

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF112224\  
 Data File : BF140583.D  
 Acq On : 22 Nov 2024 17:43  
 Operator : RC/JU  
 Sample : P4948-03  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11944

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2024  
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 23 00:51:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 21 15:23:48 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 75120    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 242890   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.933  | 164  | 100128   | 20.000 | ng    | 0.02     |
| 64) Phenanthrene-d10          | 11.469 | 188  | 100540m  | 20.000 | ng    | 0.06     |
| 76) Chrysene-d12              | 14.098 | 240  | 120763   | 20.000 | ng    | # 0.05   |
| 86) Perylene-d12              | 15.562 | 264  | 114925   | 20.000 | ng    | 0.02     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.492  | 112  | 370743   | 84.207 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 497396   | 85.456 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 286345   | 60.301 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.739 | 330  | 89977    | 84.022 | ng    | 0.04     |
| 45) 2-Fluorobiphenyl          | 9.233  | 172  | 422604   | 62.885 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.057 | 244  | 337687   | 43.542 | ng    | 0.06     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 37) 2-Methylnaphthalene       | 8.869  | 142  | 27152    | 3.417  | ng    | 93       |
| 38) 1-Methylnaphthalene       | 8.969  | 142  | 16002    | 2.054  | ng    | 91       |
| 46) 1,1'-Biphenyl             | 9.333  | 154  | 17892    | 2.393  | ng    | 73       |
| 71) Phenanthrene              | 11.498 | 178  | 188419m  | 38.987 | ng    |          |
| 75) Fluoranthene              | 12.704 | 202  | 220053   | 41.937 | ng    | 69       |
| 78) Pyrene                    | 12.933 | 202  | 231793m  | 20.759 | ng    |          |
| 81) Benzo(a)anthracene        | 14.086 | 228  | 154815   | 19.366 | ng    | # 83     |
| 83) Chrysene                  | 14.121 | 228  | 143872   | 19.682 | ng    | # 91     |
| 84) Bis(2-ethylhexyl)phtha... | 14.045 | 149  | 39373    | 7.752  | ng    | # 63     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.051 | 276  | 100704   | 13.446 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.133 | 252  | 235061m  | 32.563 | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.145 | 252  | 81989m   | 12.979 | ng    |          |
| 90) Benzo(a)pyrene            | 15.498 | 252  | 139557   | 23.777 | ng    | # 91     |
| 91) Dibenzo(a,h)anthracene    | 17.056 | 278  | 25223    | 4.112  | ng    | # 85     |
| 92) Benzo(g,h,i)perylene      | 17.509 | 276  | 98515    | 15.740 | ng    | 97       |
| -----                         |        |      |          |        |       |          |

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

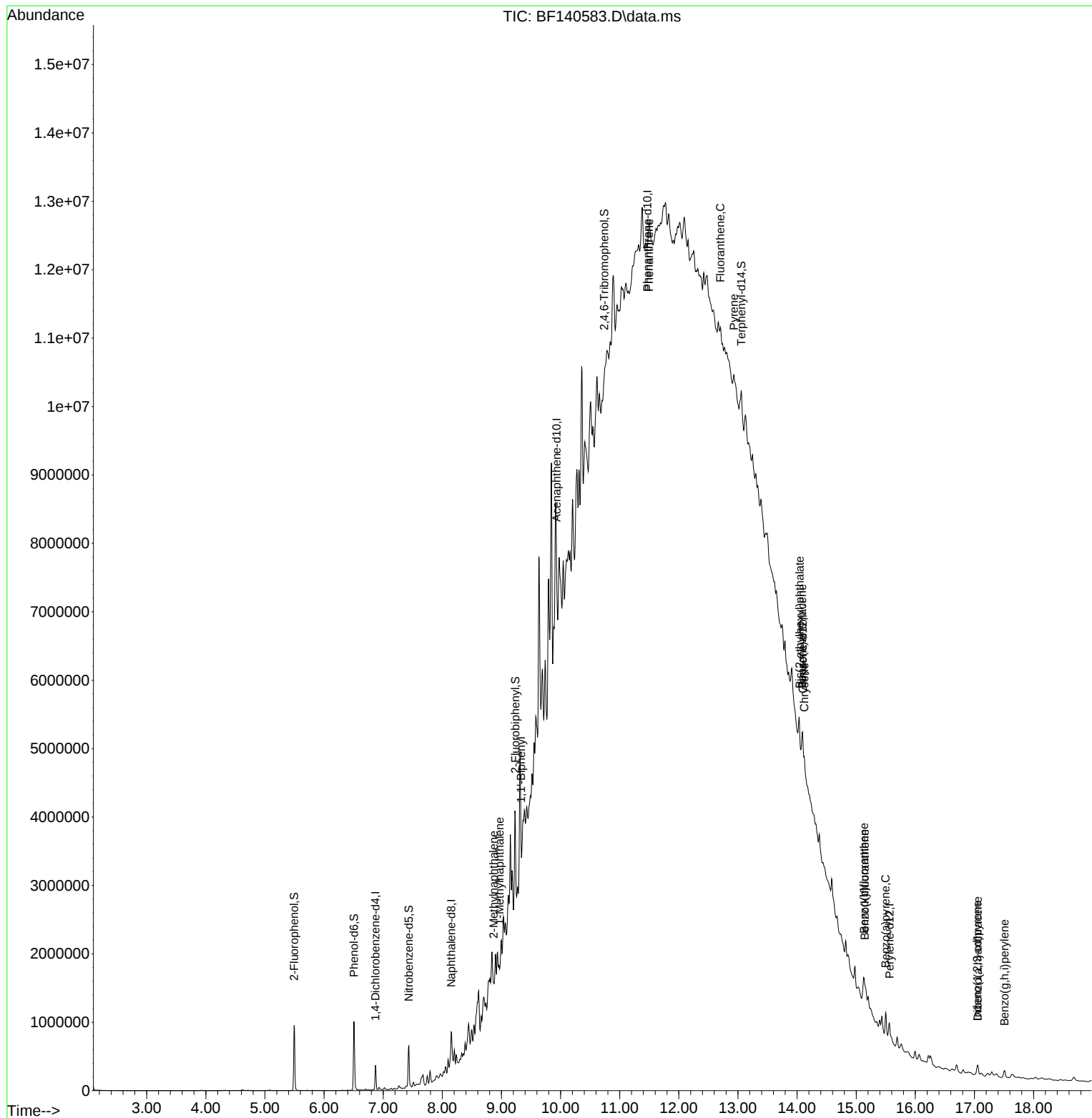
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF112224\  
Data File : BF140583.D  
Acq On : 22 Nov 2024 17:43  
Operator : RC/JU  
Sample : P4948-03  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
72-11944

Quant Time: Nov 23 00:51:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 21 15:23:48 2024  
Response via : Initial Calibration

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APPROVED

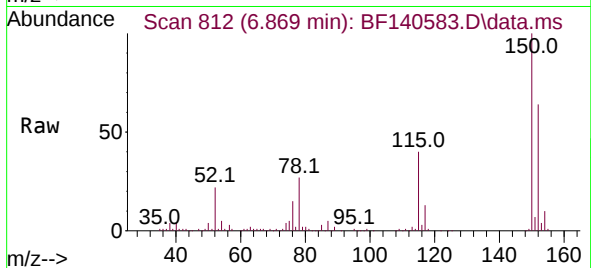
Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.869 min Scan# 813  
Delta R.T. -0.006 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

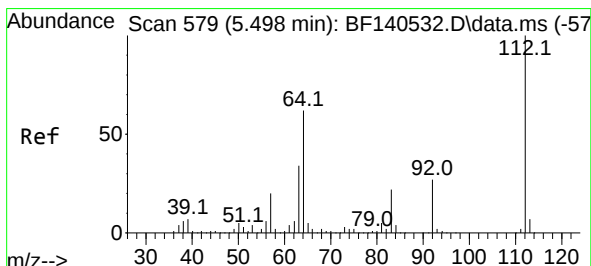
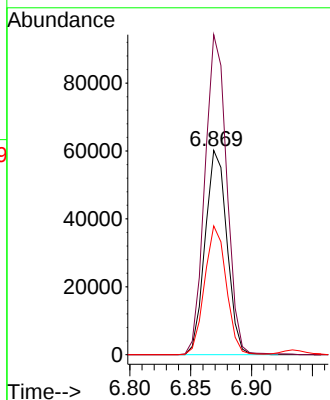
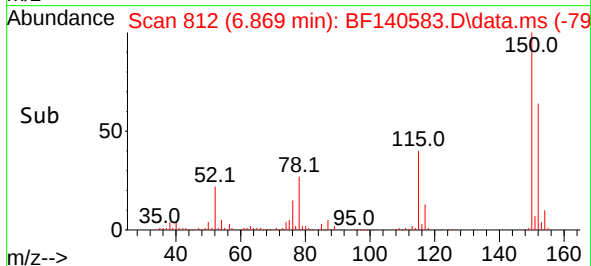
Instrument :  
BNA\_F  
ClientSampleId :  
72-11944



