

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
 Data File : BF141426.D  
 Acq On : 04 Feb 2025 23:04  
 Operator : RC/JU  
 Sample : Q1232-03DL 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-46.2-012925DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 02/05/2025  
 Supervised By :mohammad ahmed 02/05/2025

Quant Time: Feb 05 00:36:03 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 29 17:41:25 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.787  | 152  | 75582    | 20.000 | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.069  | 136  | 307005   | 20.000 | ng    | #-0.02   |
| 39) Acenaphthene-d10        | 9.822  | 164  | 169441   | 20.000 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.310 | 188  | 294483   | 20.000 | ng    | -0.02    |
| 76) Chrysene-d12            | 13.957 | 240  | 204133   | 20.000 | ng    | #-0.02   |
| 86) Perylene-d12            | 15.415 | 264  | 214815   | 20.000 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.404  | 112  | 80800    | 16.412 | ng    | 0.00     |
| 7) Phenol-d6                | 6.428  | 99   | 104058   | 16.615 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.345  | 82   | 66597    | 11.436 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.610 | 330  | 24468    | 15.751 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.145  | 172  | 123871   | 11.252 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.898 | 244  | 136680   | 10.326 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.339 | 178  | 395385   | 24.977 | ng    | 100      |
| 72) Anthracene              | 11.386 | 178  | 89877    | 5.795  | ng    | 100      |
| 75) Fluoranthene            | 12.527 | 202  | 755201   | 48.317 | ng    | 97       |
| 78) Pyrene                  | 12.757 | 202  | 741211   | 37.827 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.945 | 228  | 313651   | 22.266 | ng    | 98       |
| 83) Chrysene                | 13.980 | 228  | 268733   | 20.816 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.851 | 276  | 165313   | 11.923 | ng    | # 89     |
| 88) Benzo(b)fluoranthene    | 14.998 | 252  | 334850m  | 24.781 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.010 | 252  | 130698m  | 10.918 | ng    |          |
| 90) Benzo(a)pyrene          | 15.357 | 252  | 284450m  | 24.911 | ng    |          |
| 91) Dibenzo(a,h)anthracene  | 16.857 | 278  | 41233m   | 3.696  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.286 | 276  | 154375   | 13.310 | ng    | 96       |
| -----                       |        |      |          |        |       |          |

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

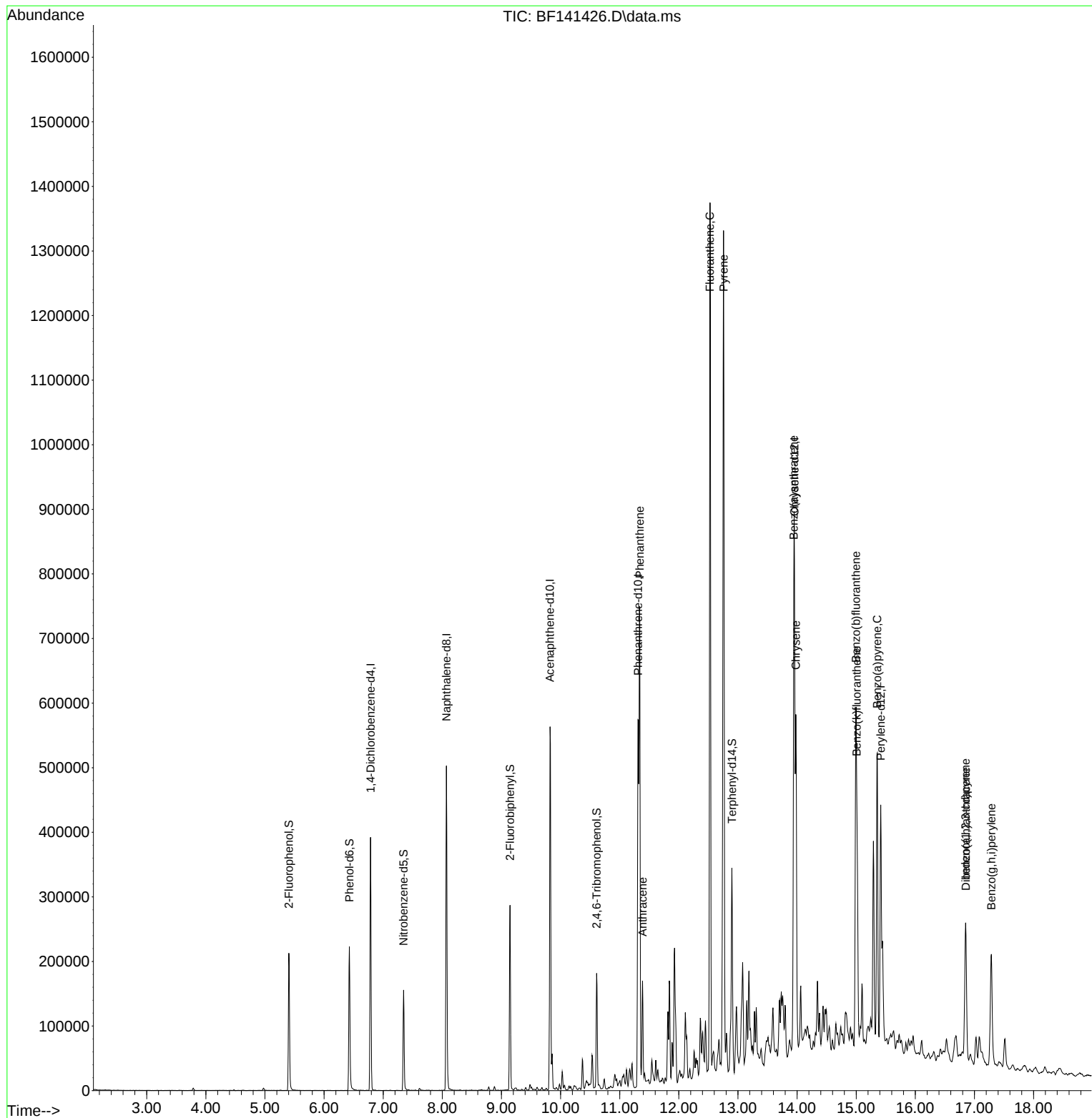
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020425\  
Data File : BF141426.D  
Acq On : 04 Feb 2025 23:04  
Operator : RC/JU  
Sample : Q1232-03DL 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

