

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072523\  
 Data File : BF134463.D  
 Acq On : 25 Jul 2023 15:20  
 Operator : CG\JU  
 Sample : 03633-02 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-01-COMP

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/26/2023  
 Supervised By :mohammad ahmed 07/26/2023

Quant Time: Jul 25 16:23:40 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF072423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 01:46:04 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.828  | 152  | 89359    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.110  | 136  | 361566   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.869  | 164  | 152044   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.363 | 188  | 238205   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 14.033 | 240  | 131706   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 15.539 | 264  | 178123   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.469  | 112  | 137644   | 25.449 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.469  | 99   | 180923   | 27.303 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.392  | 82   | 124186   | 17.378 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.663 | 330  | 49717    | 23.014 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.186  | 172  | 215474   | 18.605 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.963 | 244  | 136107   | 18.040 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 20) 3+4-Methylphenols         | 7.251  | 107  | 19700    | 3.149  | ng    | # 53     |
| 32) Benzoic acid              | 7.892  | 122  | 24139    | 7.005  | ng    | # 34     |
| 58) Fluorene                  | 10.416 | 166  | 34705    | 3.032  | ng    | # 94     |
| 71) Phenanthrene              | 11.386 | 178  | 300896   | 24.176 | ng    | 100      |
| 72) Anthracene                | 11.439 | 178  | 67279    | 5.238  | ng    | 98       |
| 75) Fluoranthene              | 12.592 | 202  | 183756   | 12.669 | ng    | 97       |
| 78) Pyrene                    | 12.821 | 202  | 157702   | 15.059 | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.027 | 228  | 75368    | 8.202  | ng    | 93       |
| 83) Chrysene                  | 14.062 | 228  | 74688    | 8.498  | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149  | 14584    | 2.862  | ng    | # 24     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.080 | 276  | 33660    | 2.893  | ng    | # 83     |
| 88) Benzo(b)fluoranthene      | 15.092 | 252  | 102075m  | 9.160  | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.121 | 252  | 32021m   | 2.922  | ng    |          |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 79031    | 7.673  | ng    | # 91     |
| 92) Benzo(g,h,i)perylene      | 17.550 | 276  | 26918    | 2.790  | ng    | # 91     |
| -----                         |        |      |          |        |       |          |

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

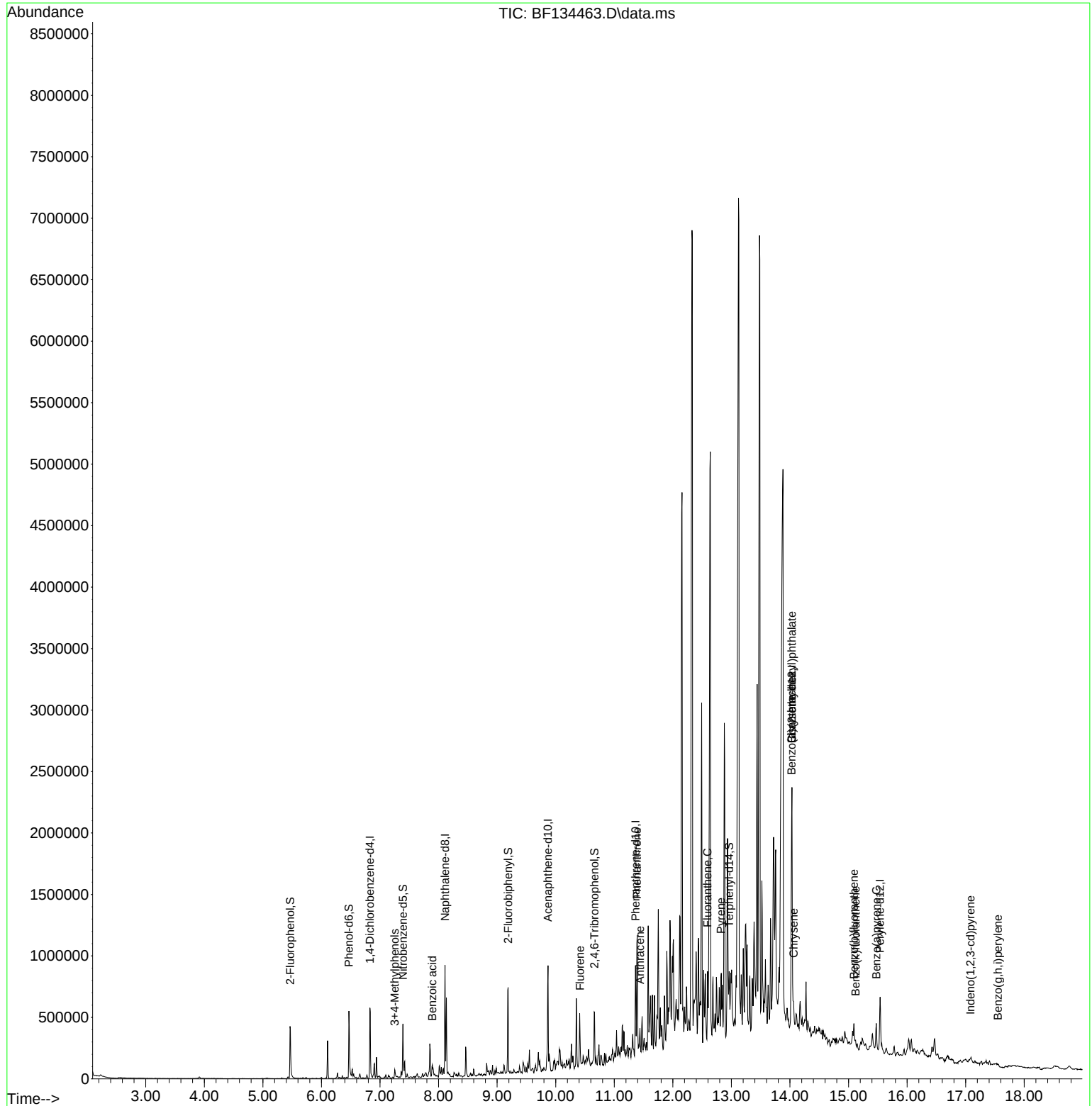
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072523\  
Data File : BF134463.D  
Acq On : 25 Jul 2023 15:20  
Operator : CG\JU  
Sample : 03633-02 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

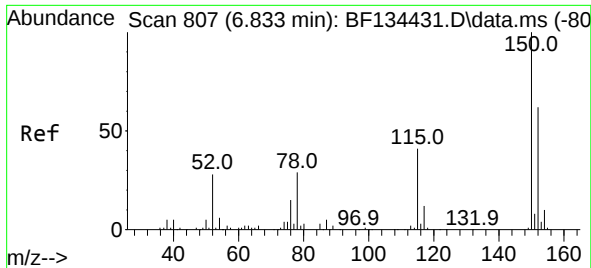
Instrument :  
BNA\_F  
ClientSampleId :  
SS-01-COMP

Quant Time: Jul 25 16:23:40 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF072423.M  
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Supervised By :mohammad ahmed 07/26/2023





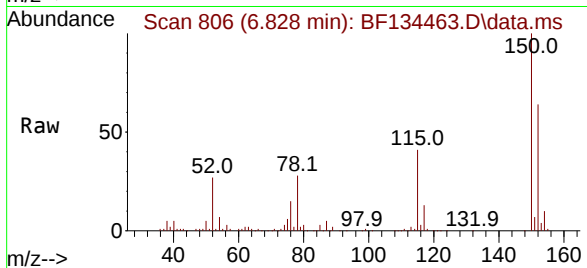
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.828 min Scan# 807  
Delta R.T. -0.005 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

SS-01-COMP

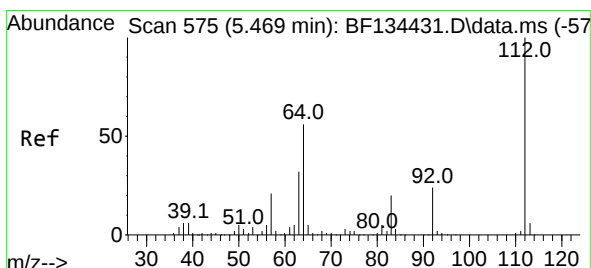
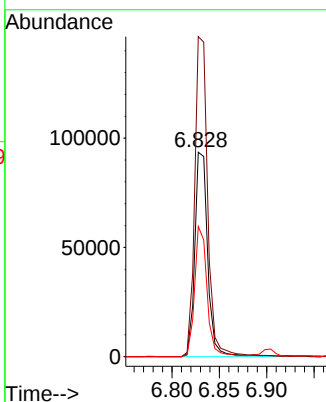
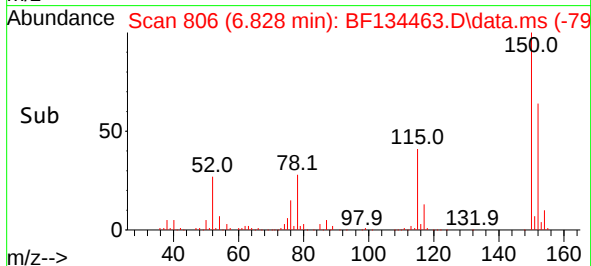


