

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031725\  
 Data File : BF141978.D  
 Acq On : 17 Mar 2025 13:31  
 Operator : RC/JU  
 Sample : Q1574-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC1

Manual Integrations  
 APPROVED

Reviewed By :Anahy Claudio 03/18/2025  
 Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 17 14:08:53 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 10 15:46:22 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| -----                         |        |      |          |          |       |          |
| Internal Standards            |        |      |          |          |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 93840    | 20.000   | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.163  | 136  | 333156   | 20.000   | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.916  | 164  | 160861   | 20.000   | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.398 | 188  | 277799   | 20.000   | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 168140   | 20.000   | ng    | # 0.02   |
| 86) Perylene-d12              | 15.621 | 264  | 28230m   | 20.000   | ng    | 0.11     |
|                               |        |      |          |          |       |          |
| System Monitoring Compounds   |        |      |          |          |       |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 230488   | 40.993   | ng    | 0.00     |
| 7) Phenol-d6                  | 6.498  | 99   | 272882   | 38.118   | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 177200   | 29.932   | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.698 | 330  | 81018    | 39.700   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.233  | 172  | 349958   | 33.086   | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.992 | 244  | 406420   | 35.736   | ng    | 0.00     |
|                               |        |      |          |          |       |          |
| Target Compounds              |        |      |          |          |       | Qvalue   |
| 9) Benzaldehyde               | 6.428  | 77   | 8693     | 2.171    | ng    | 95       |
| 22) Acetophenone              | 7.281  | 105  | 30737    | 3.853    | ng    | # 96     |
| 32) Benzoic acid              | 7.857  | 122  | 12349m   | 3.532    | ng    |          |
| 56) 4-Nitrophenol             | 10.028 | 139  | 3889     | 2.168    | ng    | # 81     |
| 57) 2,4-Dinitrotoluene        | 10.092 | 165  | 8076     | 2.636    | ng    | # 95     |
| 71) Phenanthrene              | 11.422 | 178  | 266581   | 17.766   | ng    | 99       |
| 75) Fluoranthene              | 12.616 | 202  | 427469   | 26.857   | ng    | 98       |
| 78) Pyrene                    | 12.845 | 202  | 322749   | 22.191   | ng    | 96       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 86990    | 7.884    | ng    | # 86     |
| 83) Chrysene                  | 14.080 | 228  | 200833   | 20.080   | ng    | # 94     |
| 84) Bis(2-ethylhexyl)phtha... | 14.051 | 149  | 8293275  | 1056.606 | ng    | # 87     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.115 | 276  | 54302    | 29.736   | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.121 | 252  | 141065m  | 72.911   | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.139 | 252  | 56994m   | 34.423   | ng    |          |
| 92) Benzo(g,h,i)perylene      | 17.562 | 276  | 52058    | 34.963   | ng    | # 82     |
| -----                         |        |      |          |          |       |          |

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

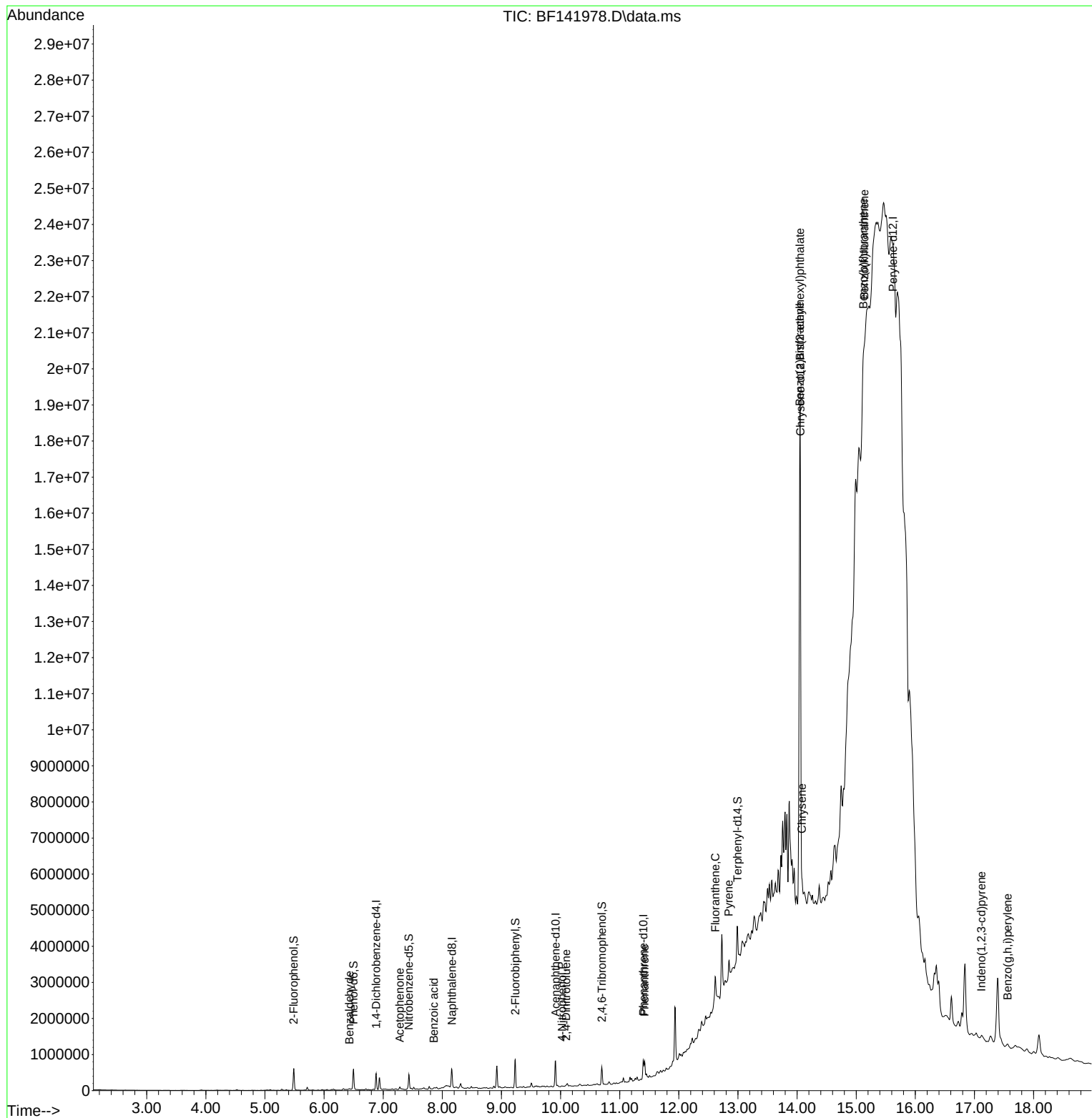
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031725\  
Data File : BF141978.D  
Acq On : 17 Mar 2025 13:31  
Operator : RC/JU  
Sample : Q1574-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

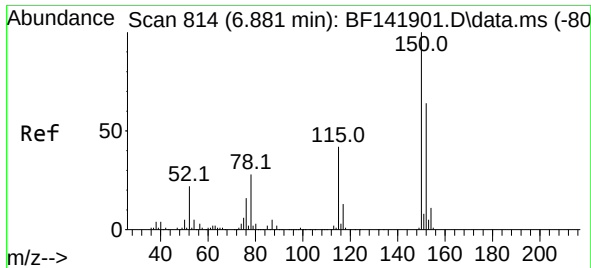
Instrument :  
BNA\_F  
ClientSampleId :  
WC1

Quant Time: Mar 17 14:08:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 10 15:46:22 2025  
Response via : Initial Calibration

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Supervised By :Jagrut Upadhyay 03/18/2025





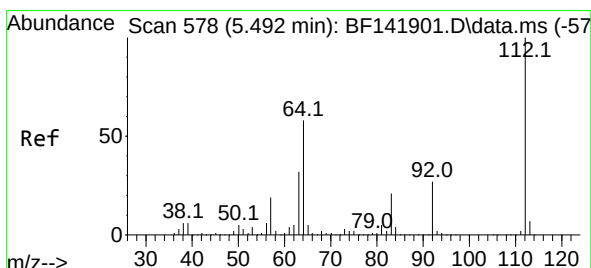
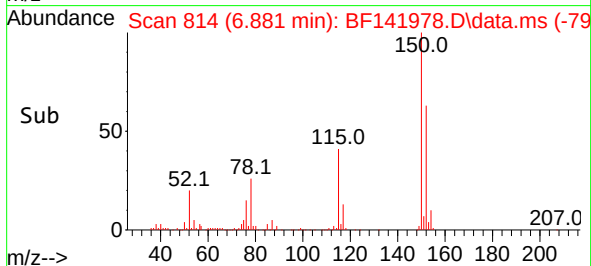
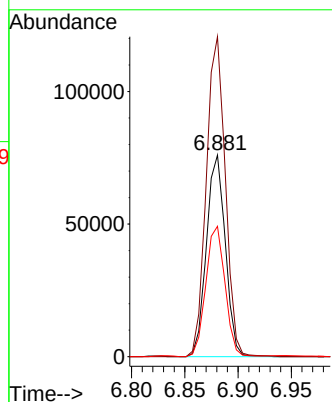
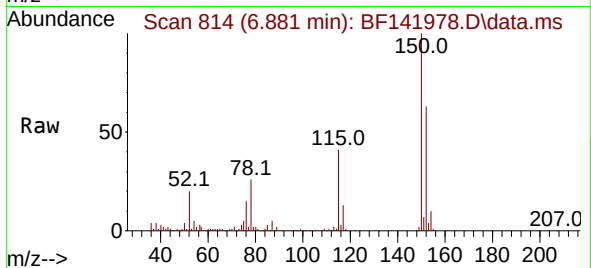
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 814  
Delta R.T. -0.000 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

