

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080525\  
 Data File : BF143312.D  
 Acq On : 05 Aug 2025 13:30  
 Operator : RC/JU  
 Sample : Q2747-09  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OU4-TS-GRILLO-TSCP02-073125

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 08/06/2025  
 Supervised By :Jagrut Upadhyay 08/06/2025

Quant Time: Aug 05 13:54:13 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF071725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 17 15:14:05 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.963  | 152  | 129316   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.245  | 136  | 477216   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.998  | 164  | 212288   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.486 | 188  | 302538   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.127 | 240  | 244611   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.639 | 264  | 192344   | 20.000 | ng    | 0.02     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.598  | 112  | 653373   | 79.954 | ng    | 0.01     |
| 7) Phenol-d6                | 6.593  | 99   | 831785   | 80.868 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.516  | 82   | 531378   | 55.504 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.786 | 330  | 158483   | 72.266 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.316  | 172  | 890280   | 57.355 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.069 | 244  | 692861   | 42.151 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 75) Fluoranthene            | 12.698 | 202  | 80151    | 5.436  | ng    | 97       |
| 78) Pyrene                  | 12.927 | 202  | 70286    | 3.367  | ng    | 97       |
| 81) Benzo(a)anthracene      | 14.116 | 228  | 50916    | 3.109  | ng    | # 91     |
| 83) Chrysene                | 14.151 | 228  | 61539    | 4.179  | ng    | # 93     |
| 87) Indeno(1,2,3-cd)pyrene  | 17.180 | 276  | 29680    | 2.188  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.192 | 252  | 81628m   | 6.947  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.210 | 252  | 24738m   | 2.359  | ng    |          |
| 90) Benzo(a)pyrene          | 15.574 | 252  | 41615    | 3.844  | ng    | # 88     |
| 92) Benzo(g,h,i)perylene    | 17.651 | 276  | 28445    | 2.664  | ng    | # 87     |
| -----                       |        |      |          |        |       |          |

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

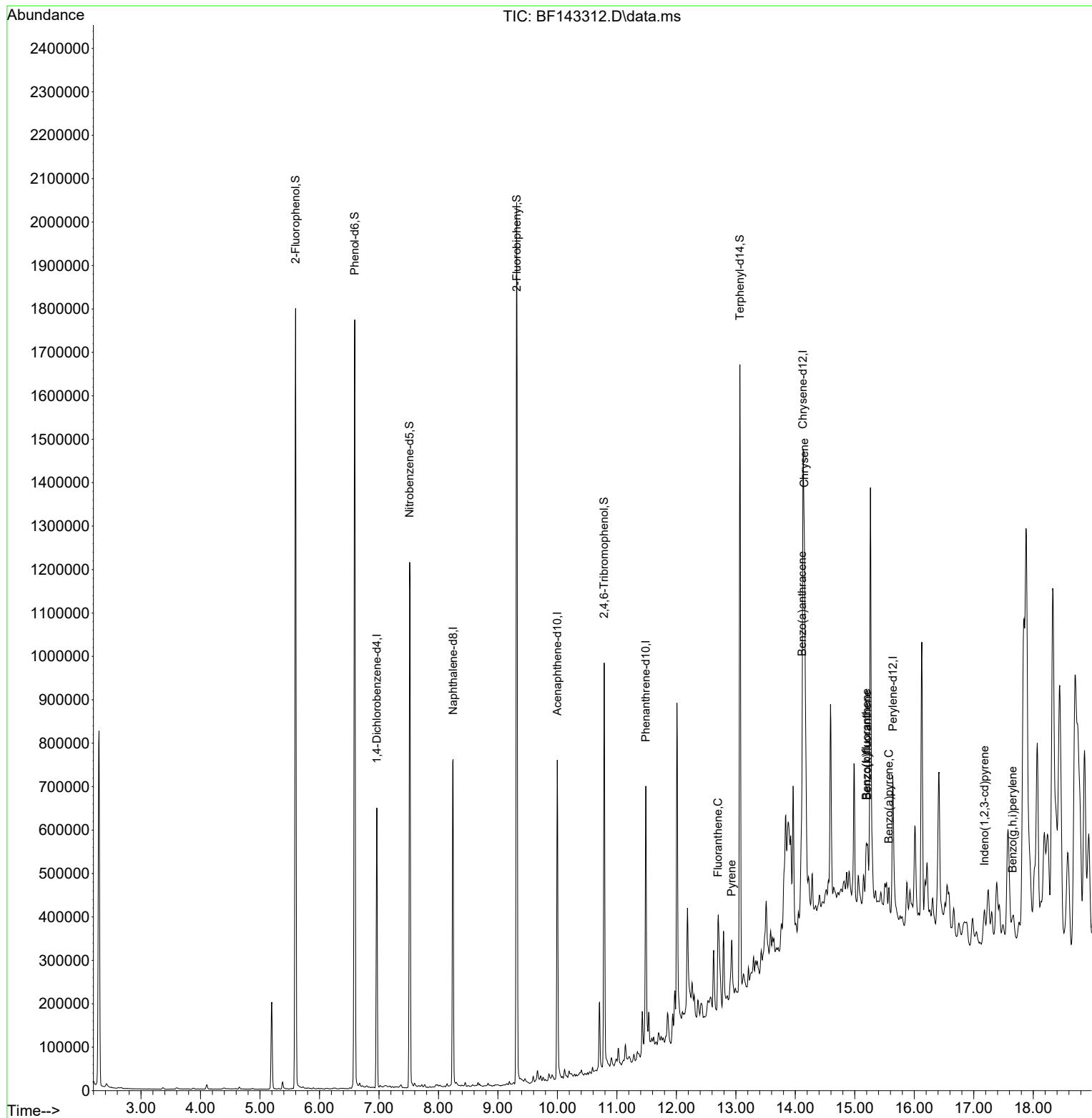
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080525\  
Data File : BF143312.D  
Acq On : 05 Aug 2025 13:30  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF071725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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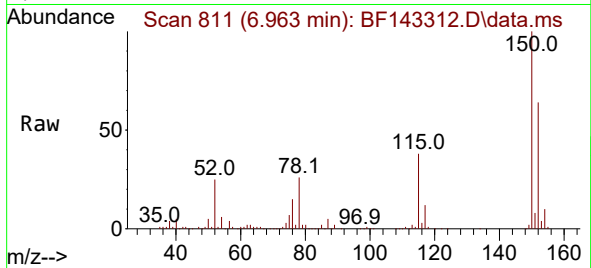
Reviewed By :Rahul Chavli 08/06/2025  
Supervised By :Jagrut Upadhyay 08/06/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.963 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: BF143312.D  
Acq: 05 Aug 2025 13:30

