper  
276 100  
138 21.8 18.7 28.1  
277 26.5 20.2 30.2

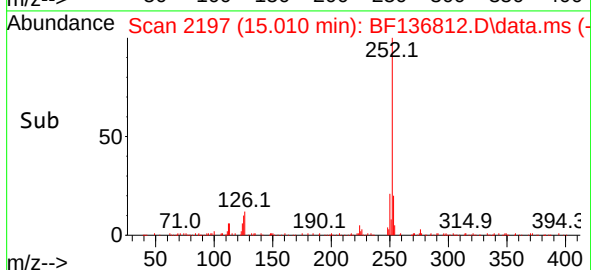
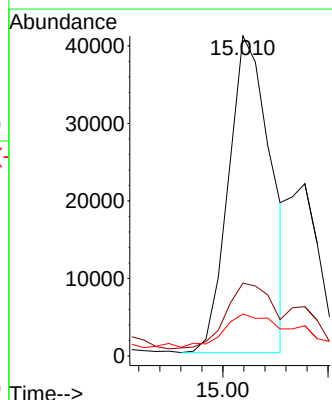
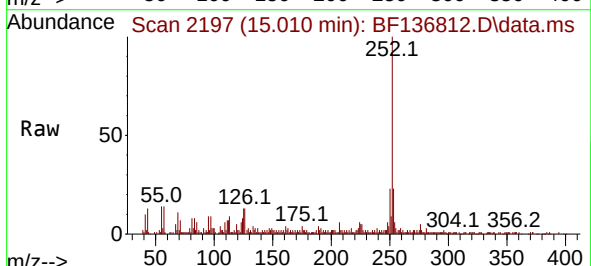
Manual Integrations  
APPROVED

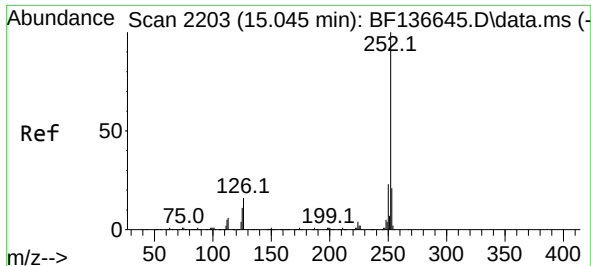
Reviewed By :Yogesh Patel 12/29/2023  
Supervised By :mohammad ahmed 12/29/2023



#88  
Benzo(b)fluoranthene  
Concen: 7.820 ng m  
RT: 15.010 min Scan# 2197  
Delta R.T. -0.006 min  
Lab File: BF136812.D  
Acq: 29 Dec 2023 00:56

Tgt Ion:252 Resp: 56901  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.4 26.0  
125 13.1 7.4 11.2#





#89

Benzo(k)fluoranthene

Concen: 3.338 ng m

RT: 15.039 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136812.D

Acq: 29 Dec 2023 00:56

Instrument :

BNA\_F

ClientSampleId :

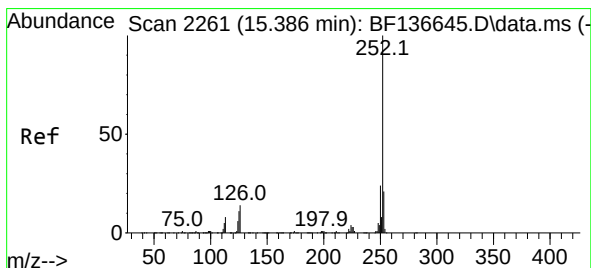
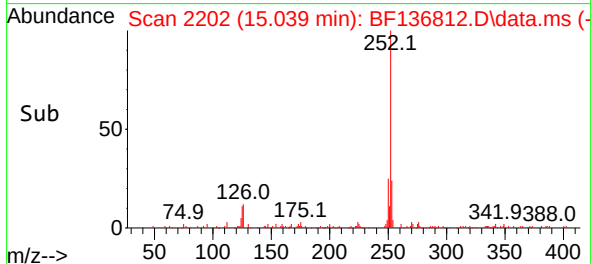
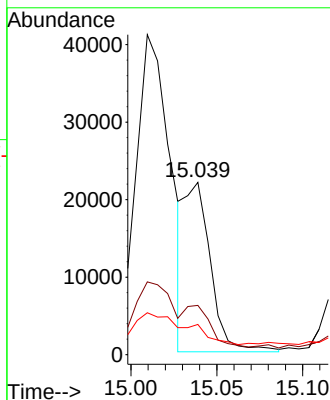
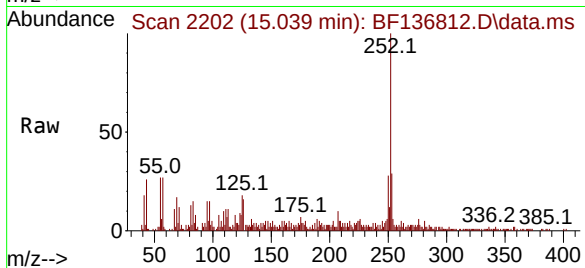
TR-04-121523RE