Tgt Ion:152 Resp: 89359  
Ion Ratio Lower Upper  
152 100  
150 156.5 128.3 192.5  
115 63.7 52.4 78.6

Manual Integrations

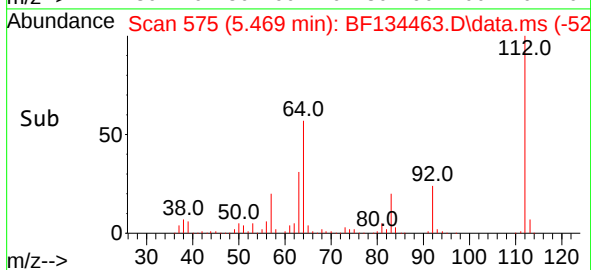
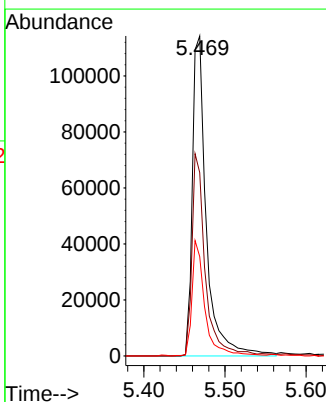
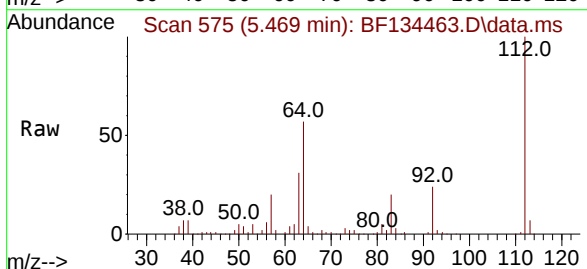
APPROVED

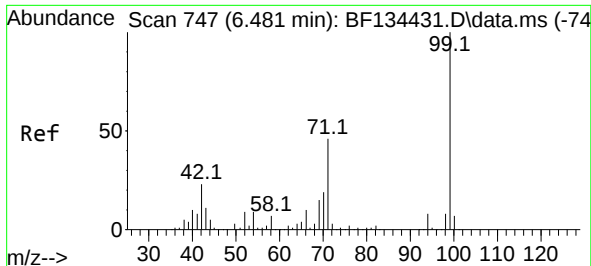
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023



#5  
2-Fluorophenol  
Concen: 25.449 ng  
RT: 5.469 min Scan# 575  
Delta R.T. 0.000 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

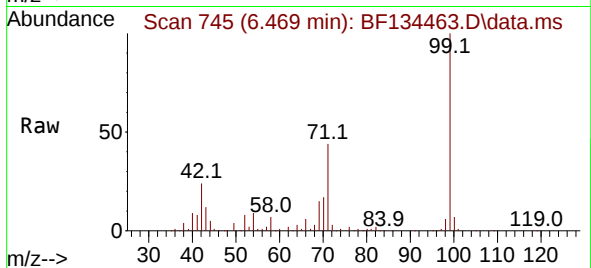
Tgt Ion:112 Resp: 137644  
Ion Ratio Lower Upper  
112 100  
64 57.3 44.9 67.3  
63 31.0 25.4 38.0





#7  
Phenol-d6  
Concen: 27.303 ng  
RT: 6.469 min Scan# 747  
Delta R.T. -0.012 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

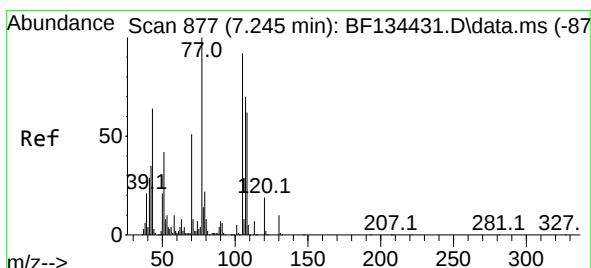
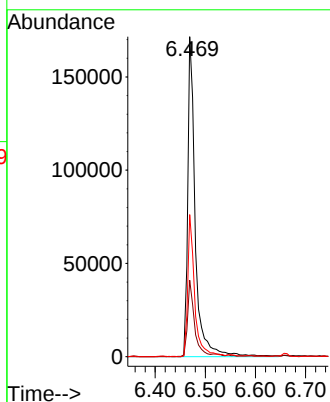
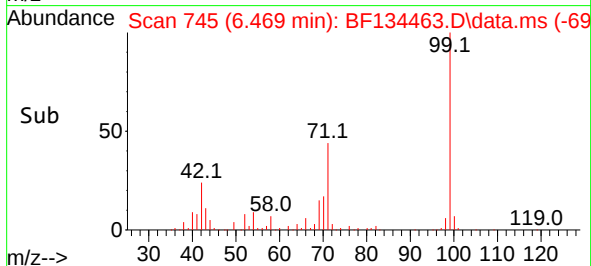
Instrument :  
BNA\_F  
ClientSampleId :  
SS-01-COMP



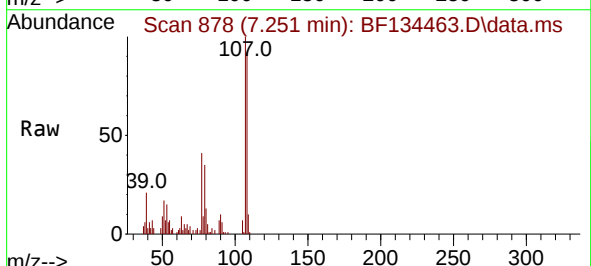
Tgt Ion: 99 Resp: 18092  
Ion Ratio Lower Upper  
99 100  
42 23.9 18.7 28.1  
71 44.4 36.4 54.6

Manual Integrations  
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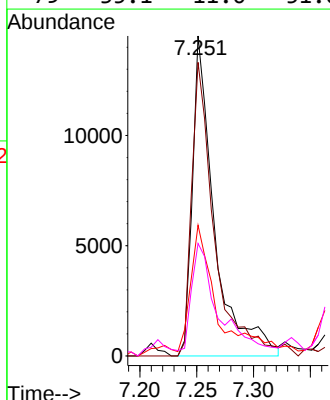
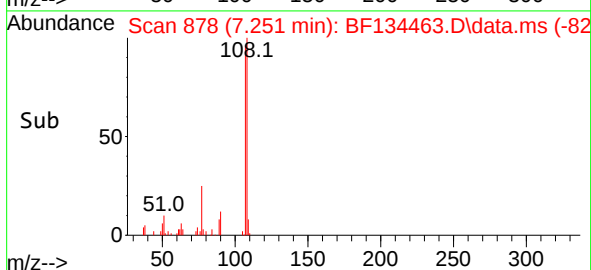
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023

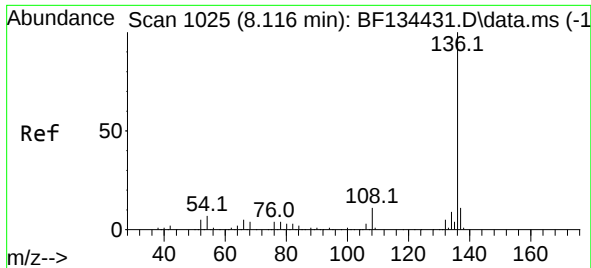


#20  
3+4-Methylphenols  
Concen: 3.149 ng  
RT: 7.251 min Scan# 878  
Delta R.T. 0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20



Tgt Ion:107 Resp: 19700  
Ion Ratio Lower Upper  
107 100  
108 91.7 68.1 108.1  
77 40.8 122.1 162.1#  
79 35.1 11.0 51.0





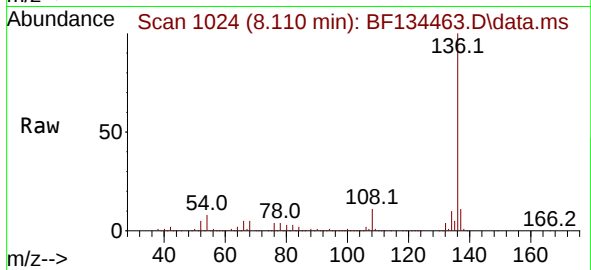
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.110 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