Instrument :  
BNA\_F  
ClientSampleId :  
WC1

Tgt Ion:152 Resp: 93840  
Ion Ratio Lower Upper  
152 100  
150 158.8 127.4 191.2  
115 64.7 51.9 77.9

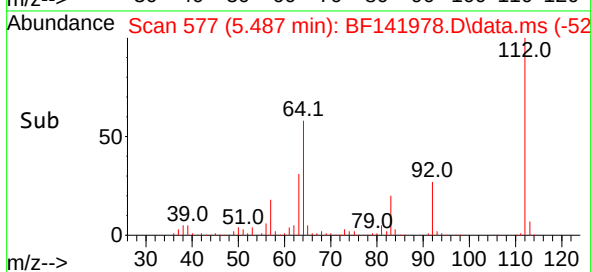
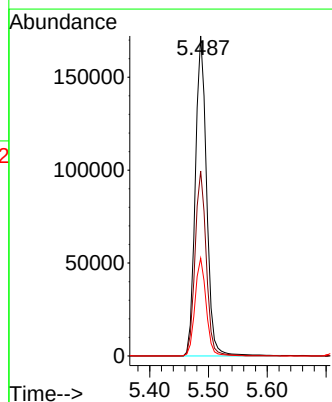
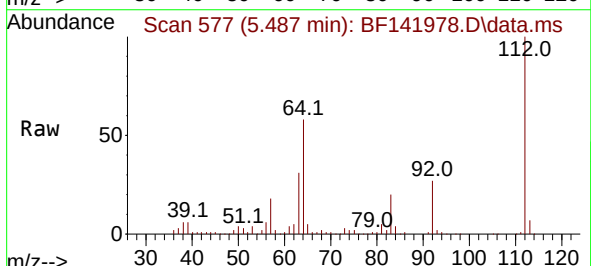
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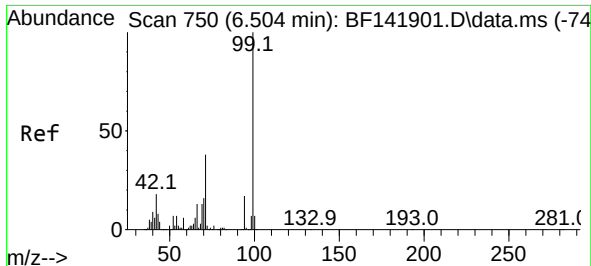
Reviewed By :Anahy Claudio 03/18/2025  
Supervised By :Jagrut Upadhyay 03/18/2025



#5  
2-Fluorophenol  
Concen: 40.993 ng  
RT: 5.487 min Scan# 577  
Delta R.T. -0.006 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

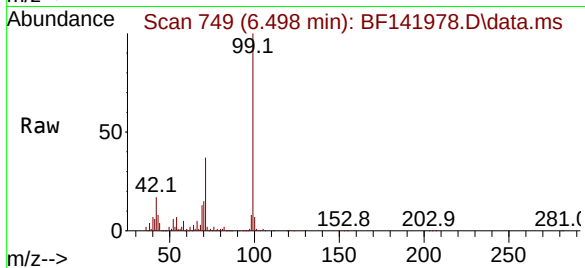
Tgt Ion:112 Resp: 230488  
Ion Ratio Lower Upper  
112 100  
64 57.8 46.5 69.7  
63 30.5 25.4 38.2





#7  
Phenol-d6  
Concen: 38.118 ng  
RT: 6.498 min Scan# 749  
Delta R.T. -0.006 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

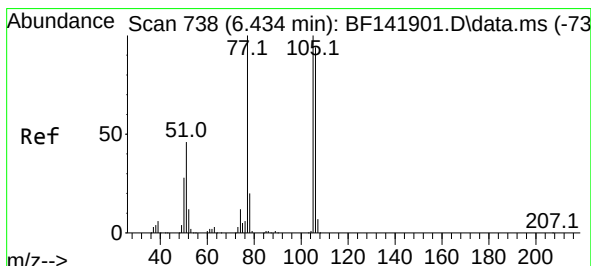
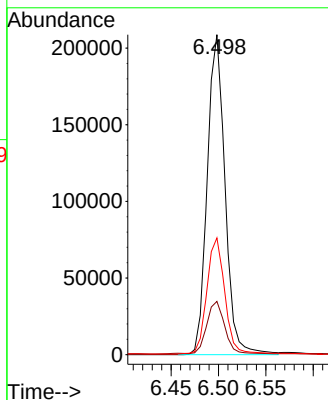
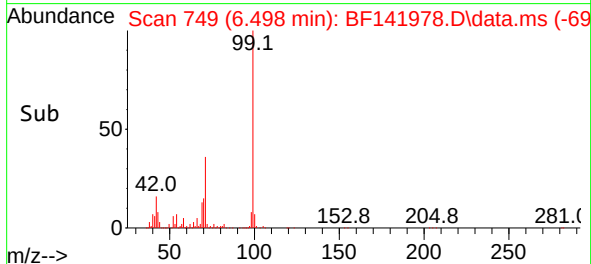
Instrument :  
BNA\_F  
ClientSampleId :  
WC1



Tgt Ion: 99 Resp: 27288  
Ion Ratio Lower Upper  
99 100  
42 16.6 14.6 21.8  
71 36.5 30.8 46.2

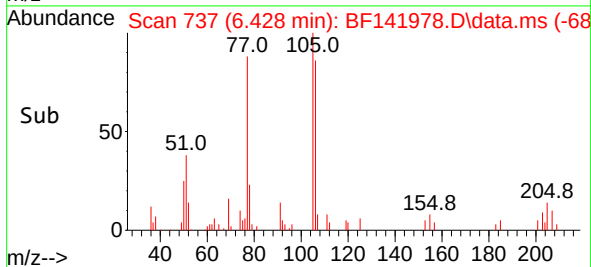
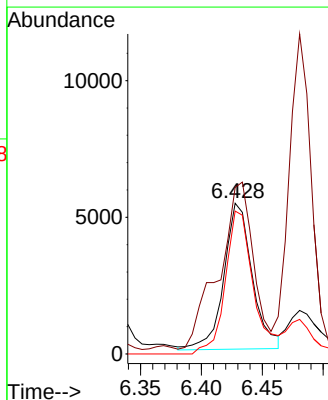
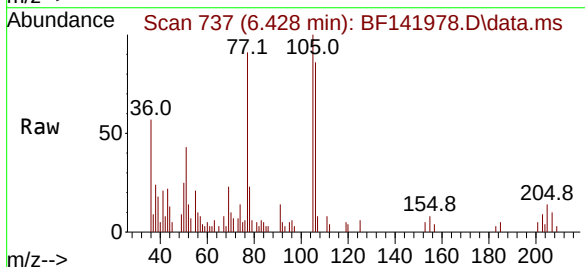
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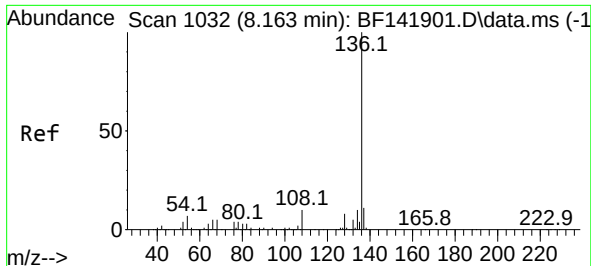
Reviewed By :Anahy Claudio 03/18/2025  
Supervised By :Jagrut Upadhyay 03/18/2025



#9  
Benzaldehyde  
Concen: 2.171 ng  
RT: 6.428 min Scan# 737  
Delta R.T. -0.006 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

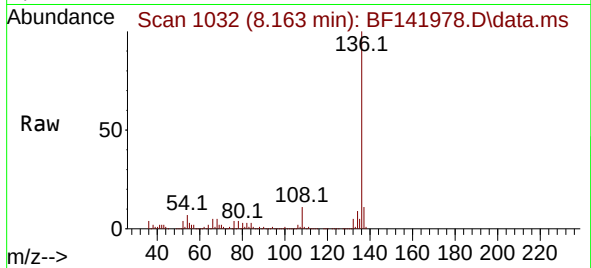
Tgt Ion: 77 Resp: 8693  
Ion Ratio Lower Upper  
77 100  
105 110.4 80.0 120.0  
106 94.8 74.5 114.5





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 1032  
Delta R.T. -0.000 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