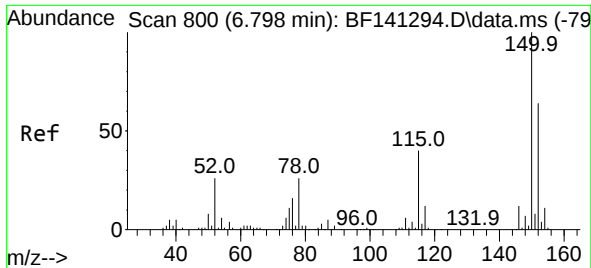
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-46.2-012925DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 02/05/2025  
Supervised By :mohammad ahmed 02/05/2025

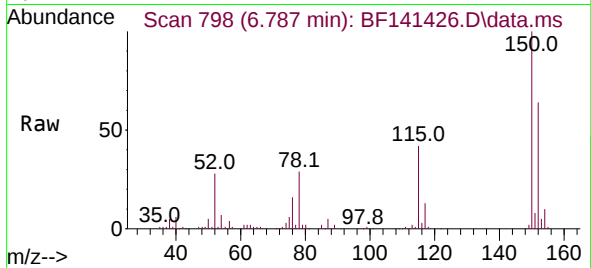
Quant Time: Feb 05 00:36:03 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF012925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 29 17:41:25 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.787 min Scan# 798  
Delta R.T. -0.017 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

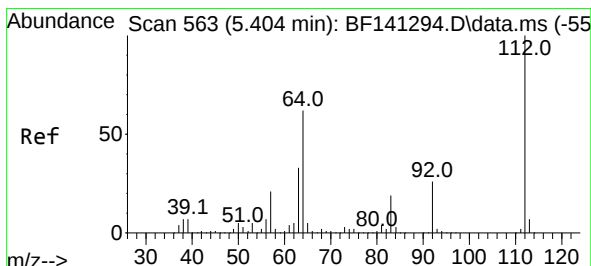
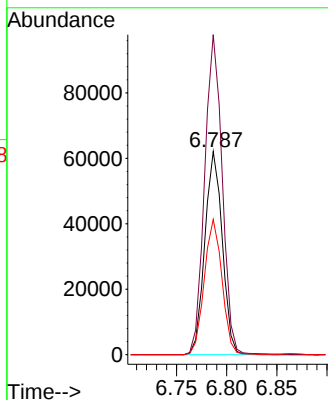
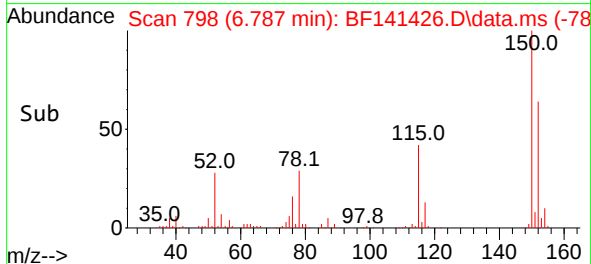
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-46.2-012925DL