Tgt Ion:152 Resp: 75120  
Ion Ratio Lower Upper  
152 100  
150 156.6 128.5 192.7  
115 63.1 50.2 75.4

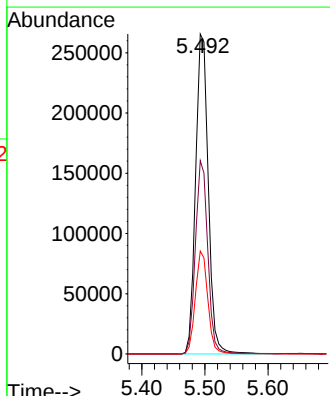
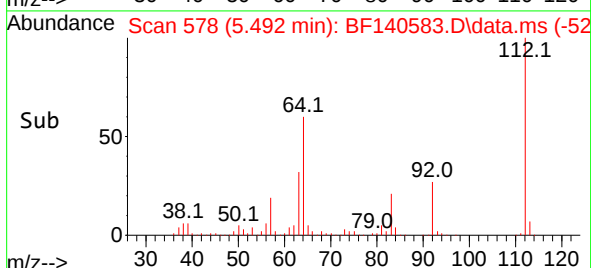
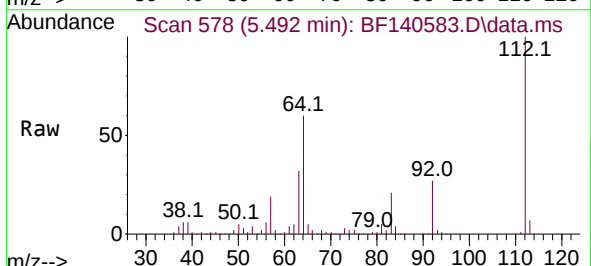
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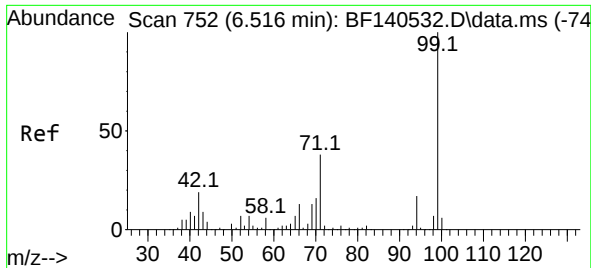
Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#5  
2-Fluorophenol  
Concen: 84.207 ng  
RT: 5.492 min Scan# 578  
Delta R.T. -0.006 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

Tgt Ion:112 Resp: 370743  
Ion Ratio Lower Upper  
112 100  
64 60.4 49.2 73.8  
63 32.2 27.0 40.4





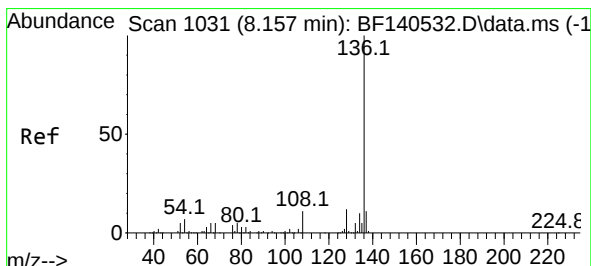
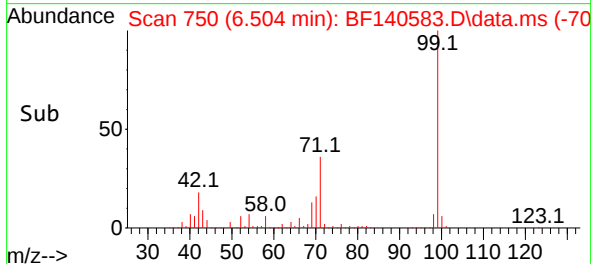
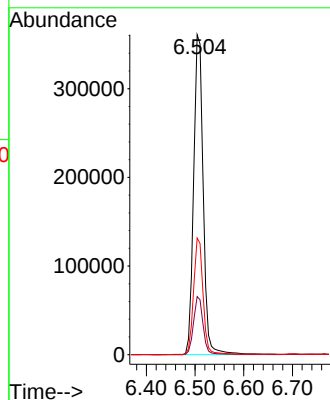
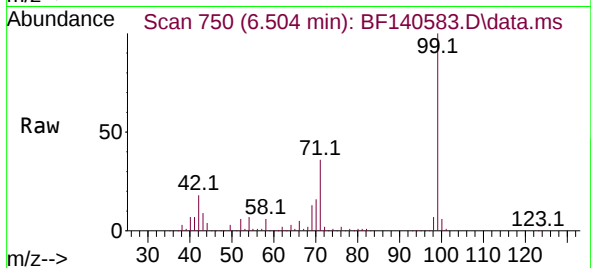
#7  
Phenol-d6  
Concen: 85.456 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

Instrument :  
BNA\_F  
ClientSampleId :  
72-11944

Tgt Ion: 99 Resp: 497390  
Ion Ratio Lower Upper  
99 100  
42 18.1 15.4 23.0  
71 36.5 30.6 46.0

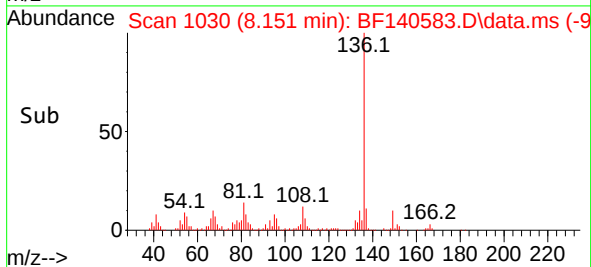
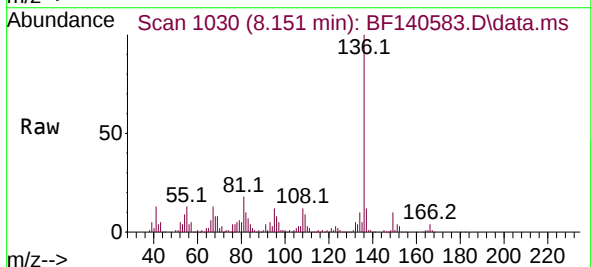
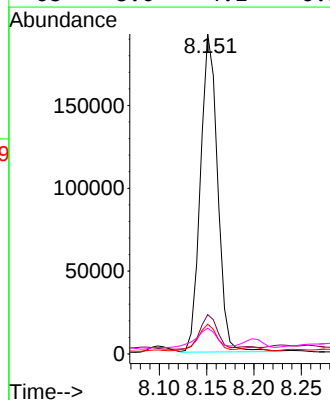
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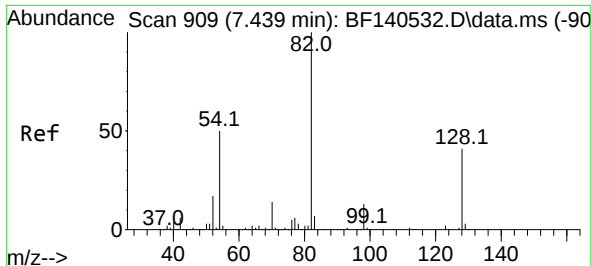
Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.151 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

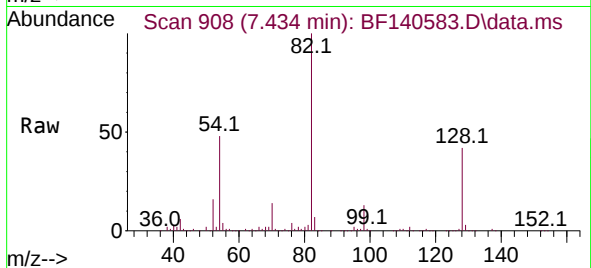
Tgt Ion:136 Resp: 242890  
Ion Ratio Lower Upper  
136 100  
137 12.3 8.6 13.0  
54 9.3 5.8 8.8#  
68 8.0 4.1 6.1#





#23  
Nitrobenzene-d5  
Concen: 60.301 ng  
RT: 7.434 min Scan# 909  
Delta R.T. -0.006 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

