

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF063023\  
 Data File : BF134071.D  
 Acq On : 01 Jul 2023 02:02  
 Operator : CG\JU  
 Sample : 03362-14 4X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSIT-SB-19-20

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
 Supervised By :mohammad ahmed 07/07/2023

Quant Time: Jul 01 04:36:51 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 30 18:35:29 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.845  | 152  | 93818    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.122  | 136  | 336480   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.880  | 164  | 139911   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.374 | 188  | 224660   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 14.039 | 240  | 183611   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 15.545 | 264  | 134451   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.475  | 112  | 146116   | 26.052 | ng    | -0.01    |
| 7) Phenol-d6                | 6.475  | 99   | 171932   | 24.927 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.404  | 82   | 109979   | 17.619 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.674 | 330  | 33762    | 19.246 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.198  | 172  | 217172   | 22.568 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.968 | 244  | 187905   | 16.471 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 9.745  | 152  | 53539    | 3.817  | ng    | 99       |
| 71) Phenanthrene            | 11.398 | 178  | 106890   | 9.451  | ng    | 98       |
| 72) Anthracene              | 11.451 | 178  | 69916    | 5.943  | ng    | 99       |
| 75) Fluoranthene            | 12.598 | 202  | 514959   | 42.117 | ng    | 99       |
| 78) Pyrene                  | 12.833 | 202  | 448081   | 26.223 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.027 | 228  | 284054   | 22.307 | ng    | 98       |
| 83) Chrysene                | 14.063 | 228  | 254352   | 20.623 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.086 | 276  | 71769    | 7.693  | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 15.104 | 252  | 229892m  | 29.079 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.127 | 252  | 93609m   | 11.629 | ng    |          |
| 90) Benzo(a)pyrene          | 15.480 | 252  | 127693   | 16.703 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 17.098 | 278  | 19637    | 2.577  | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 17.556 | 276  | 60147    | 7.654  | ng    | 95       |
| -----                       |        |      |          |        |       |          |

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

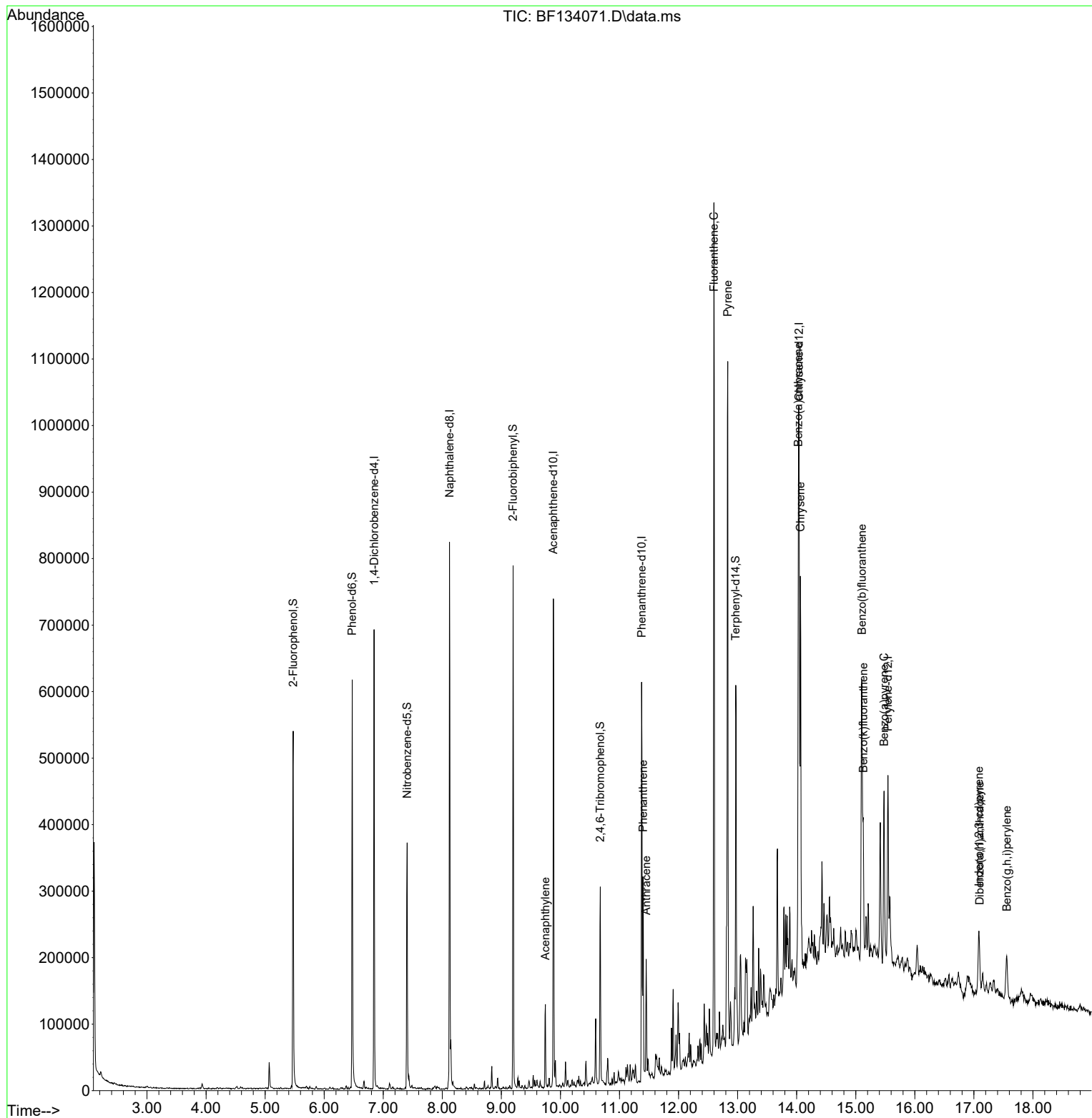
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF063023\  
Data File : BF134071.D  
Acq On : 01 Jul 2023 02:02  
Operator : CG\JU  
Sample : 03362-14 4X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

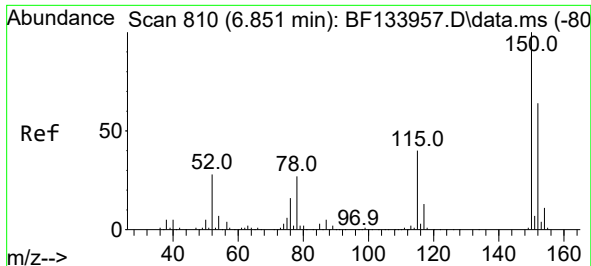
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20

Quant Time: Jul 01 04:36:51 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 30 18:35:29 2023  
Response via : Initial Calibration

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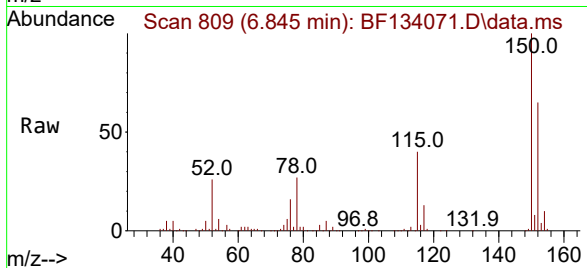
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.845 min Scan# 809  
Delta R.T. -0.006 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

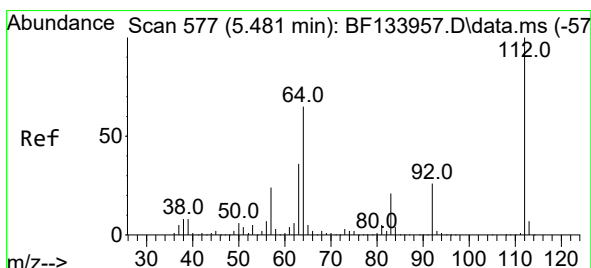
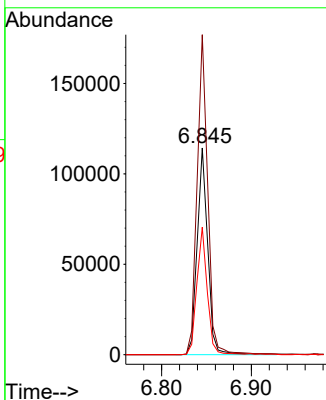
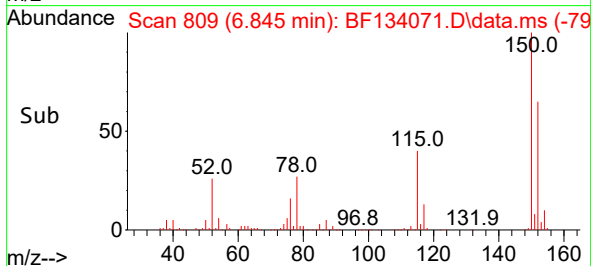
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