Tgt Ion:152 Resp: 7558  
Ion Ratio Lower Upper  
152 100  
150 157.5 125.9 188.9  
115 66.5 49.7 74.5

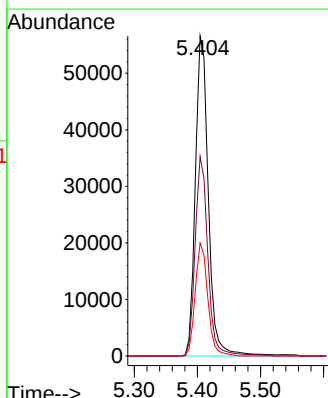
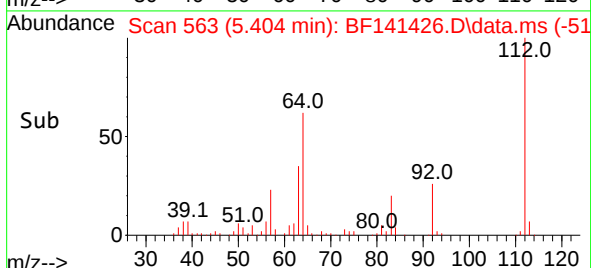
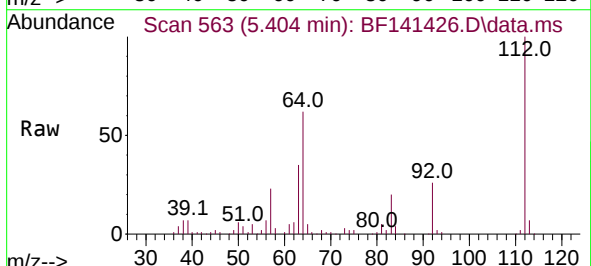
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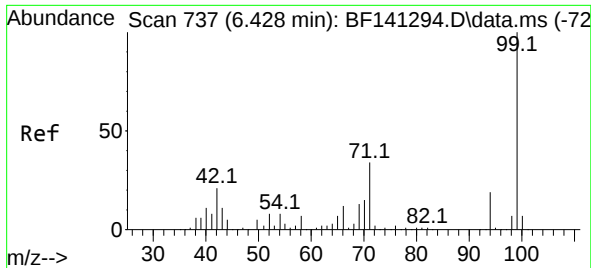
Reviewed By :Yogesh Patel 02/05/2025  
Supervised By :mohammad ahmed 02/05/2025



#5  
2-Fluorophenol  
Concen: 16.412 ng  
RT: 5.404 min Scan# 563  
Delta R.T. -0.006 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

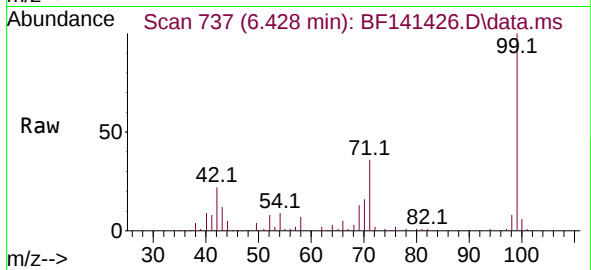
Tgt Ion:112 Resp: 80800  
Ion Ratio Lower Upper  
112 100  
64 62.3 49.8 74.8  
63 35.3 26.1 39.1





#7  
Phenol-d6  
Concen: 16.615 ng  
RT: 6.428 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