SS-01-COMP

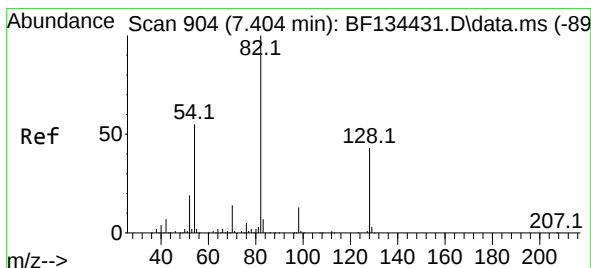
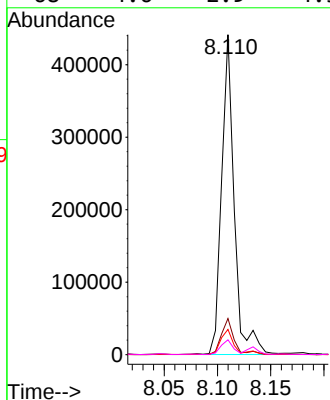
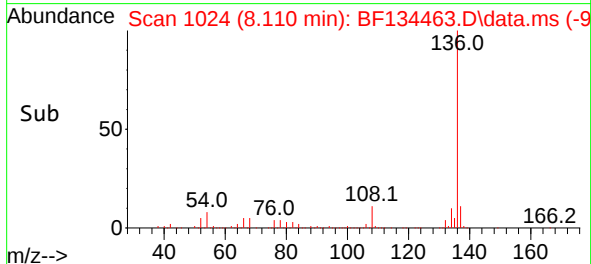


Tgt Ion:136 Resp: 361560  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.4 12.6  
54 7.9 5.2 7.8  
68 4.6 2.9 4.3

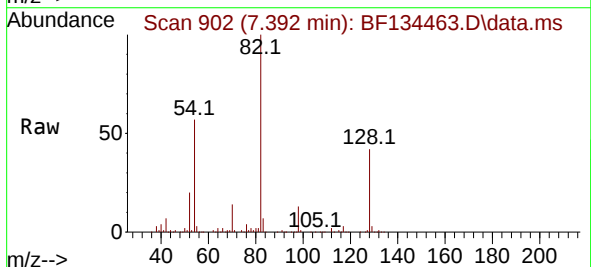
Manual Integrations

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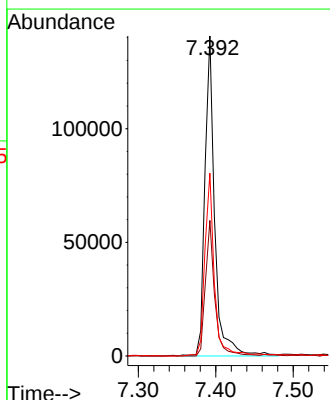
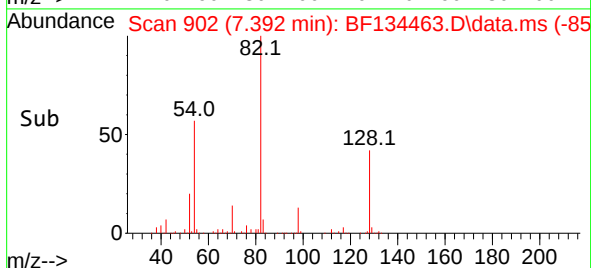
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023

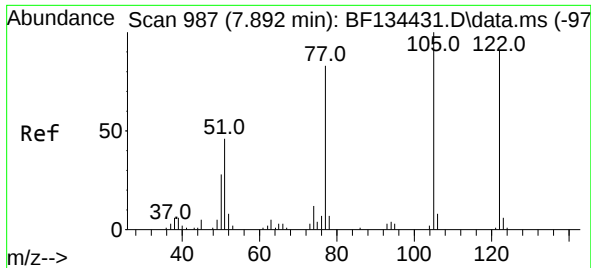


#23  
Nitrobenzene-d5  
Concen: 17.378 ng  
RT: 7.392 min Scan# 902  
Delta R.T. -0.012 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20



Tgt Ion: 82 Resp: 124186  
Ion Ratio Lower Upper  
82 100  
128 42.3 34.3 51.5  
54 57.1 43.8 65.6





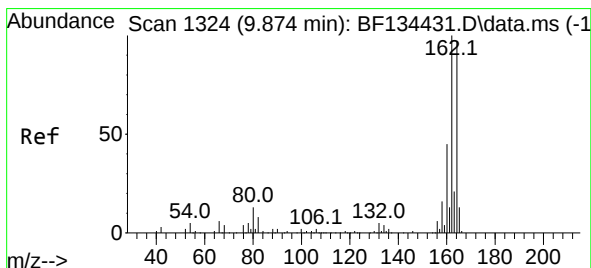
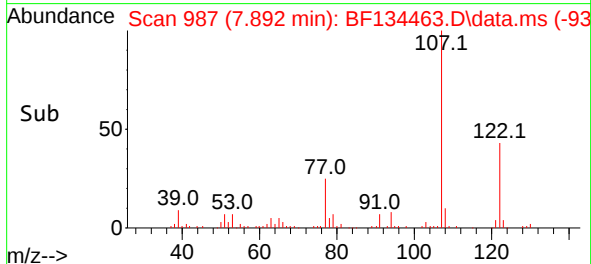
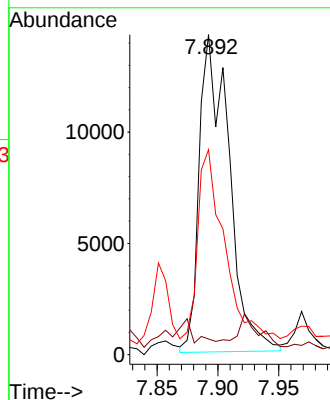
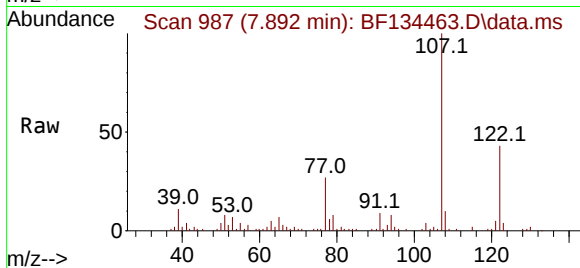
#32  
Benzoic acid  
Concen: 7.005 ng  
RT: 7.892 min Scan# 987  
Delta R.T. 0.000 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Instrument :  
BNA\_F  
ClientSampleId :  
SS-01-COMP

Tgt Ion:122 Resp: 24139  
Ion Ratio Lower Upper  
122 100  
105 4.9 87.5 127.5  
77 64.1 71.4 111.4

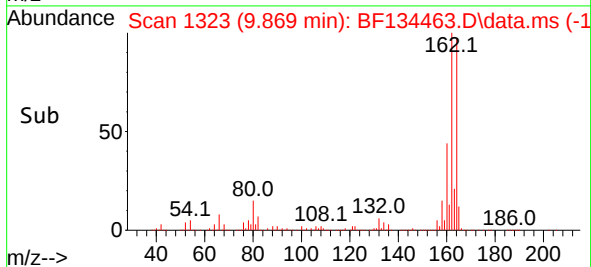
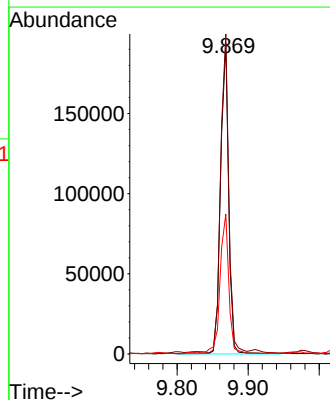
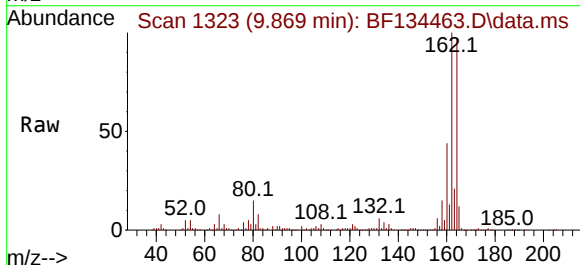
Manual Integrations  
APPROVED

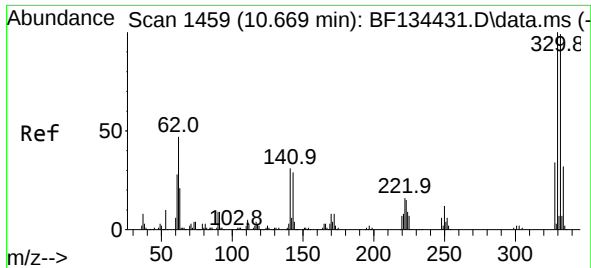
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.869 min Scan# 1323  
Delta R.T. -0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Tgt Ion:164 Resp: 152044  
Ion Ratio Lower Upper  
164 100  
162 102.9 82.6 123.8  
160 45.0 37.2 55.8





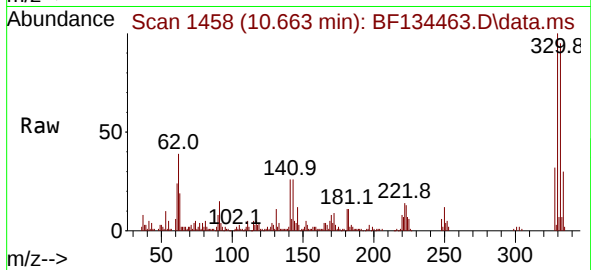
#42  
2,4,6-Tribromophenol  
Concen: 23.014 ng  
RT: 10.663 min Scan# 1459  
Delta R.T. -0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