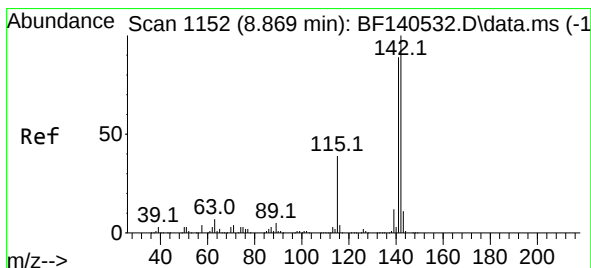
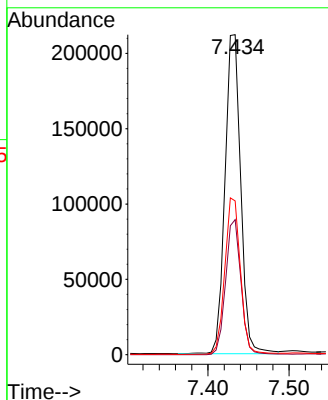
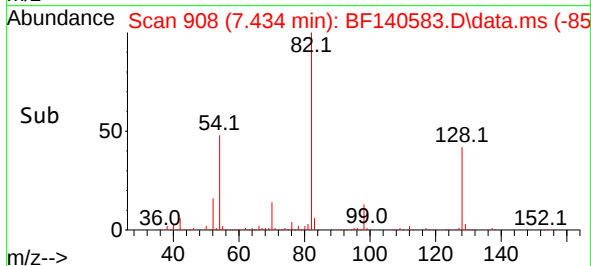
Instrument :  
BNA\_F  
ClientSampleId :  
72-11944



Tgt Ion: 82 Resp: 286349  
Ion Ratio Lower Upper  
82 100  
128 42.2 33.0 49.4  
54 48.0 39.5 59.3

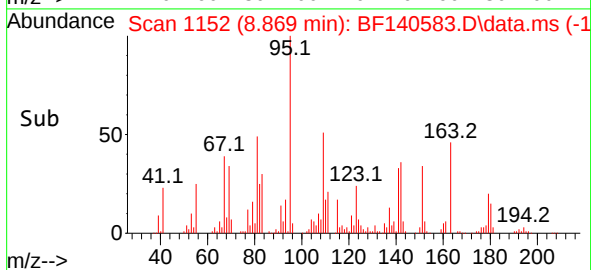
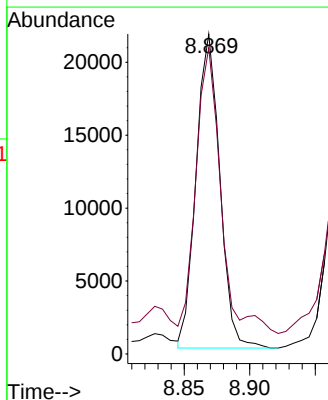
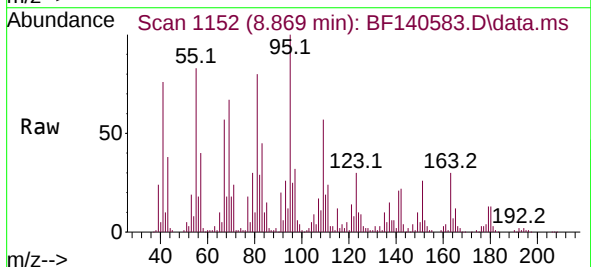
Manual Integrations  
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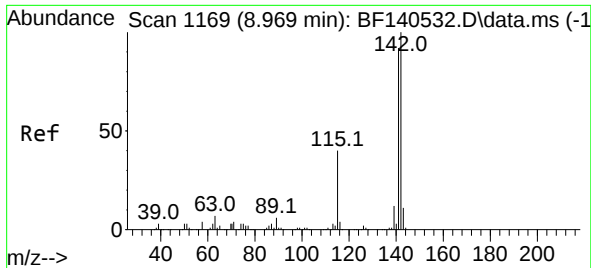
Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#37  
2-Methylnaphthalene  
Concen: 3.417 ng  
RT: 8.869 min Scan# 1152  
Delta R.T. -0.000 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

Tgt Ion:142 Resp: 27152  
Ion Ratio Lower Upper  
142 100  
141 95.7 71.0 106.6





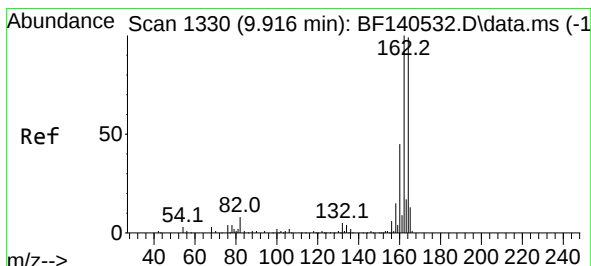
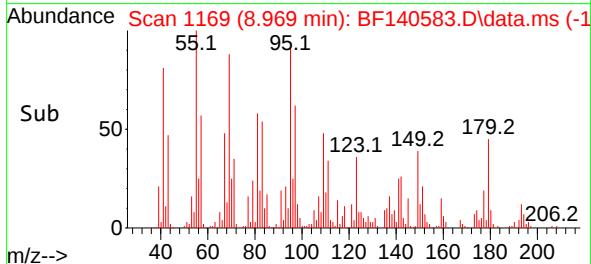
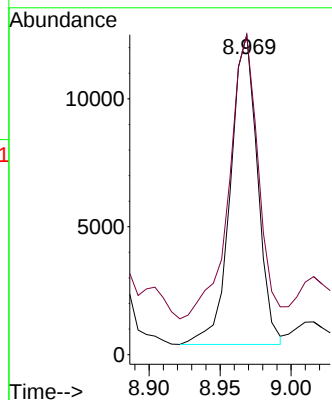
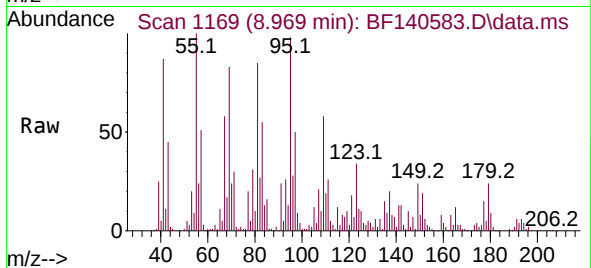
#38  
1-Methylnaphthalene  
Concen: 2.054 ng  
RT: 8.969 min Scan# 1169  
Delta R.T. -0.000 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

Instrument :  
BNA\_F  
ClientSampleId :  
72-11944

Tgt Ion:142 Resp: 1600  
Ion Ratio Lower Upper  
142 100  
141 99.8 73.3 109.9

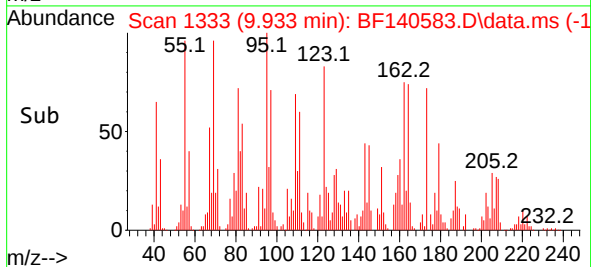
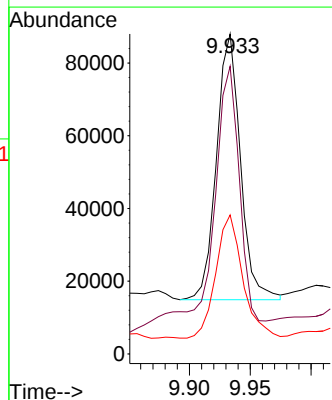
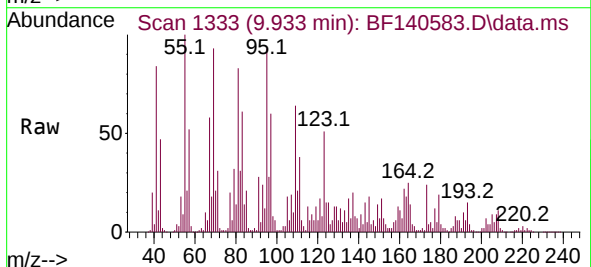
Manual Integrations  
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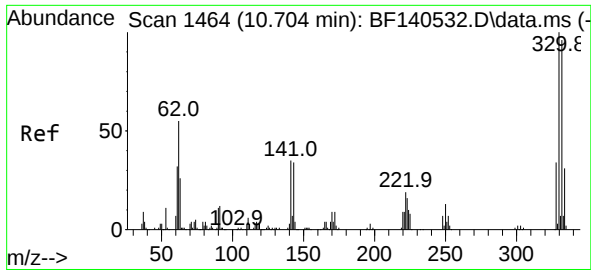
Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.933 min Scan# 1333  
Delta R.T. 0.018 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

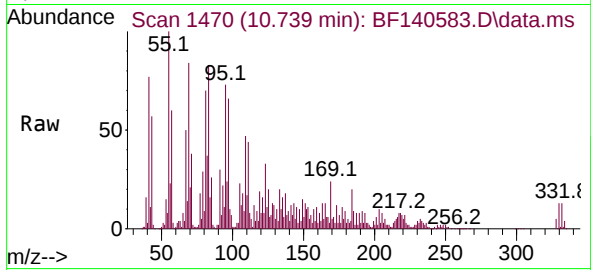
Tgt Ion:164 Resp: 100128  
Ion Ratio Lower Upper  
164 100  
162 89.9 80.6 120.8  
160 43.5 36.2 54.4