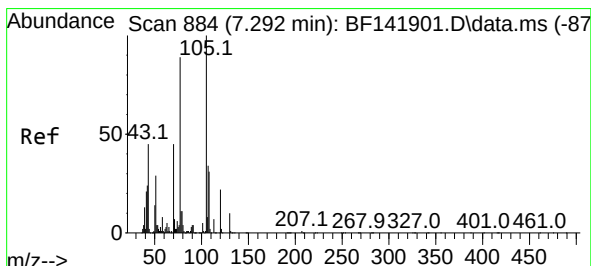
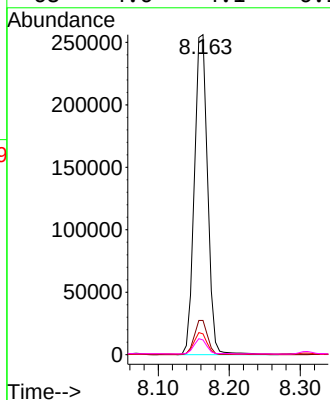
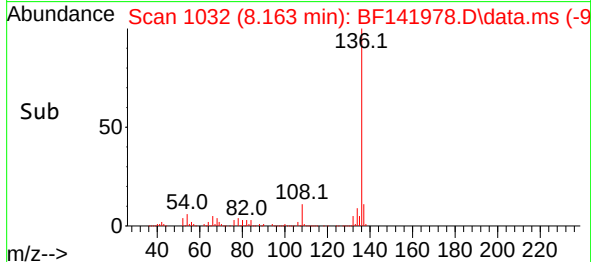
Instrument :  
BNA\_F  
ClientSampleId :  
WC1



Tgt Ion:136 Resp: 333150  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.8 13.2  
54 6.5 5.8 8.8  
68 4.6 4.1 6.1

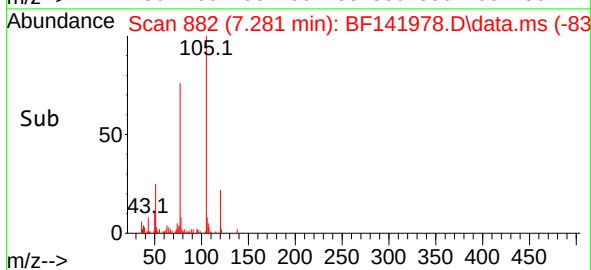
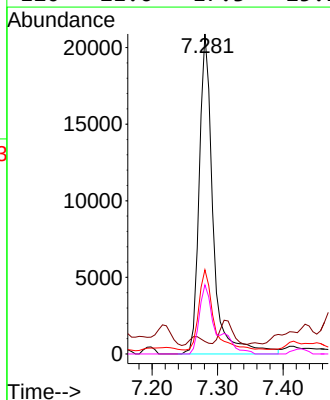
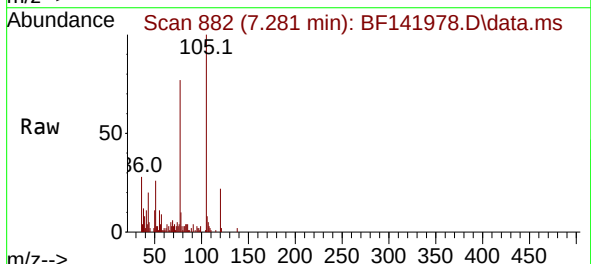
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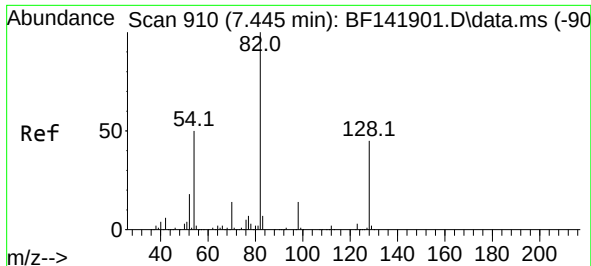
Reviewed By :Anahy Claudio 03/18/2025  
Supervised By :Jagrut Upadhyay 03/18/2025



#22  
Acetophenone  
Concen: 3.853 ng  
RT: 7.281 min Scan# 882  
Delta R.T. -0.012 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

Tgt Ion:105 Resp: 30737  
Ion Ratio Lower Upper  
105 100  
71 3.9 5.8 8.8#  
51 26.3 23.4 35.0  
120 21.6 17.3 25.9





#23

Nitrobenzene-d5

Concen: 29.932 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

Instrument :

BNA\_F

ClientSampleId :

WC1

Tgt Ion: 82 Resp: 177200

Ion Ratio Lower Upper

82 100

128 44.3 36.0 54.0

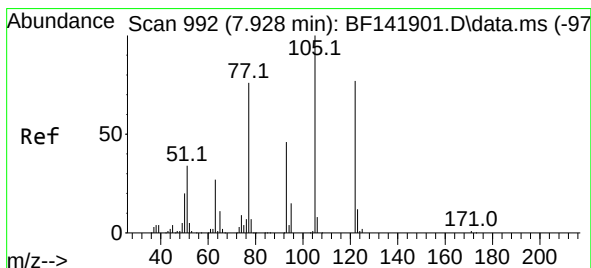
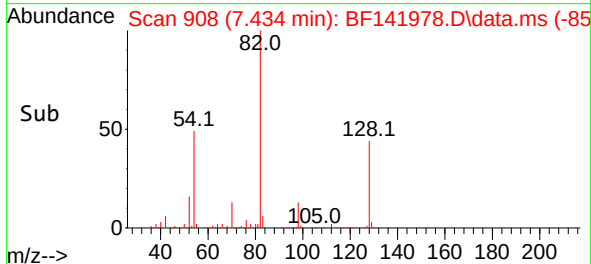
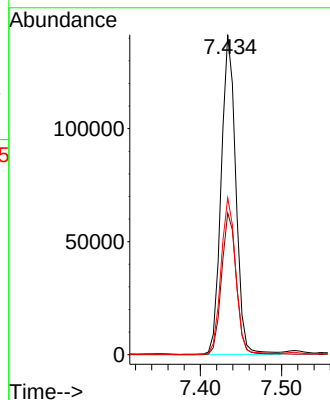
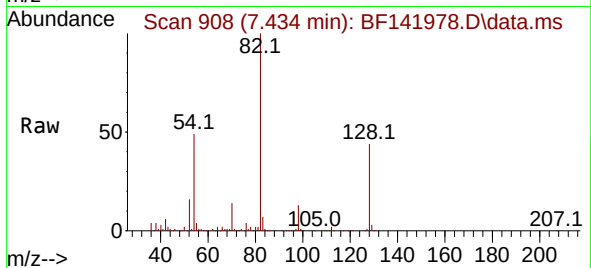
54 49.0 39.6 59.4

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025

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#32

Benzoic acid

Concen: 3.532 ng m

RT: 7.857 min Scan# 980

Delta R.T. -0.071 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

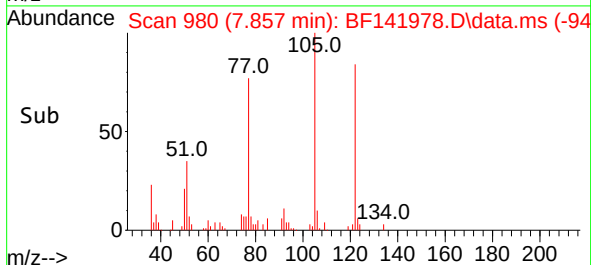
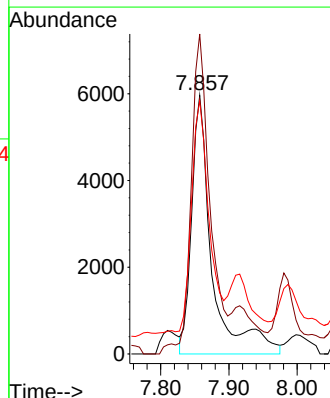
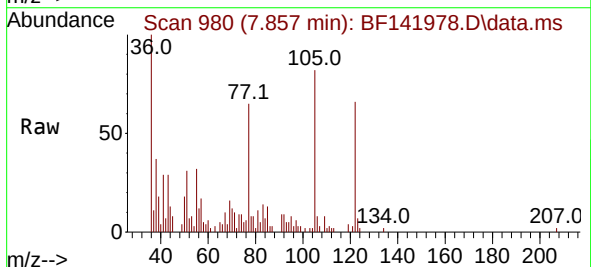
Tgt Ion:122 Resp: 12349

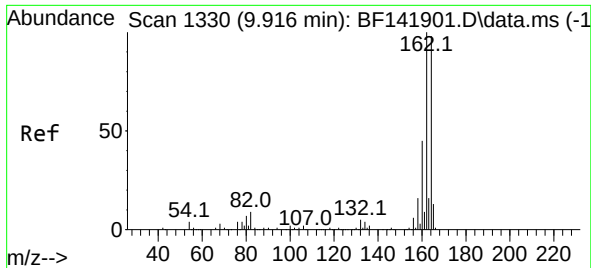
Ion Ratio Lower Upper

122 100

105 123.7 107.9 147.9

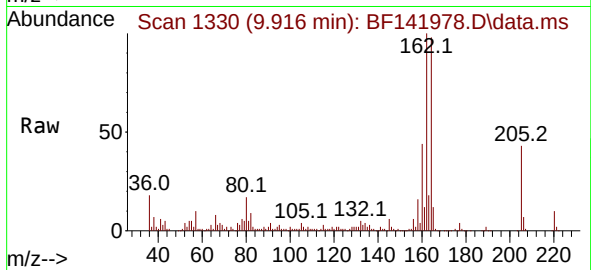
77 98.0 79.0 119.0





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.916 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