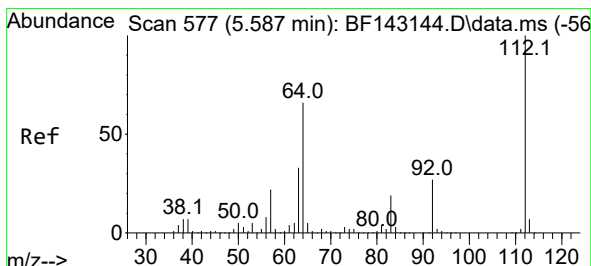
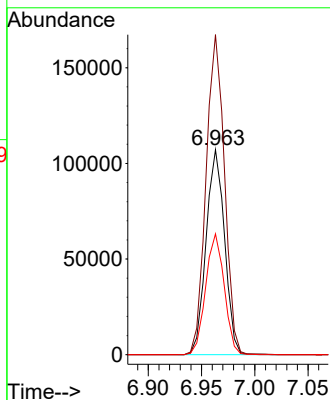
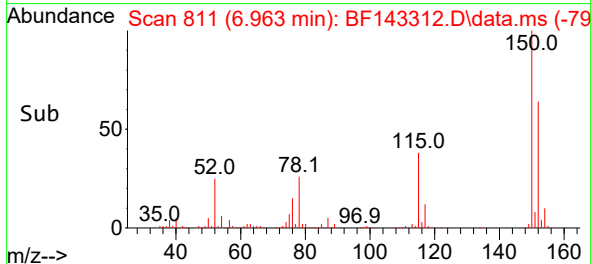
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP02-073125



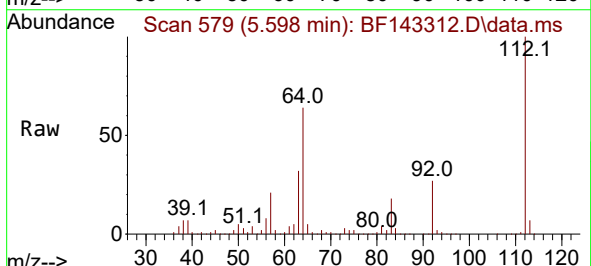
Tgt Ion:152 Resp: 129310  
Ion Ratio Lower Upper  
152 100  
150 156.1 128.2 192.4  
115 58.9 47.9 71.9

Manual Integrations  
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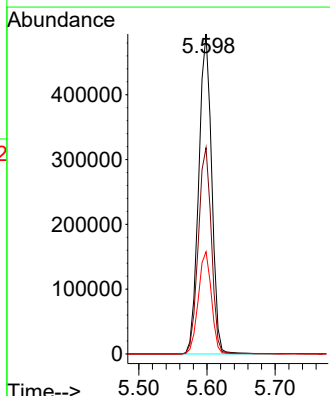
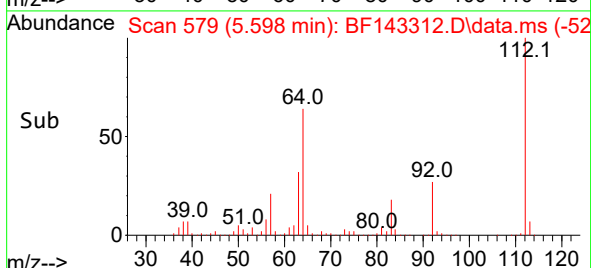
Reviewed By :Rahul Chavli 08/06/2025  
Supervised By :Jagrut Upadhyay 08/06/2025

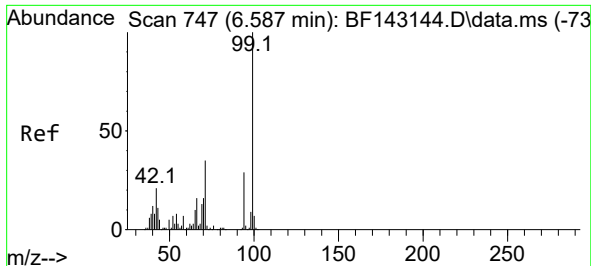


#5  
2-Fluorophenol  
Concen: 79.954 ng  
RT: 5.598 min Scan# 579  
Delta R.T. 0.012 min  
Lab File: BF143312.D  
Acq: 05 Aug 2025 13:30



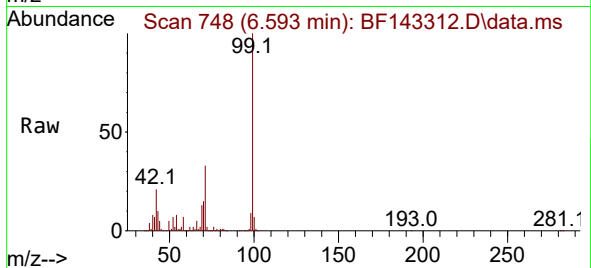
Tgt Ion:112 Resp: 653373  
Ion Ratio Lower Upper  
112 100  
64 64.4 53.1 79.7  
63 32.0 26.6 40.0





#7  
Phenol-d6  
Concen: 80.868 ng  
RT: 6.593 min Scan# 747  
Delta R.T. 0.006 min  
Lab File: BF143312.D  
Acq: 05 Aug 2025 13:30

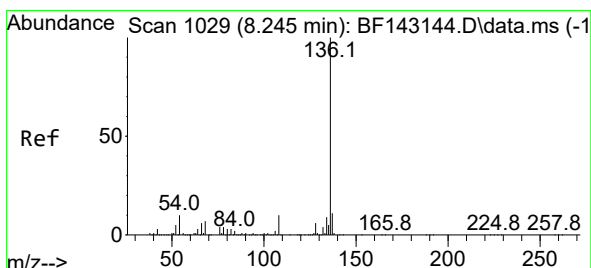
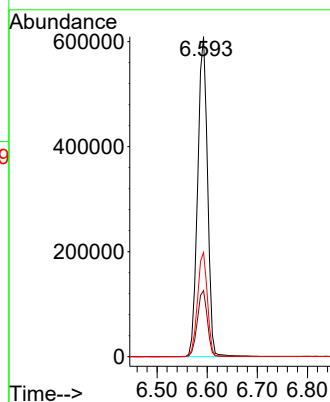
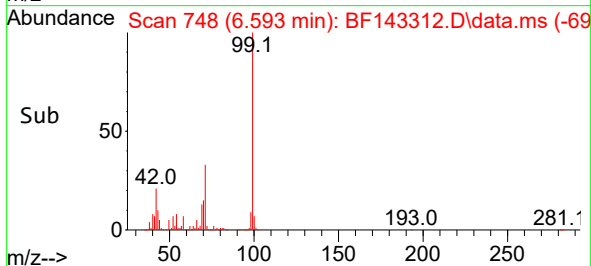
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-GRILLO-TSCP02-073125



Tgt Ion: 99 Resp: 831785  
Ion Ratio Lower Upper  
99 100  
42 20.6 17.0 25.6  
71 32.6 27.7 41.5