#42  
2,4,6-Tribromophenol  
Concen: 84.022 ng  
RT: 10.739 min Scan# 1464  
Delta R.T. 0.035 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

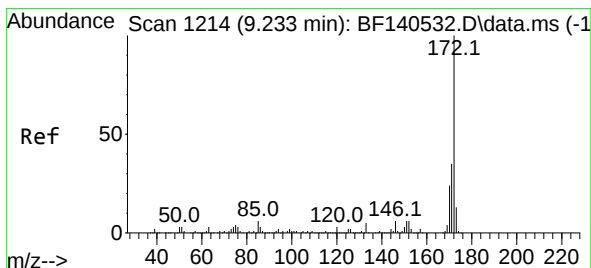
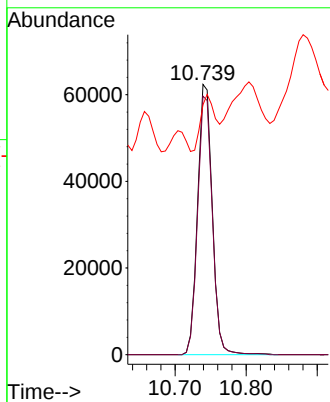
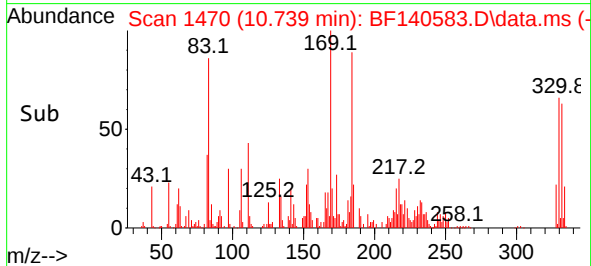
Instrument :  
BNA\_F  
ClientSampleId :  
72-11944



Tgt Ion: 330 Resp: 8997  
Ion Ratio Lower Upper  
330 100  
332 96.0 76.9 115.3  
141 21.2 26.7 40.1

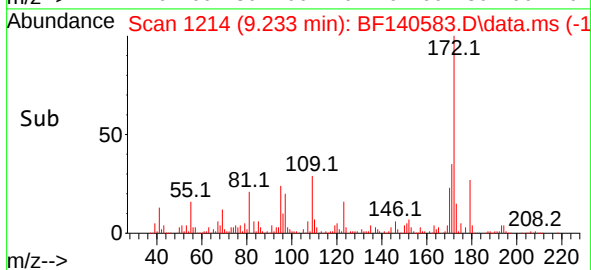
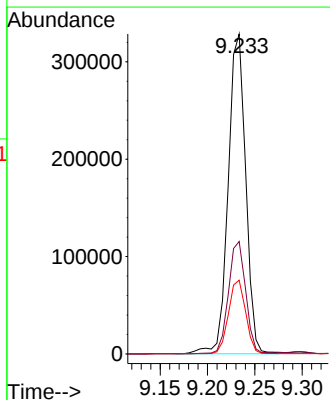
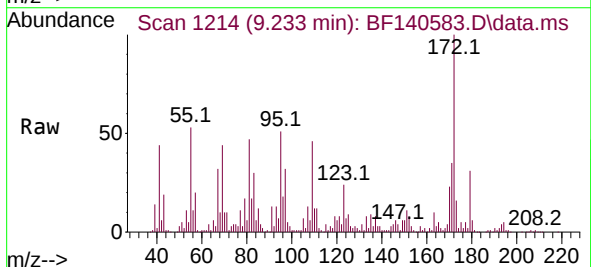
Manual Integrations  
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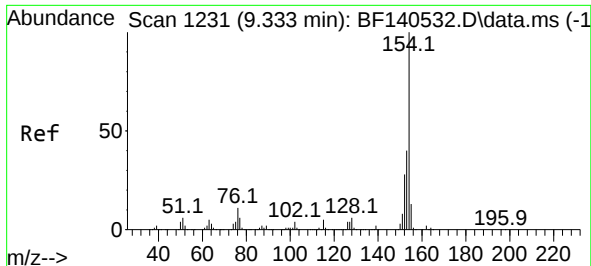
Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#45  
2-Fluorobiphenyl  
Concen: 62.885 ng  
RT: 9.233 min Scan# 1214  
Delta R.T. -0.000 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

Tgt Ion: 172 Resp: 422604  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.4 42.6  
170 23.0 19.0 28.6





#46  
1,1'-Biphenyl  
Concen: 2.393 ng  
RT: 9.333 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

Instrument :

BNA\_F

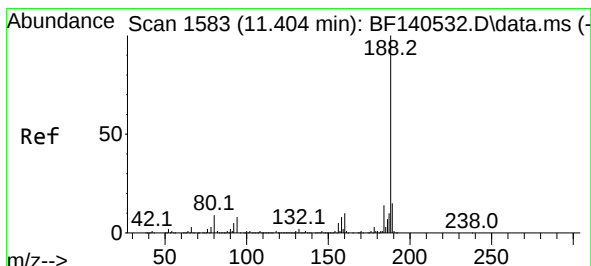
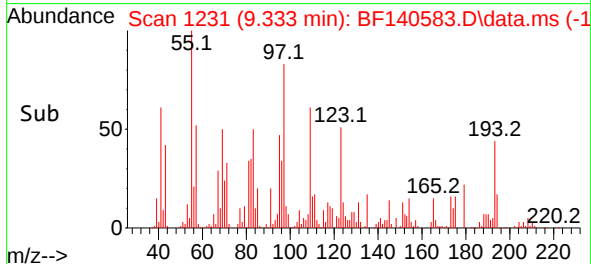
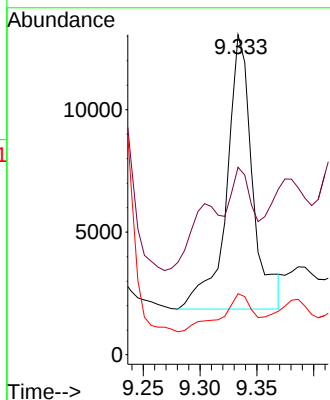
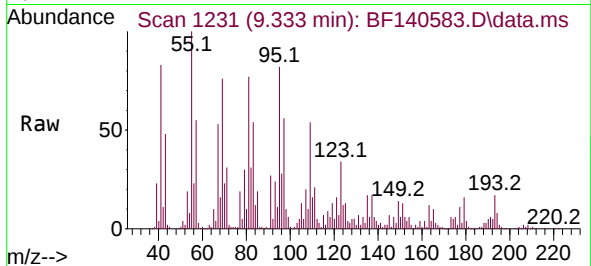
ClientSampleId :

72-11944

Tgt Ion:154 Resp: 17892  
Ion Ratio Lower Upper  
154 100  
153 58.6 20.4 60.4  
76 19.1 0.0 31.2

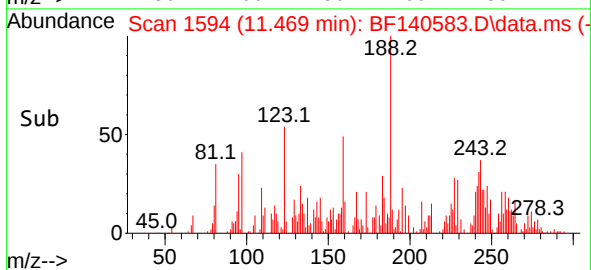
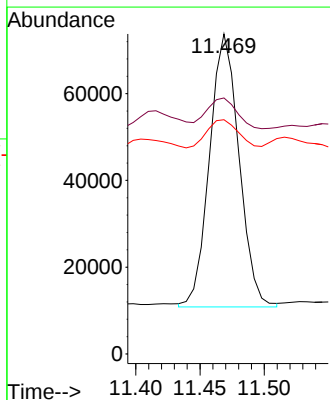
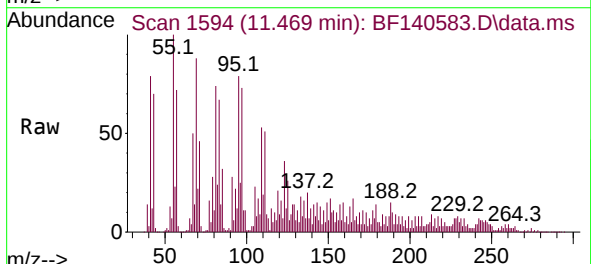
Manual Integrations  
APPROVED

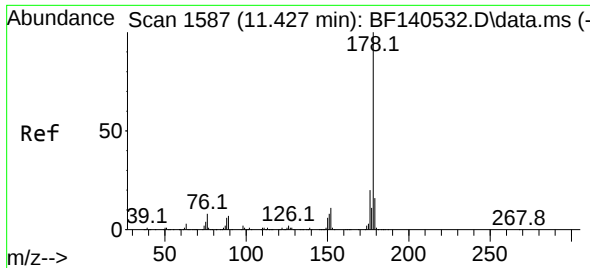
Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#64  
Phenanthrene-d10  
Concen: 20.000 ng m  
RT: 11.469 min Scan# 1594  
Delta R.T. 0.065 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