Tgt Ion:252 Resp: 22949  
 Ion Ratio Lower Upper  
 252 100  
 253 28.6 17.0 25.6#  
 125 17.6 8.2 12.4#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/29/2023  
 Supervised By :mohammad ahmed 12/29/2023



#90

Benzo(a)pyrene

Concen: 7.031 ng

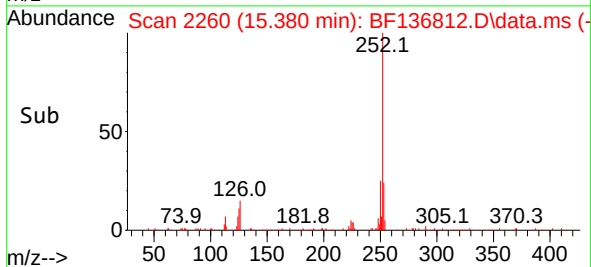
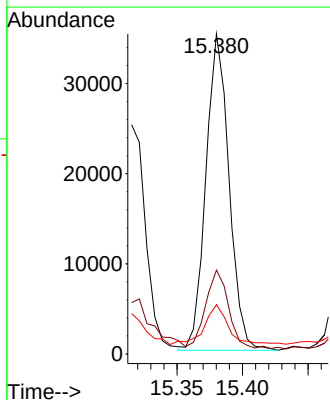
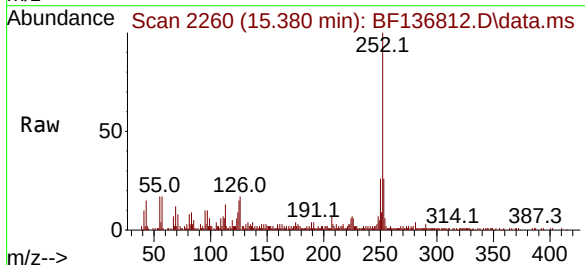
RT: 15.380 min Scan# 2260

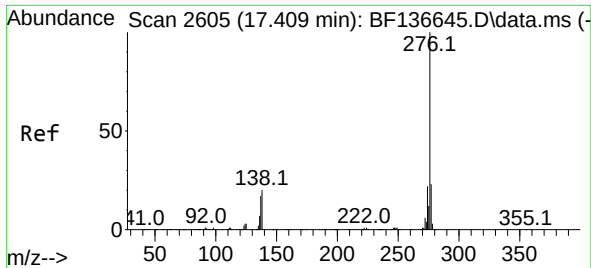
Delta R.T. -0.006 min

Lab File: BF136812.D

Acq: 29 Dec 2023 00:56

Tgt Ion:252 Resp: 43186  
 Ion Ratio Lower Upper  
 252 100  
 253 26.2 17.0 25.6#  
 125 15.4 8.8 13.2#





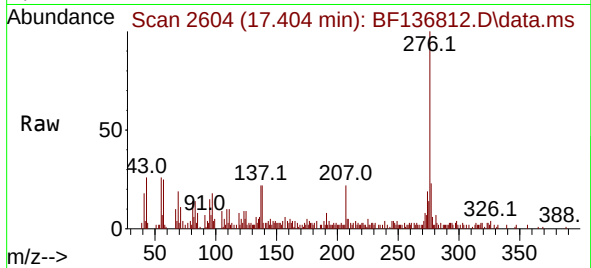
#92  
 Benzo(g,h,i)perylene  
 Concen: 3.639 ng  
 RT: 17.404 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: BF136812.D  
 Acq: 29 Dec 2023 00:56

Instrument :

BNA\_F

ClientSampleId :

TR-04-121523RE



Tgt Ion:276 Resp: 24054  
 Ion Ratio Lower Upper  
 276 100  
 277 23.4 18.3 27.5  
 138 22.3 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/29/2023

Supervised By :mohammad ahmed 12/29/2023