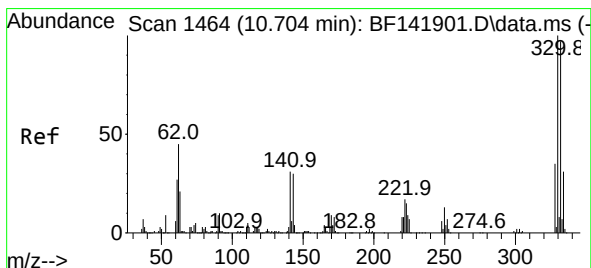
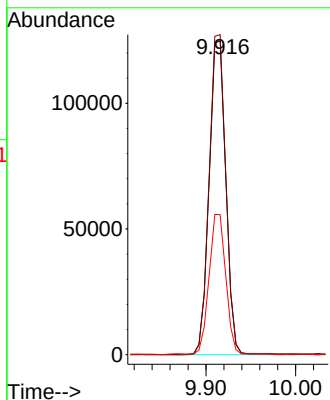
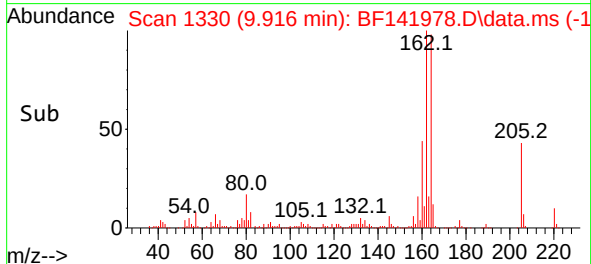
Instrument :  
BNA\_F  
ClientSampleId :  
WC1



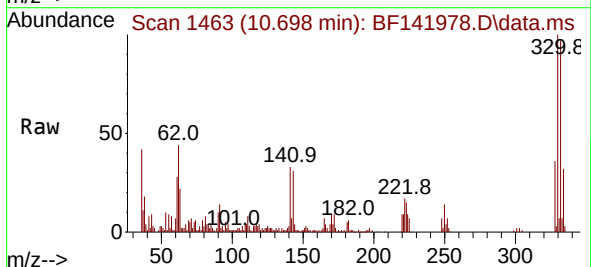
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Ion Ratio Lower Upper  
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162 102.0 81.8 122.6  
160 44.6 36.7 55.1

Manual Integrations  
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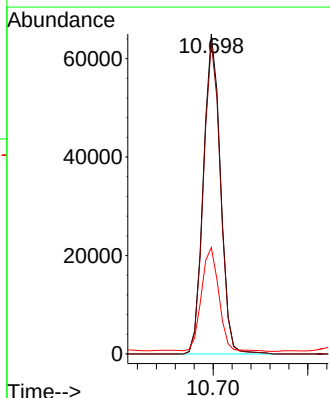
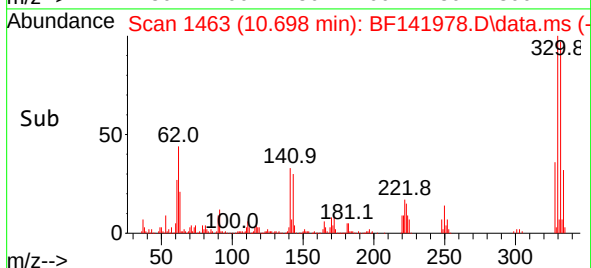
Reviewed By :Anahy Claudio 03/18/2025  
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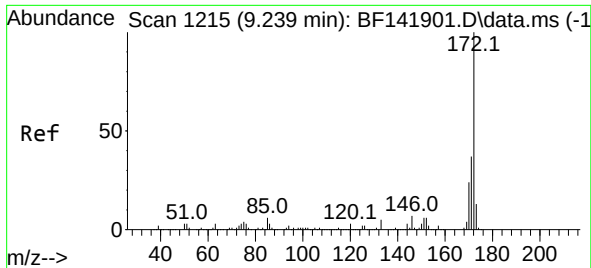


#42  
2,4,6-Tribromophenol  
Concen: 39.700 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.006 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31



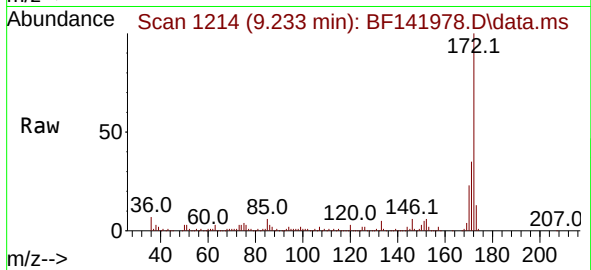
Tgt Ion:330 Resp: 81018  
Ion Ratio Lower Upper  
330 100  
332 97.0 77.6 116.4  
141 33.3 24.7 37.1





#45  
2-Fluorobiphenyl  
Concen: 33.086 ng  
RT: 9.233 min Scan# 1214  
Delta R.T. -0.006 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

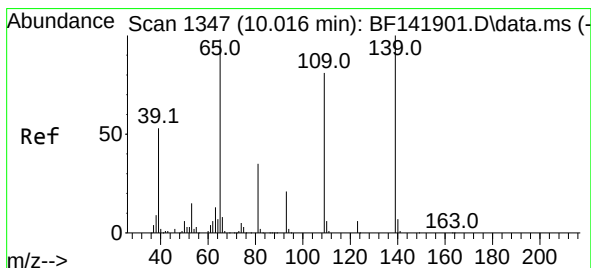
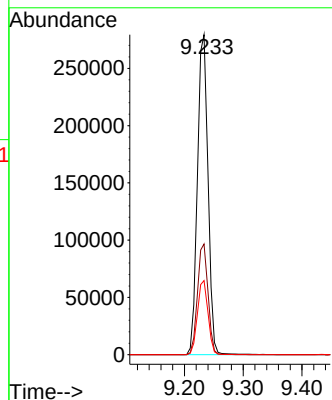
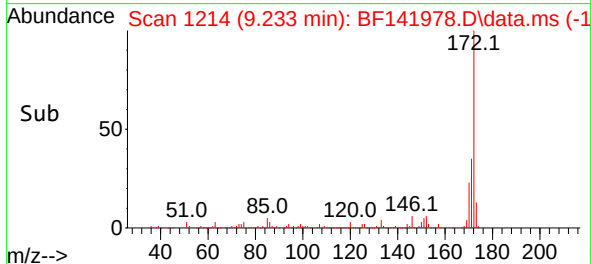
Instrument :  
BNA\_F  
ClientSampleId :  
WC1



Tgt Ion:172 Resp: 349958  
Ion Ratio Lower Upper  
172 100  
171 34.6 29.3 43.9  
170 23.1 19.4 29.0

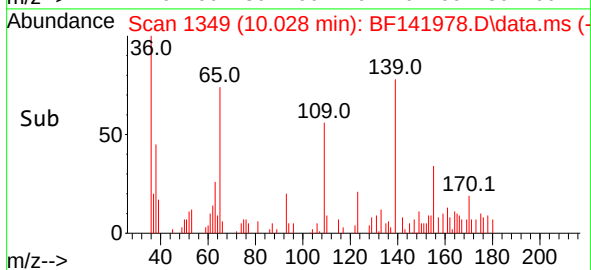
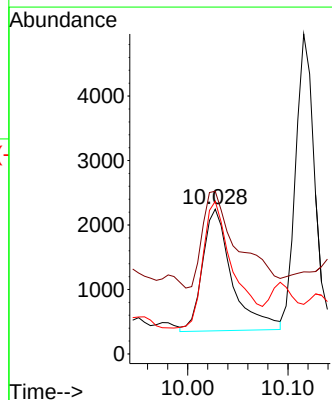
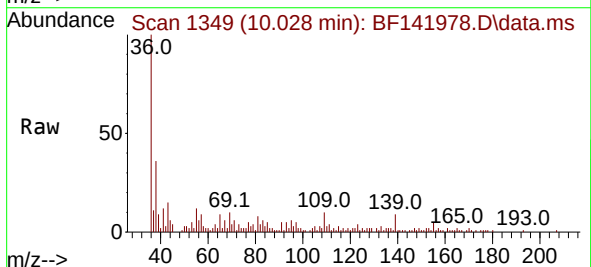
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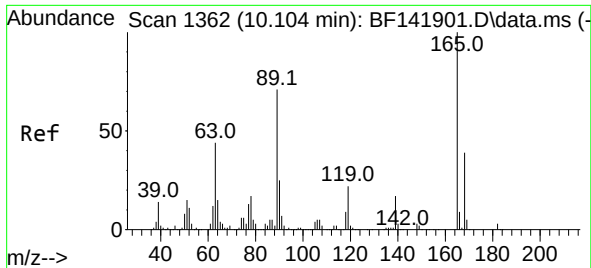