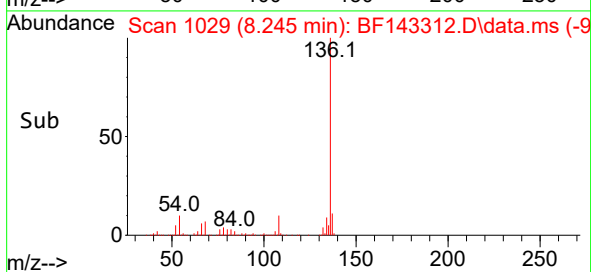
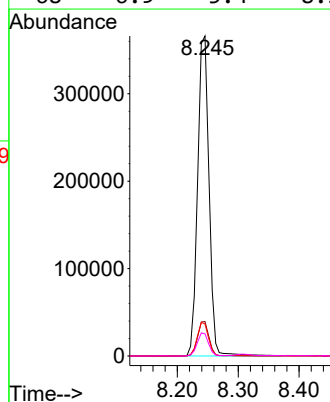
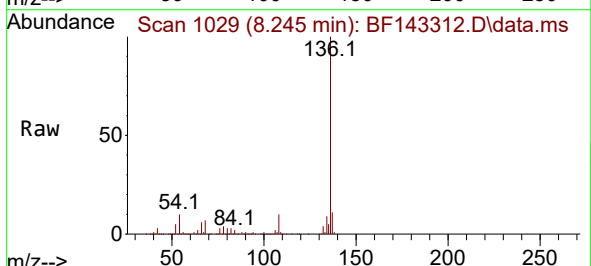
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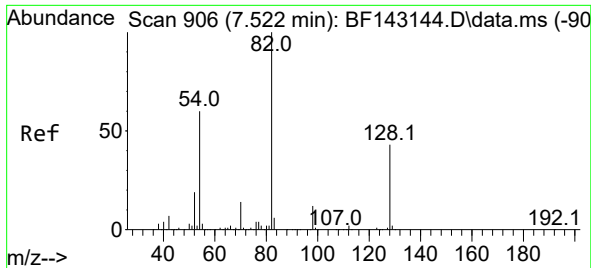
Reviewed By :Rahul Chavli 08/06/2025  
Supervised By :Jagrut Upadhyay 08/06/2025



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.245 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: BF143312.D  
Acq: 05 Aug 2025 13:30

Tgt Ion:136 Resp: 477216  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.6 13.0  
54 10.0 8.2 12.2  
68 6.9 5.4 8.2





#23

Nitrobenzene-d5

Concen: 55.504 ng

RT: 7.516 min Scan# 906

Delta R.T. -0.006 min

Lab File: BF143312.D

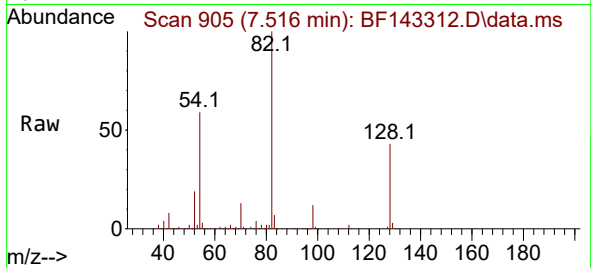
Acq: 05 Aug 2025 13:30

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP02-073125



Tgt Ion: 82 Resp: 531378

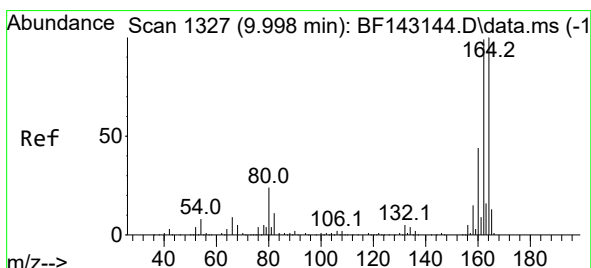
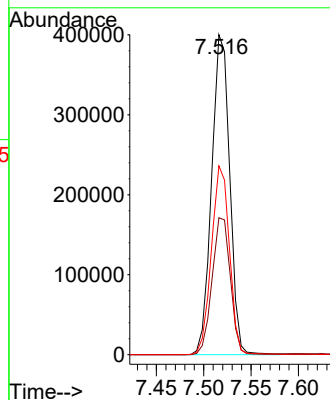
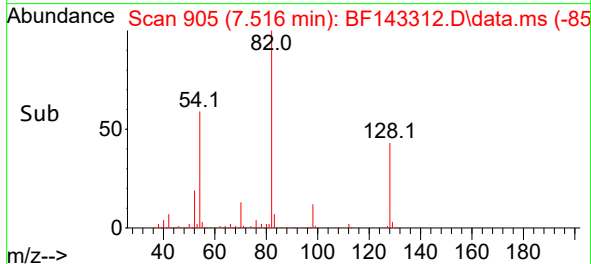
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 42.8  | 33.6  | 50.4  |
| 54  | 59.0  | 47.1  | 70.7  |

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/06/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.998 min Scan# 1327

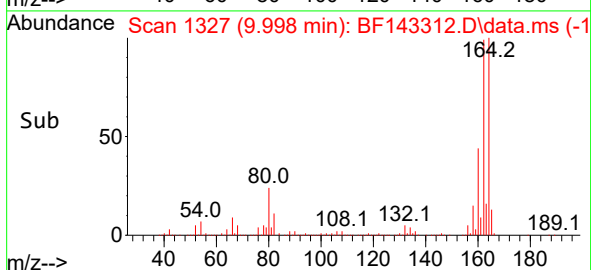
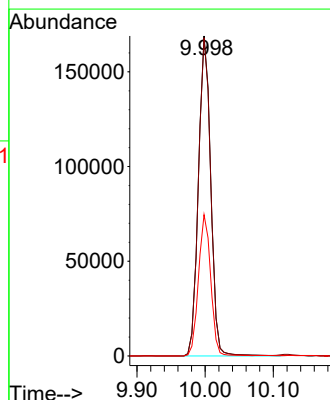
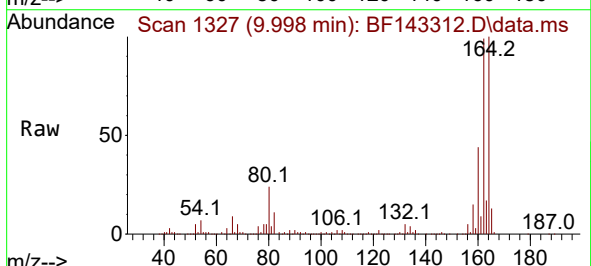
Delta R.T. 0.000 min

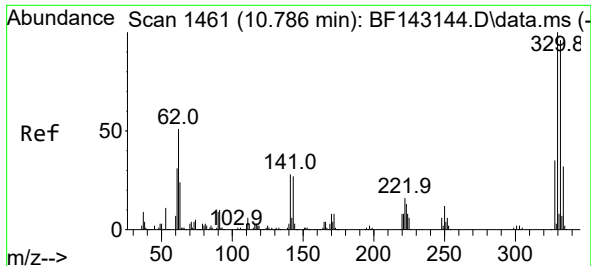
Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