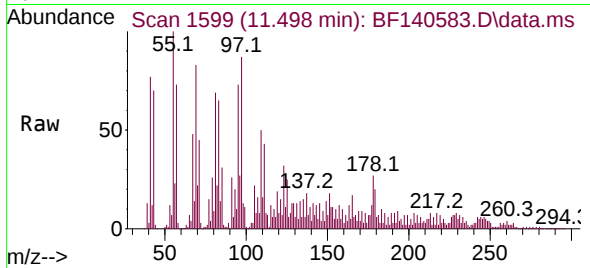
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Ion Ratio Lower Upper  
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94 80.0 6.4 9.6#  
80 73.2 6.9 10.3#





#71  
Phenanthrene  
Concen: 38.987 ng m  
RT: 11.498 min Scan# 11  
Delta R.T. 0.071 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

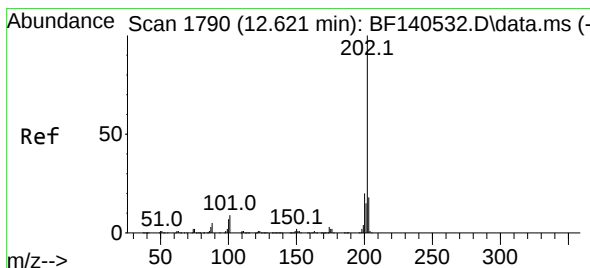
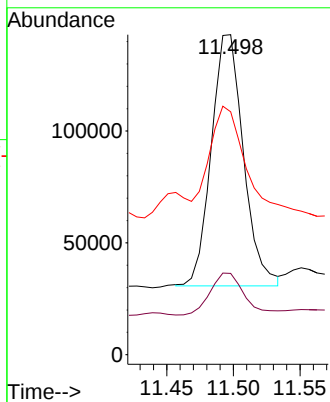
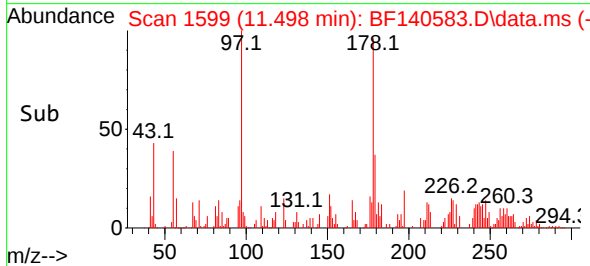
Instrument :  
BNA\_F  
ClientSampleId :  
72-11944



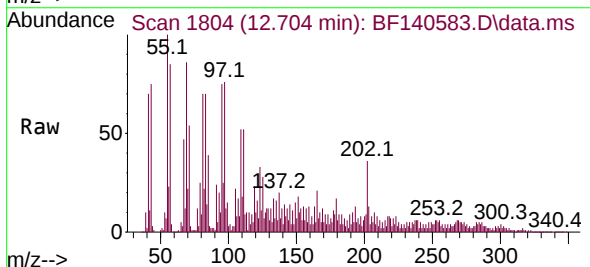
Tgt Ion:178 Resp: 188419  
Ion Ratio Lower Upper  
178 100  
176 25.4 15.8 23.6  
179 75.9 12.4 18.6

Manual Integrations  
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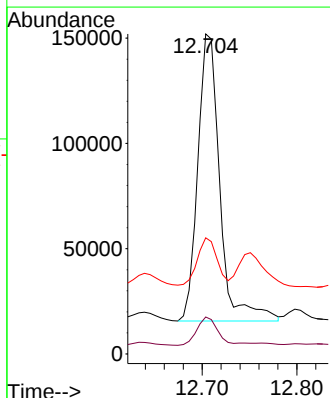
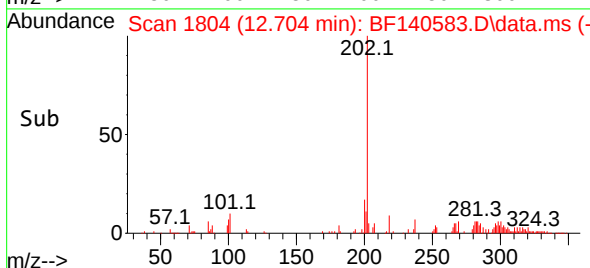
Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024

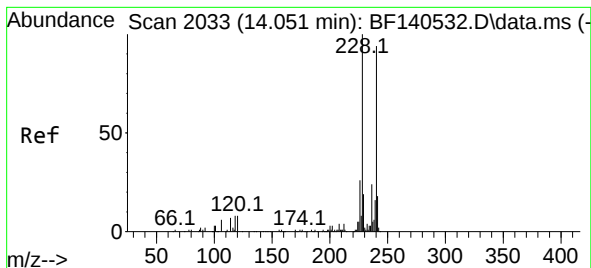


#75  
Fluoranthene  
Concen: 41.937 ng  
RT: 12.704 min Scan# 1804  
Delta R.T. 0.082 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43



Tgt Ion:202 Resp: 220053  
Ion Ratio Lower Upper  
202 100  
101 11.6 0.0 28.9  
203 36.3 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.098 min Scan# 2033

Delta R.T. 0.047 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

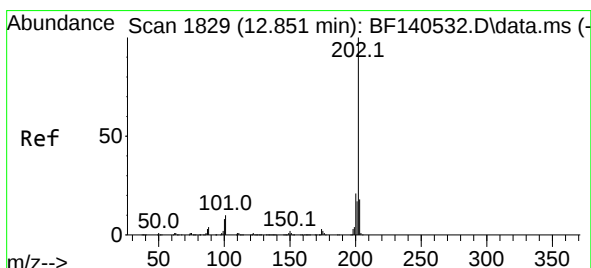
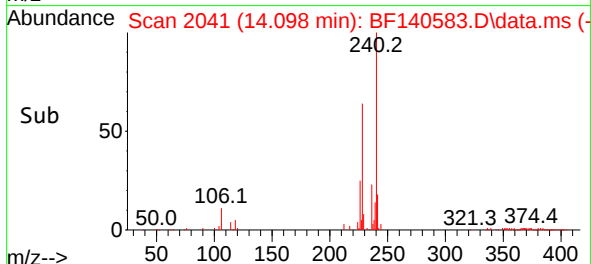
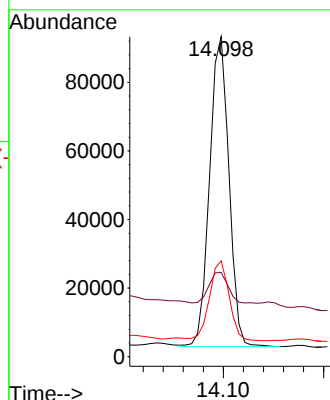
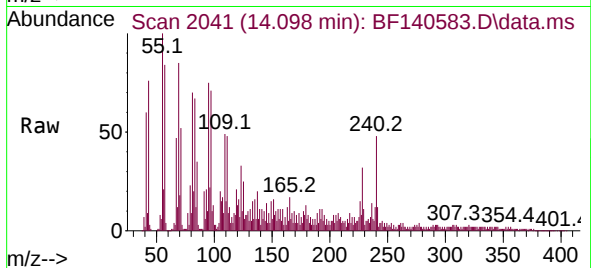
72-11944

Tgt Ion:240 Resp: 120763  
 Ion Ratio Lower Upper  
 240 100  
 120 26.3 7.3 10.9  
 236 29.9 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2024  
 Supervised By :mohammad ahmed 11/27/2024



#78

Pyrene

Concen: 20.759 ng m

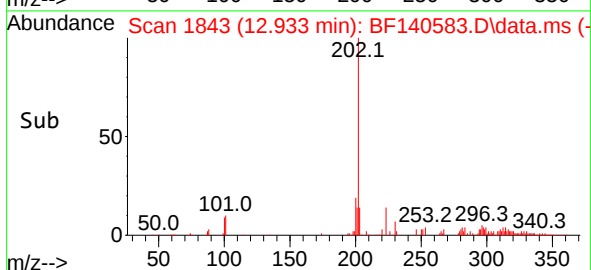
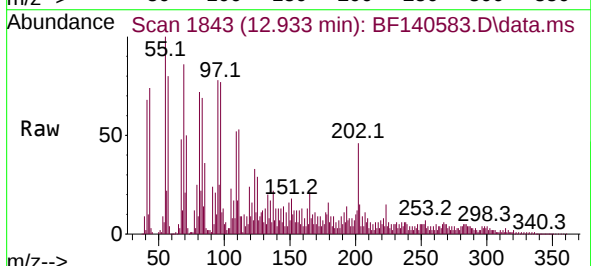
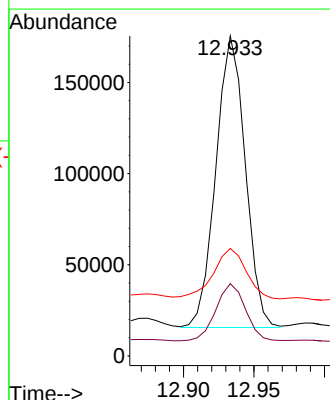
RT: 12.933 min Scan# 1843