#56  
4-Nitrophenol  
Concen: 2.168 ng  
RT: 10.028 min Scan# 1349  
Delta R.T. 0.012 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

Tgt Ion:139 Resp: 3889  
Ion Ratio Lower Upper  
139 100  
109 112.3 61.6 101.6#  
65 105.4 79.4 119.4

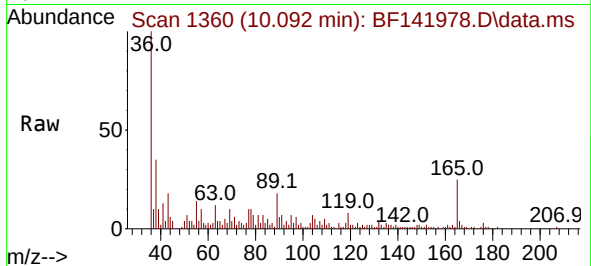






#57  
2,4-Dinitrotoluene  
Concen: 2.636 ng  
RT: 10.092 min Scan# 1360  
Delta R.T. -0.012 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

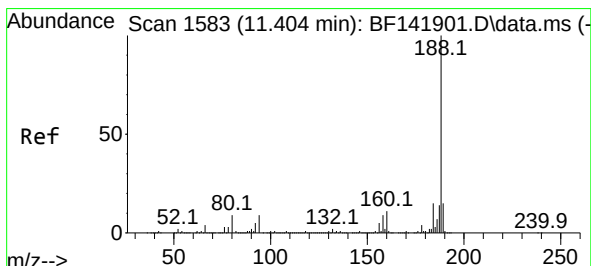
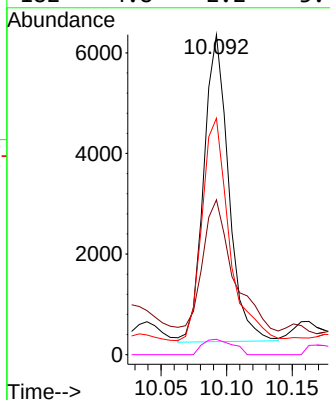
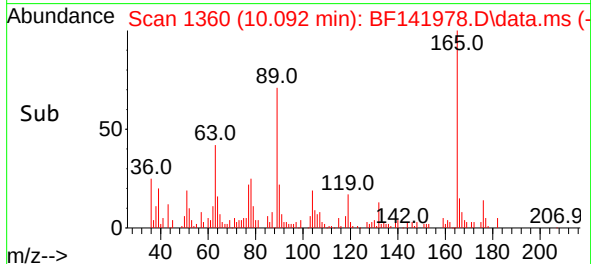
Instrument :  
BNA\_F  
ClientSampleId :  
WC1



Tgt Ion:165 Resp: 8070  
Ion Ratio Lower Upper  
165 100  
63 48.4 35.4 53.2  
89 73.9 56.6 84.8  
182 4.8 2.2 3.4#

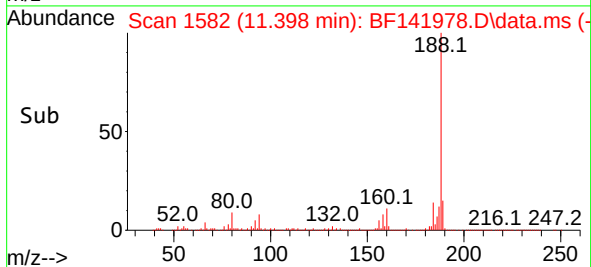
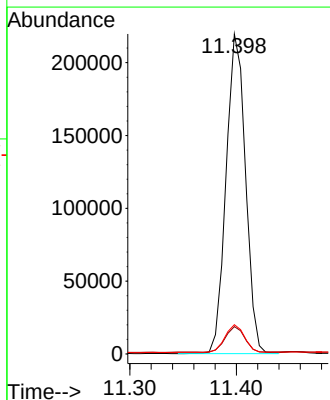
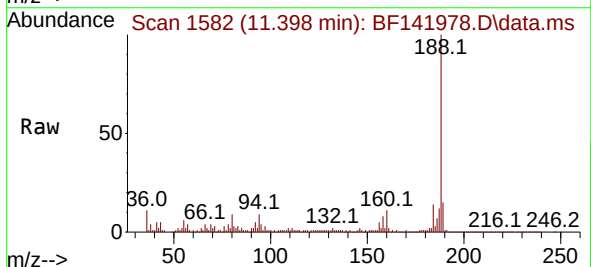
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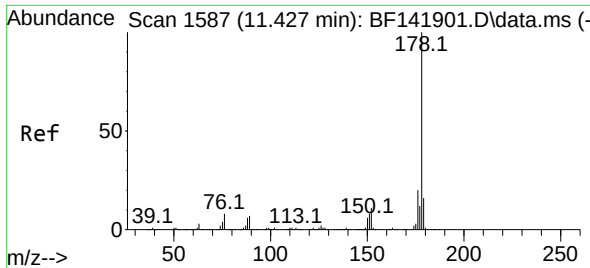
Reviewed By :Anahy Claudio 03/18/2025  
Supervised By :Jagrut Upadhyay 03/18/2025



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.398 min Scan# 1582  
Delta R.T. -0.006 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

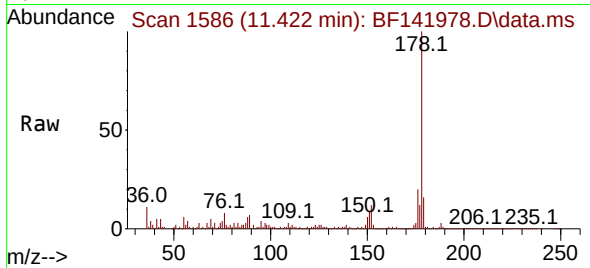
Tgt Ion:188 Resp: 277799  
Ion Ratio Lower Upper  
188 100  
94 8.6 6.8 10.2  
80 9.1 7.6 11.4





#71  
Phenanthrene  
Concen: 17.766 ng  
RT: 11.422 min Scan# 1587  
Delta R.T. -0.006 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31

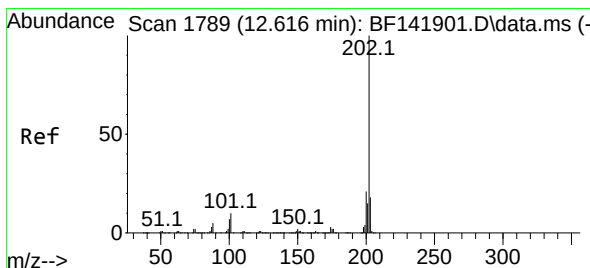
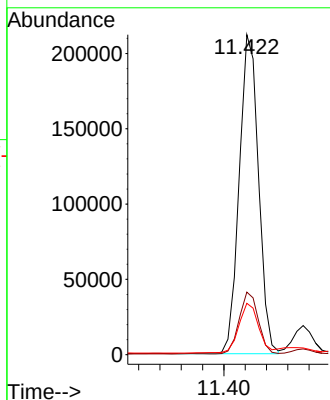
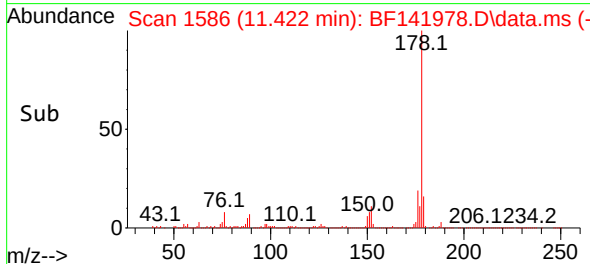
Instrument :  
BNA\_F  
ClientSampleId :  
WC1



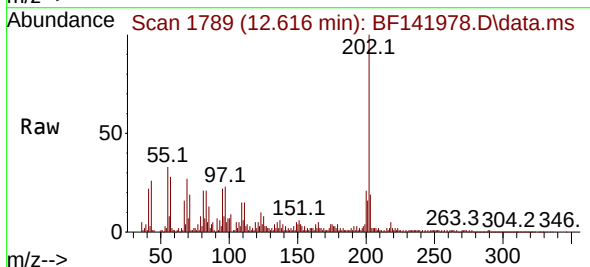
Tgt Ion:178 Resp: 26658  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.8 23.8  
179 16.1 12.6 19.0

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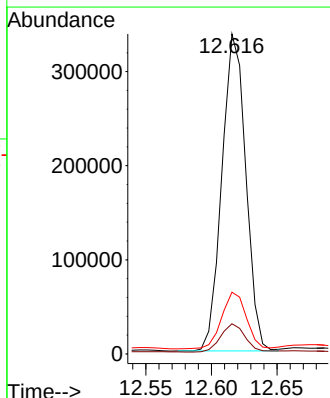
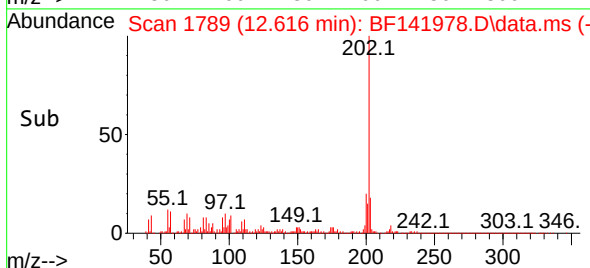
Reviewed By :Anahy Claudio 03/18/2025  
Supervised By :Jagrut Upadhyay 03/18/2025