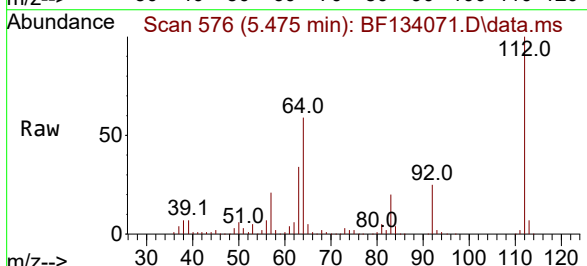
Tgt Ion:152 Resp: 93818  
Ion Ratio Lower Upper  
152 100  
150 154.8 124.5 186.7  
115 61.7 50.2 75.2

Manual Integrations  
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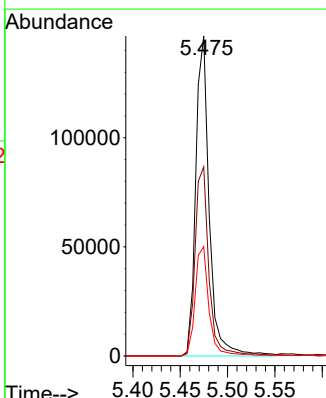
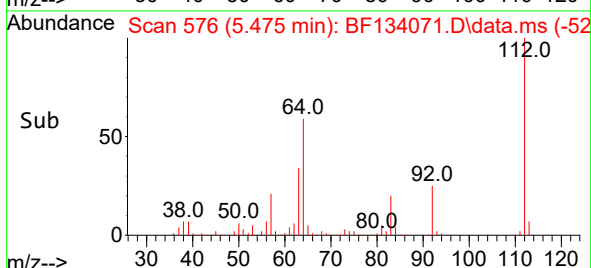
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023

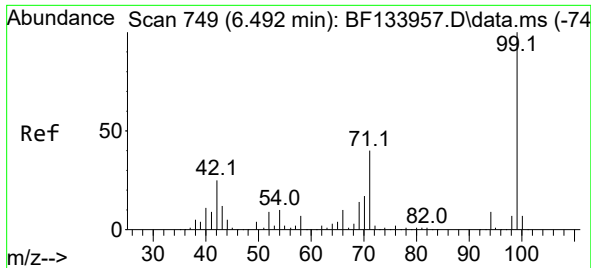


#5  
2-Fluorophenol  
Concen: 26.052 ng  
RT: 5.475 min Scan# 576  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02



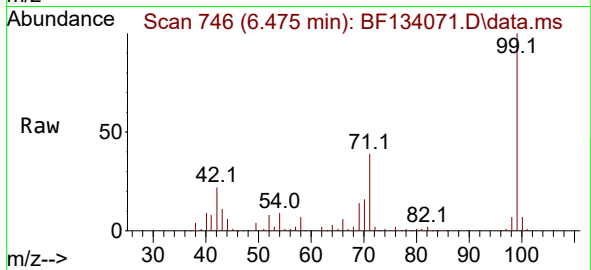
Tgt Ion:112 Resp: 146116  
Ion Ratio Lower Upper  
112 100  
64 59.1 52.1 78.1  
63 34.2 28.6 42.8





#7  
Phenol-d6  
Concen: 24.927 ng  
RT: 6.475 min Scan# 749  
Delta R.T. -0.018 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

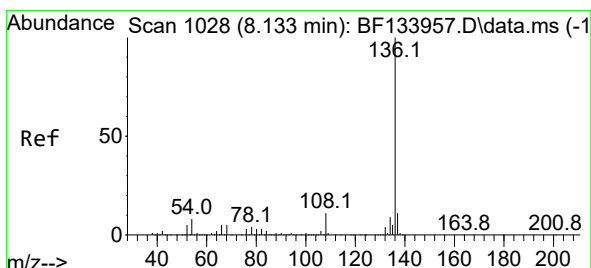
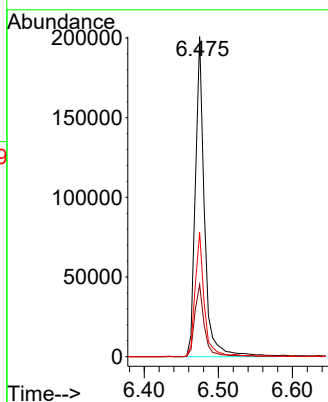
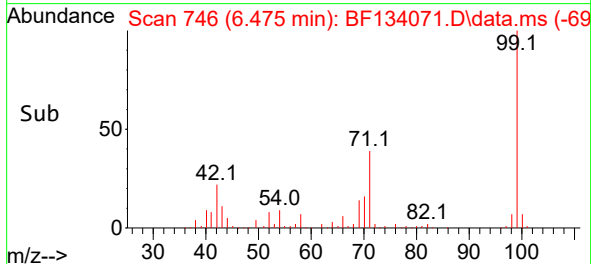
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



Tgt Ion: 99 Resp: 171932  
Ion Ratio Lower Upper  
99 100  
42 22.5 19.8 29.6  
71 38.9 31.9 47.9

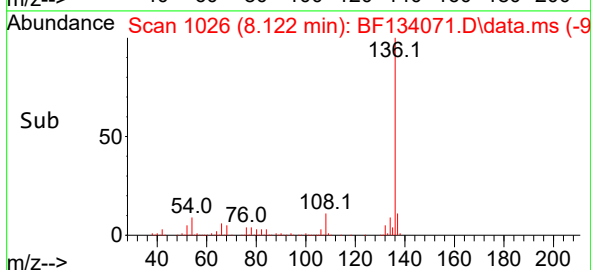
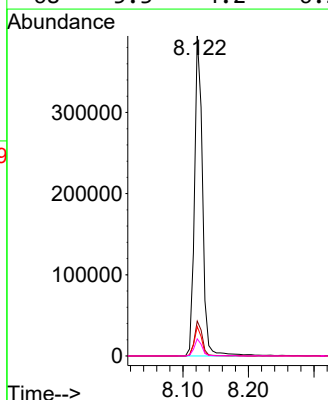
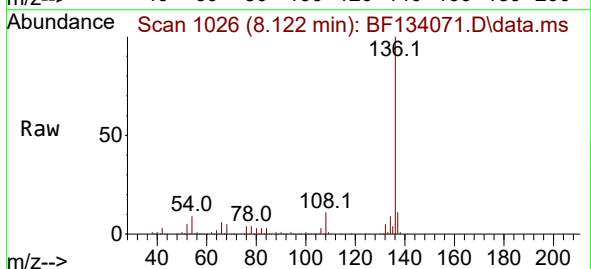
Manual Integrations  
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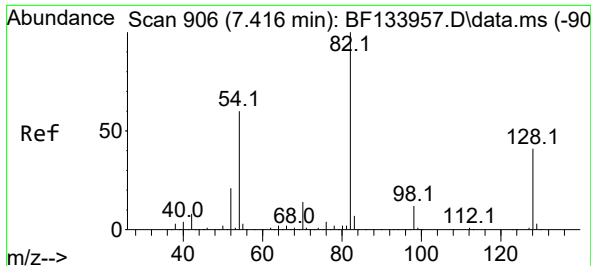
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.122 min Scan# 1026  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

Tgt Ion:136 Resp: 336480  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 12.8  
54 9.2 6.5 9.7  
68 5.3 4.2 6.2