Tgt Ion:164 Resp: 212288

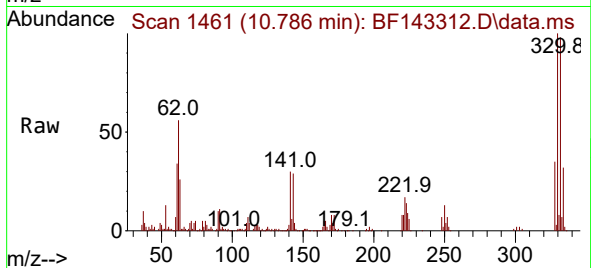
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 99.5  | 79.0  | 118.6 |
| 160 | 44.1  | 35.1  | 52.7  |





#42  
2,4,6-Tribromophenol  
Concen: 72.266 ng  
RT: 10.786 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BF143312.D  
Acq: 05 Aug 2025 13:30

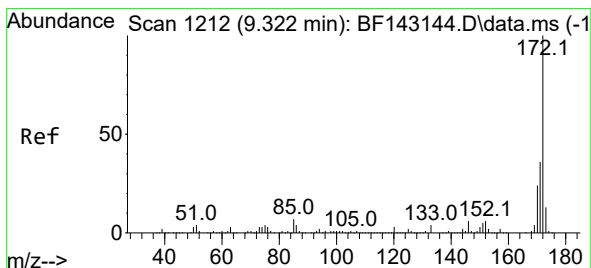
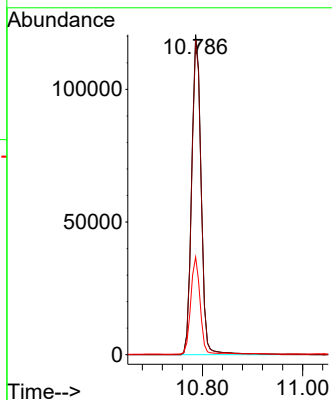
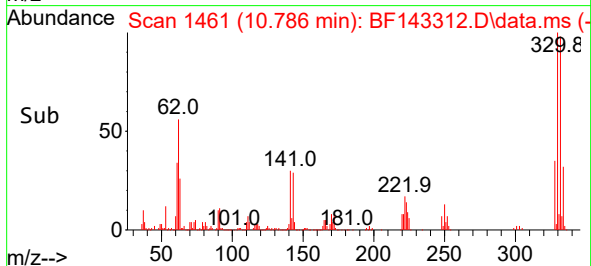
Instrument :  
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OU4-TS-GRILLO-TSCP02-073125



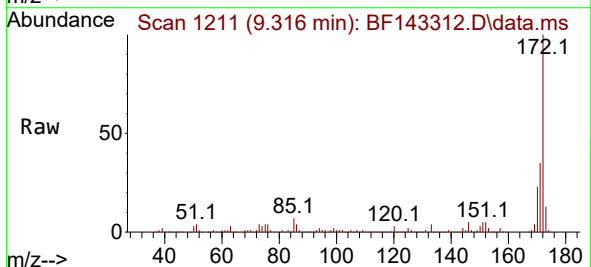
Tgt Ion: 330 Resp: 15848  
Ion Ratio Lower Upper  
330 100  
332 98.1 76.7 115.1  
141 29.7 23.3 34.9

Manual Integrations  
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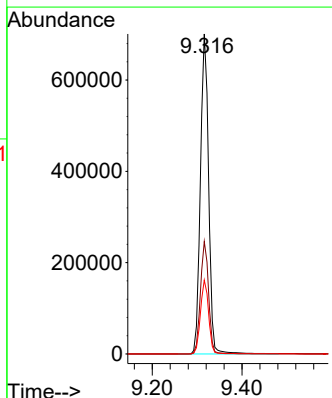
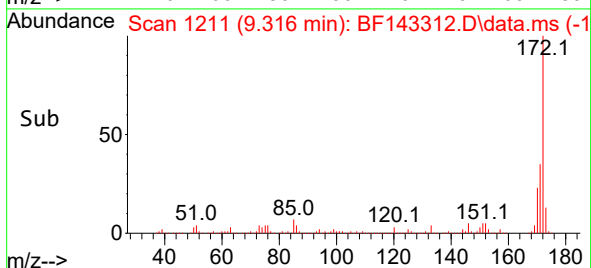
Reviewed By :Rahul Chavli 08/06/2025  
Supervised By :Jagrut Upadhyay 08/06/2025

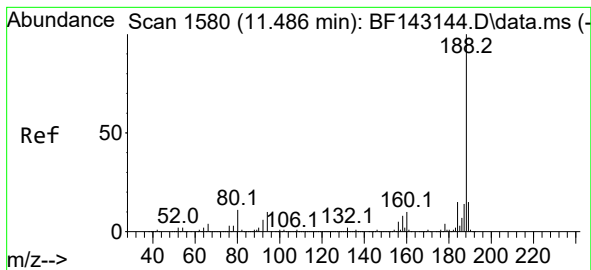


#45  
2-Fluorobiphenyl  
Concen: 57.355 ng  
RT: 9.316 min Scan# 1211  
Delta R.T. -0.006 min  
Lab File: BF143312.D  
Acq: 05 Aug 2025 13:30



Tgt Ion: 172 Resp: 890280  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.6 42.8  
170 23.1 18.8 28.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.486 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP02-073125

Tgt Ion:188 Resp: 302538

Ion Ratio Lower Upper

188 100

94 10.9 8.3 12.5

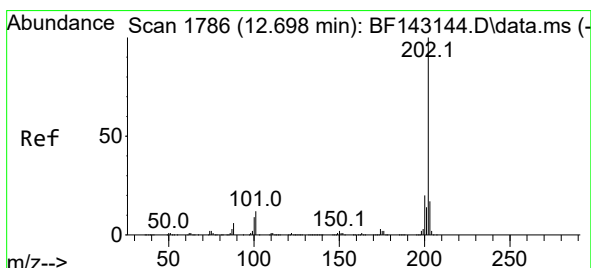
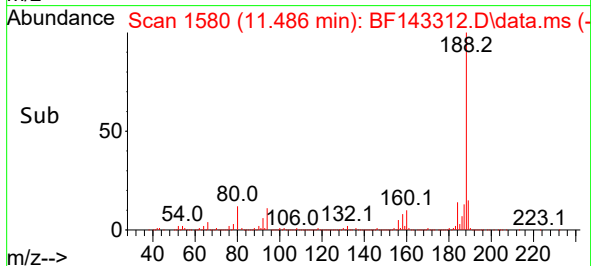
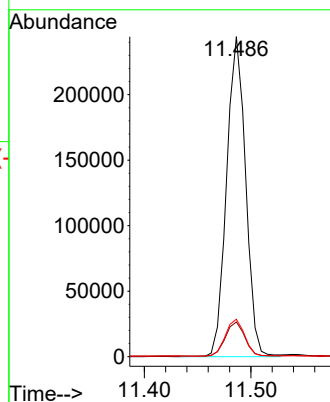
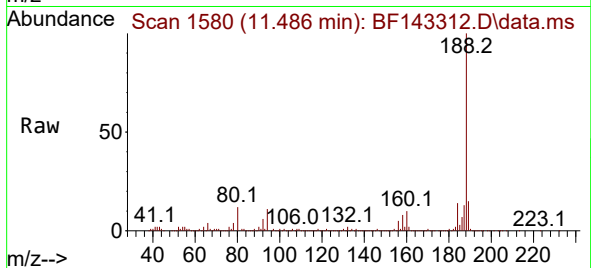
80 11.7 9.0 13.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/06/2025