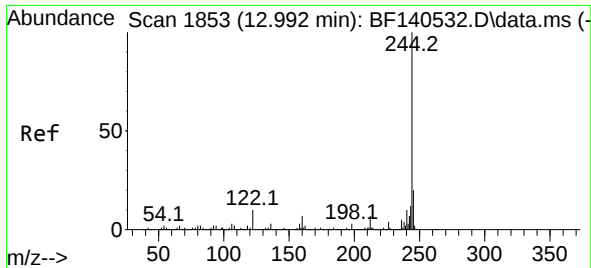
Delta R.T. 0.082 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

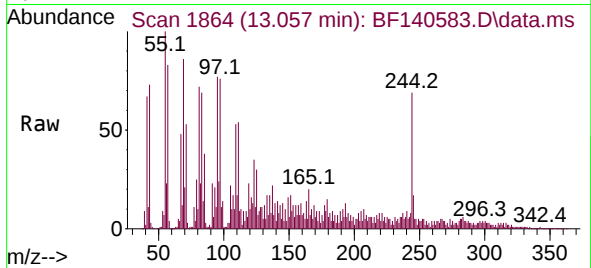
Tgt Ion:202 Resp: 231793  
 Ion Ratio Lower Upper  
 202 100  
 200 22.6 16.5 24.7  
 203 33.6 14.2 21.4





#79  
 Terphenyl-d14  
 Concen: 43.542 ng  
 RT: 13.057 min Scan# 1864  
 Delta R.T. 0.065 min  
 Lab File: BF140583.D  
 Acq: 22 Nov 2024 17:43

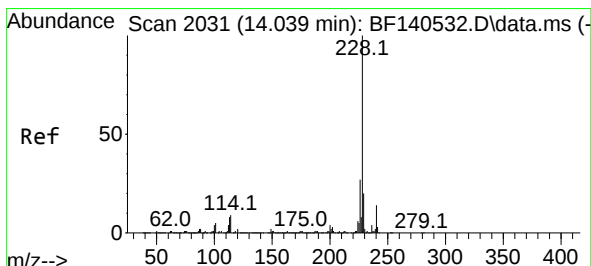
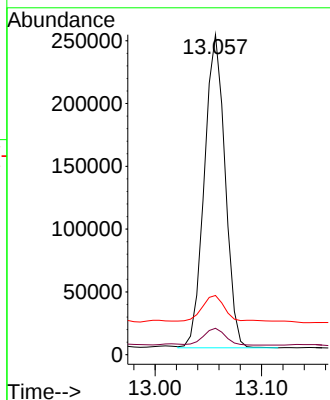
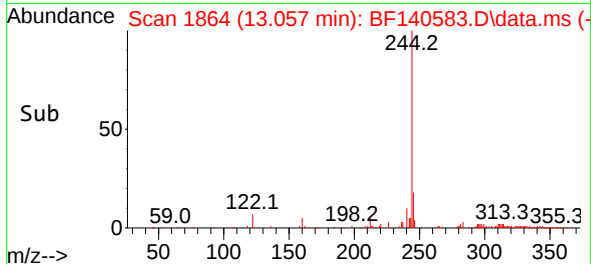
Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11944



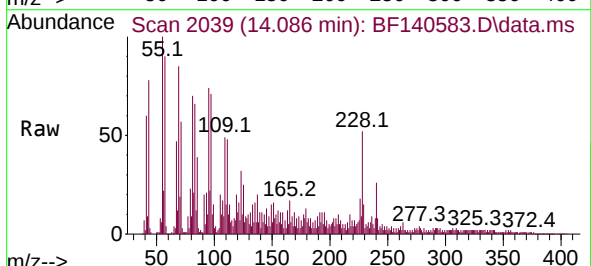
Tgt Ion:244 Resp: 33768  
 Ion Ratio Lower Upper  
 244 100  
 212 8.3 5.8 8.8  
 122 18.5 8.0 12.0

Manual Integrations  
 APPROVED

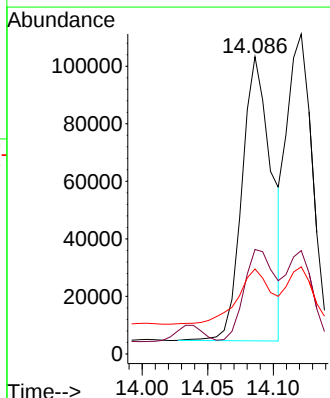
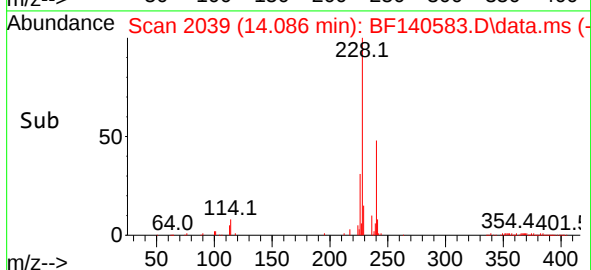
Reviewed By :Jagrut Upadhyay 11/25/2024  
 Supervised By :mohammad ahmed 11/27/2024

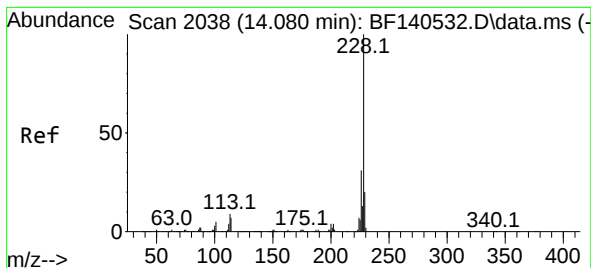


#81  
 Benzo(a)anthracene  
 Concen: 19.366 ng  
 RT: 14.086 min Scan# 2039  
 Delta R.T. 0.047 min  
 Lab File: BF140583.D  
 Acq: 22 Nov 2024 17:43



Tgt Ion:228 Resp: 154815  
 Ion Ratio Lower Upper  
 228 100  
 226 35.1 21.8 32.8#  
 229 28.6 15.8 23.6#





#83

Chrysene

Concen: 19.682 ng

RT: 14.121 min Scan# 2038

Delta R.T. 0.041 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

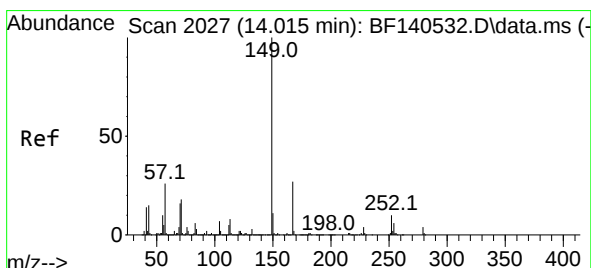
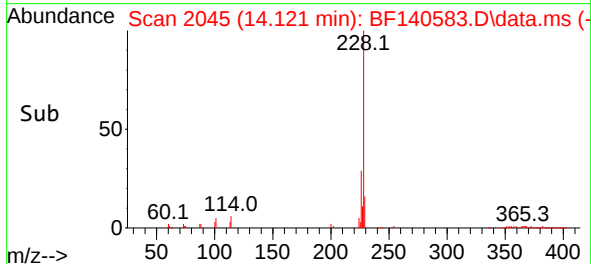
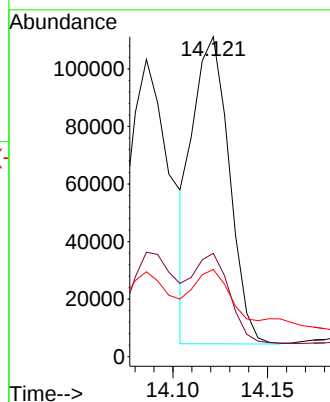
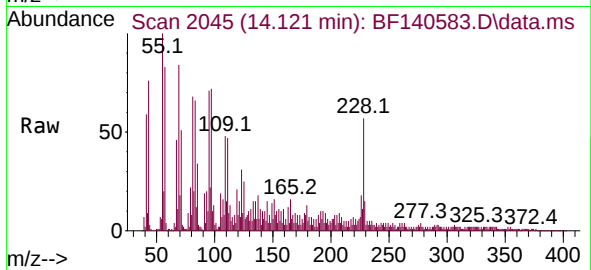
72-11944

Tgt Ion:228 Resp: 143872  
Ion Ratio Lower Upper  
228 100  
226 32.3 24.4 36.6  
229 27.3 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#84