#23

Nitrobenzene-d5

Concen: 17.619 ng

RT: 7.404 min Scan# 906

Delta R.T. -0.018 min

Lab File: BF134071.D

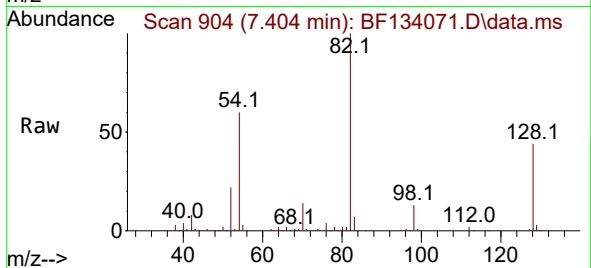
Acq: 01 Jul 2023 02:02

Instrument :

BNA\_F

ClientSampleId :

COMPOSIT-SB-19-20



Tgt Ion: 82 Resp: 109979

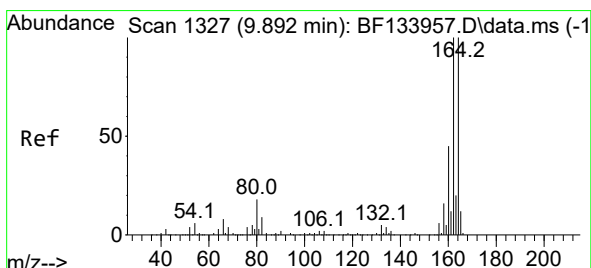
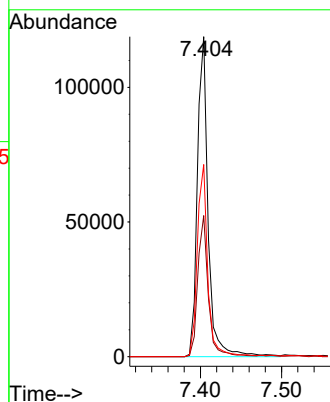
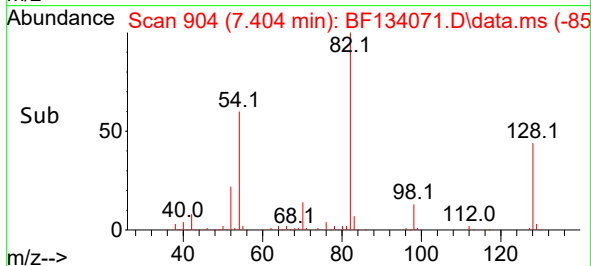
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 44.1  | 32.5  | 48.7  |
| 54  | 60.1  | 48.2  | 72.2  |

Manual Integrations

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Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/07/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.880 min Scan# 1325

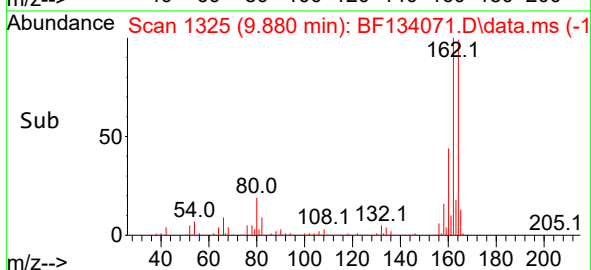
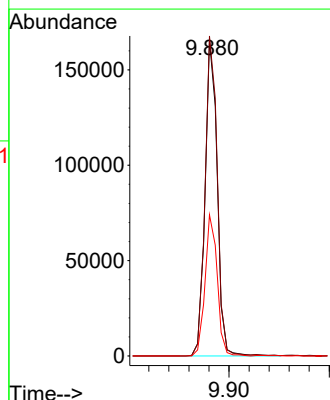
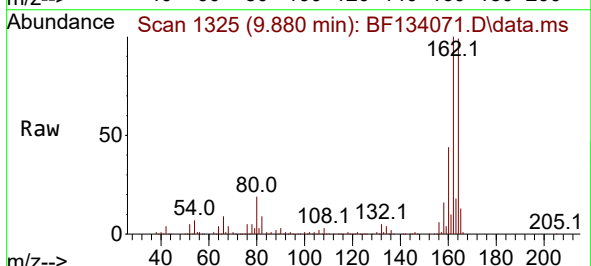
Delta R.T. -0.012 min

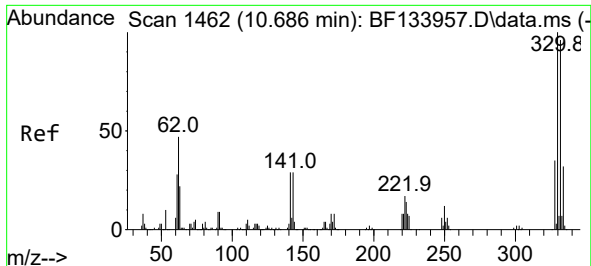
Lab File: BF134071.D

Acq: 01 Jul 2023 02:02

Tgt Ion:164 Resp: 139911

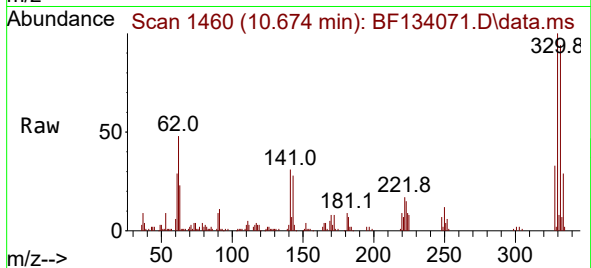
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.4 | 80.0  | 120.0 |
| 160 | 44.7  | 35.9  | 53.9  |





#42  
2,4,6-Tribromophenol  
Concen: 19.246 ng  
RT: 10.674 min Scan# 1460  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

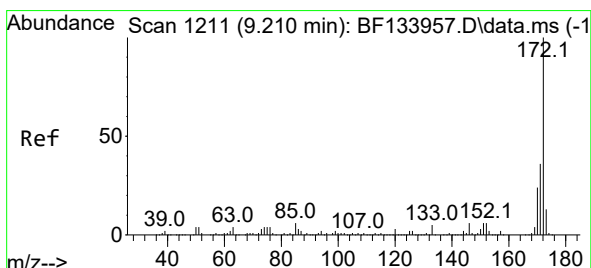
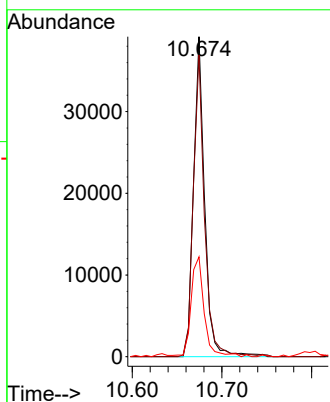
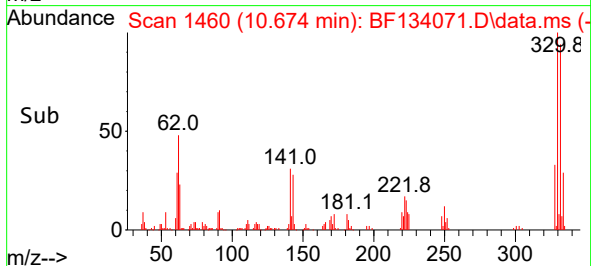
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



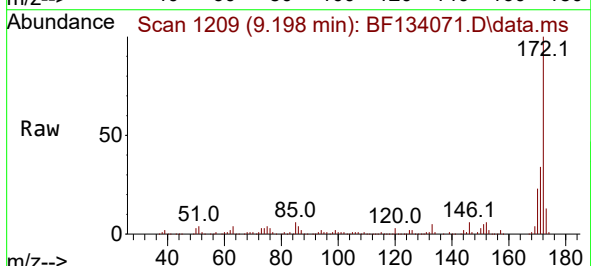
Tgt Ion: 330 Resp: 33762  
Ion Ratio Lower Upper  
330 100  
332 95.5 77.0 115.6  
141 36.7 26.3 39.5