#75

Fluoranthene

Concen: 5.436 ng

RT: 12.698 min Scan# 1786

Delta R.T. 0.000 min

Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

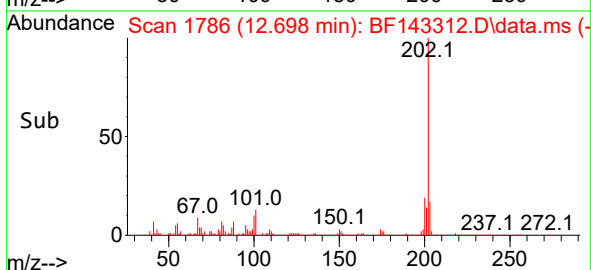
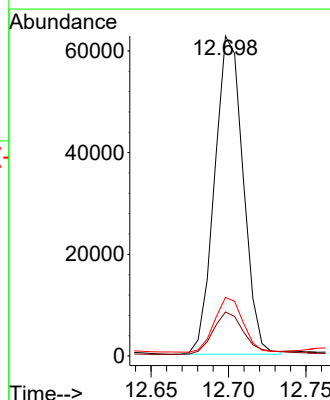
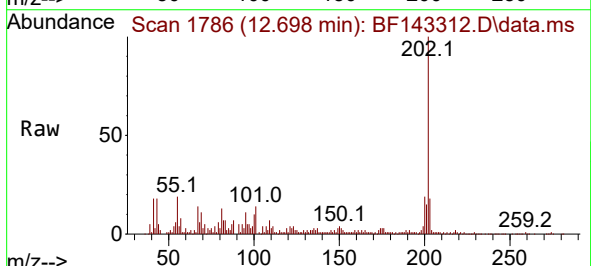
Tgt Ion:202 Resp: 80151

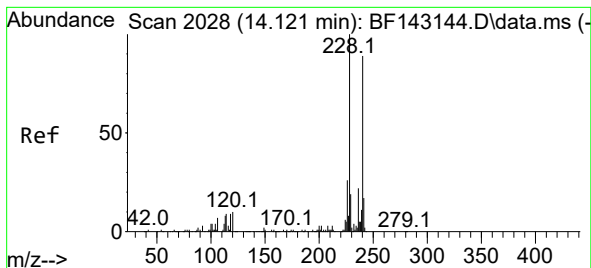
Ion Ratio Lower Upper

202 100

101 13.7 0.0 31.7

203 18.3 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.127 min Scan# 2028

Delta R.T. 0.006 min

Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

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ClientSampleId :

OU4-TS-GRILLO-TSCP02-073125

Tgt Ion:240 Resp: 24461

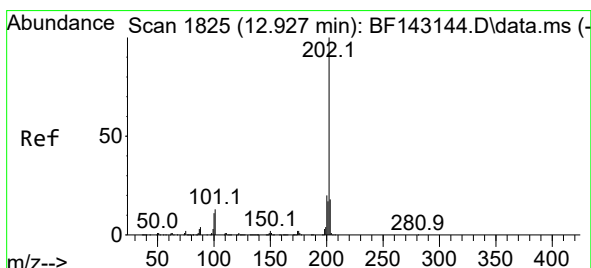
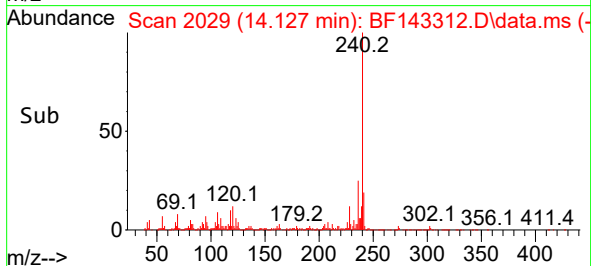
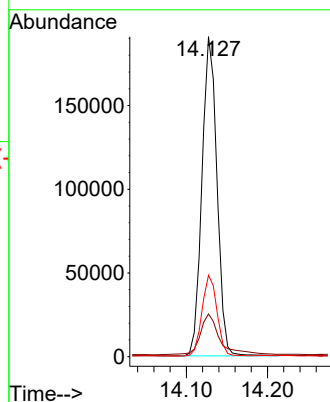
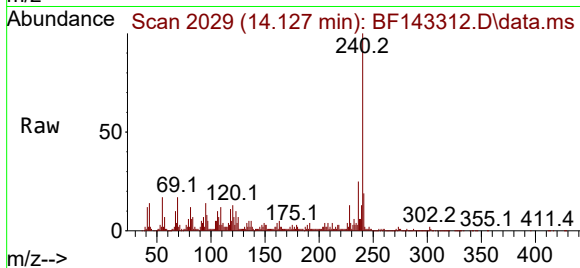
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 13.4  | 9.4   | 14.2  |
| 236 | 25.5  | 20.2  | 30.4  |

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/06/2025



#78

Pyrene

Concen: 3.367 ng

RT: 12.927 min Scan# 1825

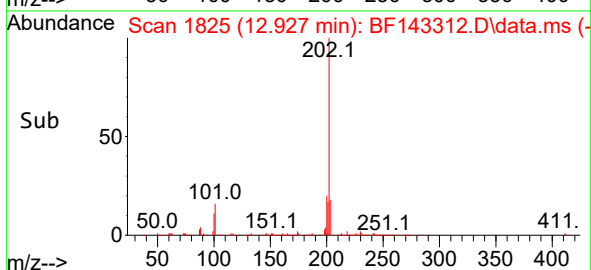
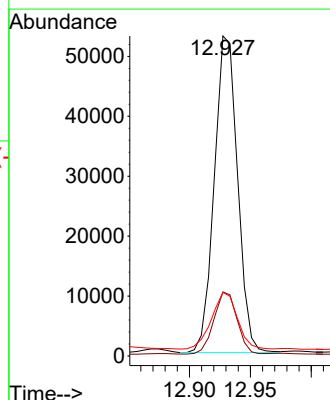
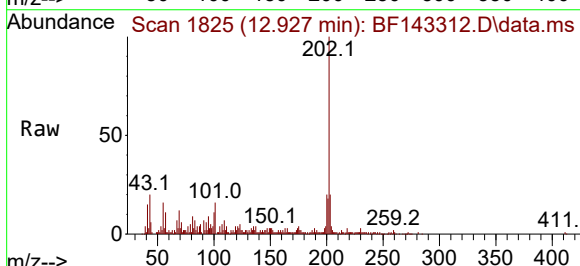
Delta R.T. 0.000 min

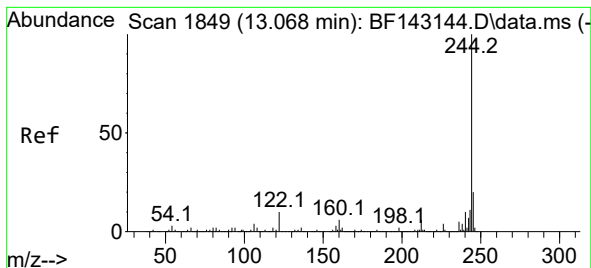
Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