SS-01-COMP



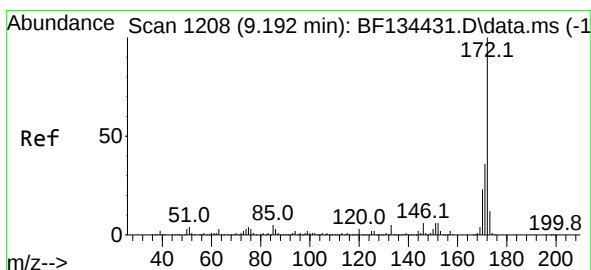
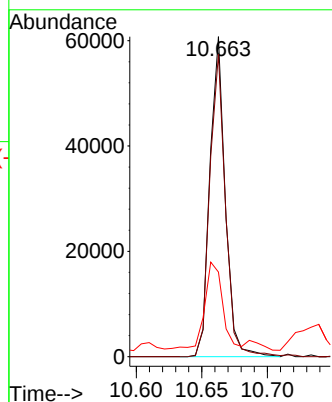
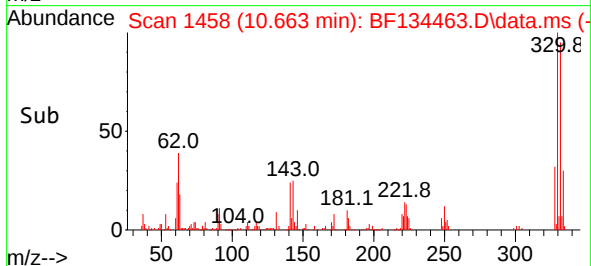
Tgt Ion:330 Resp: 4971  
Ion Ratio Lower Upper  
330 100  
332 97.1 78.8 118.2  
141 32.2 25.4 38.2

Manual Integrations

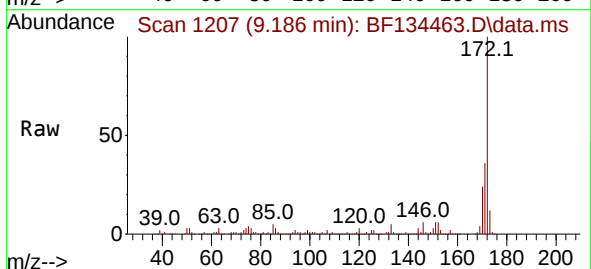
APPROVED

Reviewed By :Yogesh Patel 07/26/2023

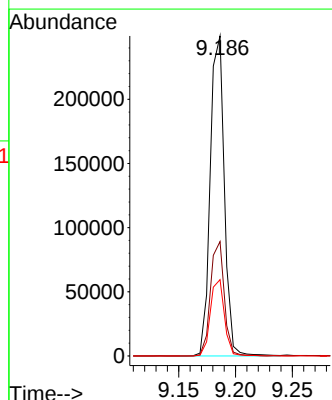
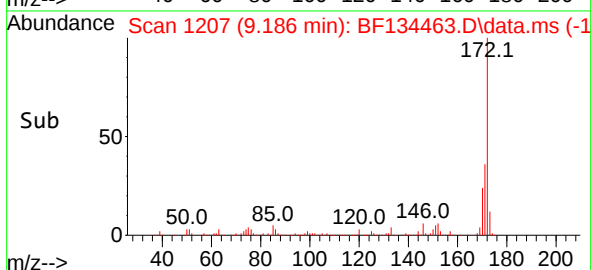
Supervised By :mohammad ahmed 07/26/2023

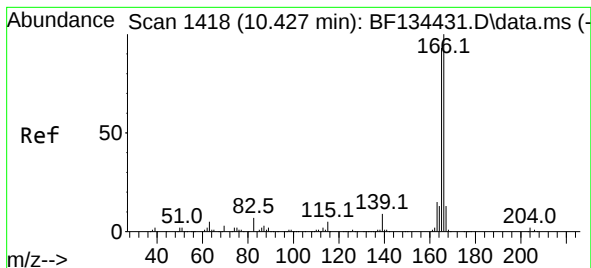


#45  
2-Fluorobiphenyl  
Concen: 18.605 ng  
RT: 9.186 min Scan# 1207  
Delta R.T. -0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20



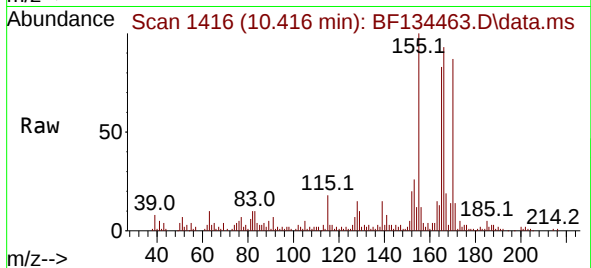
Tgt Ion:172 Resp: 215474  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.8 43.2  
170 23.9 18.7 28.1





#58  
Fluorene  
Concen: 3.032 ng  
RT: 10.416 min Scan# 1418  
Delta R.T. -0.011 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

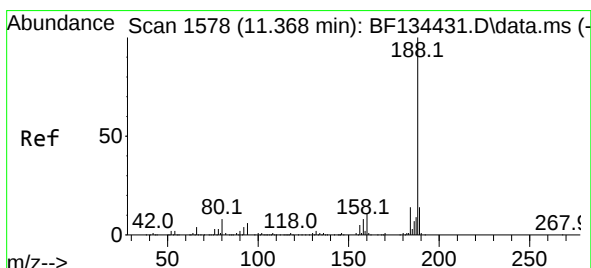
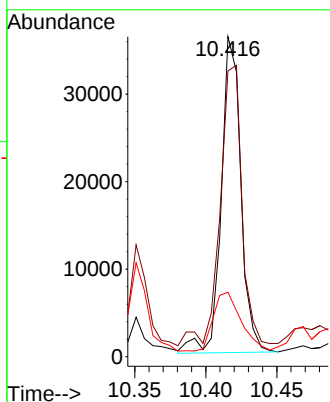
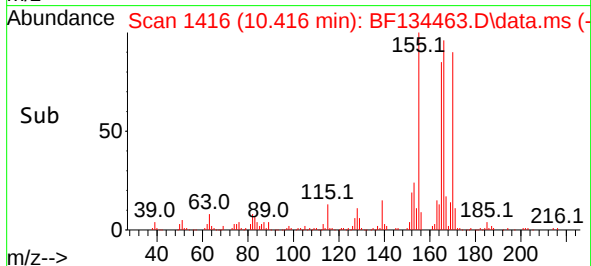
Instrument :  
BNA\_F  
ClientSampleId :  
SS-01-COMP



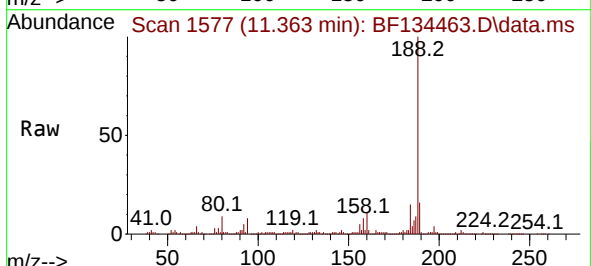
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Ion Ratio Lower Upper  
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167 20.1 10.6 16.0

Manual Integrations  
APPROVED

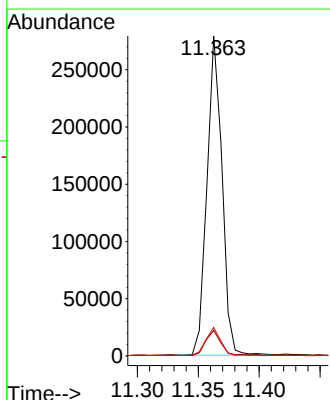
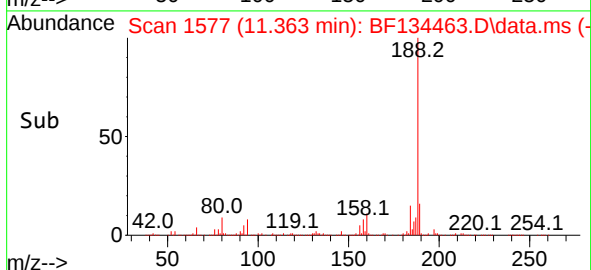
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023