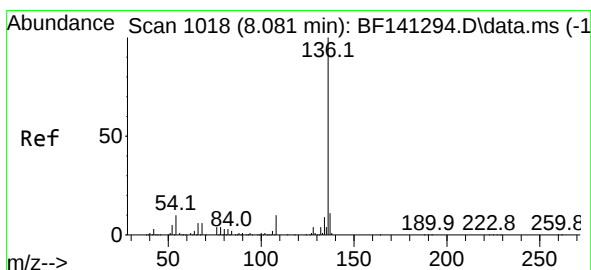
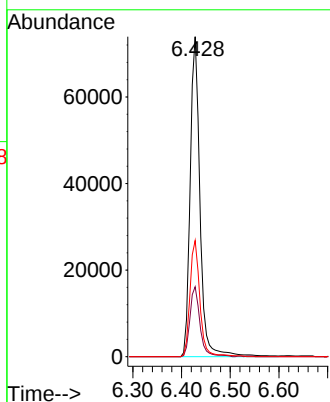
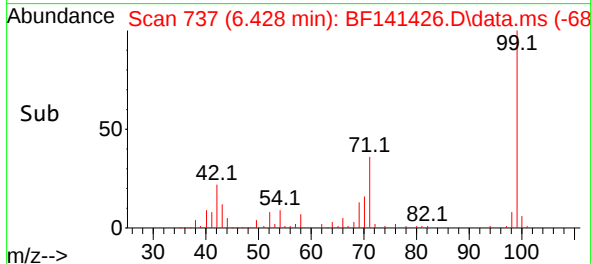
Instrument :  
BNA\_F  
ClientSampleId :  
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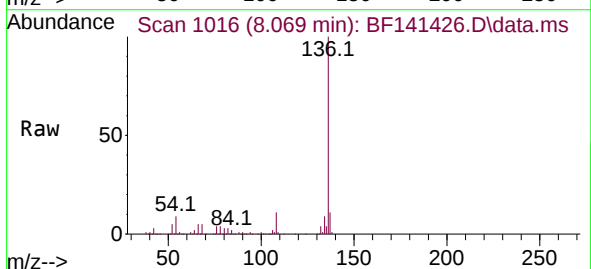
Tgt Ion: 99 Resp: 104058  
Ion Ratio Lower Upper  
99 100  
42 21.9 17.1 25.7  
71 36.3 26.9 40.3

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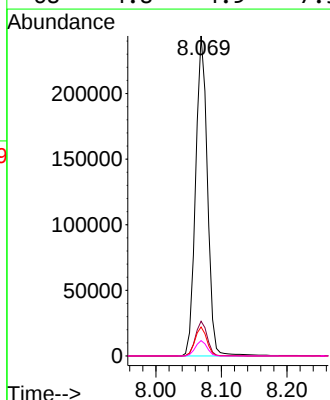
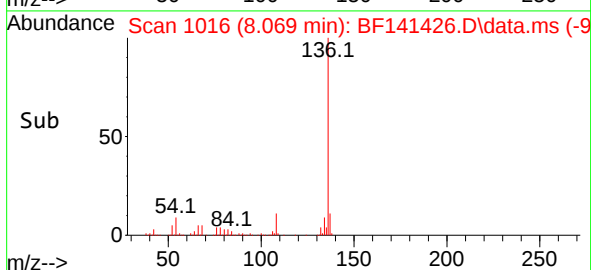
Reviewed By :Yogesh Patel 02/05/2025  
Supervised By :mohammad ahmed 02/05/2025

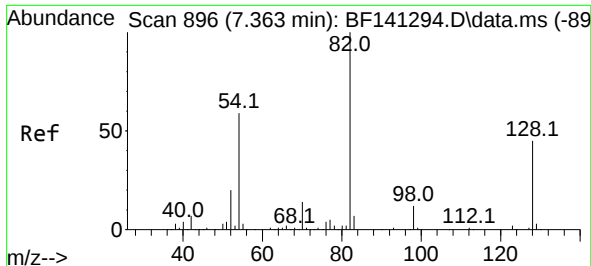


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.069 min Scan# 1016  
Delta R.T. -0.018 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04



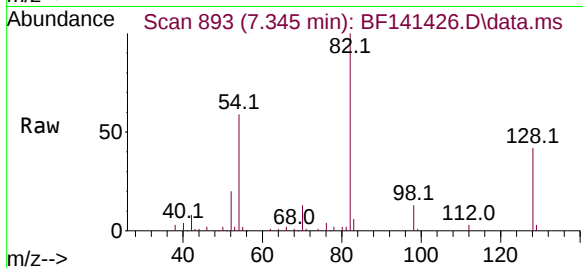
Tgt Ion:136 Resp: 307005  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 13.0  
54 9.1 7.8 11.8  
68 4.8 4.9 7.3#