Manual Integrations  
APPROVED

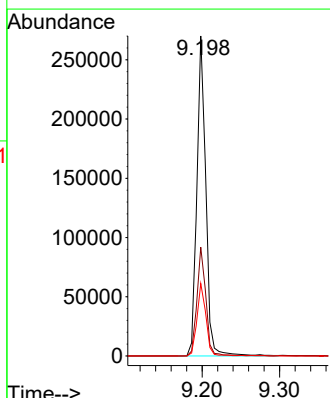
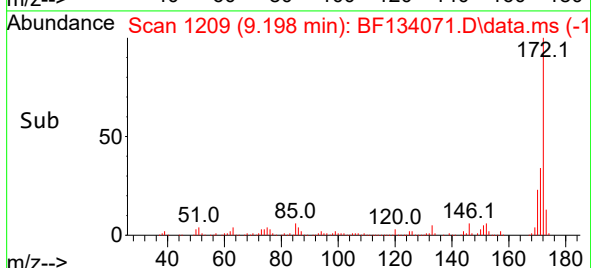
Reviewed By : Yogesh Patel 07/03/2023  
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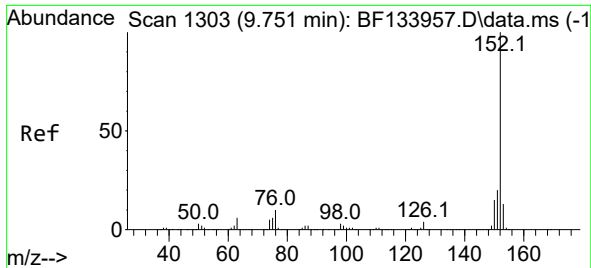


#45  
2-Fluorobiphenyl  
Concen: 22.568 ng  
RT: 9.198 min Scan# 1209  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02



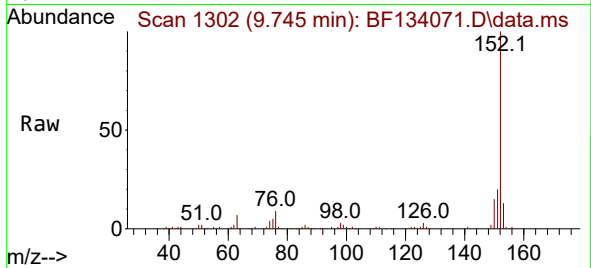
Tgt Ion: 172 Resp: 217172  
Ion Ratio Lower Upper  
172 100  
171 34.0 28.6 43.0  
170 22.7 19.4 29.0





#49  
Acenaphthylene  
Concen: 3.817 ng  
RT: 9.745 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

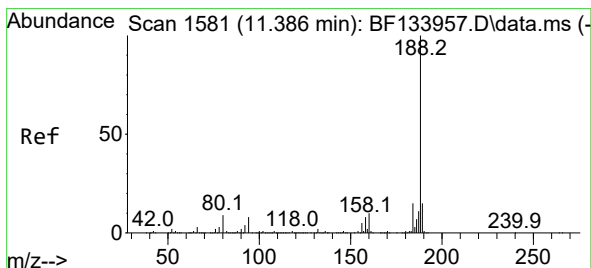
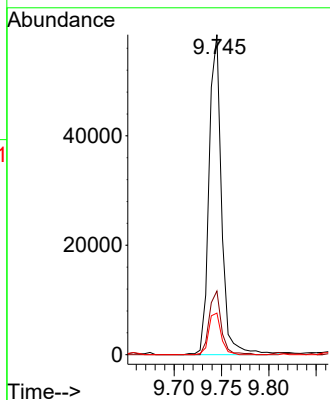
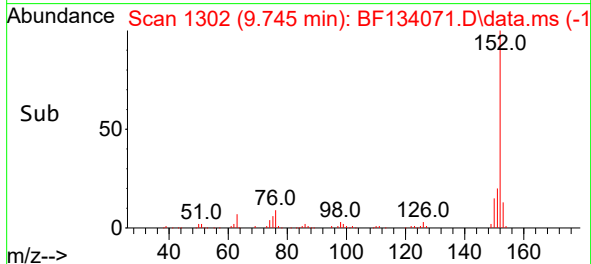
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



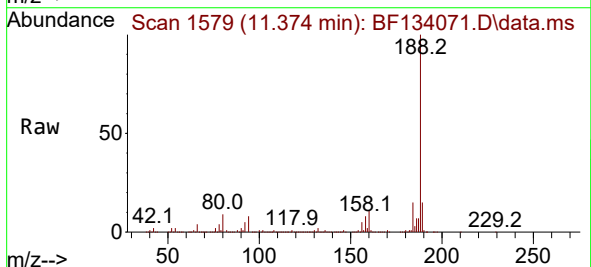
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Ion Ratio Lower Upper  
152 100  
151 19.9 16.2 24.2  
153 13.0 10.8 16.2

Manual Integrations  
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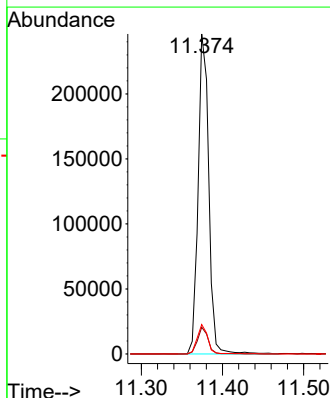
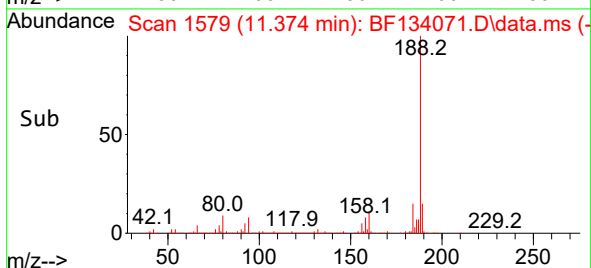
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023

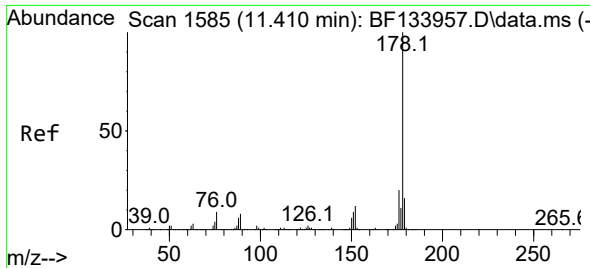


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.374 min Scan# 1579  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02



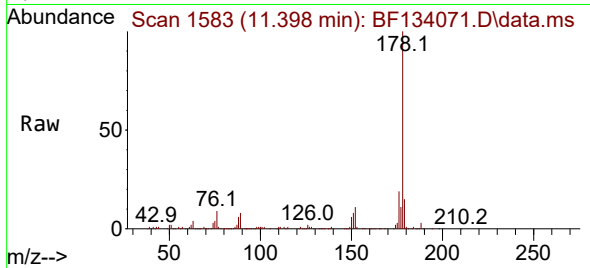
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Ion Ratio Lower Upper  
188 100  
94 8.3 6.4 9.6  
80 9.2 7.3 10.9





#71  
Phenanthrene  
Concen: 9.451 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

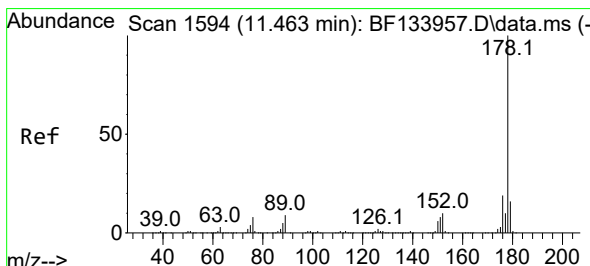
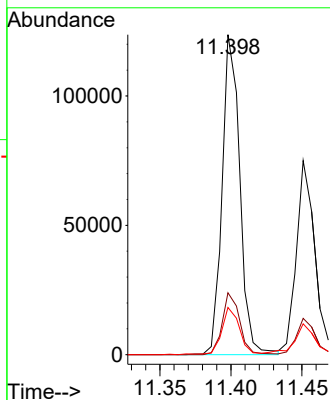
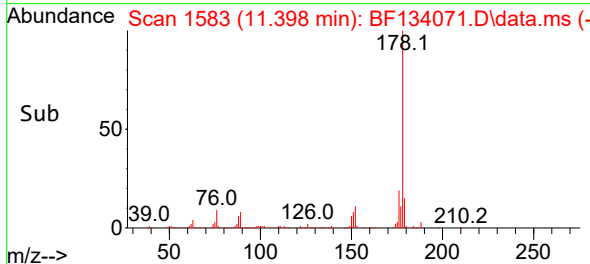
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