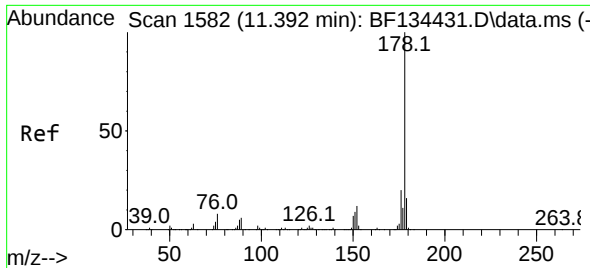


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.363 min Scan# 1577  
Delta R.T. -0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20



Tgt Ion:188 Resp: 238205  
Ion Ratio Lower Upper  
188 100  
94 8.0 5.1 7.7#  
80 8.9 6.6 9.8





#71  
Phenanthrene  
Concen: 24.176 ng  
RT: 11.386 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

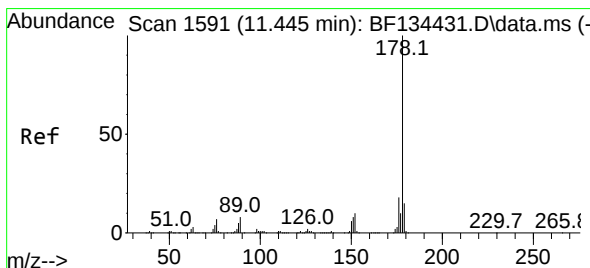
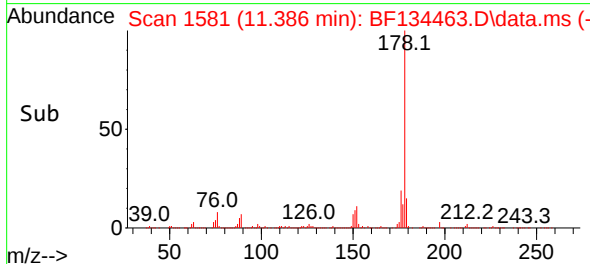
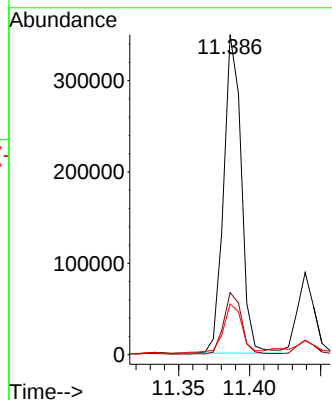
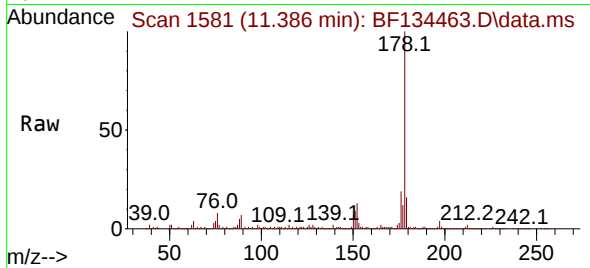
SS-01-COMP

Tgt Ion:178 Resp: 300890  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.8 23.6  
179 15.9 12.7 19.1

Manual Integrations

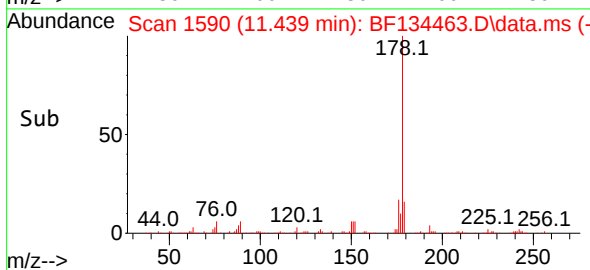
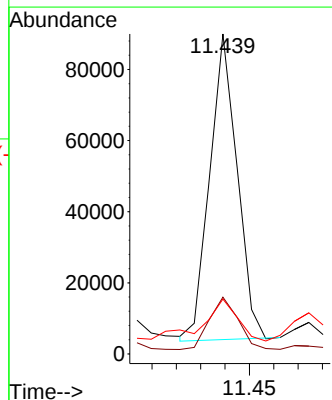
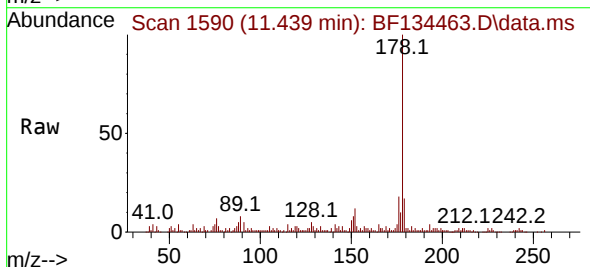
APPROVED

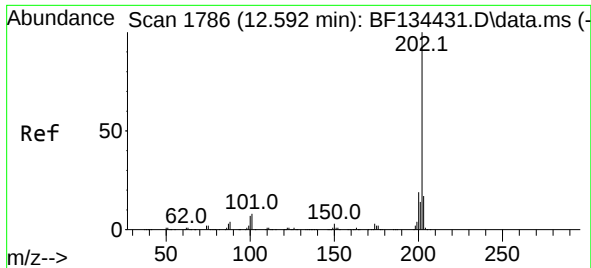
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023



#72  
Anthracene  
Concen: 5.238 ng  
RT: 11.439 min Scan# 1590  
Delta R.T. -0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

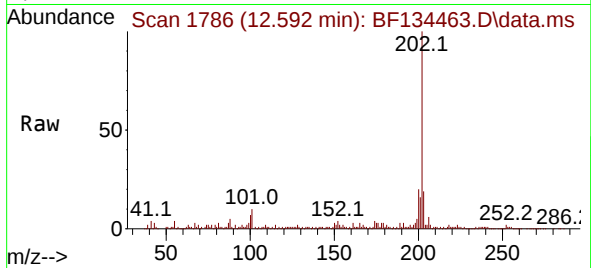
Tgt Ion:178 Resp: 67279  
Ion Ratio Lower Upper  
178 100  
176 17.8 14.6 21.8  
179 17.1 12.3 18.5





#75  
Fluoranthene  
Concen: 12.669 ng  
RT: 12.592 min Scan# 1786  
Delta R.T. 0.000 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

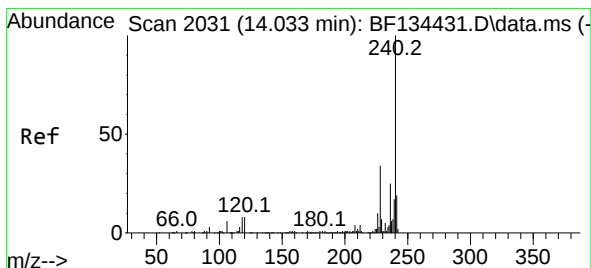
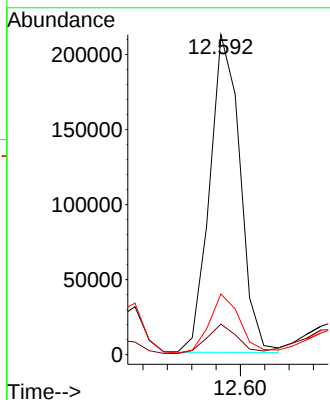
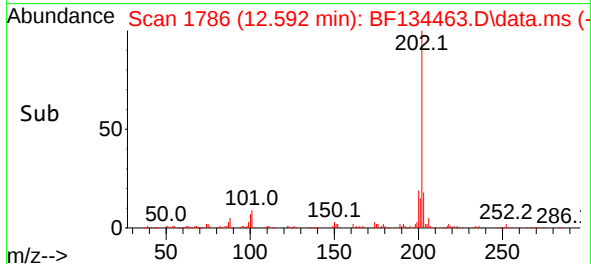
Instrument :  
BNA\_F  
ClientSampleId :  
SS-01-COMP



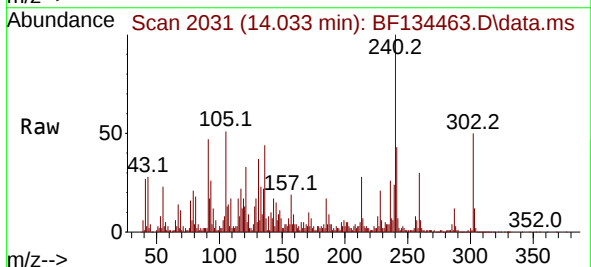
Tgt Ion:202 Resp: 183750  
Ion Ratio Lower Upper  
202 100  
101 9.6 0.0 28.5  
203 18.9 0.0 37.5

Manual Integrations  
APPROVED

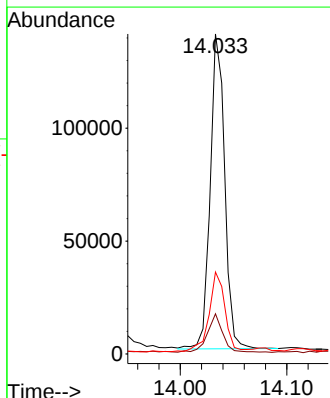
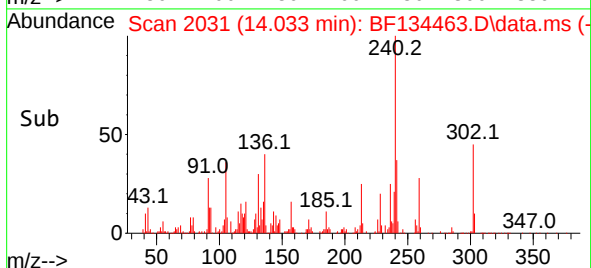
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023