Tgt Ion:202 Resp: 70286

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 20.0  | 15.7  | 23.5  |
| 203 | 19.9  | 14.2  | 21.2  |





#79

Terphenyl-d14

Concen: 42.151 ng

RT: 13.069 min Scan# 1849

Delta R.T. 0.000 min

Lab File: BF143312.D

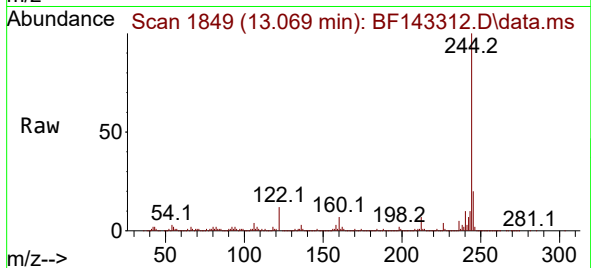
Acq: 05 Aug 2025 13:30

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP02-073125



Tgt Ion:244 Resp: 69286

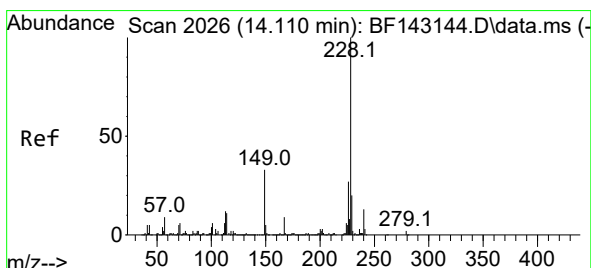
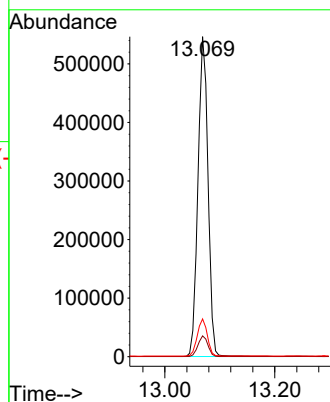
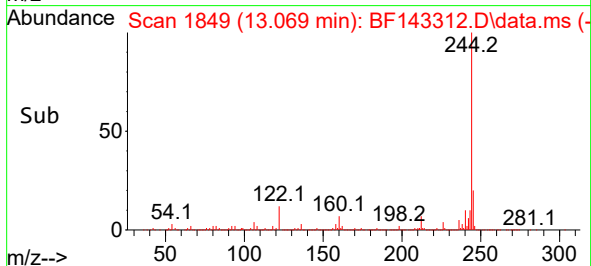
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.5   | 5.2   | 7.8   |
| 122 | 11.8  | 8.2   | 12.2  |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/06/2025

Supervised By :Jagrut Upadhyay 08/06/2025



#81

Benzo(a)anthracene

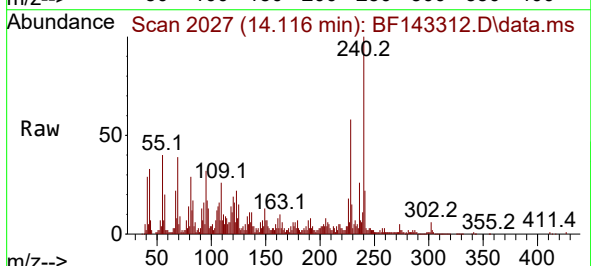
Concen: 3.109 ng

RT: 14.116 min Scan# 2027

Delta R.T. 0.006 min

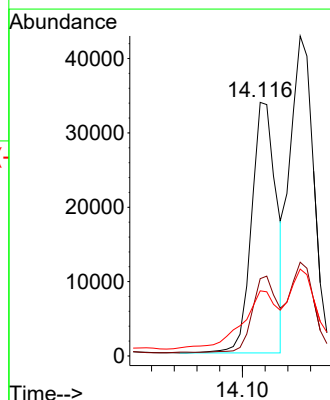
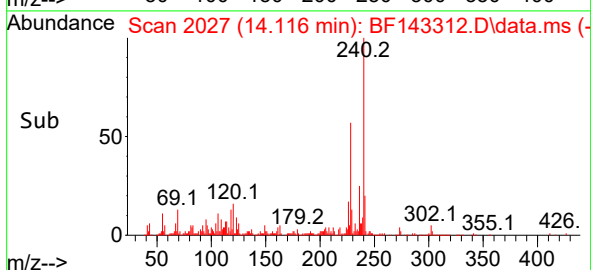
Lab File: BF143312.D

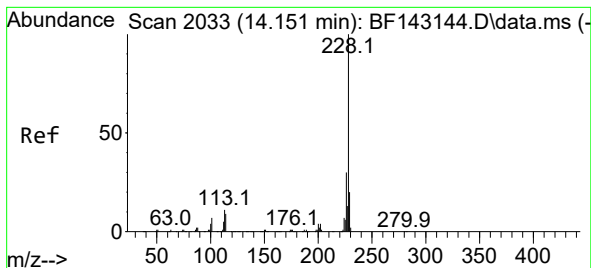
Acq: 05 Aug 2025 13:30



Tgt Ion:228 Resp: 50916

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.5  | 21.7  | 32.5  |
| 229 | 25.7  | 15.8  | 23.6  |





#83

Chrysene

Concen: 4.179 ng

RT: 14.151 min Scan# 2033

Delta R.T. 0.000 min

Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP02-073125

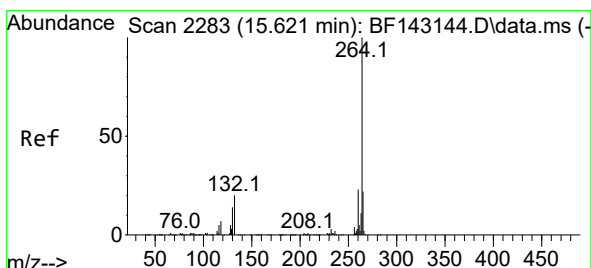
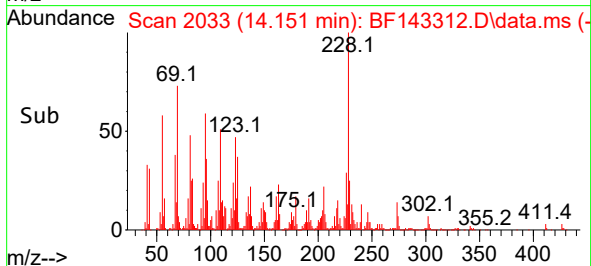
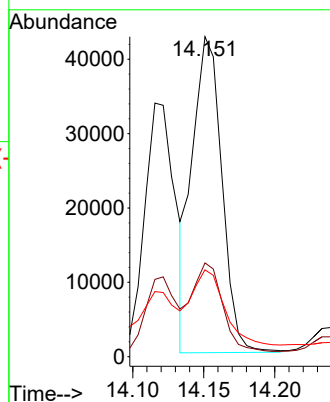
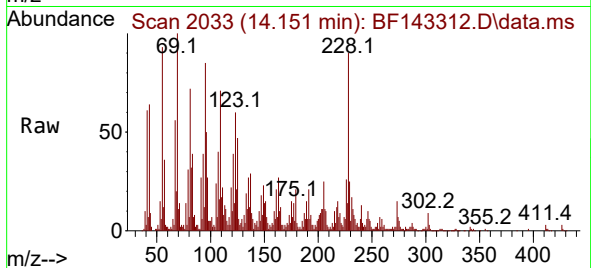
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 61539 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.3  | 23.8  | 35.8  |
| 229       | 27.2  | 15.6  | 23.4  |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/06/2025