#23  
Nitrobenzene-d5  
Concen: 11.436 ng  
RT: 7.345 min Scan# 896  
Delta R.T. -0.024 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

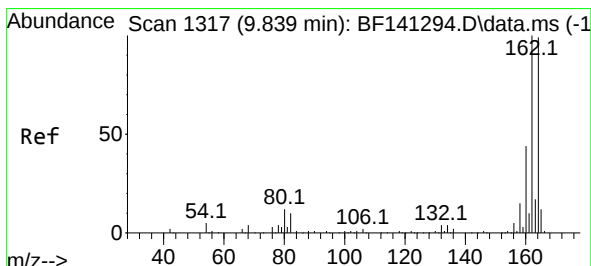
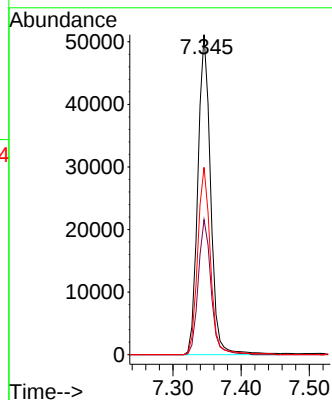
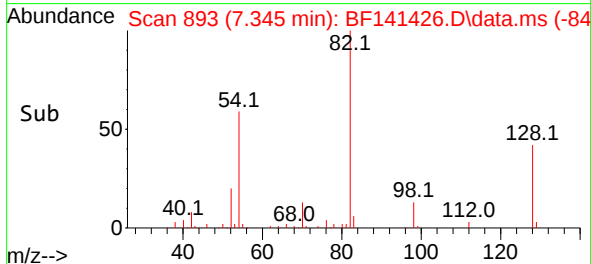
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-46.2-012925DL



Tgt Ion: 82 Resp: 6659  
Ion Ratio Lower Upper  
82 100  
128 42.2 35.7 53.5  
54 58.6 47.1 70.7

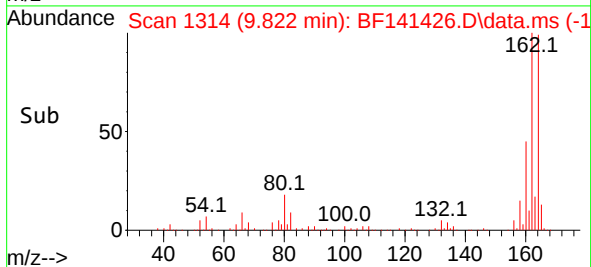
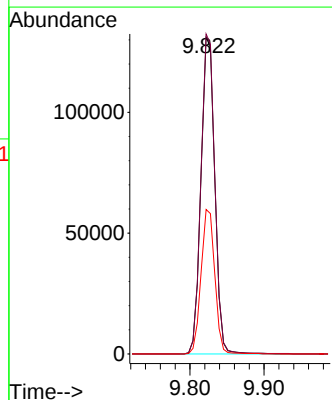
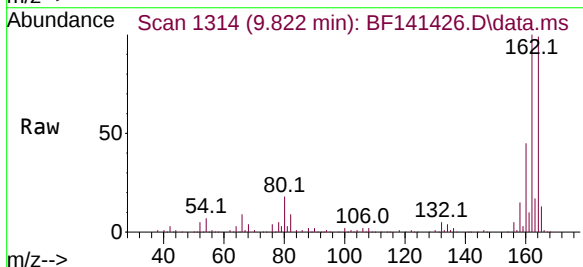
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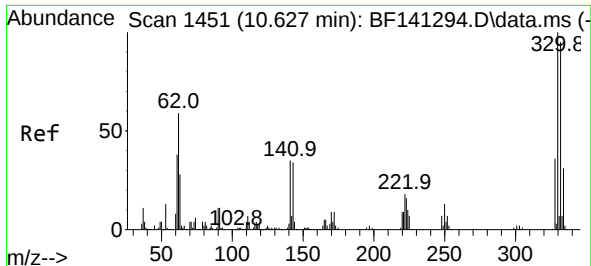
Reviewed By :Yogesh Patel 02/05/2025  
Supervised By :mohammad ahmed 02/05/2025



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.822 min Scan# 1314  
Delta R.T. -0.018 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