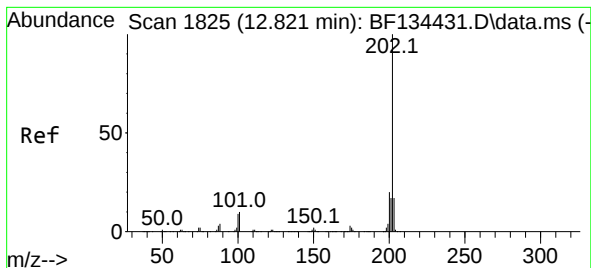


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.033 min Scan# 2031  
Delta R.T. 0.000 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20



Tgt Ion:240 Resp: 131706  
Ion Ratio Lower Upper  
240 100  
120 12.6 6.6 10.0#  
236 25.6 20.2 30.2





#78

Pyrene

Concen: 15.059 ng

RT: 12.821 min Scan# 1825

Delta R.T. 0.000 min

Lab File: BF134463.D

Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

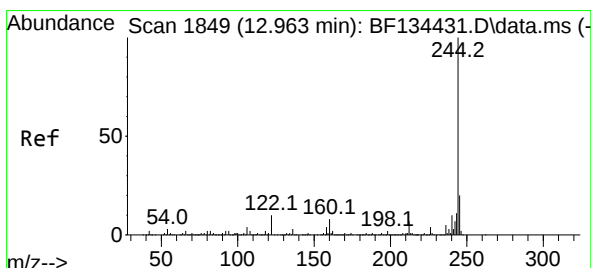
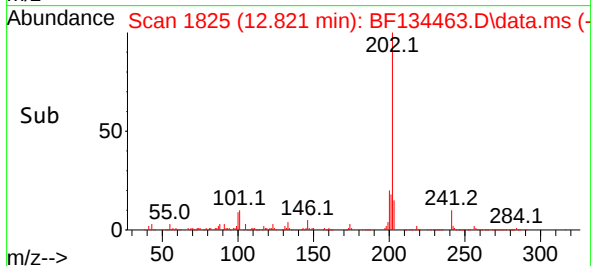
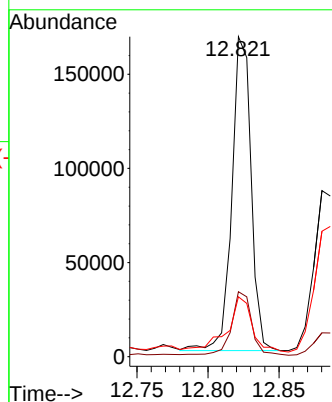
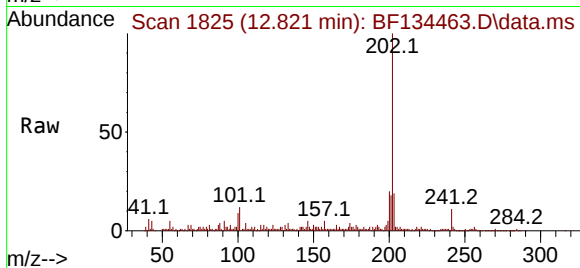
SS-01-COMP

Tgt Ion:202 Resp: 15770  
 Ion Ratio Lower Upper  
 202 100  
 200 20.3 15.8 23.8  
 203 18.7 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/26/2023  
 Supervised By :mohammad ahmed 07/26/2023



#79

Terphenyl-d14

Concen: 18.040 ng

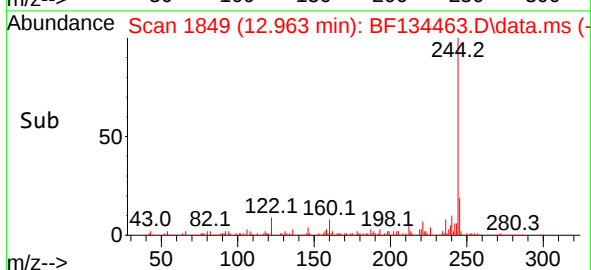
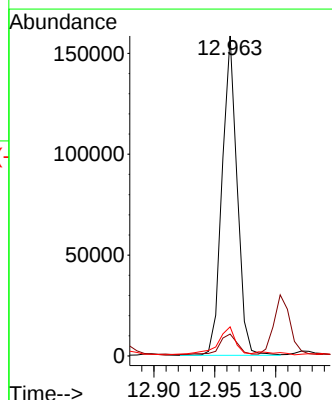
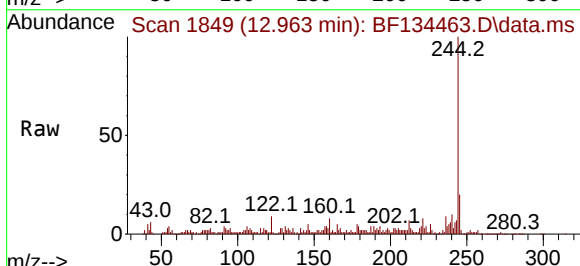
RT: 12.963 min Scan# 1849

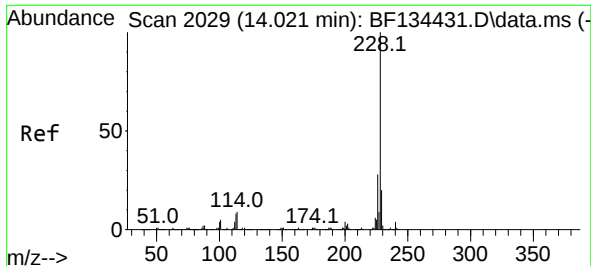
Delta R.T. 0.000 min

Lab File: BF134463.D

Acq: 25 Jul 2023 15:20

Tgt Ion:244 Resp: 136107  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.6 8.4  
 122 9.1 8.0 12.0





#81  
Benzo(a)anthracene  
Concen: 8.202 ng  
RT: 14.027 min Scan# 2029  
Delta R.T. 0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

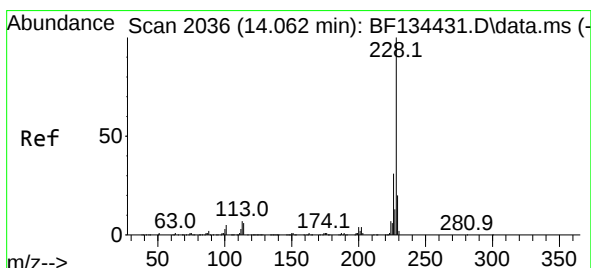
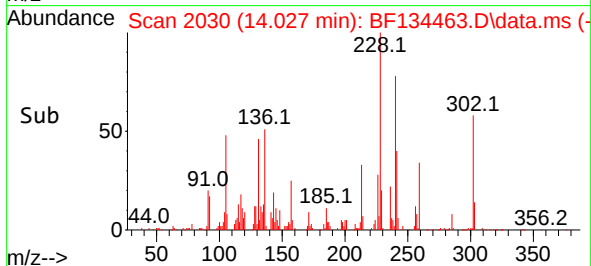
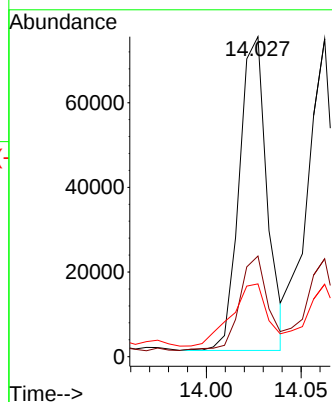
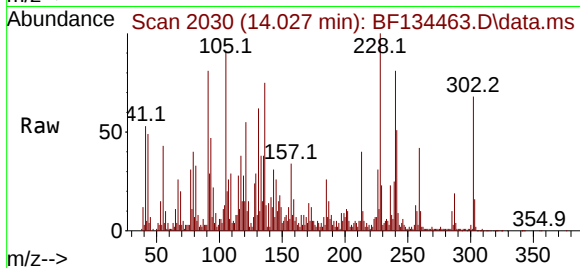
SS-01-COMP

Tgt Ion:228 Resp: 75368  
Ion Ratio Lower Upper  
228 100  
226 31.4 22.3 33.5  
229 22.8 15.8 23.6