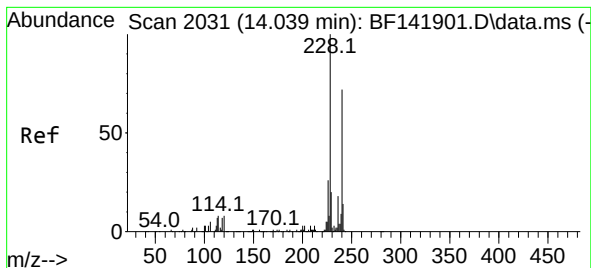


#75  
Fluoranthene  
Concen: 26.857 ng  
RT: 12.616 min Scan# 1789  
Delta R.T. 0.000 min  
Lab File: BF141978.D  
Acq: 17 Mar 2025 13:31



Tgt Ion:202 Resp: 427469  
Ion Ratio Lower Upper  
202 100  
101 9.4 0.0 29.7  
203 19.3 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2031

Delta R.T. 0.018 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

Instrument :

BNA\_F

ClientSampleId :

WC1

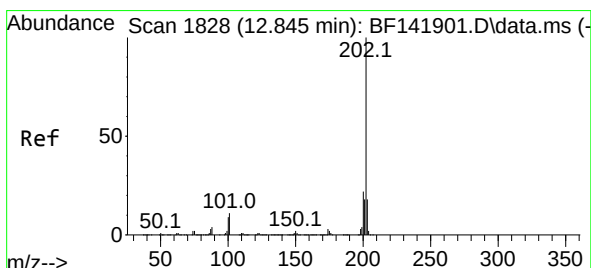
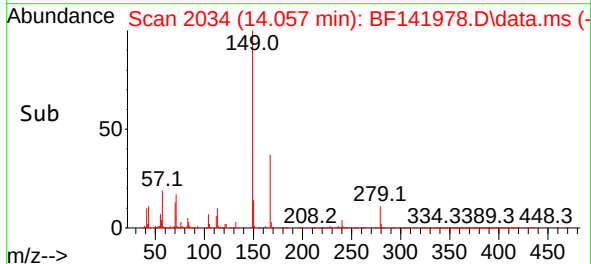
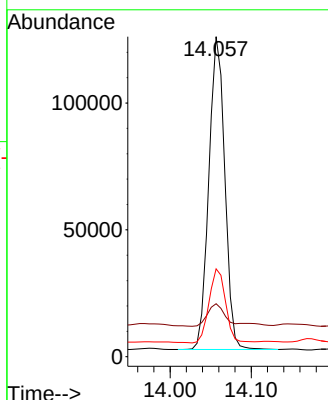
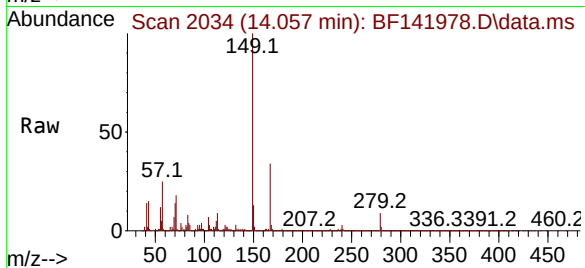
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 168140 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 16.5  | 8.4   | 12.6   |
| 236       | 27.5  | 20.5  | 30.7   |

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



#78

Pyrene

Concen: 22.191 ng

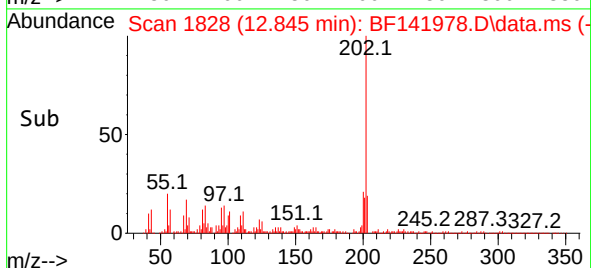
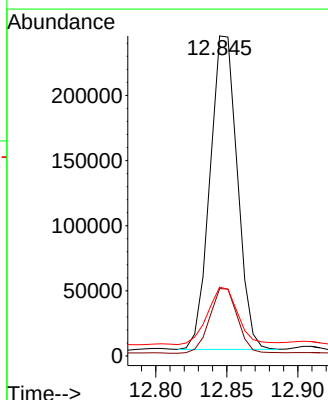
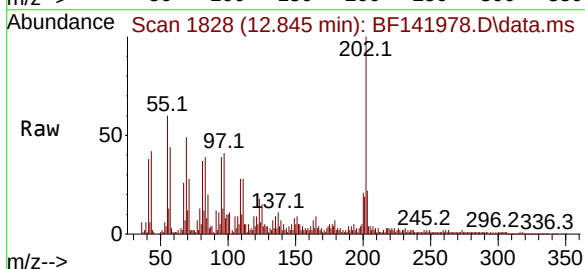
RT: 12.845 min Scan# 1828

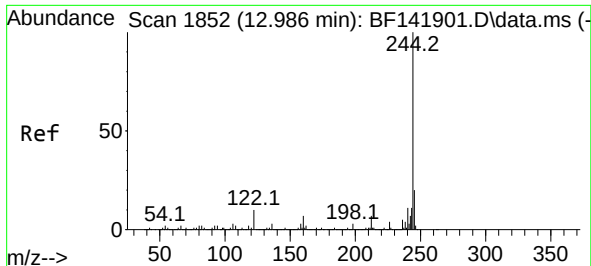
Delta R.T. 0.000 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

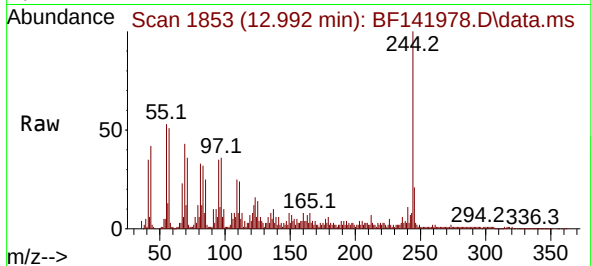
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 322749 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.1  | 17.3  | 25.9   |
| 203       | 21.5  | 14.4  | 21.6   |





#79  
 Terphenyl-d14  
 Concen: 35.736 ng  
 RT: 12.992 min Scan# 1853  
 Delta R.T. 0.006 min  
 Lab File: BF141978.D  
 Acq: 17 Mar 2025 13:31

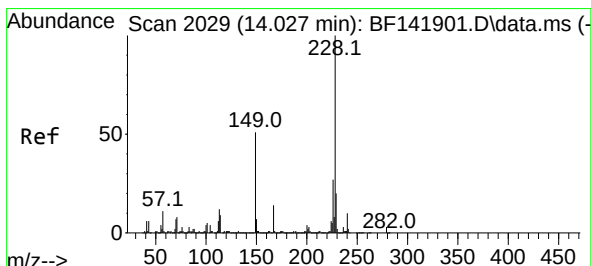
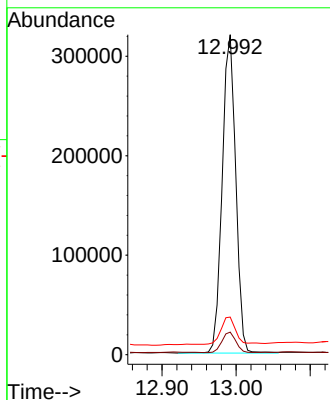
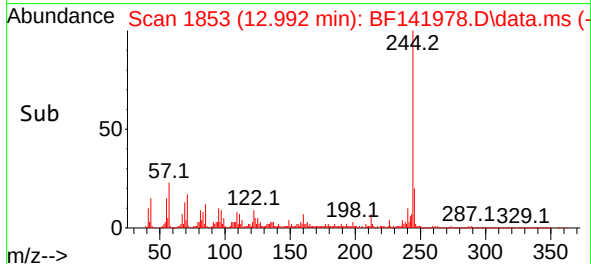
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC1



Tgt Ion:244 Resp: 406420  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.0 9.0  
 122 11.8 7.7 11.5