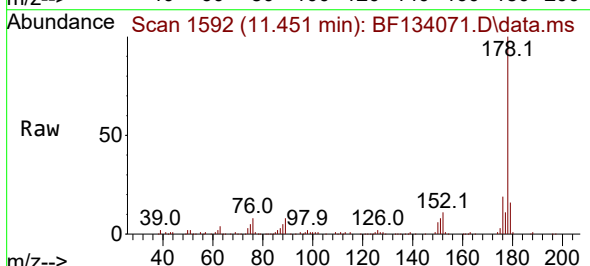
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Ion Ratio Lower Upper  
178 100  
176 19.4 16.0 24.0  
179 14.8 12.4 18.6

Manual Integrations  
APPROVED

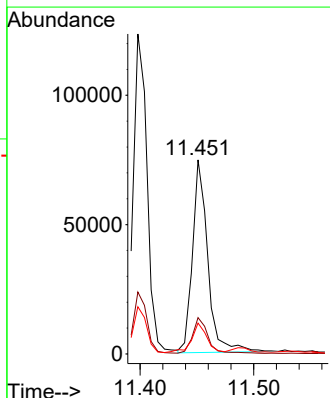
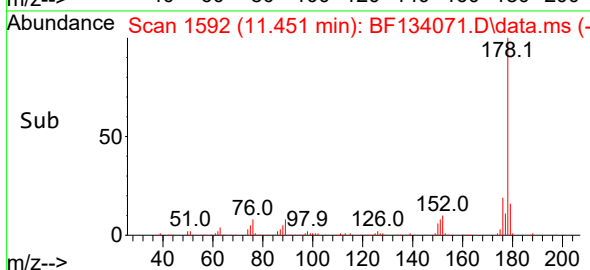
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023



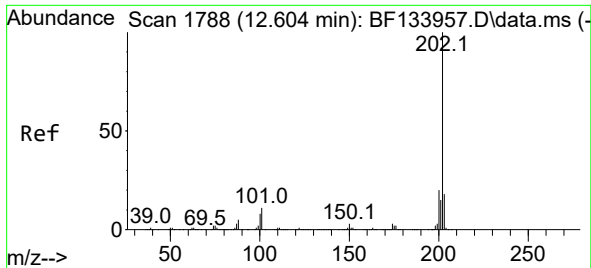
#72  
Anthracene  
Concen: 5.943 ng  
RT: 11.451 min Scan# 1592  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02



Tgt Ion:178 Resp: 69916  
Ion Ratio Lower Upper  
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176 18.7 15.3 22.9  
179 15.9 12.4 18.6

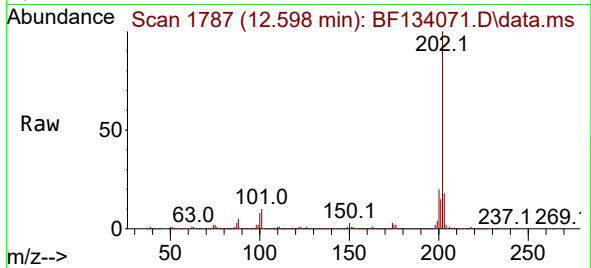






#75  
Fluoranthene  
Concen: 42.117 ng  
RT: 12.598 min Scan# 1787  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

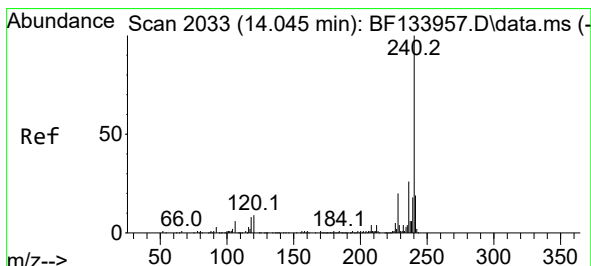
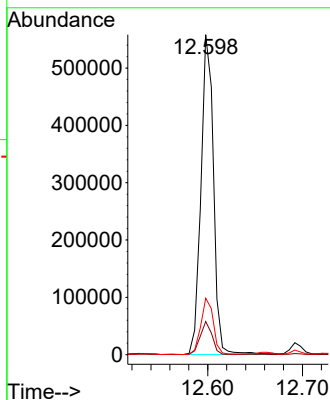
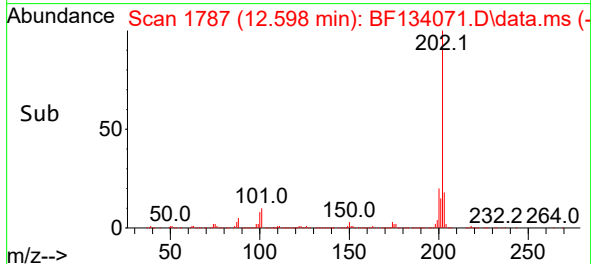
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



Tgt Ion:202 Resp: 514959  
Ion Ratio Lower Upper  
202 100  
101 10.4 0.0 31.0  
203 17.7 0.0 37.6

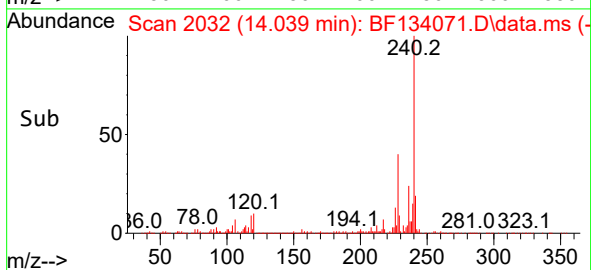
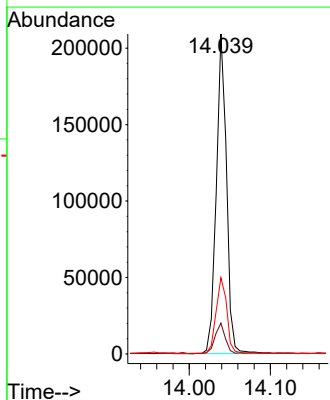
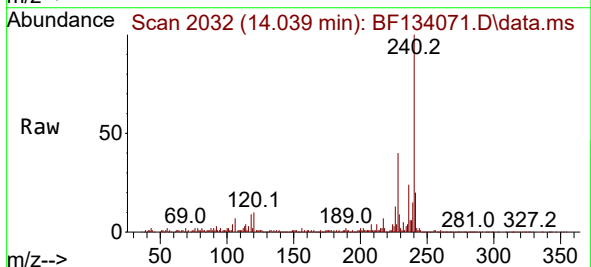
Manual Integrations  
APPROVED

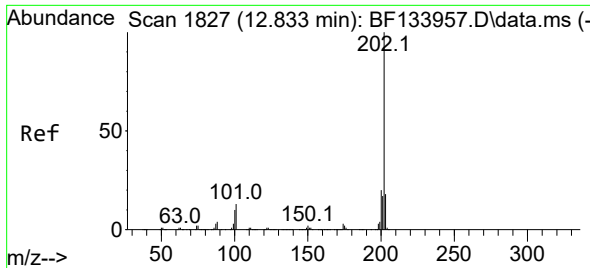
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.039 min Scan# 2032  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

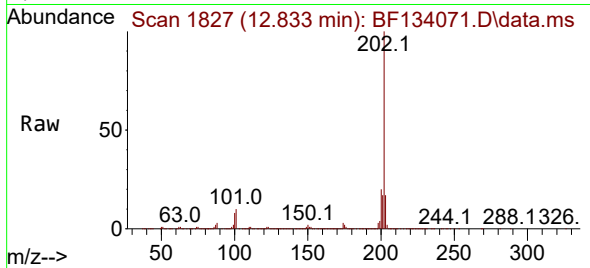
Tgt Ion:240 Resp: 183611  
Ion Ratio Lower Upper  
240 100  
120 9.6 7.4 11.0  
236 23.9 21.0 31.6





#78  
Pyrene  
Concen: 26.223 ng  
RT: 12.833 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