Manual Integrations

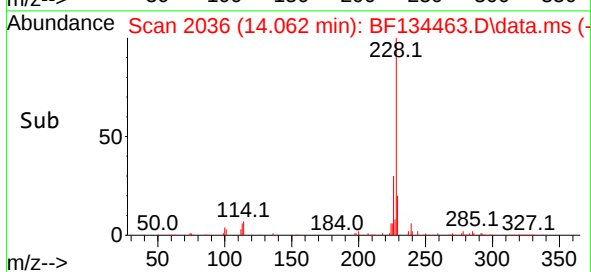
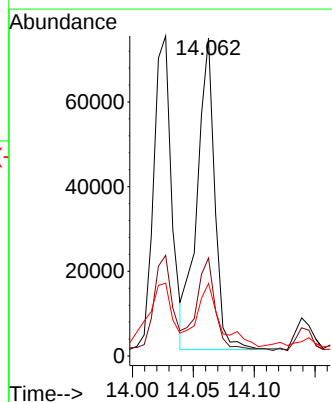
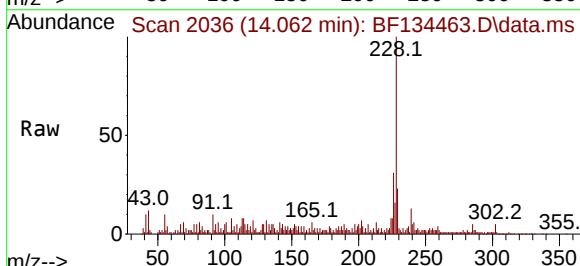
APPROVED

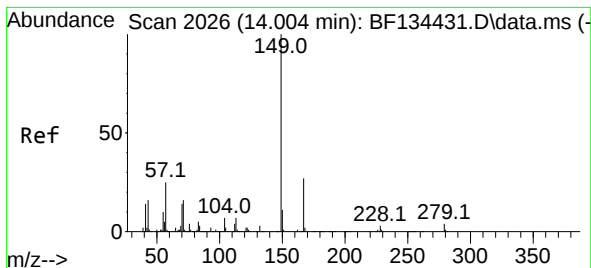
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023



#83  
Chrysene  
Concen: 8.498 ng  
RT: 14.062 min Scan# 2036  
Delta R.T. 0.000 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Tgt Ion:228 Resp: 74688  
Ion Ratio Lower Upper  
228 100  
226 30.8 24.5 36.7  
229 22.8 15.8 23.8





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.862 ng  
RT: 14.033 min Scan# 2026  
Delta R.T. 0.029 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

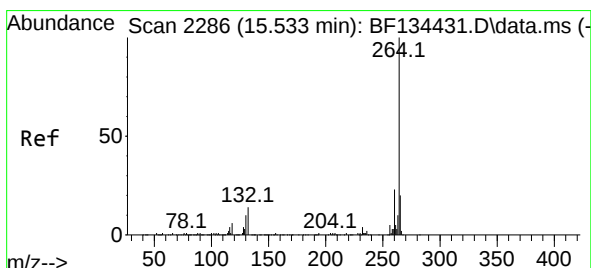
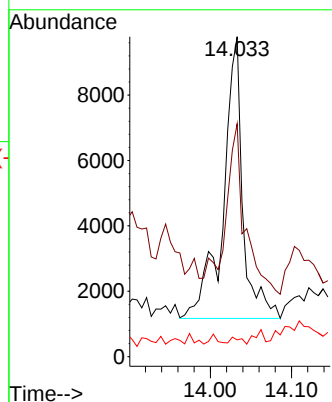
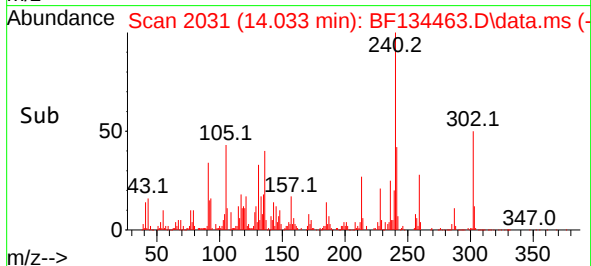
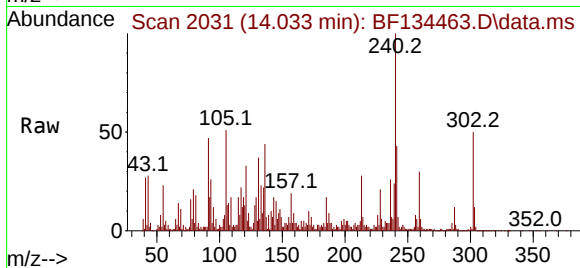
SS-01-COMP

Tgt Ion:149 Resp: 14584  
Ion Ratio Lower Upper  
149 100  
167 72.8 21.6 32.4  
279 5.2 3.5 5.3

Manual Integrations

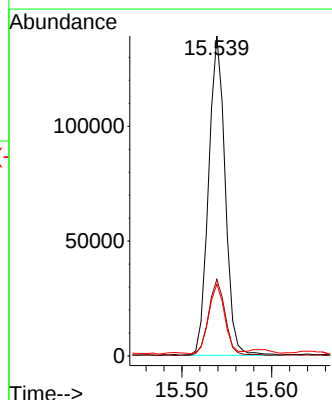
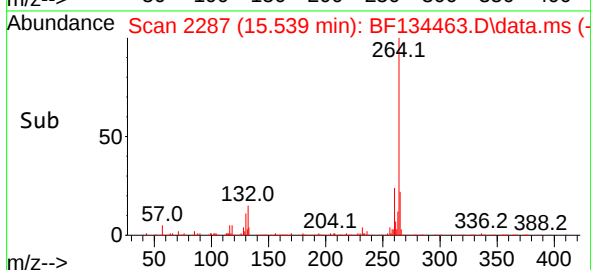
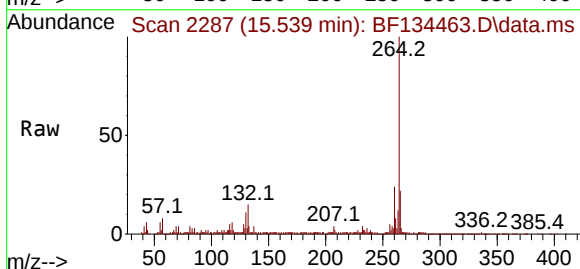
APPROVED

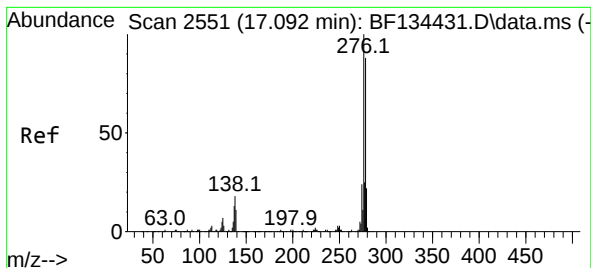
Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.539 min Scan# 2287  
Delta R.T. 0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Tgt Ion:264 Resp: 178123  
Ion Ratio Lower Upper  
264 100  
260 23.9 18.4 27.6  
265 22.5 15.8 23.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.893 ng

RT: 17.080 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF134463.D

Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

SS-01-COMP

Tgt Ion: 276 Resp: 33660

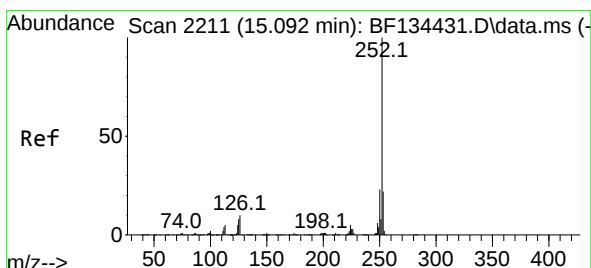
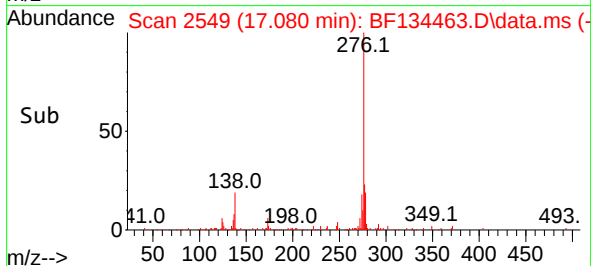
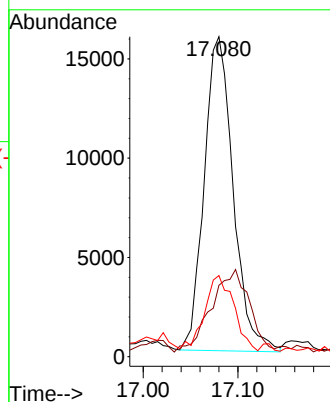
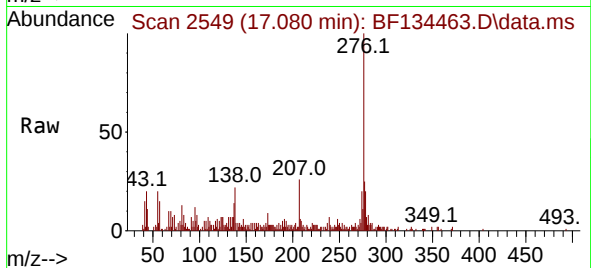
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 34.4  | 14.2  | 21.4  |
| 277 | 24.1  | 19.9  | 29.9  |