Supervised By :Jagrut Upadhyay 08/06/2025



#86

Perylene-d12

Concen: 20.000 ng

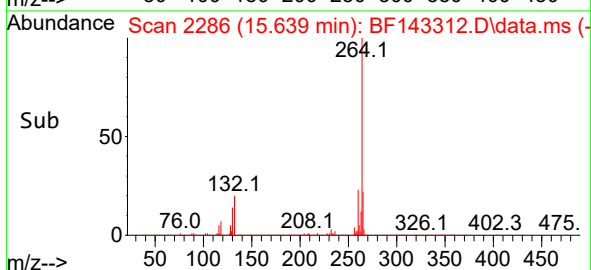
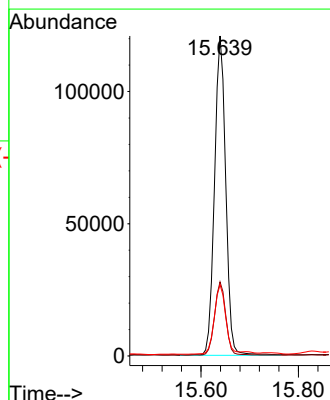
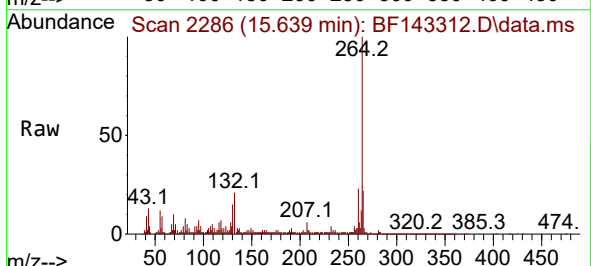
RT: 15.639 min Scan# 2286

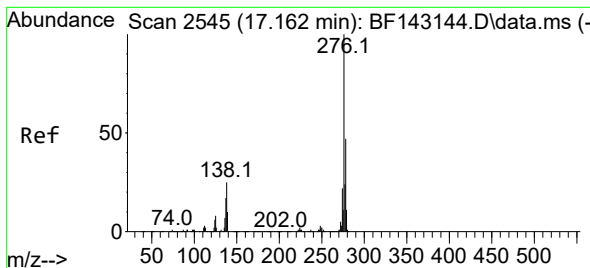
Delta R.T. 0.018 min

Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 192344 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.2  | 18.5  | 27.7   |
| 265       | 22.2  | 17.4  | 26.2   |





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.188 ng

RT: 17.180 min Scan# 2110

Delta R.T. 0.018 min

Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP02-073125

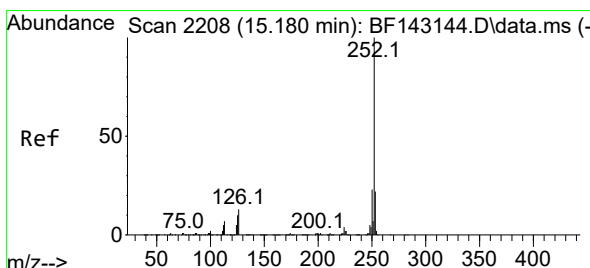
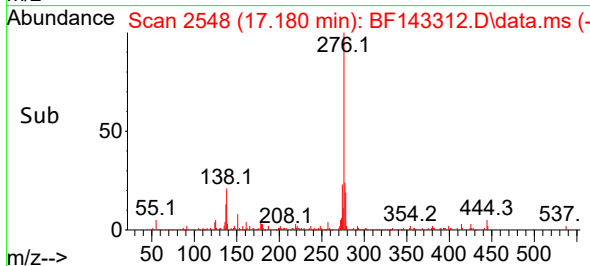
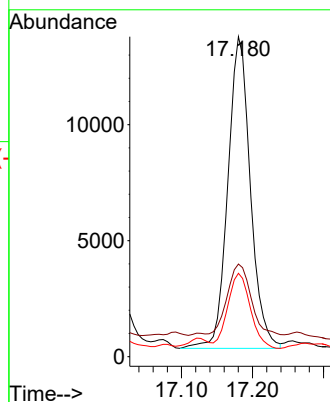
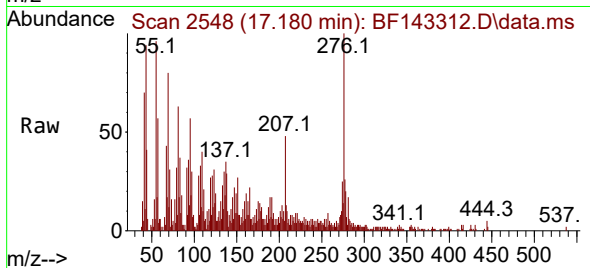
Tgt Ion:276 Resp: 29680  
 Ion Ratio Lower Upper  
 276 100  
 138 23.5 21.8 32.6  
 277 24.1 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/06/2025

Supervised By :Jagrut Upadhyay 08/06/2025



#88

Benzo(b)fluoranthene

Concen: 6.947 ng m

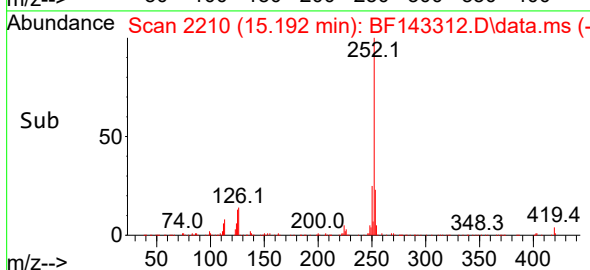
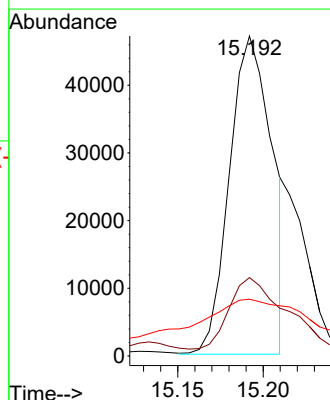
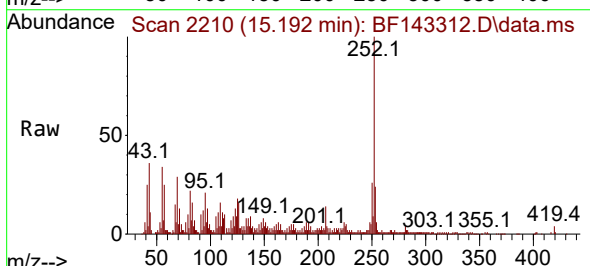
RT: 15.192 min Scan# 2210