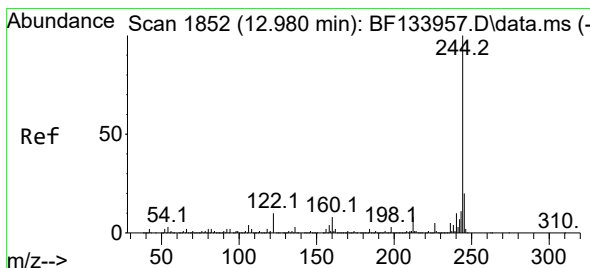
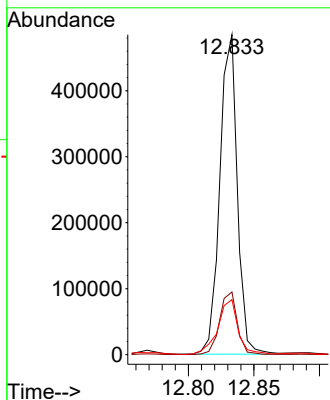
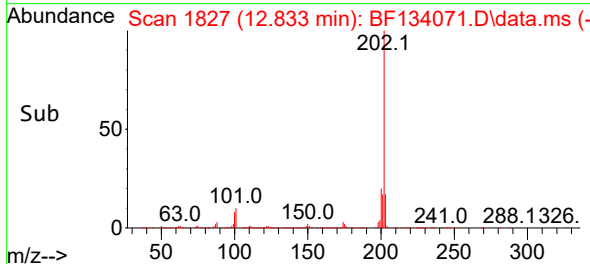
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



Tgt Ion:202 Resp: 44808  
Ion Ratio Lower Upper  
202 100  
200 19.6 16.1 24.1  
203 17.2 14.3 21.5

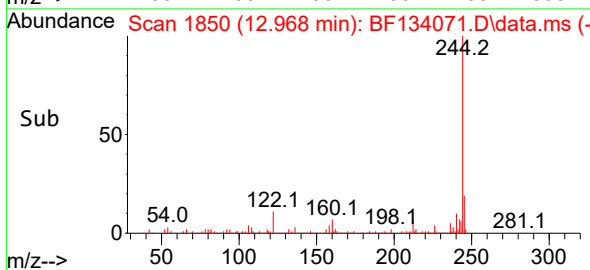
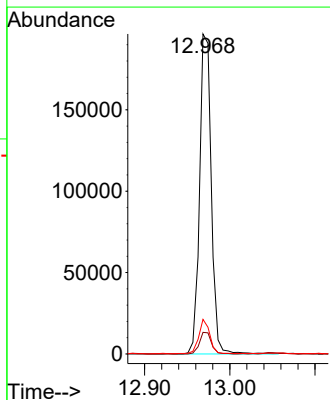
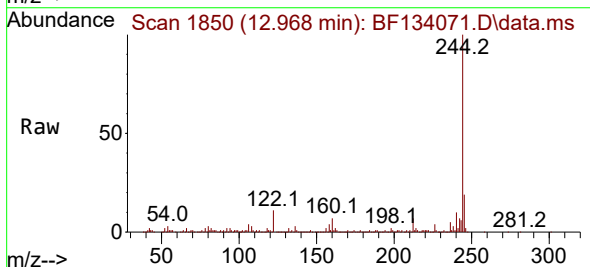
Manual Integrations  
APPROVED

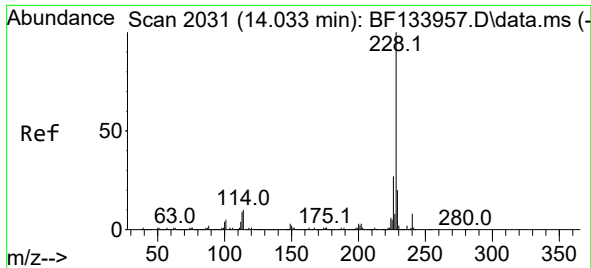
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023



#79  
Terphenyl-d14  
Concen: 16.471 ng  
RT: 12.968 min Scan# 1850  
Delta R.T. -0.018 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

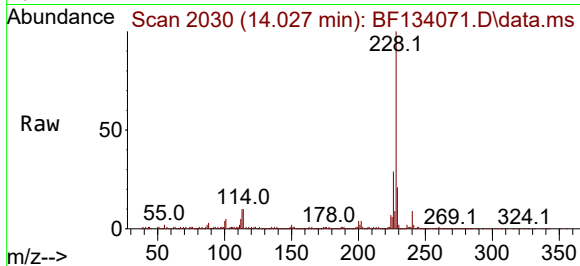
Tgt Ion:244 Resp: 187905  
Ion Ratio Lower Upper  
244 100  
212 6.8 6.0 9.0  
122 10.8 8.3 12.5





#81  
Benzo(a)anthracene  
Concen: 22.307 ng  
RT: 14.027 min Scan# 2030  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

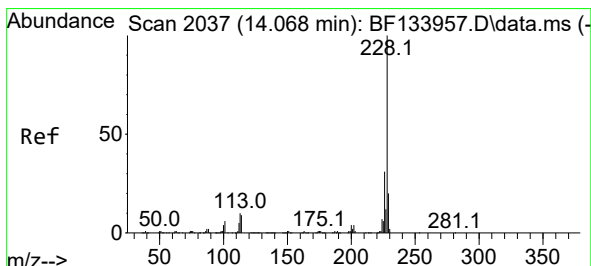
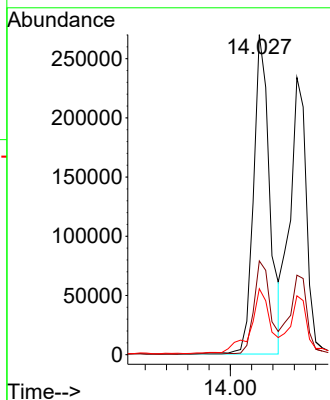
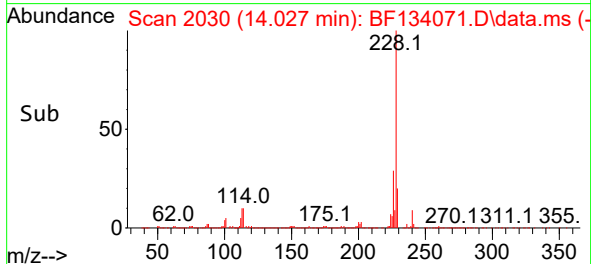
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



Tgt Ion:228 Resp: 284054  
Ion Ratio Lower Upper  
228 100  
226 29.3 22.0 33.0  
229 20.6 16.3 24.5

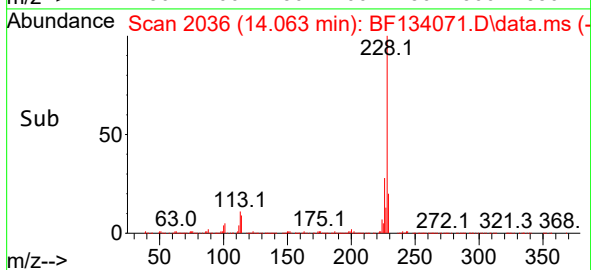
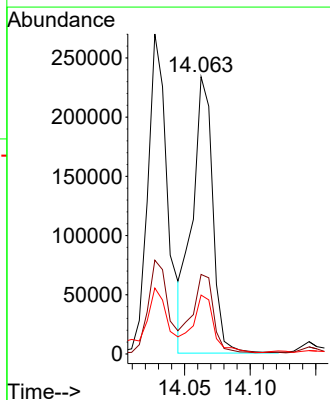
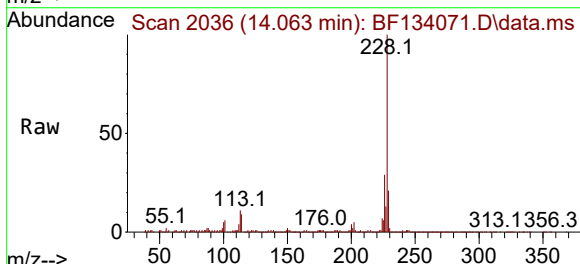
Manual Integrations  
APPROVED