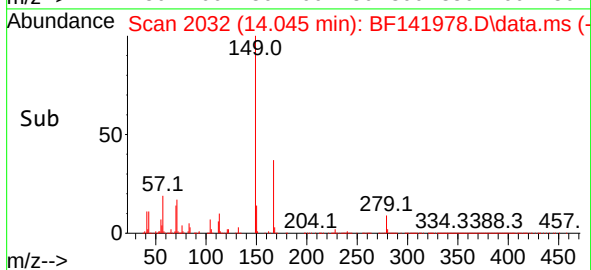
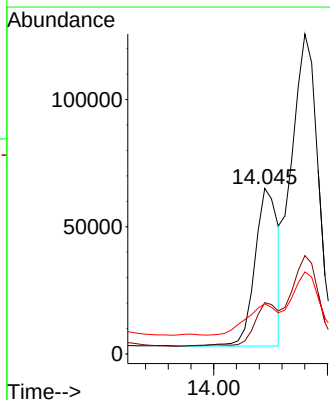
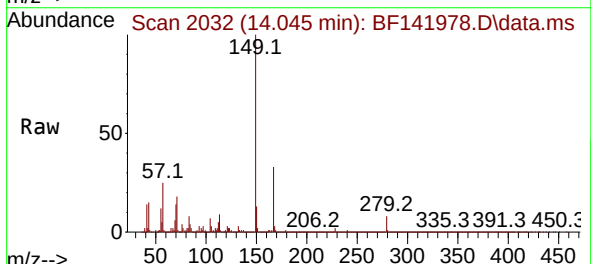
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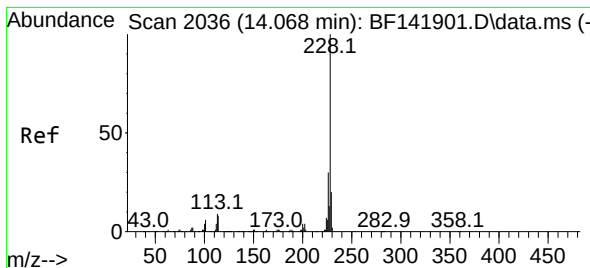
Reviewed By :Anahy Claudio 03/18/2025  
 Supervised By :Jagrut Upadhyay 03/18/2025



#81  
 Benzo(a)anthracene  
 Concen: 7.884 ng  
 RT: 14.045 min Scan# 2032  
 Delta R.T. 0.018 min  
 Lab File: BF141978.D  
 Acq: 17 Mar 2025 13:31

Tgt Ion:228 Resp: 86990  
 Ion Ratio Lower Upper  
 228 100  
 226 31.0 21.8 32.8  
 229 30.4 16.0 24.0





#83

Chrysene

Concen: 20.080 ng

RT: 14.080 min Scan# 2036

Delta R.T. 0.012 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

Instrument :

BNA\_F

ClientSampleId :

WC1

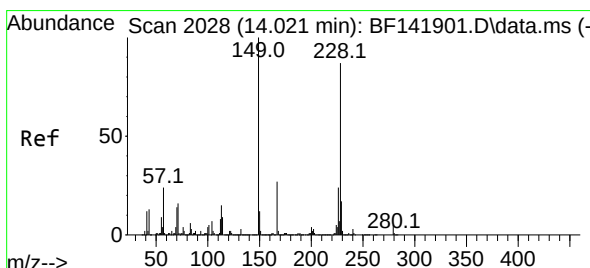
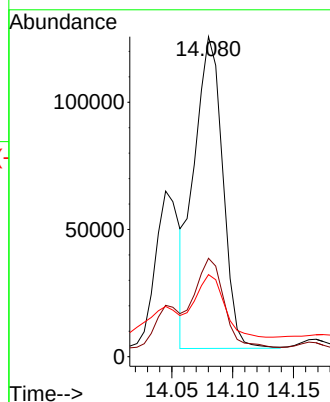
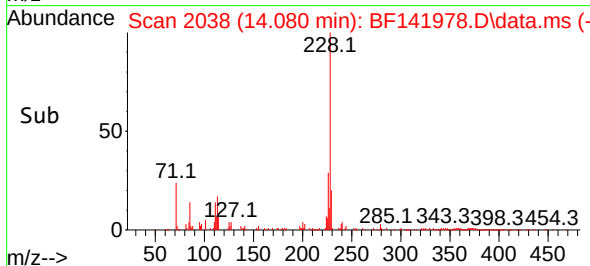
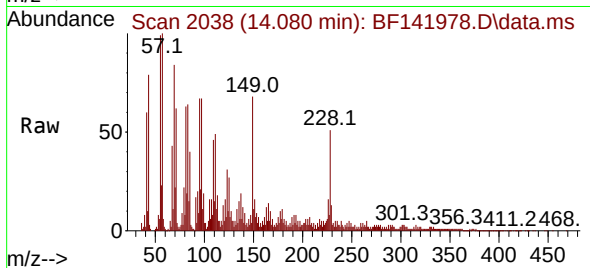
|             |             |
|-------------|-------------|
| Tgt Ion:228 | Resp: 20083 |
| Ion Ratio   | Lower Upper |
| 228 100     |             |
| 226 30.8    | 24.1 36.1   |
| 229 25.7    | 15.7 23.5   |

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Supervised By :Jagrut Upadhyay 03/18/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 1056.606 ng

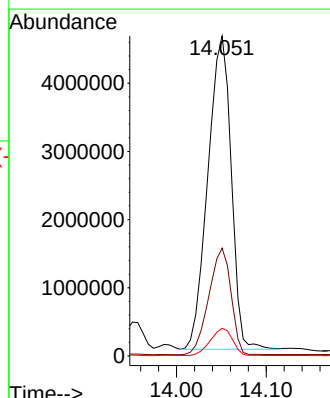
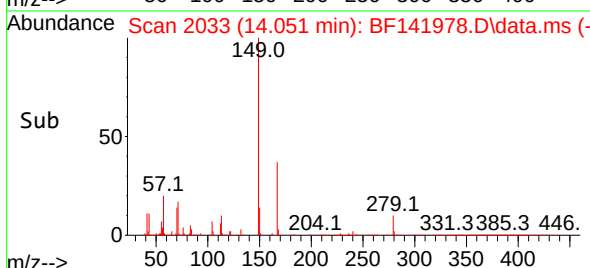
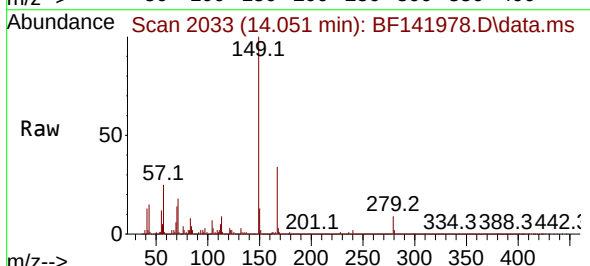
RT: 14.051 min Scan# 2033

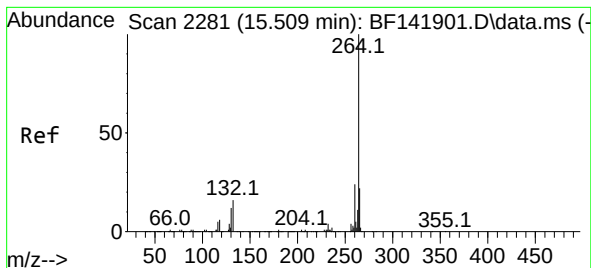
Delta R.T. 0.029 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

|             |               |
|-------------|---------------|
| Tgt Ion:149 | Resp: 8293275 |
| Ion Ratio   | Lower Upper   |
| 149 100     |               |
| 167 33.7    | 21.4 32.0#    |
| 279 8.6     | 3.8 5.6#      |





#86

Perylene-d12

Concen: 20.000 ng m

RT: 15.621 min Scan# 21

Delta R.T. 0.112 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

Instrument :

BNA\_F

ClientSampleId :

WC1

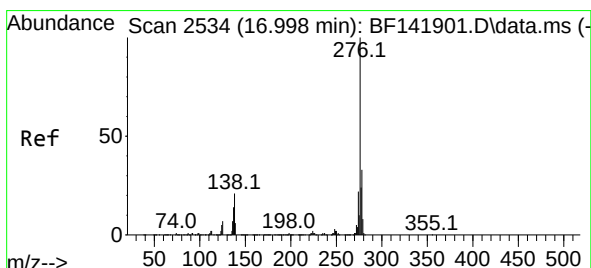
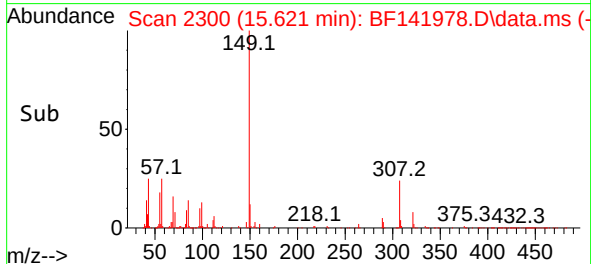
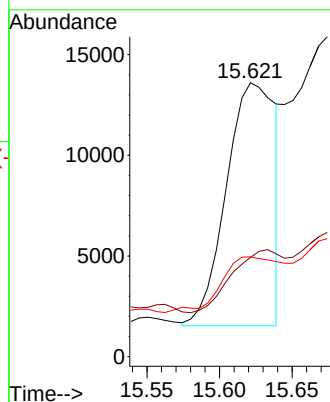
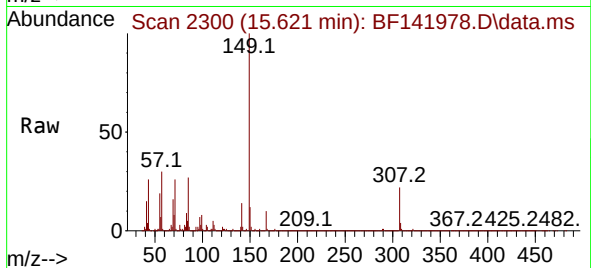
Tgt Ion:264 Resp: 28230