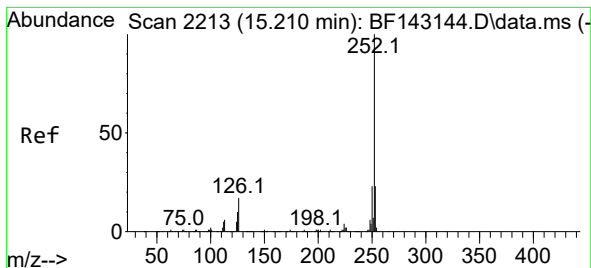
Delta R.T. 0.012 min

Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

Tgt Ion:252 Resp: 81628  
 Ion Ratio Lower Upper  
 252 100  
 253 24.5 17.5 26.3  
 125 17.8 8.0 12.0#





#89

Benzo(k)fluoranthene

Concen: 2.359 ng m

RT: 15.210 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-GRILLO-TSCP02-073125

Tgt Ion:252 Resp: 24738

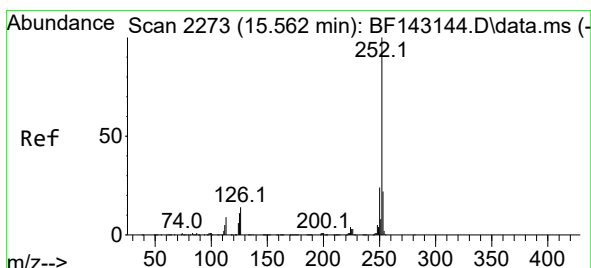
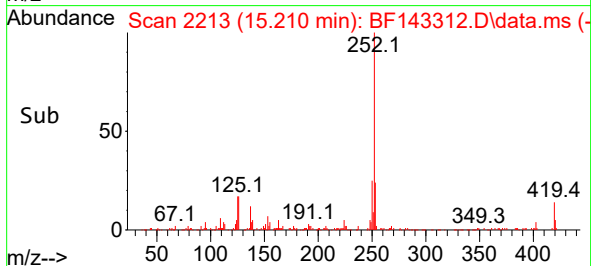
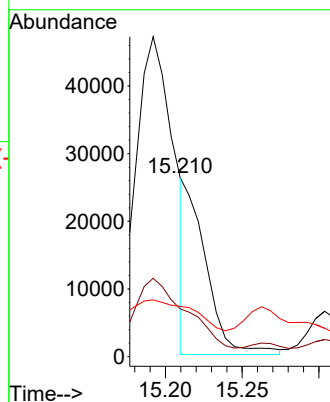
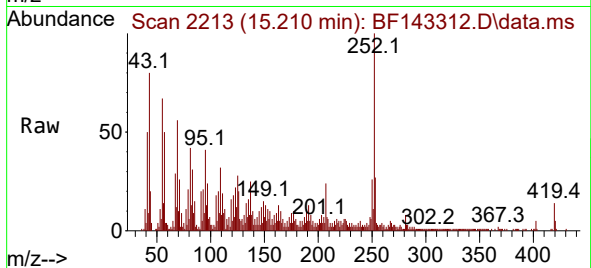
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 26.7  | 17.8  | 26.6  |
| 125 | 28.0  | 8.1   | 12.1  |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/06/2025

Supervised By :Jagrut Upadhyay 08/06/2025



#90

Benzo(a)pyrene

Concen: 3.844 ng

RT: 15.574 min Scan# 2275

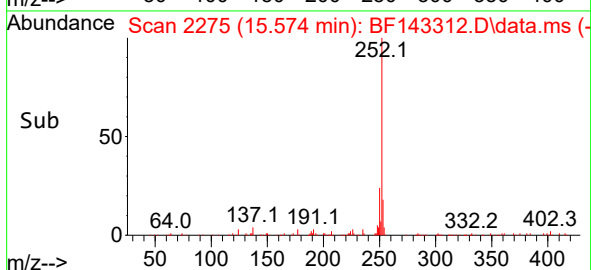
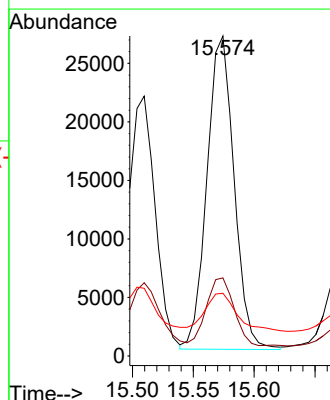
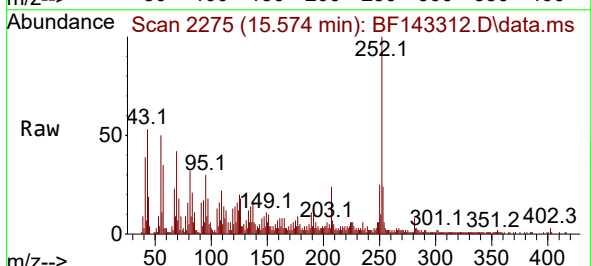
Delta R.T. 0.012 min

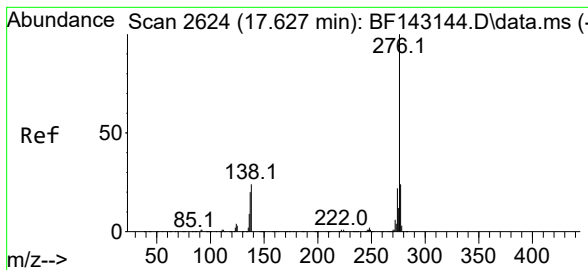
Lab File: BF143312.D

Acq: 05 Aug 2025 13:30

Tgt Ion:252 Resp: 41615

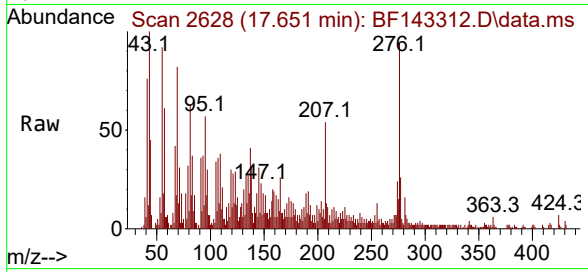
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.4  | 17.3  | 25.9  |
| 125 | 19.6  | 8.6   | 13.0  |





#92  
 Benzo(g,h,i)perylene  
 Concen: 2.664 ng  
 RT: 17.651 min Scan# 20  
 Delta R.T. 0.024 min  
 Lab File: BF143312.D  
 Acq: 05 Aug 2025 13:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OU4-TS-GRILLO-TSCP02-073125



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 2844 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 27.7  | 19.1  | 28.7 |
| 138       | 32.8  | 18.9  | 28.3 |

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 08/06/2025  
 Supervised By :Jagrut Upadhyay 08/06/2025