Bis(2-ethylhexyl)phthalate

Concen: 7.752 ng

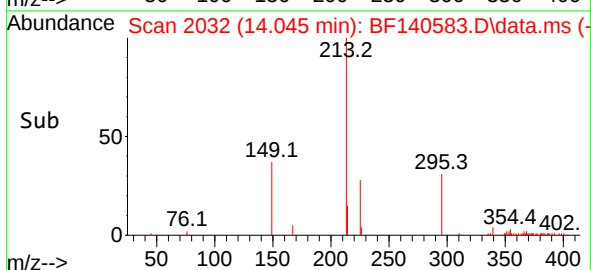
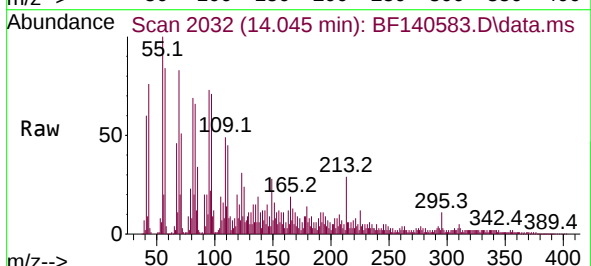
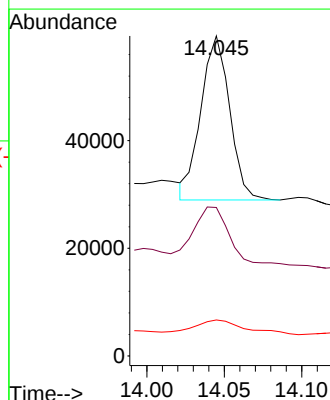
RT: 14.045 min Scan# 2032

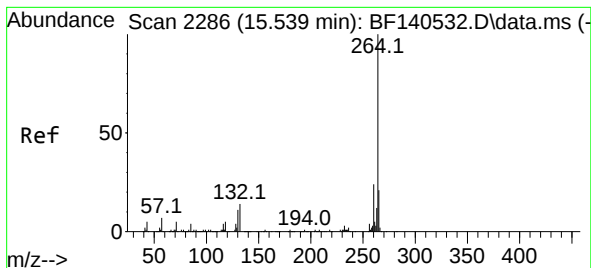
Delta R.T. 0.029 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

Tgt Ion:149 Resp: 39373  
Ion Ratio Lower Upper  
149 100  
167 46.4 21.2 31.8#  
279 11.3 3.2 4.8#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 21

Delta R.T. 0.023 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

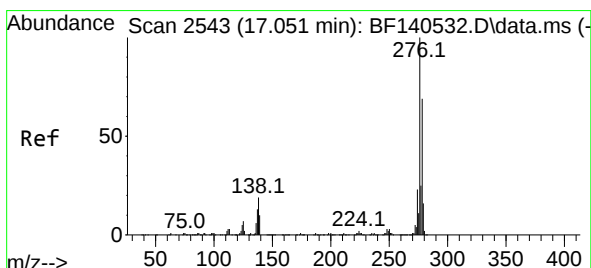
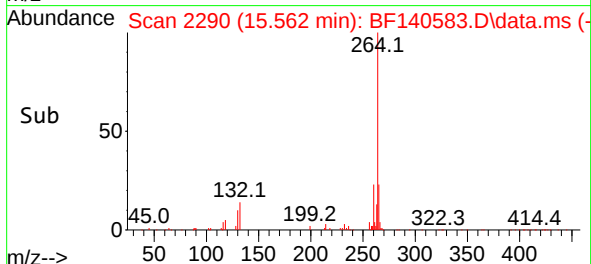
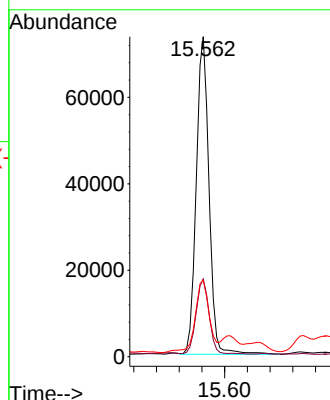
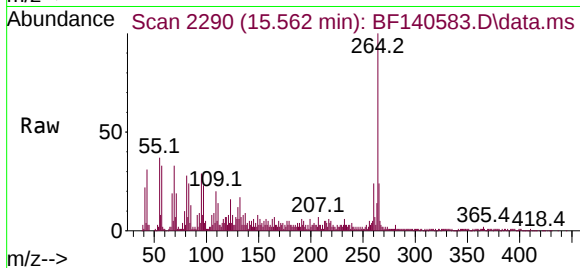
72-11944

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 11492 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 24.3  | 19.0  | 28.6  |
| 265       | 23.9  | 16.6  | 25.0  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.446 ng

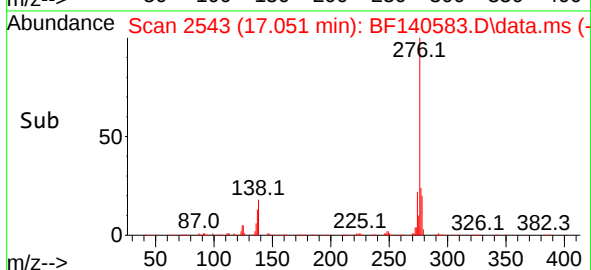
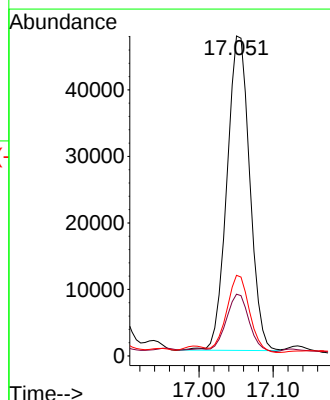
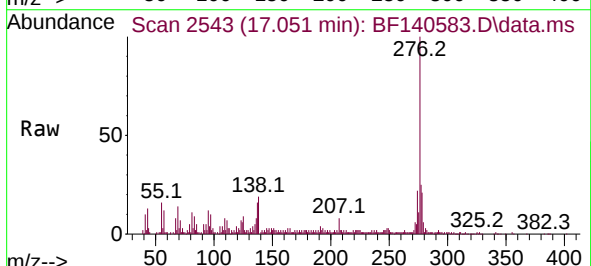
RT: 17.051 min Scan# 2543

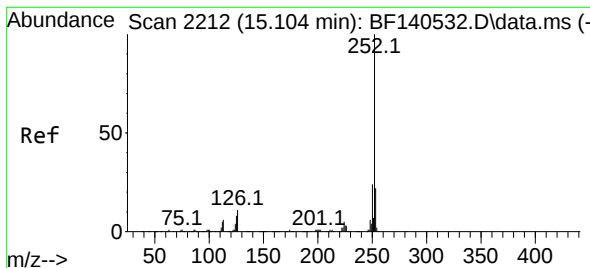
Delta R.T. -0.000 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 100704 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.8  | 15.5  | 23.3   |
| 277       | 24.7  | 20.1  | 30.1   |





#88

Benzo(b)fluoranthene

Concen: 32.563 ng m

RT: 15.133 min Scan# 2217

Delta R.T. 0.029 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

Instrument :

BNF

ClientSampleId :

72-11944

Tgt Ion:252 Resp: 23506

Ion Ratio Lower Upper

252 100

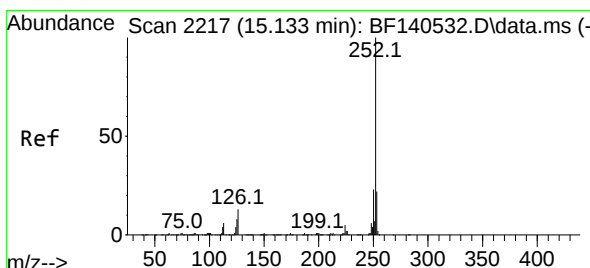
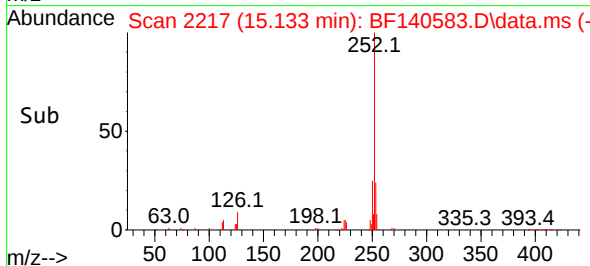
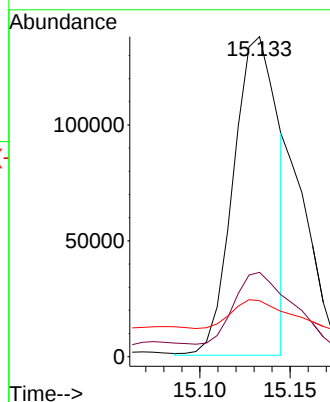
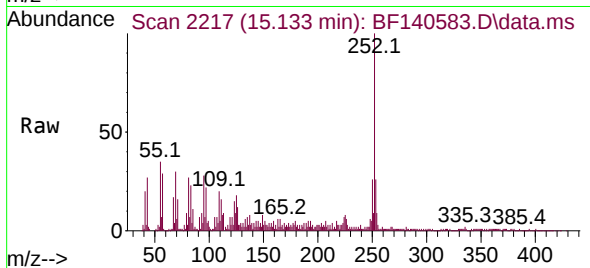
253 26.3 17.2 25.8