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 07/26/2023

Supervised By : mohammad ahmed 07/26/2023



#88

Benzo(b)fluoranthene

Concen: 9.160 ng m

RT: 15.092 min Scan# 2211

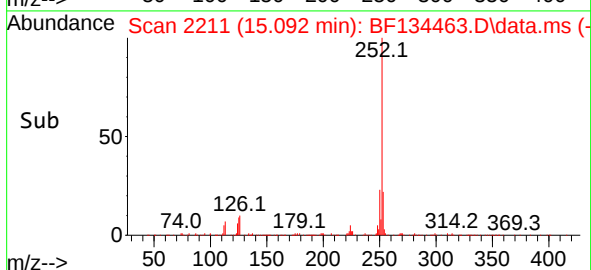
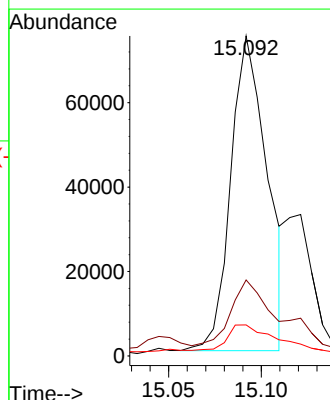
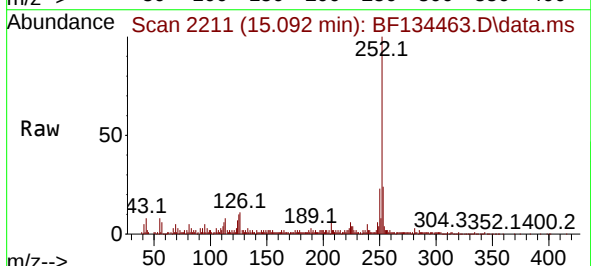
Delta R.T. 0.000 min

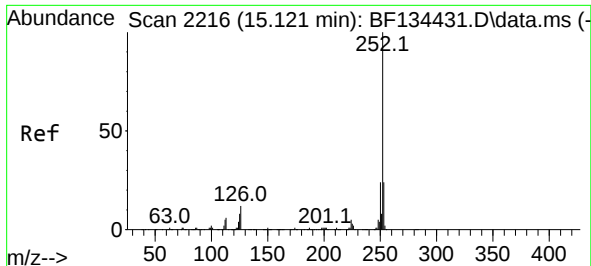
Lab File: BF134463.D

Acq: 25 Jul 2023 15:20

Tgt Ion: 252 Resp: 102075

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.7  | 17.3  | 25.9  |
| 125 | 9.7   | 6.0   | 9.0   |





#89

Benzo(k)fluoranthene

Concen: 2.922 ng m

RT: 15.121 min Scan# 2216

Delta R.T. 0.000 min

Lab File: BF134463.D

Acq: 25 Jul 2023 15:20

Instrument :

BNA\_F

ClientSampleId :

SS-01-COMP

Tgt Ion:252 Resp: 3202

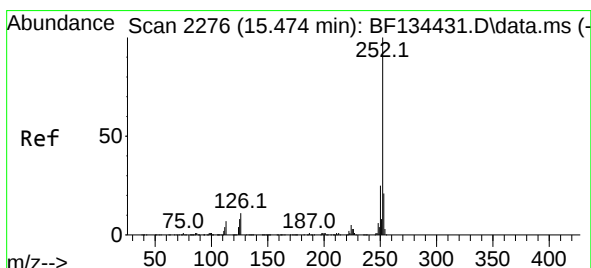
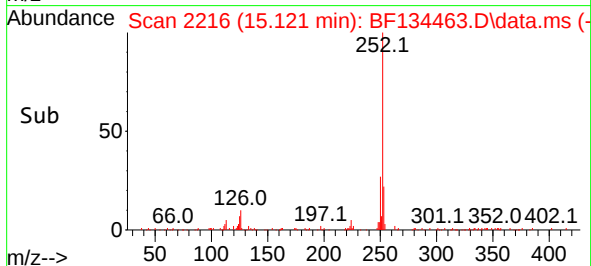
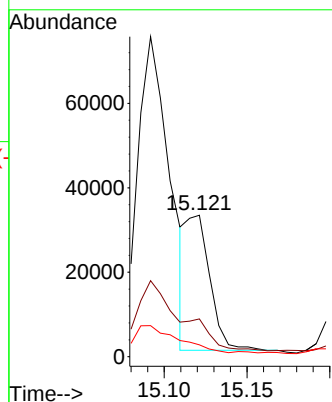
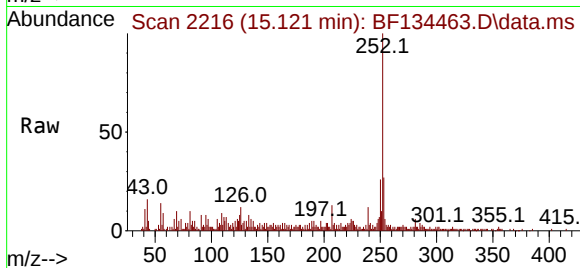
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 26.7  | 17.9  | 26.9  |
| 125 | 8.4   | 6.3   | 9.5   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/26/2023

Supervised By :mohammad ahmed 07/26/2023



#90

Benzo(a)pyrene

Concen: 7.673 ng

RT: 15.474 min Scan# 2276

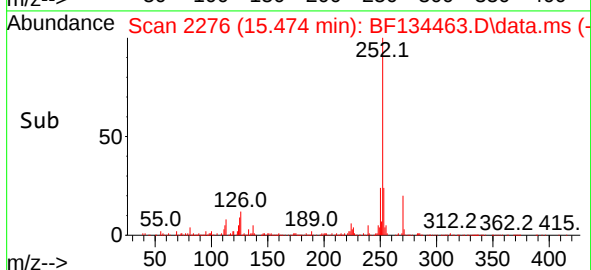
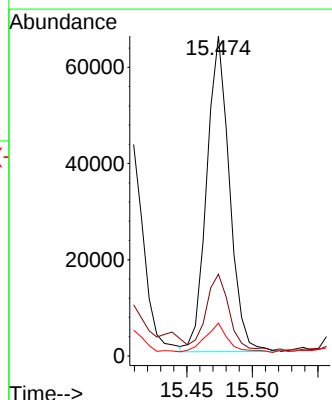
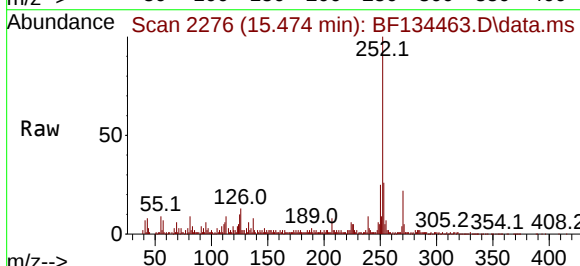
Delta R.T. 0.000 min

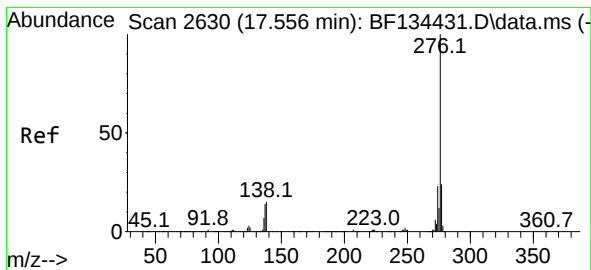
Lab File: BF134463.D

Acq: 25 Jul 2023 15:20

Tgt Ion:252 Resp: 79031

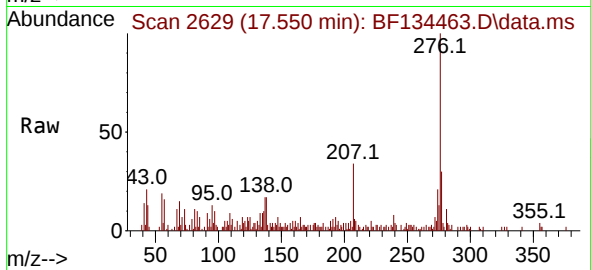
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.5  | 17.0  | 25.4# |
| 125 | 10.2  | 6.2   | 9.4#  |





#92  
Benzo(g,h,i)perylene  
Concen: 2.790 ng  
RT: 17.550 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF134463.D  
Acq: 25 Jul 2023 15:20

Instrument :  
BNA\_F  
ClientSampleId :  
SS-01-COMP



Tgt Ion:276 Resp: 26918  
Ion Ratio Lower Upper  
276 100  
277 30.1 19.0 28.6  
138 16.5 12.2 18.2

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/26/2023  
Supervised By :mohammad ahmed 07/26/2023