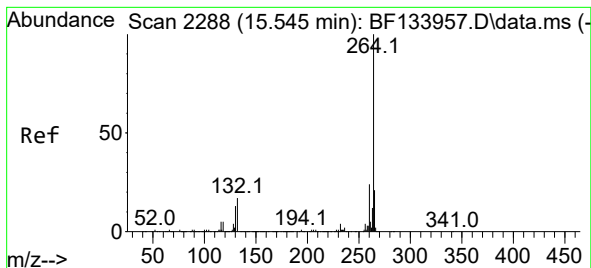
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023



#83  
Chrysene  
Concen: 20.623 ng  
RT: 14.063 min Scan# 2036  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

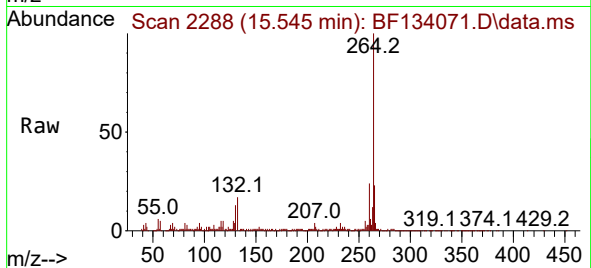
Tgt Ion:228 Resp: 254352  
Ion Ratio Lower Upper  
228 100  
226 28.7 24.4 36.6  
229 21.3 16.1 24.1





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.545 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

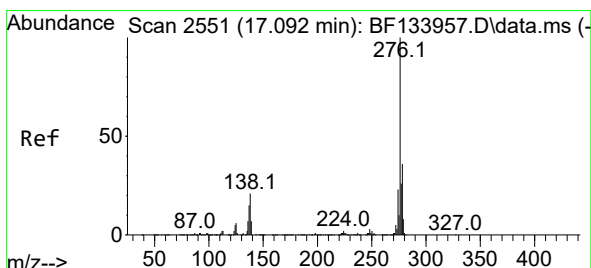
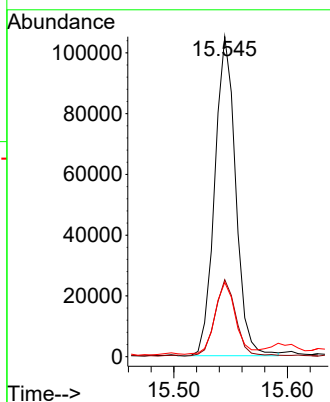
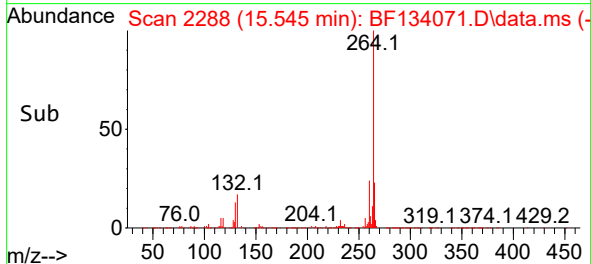
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



Tgt Ion:264 Resp: 13445  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.5 29.3  
265 23.2 16.6 25.0

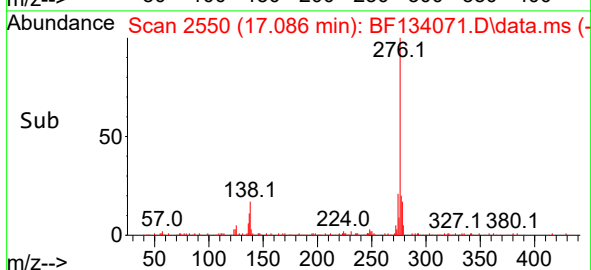
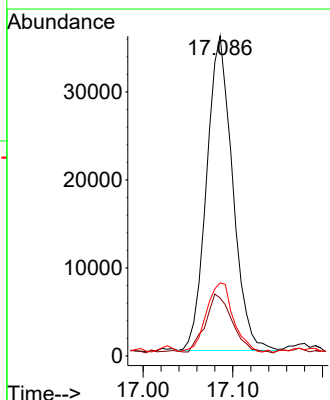
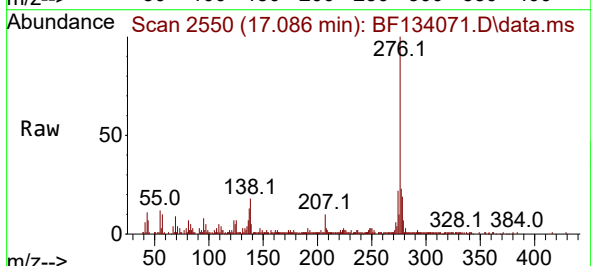
Manual Integrations  
APPROVED

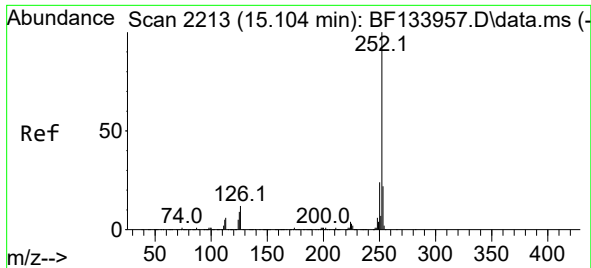
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 7.693 ng  
RT: 17.086 min Scan# 2550  
Delta R.T. -0.024 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

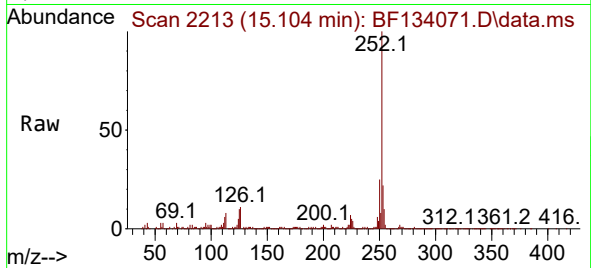
Tgt Ion:276 Resp: 71769  
Ion Ratio Lower Upper  
276 100  
138 19.5 18.7 28.1  
277 22.9 19.9 29.9





#88  
Benzo(b)fluoranthene  
Concen: 29.079 ng m  
RT: 15.104 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

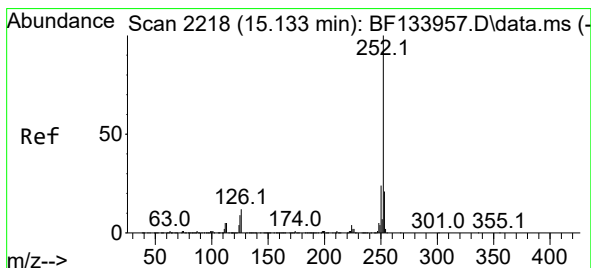
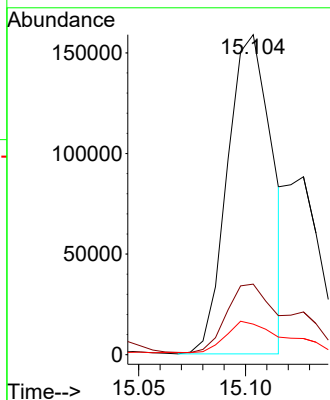
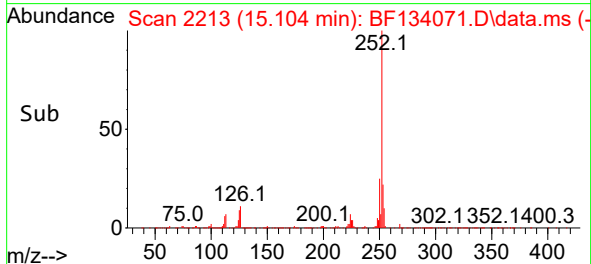
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-19-20



Tgt Ion:252 Resp: 229892  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.4 26.0  
125 9.6 7.1 10.7