125 17.5 6.7 10.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024



#89

Benzo(k)fluoranthene

Concen: 12.979 ng m

RT: 15.145 min Scan# 2219

Delta R.T. 0.012 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

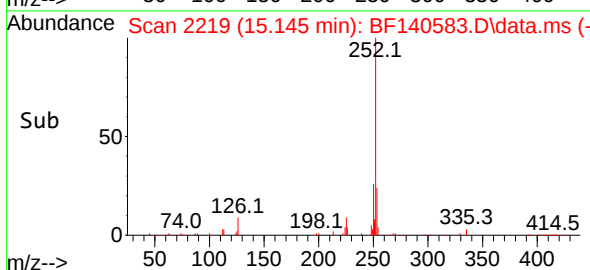
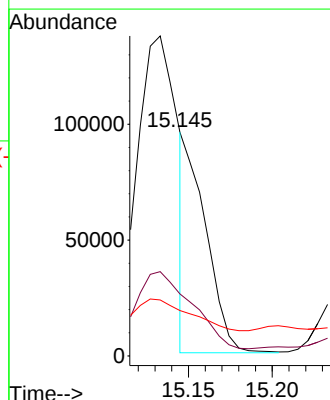
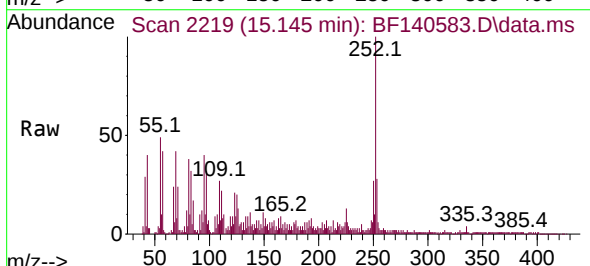
Tgt Ion:252 Resp: 81989

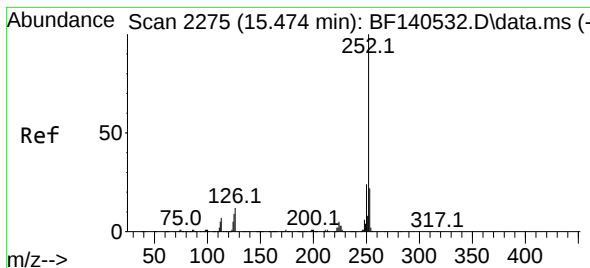
Ion Ratio Lower Upper

252 100

253 27.7 17.5 26.3#

125 20.3 6.5 9.7#





#90

Benzo(a)pyrene

Concen: 23.777 ng

RT: 15.498 min Scan# 21

Delta R.T. 0.023 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

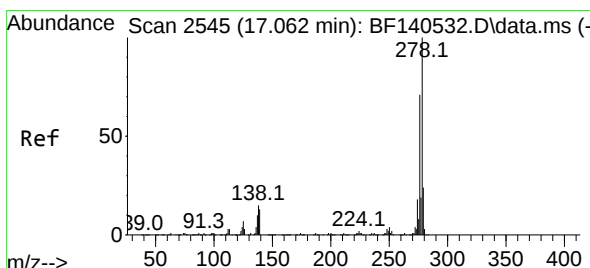
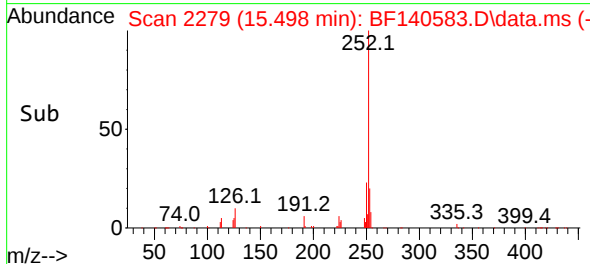
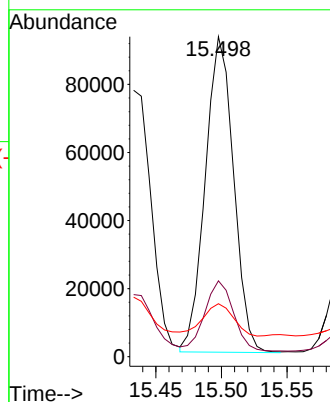
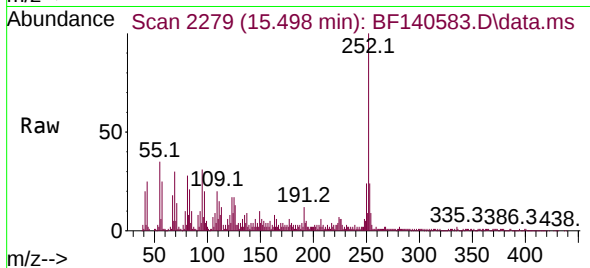
72-11944

Tgt Ion:252 Resp: 13955  
 Ion Ratio Lower Upper  
 252 100  
 253 23.7 17.3 25.9  
 125 16.6 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2024  
 Supervised By :mohammad ahmed 11/27/2024



#91

Dibenzo(a,h)anthracene

Concen: 4.112 ng

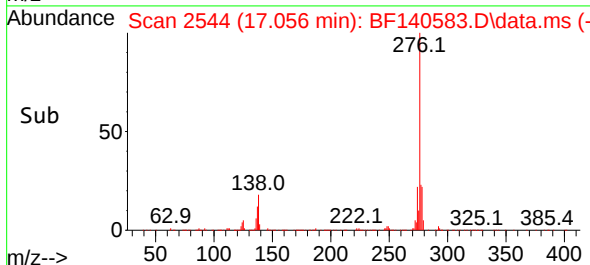
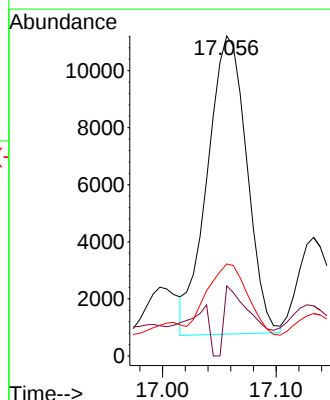
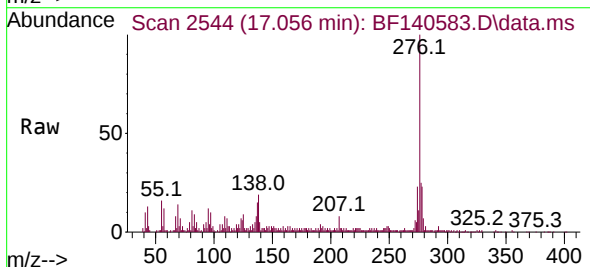
RT: 17.056 min Scan# 2544

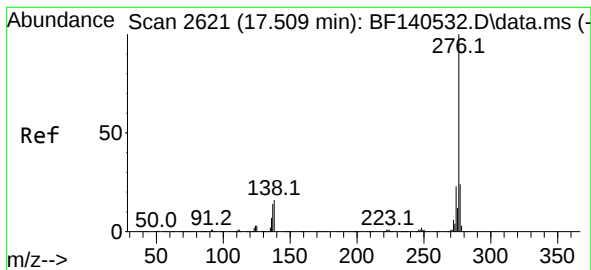
Delta R.T. -0.006 min

Lab File: BF140583.D

Acq: 22 Nov 2024 17:43

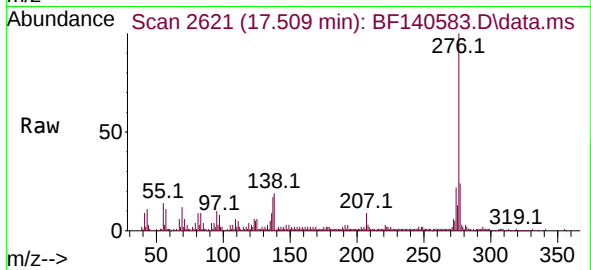
Tgt Ion:278 Resp: 25223  
 Ion Ratio Lower Upper  
 278 100  
 139 21.9 10.2 15.4#  
 279 28.8 18.9 28.3#





#92  
Benzo(g,h,i)perylene  
Concen: 15.740 ng  
RT: 17.509 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: BF140583.D  
Acq: 22 Nov 2024 17:43

Instrument :  
BNA\_F  
ClientSampleId :  
72-11944



Tgt Ion:276 Resp: 98519  
Ion Ratio Lower Upper  
276 100  
277 23.7 18.9 28.3  
138 19.0 13.2 19.8

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2024  
Supervised By :mohammad ahmed 11/27/2024