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 36.2  | 19.1  | 28.7  |
| 265 | 36.4  | 17.5  | 26.3  |

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Reviewed By :Anahy Claudio 03/18/2025  
Supervised By :Jagrut Upadhyay 03/18/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 29.736 ng

RT: 17.115 min Scan# 2554

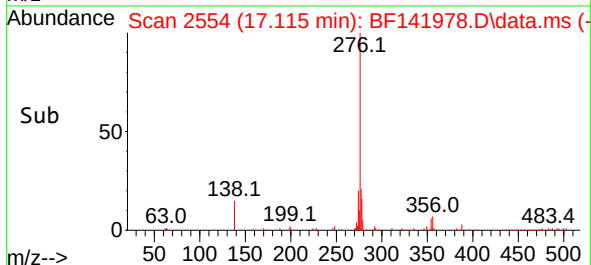
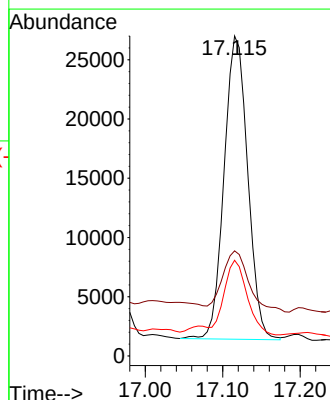
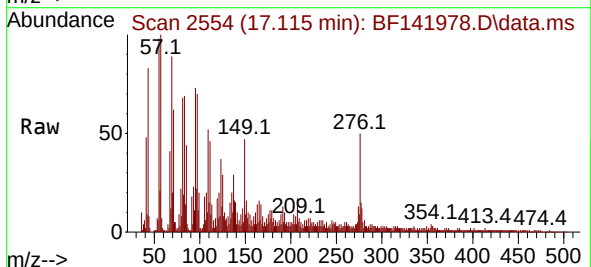
Delta R.T. 0.118 min

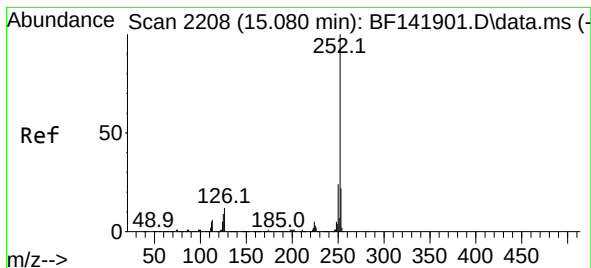
Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

Tgt Ion:276 Resp: 54302

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 22.6  | 18.4  | 27.6  |
| 277 | 24.1  | 20.3  | 30.5  |





#88

Benzo(b)fluoranthene

Concen: 72.911 ng m

RT: 15.121 min Scan# 2215

Delta R.T. 0.041 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

Instrument :

BNA\_F

ClientSampleId :

WC1

Tgt Ion:252 Resp: 14106

Ion Ratio Lower Upper

252 100

253 27.5 17.5 26.3

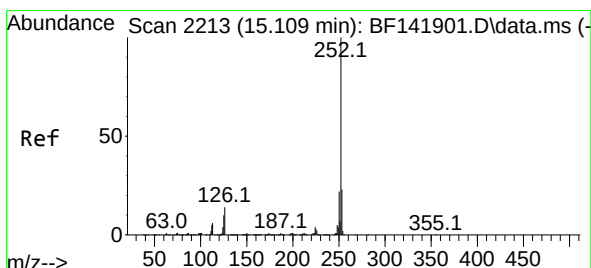
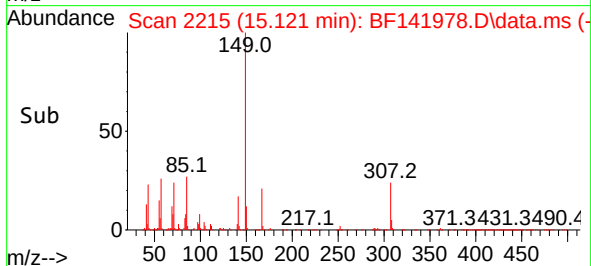
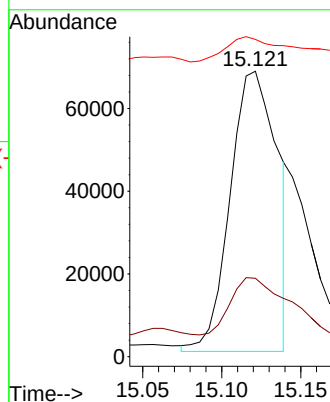
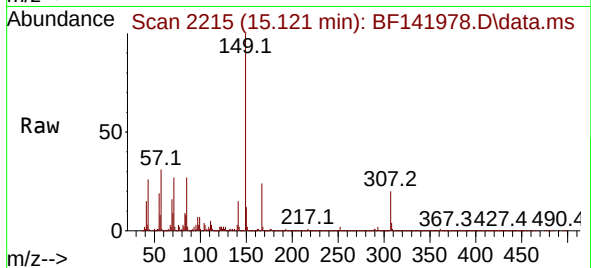
125 111.1 7.0 10.4

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Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



#89

Benzo(k)fluoranthene

Concen: 34.423 ng m

RT: 15.139 min Scan# 2218

Delta R.T. 0.029 min

Lab File: BF141978.D

Acq: 17 Mar 2025 13:31

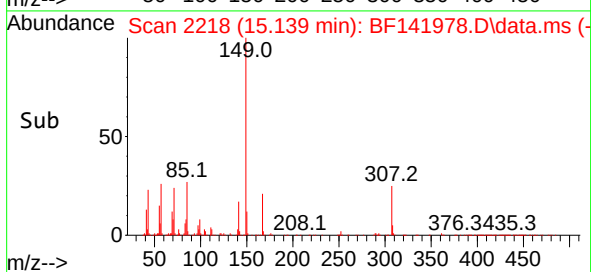
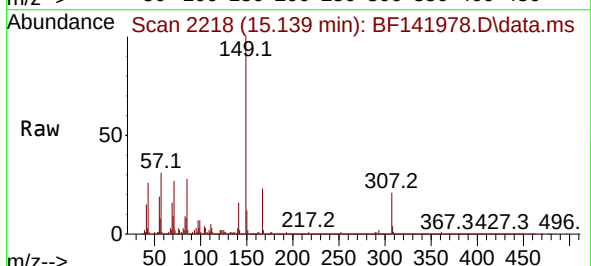
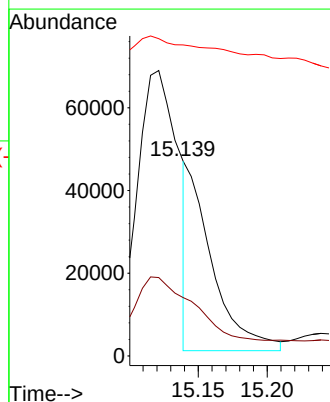
Tgt Ion:252 Resp: 56994

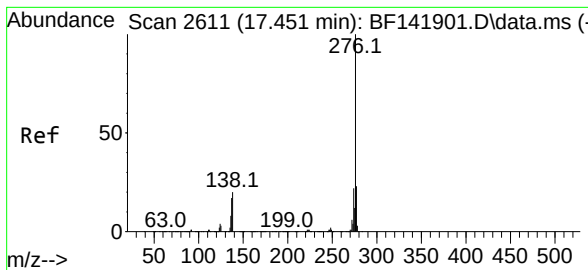
Ion Ratio Lower Upper

252 100

253 30.0 17.7 26.5#

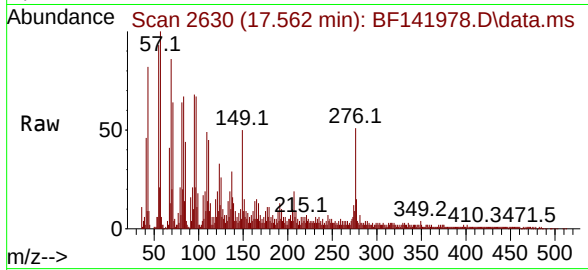
125 159.6 7.2 10.8#





#92  
 Benzo(g,h,i)perylene  
 Concen: 34.963 ng  
 RT: 17.562 min Scan# 20  
 Delta R.T. 0.112 min  
 Lab File: BF141978.D  
 Acq: 17 Mar 2025 13:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC1



Tgt Ion: 276 Resp: 52058  
 Ion Ratio Lower Upper  
 276 100  
 277 29.7 18.7 28.1  
 138 30.8 15.8 23.8

Manual Integrations  
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Reviewed By :Anahy Claudio 03/18/2025  
 Supervised By :Jagrut Upadhyay 03/18/2025