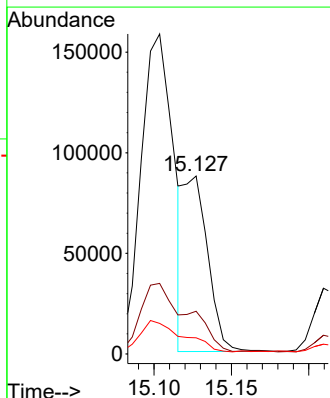
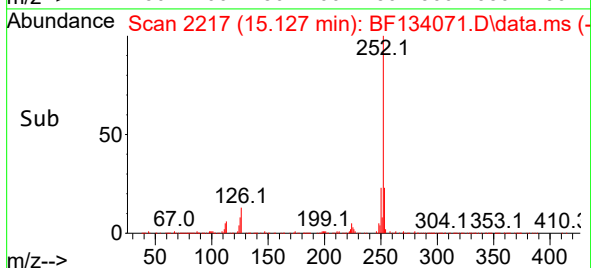
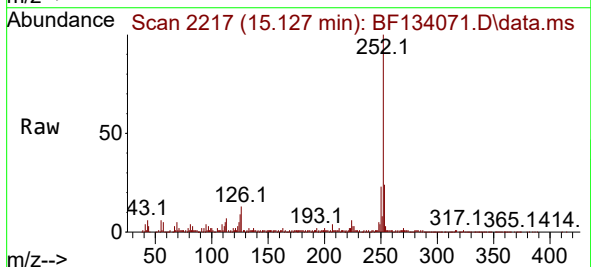
Manual Integrations  
APPROVED

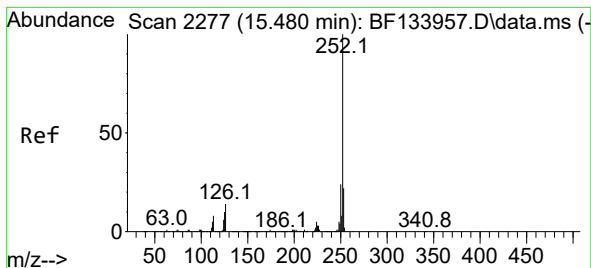
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/07/2023



#89  
Benzo(k)fluoranthene  
Concen: 11.629 ng m  
RT: 15.127 min Scan# 2217  
Delta R.T. -0.012 min  
Lab File: BF134071.D  
Acq: 01 Jul 2023 02:02

Tgt Ion:252 Resp: 93609  
Ion Ratio Lower Upper  
252 100  
253 24.0 16.9 25.3  
125 9.1 7.4 11.2





#90

Benzo(a)pyrene

Concen: 16.703 ng

RT: 15.480 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF134071.D

Acq: 01 Jul 2023 02:02

Instrument :

BNA\_F

ClientSampleId :

COMPOSIT-SB-19-20

Tgt Ion:252 Resp: 12769

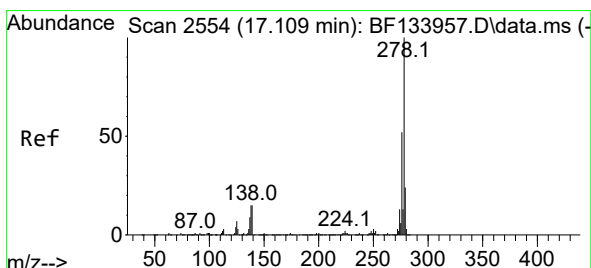
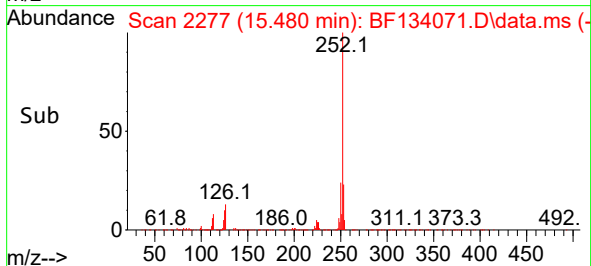
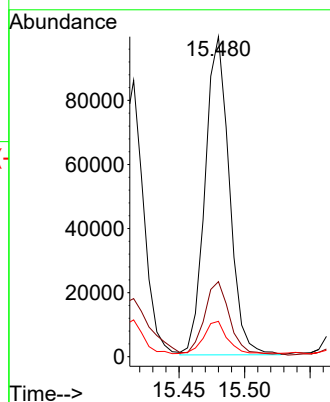
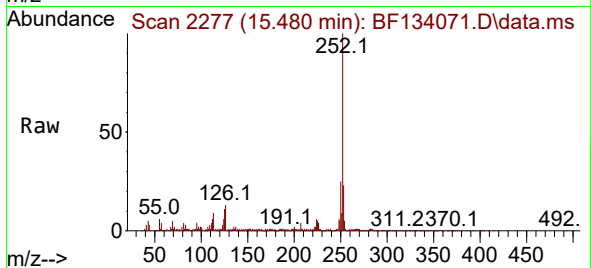
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.4  | 17.4  | 26.0  |
| 125 | 11.1  | 8.4   | 12.6  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/07/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.577 ng

RT: 17.098 min Scan# 2552

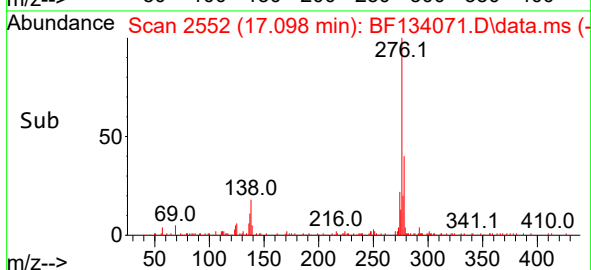
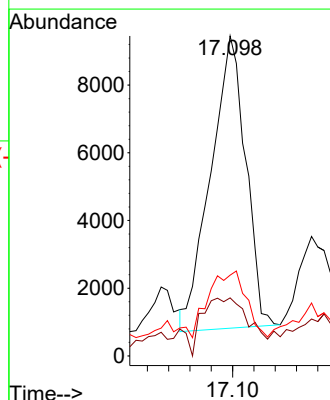
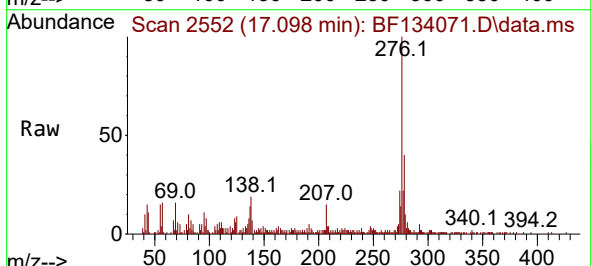
Delta R.T. -0.030 min

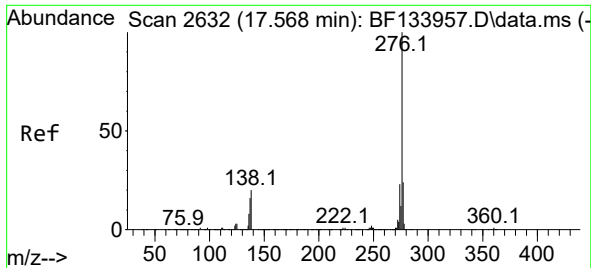
Lab File: BF134071.D

Acq: 01 Jul 2023 02:02

Tgt Ion:278 Resp: 19637

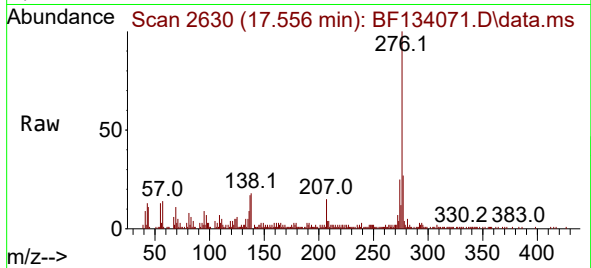
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 18.1  | 12.2  | 18.4  |
| 279 | 25.3  | 19.4  | 29.2  |





#92  
 Benzo(g,h,i)perylene  
 Concen: 7.654 ng  
 RT: 17.556 min Scan# 20  
 Delta R.T. -0.024 min  
 Lab File: BF134071.D  
 Acq: 01 Jul 2023 02:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSIT-SB-19-20



Tgt Ion: 276 Resp: 6014  
 Ion Ratio Lower Upper  
 276 100  
 277 26.7 19.0 28.6  
 138 17.9 16.2 24.2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
 Supervised By :mohammad ahmed 07/07/2023