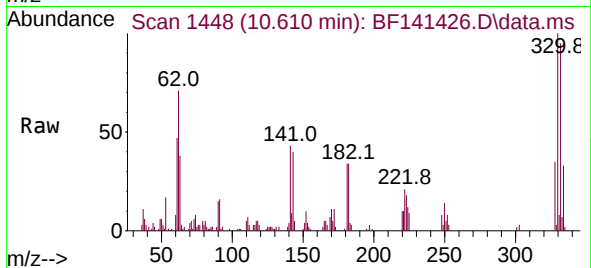
Tgt Ion:164 Resp: 169441  
Ion Ratio Lower Upper  
164 100  
162 101.1 80.6 121.0  
160 45.7 35.8 53.6





#42  
2,4,6-Tribromophenol  
Concen: 15.751 ng  
RT: 10.610 min Scan# 1451  
Delta R.T. -0.024 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

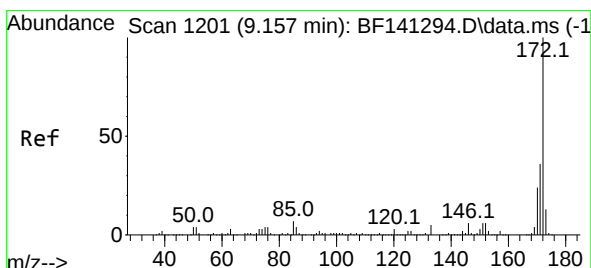
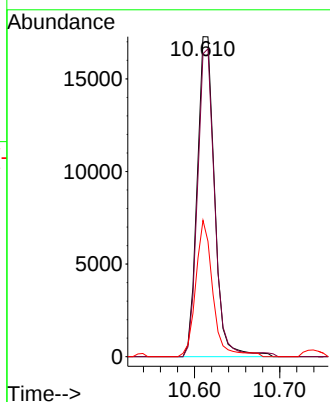
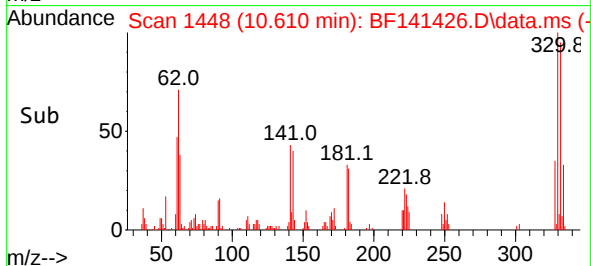
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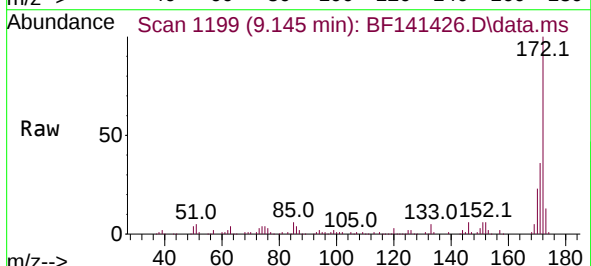
Tgt Ion: 330 Resp: 2446  
Ion Ratio Lower Upper  
330 100  
332 94.4 76.1 114.1  
141 42.0 28.8 43.2

Manual Integrations  
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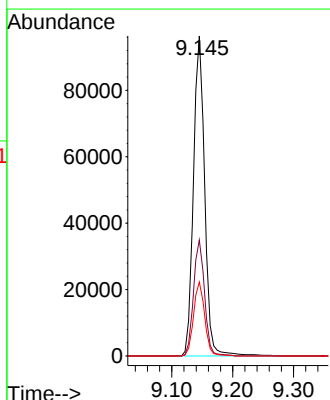
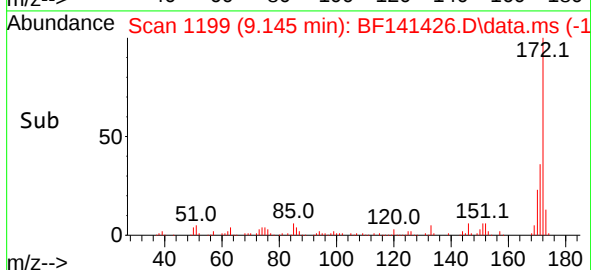
Reviewed By : Yogesh Patel 02/05/2025  
Supervised By : mohammad ahmed 02/05/2025

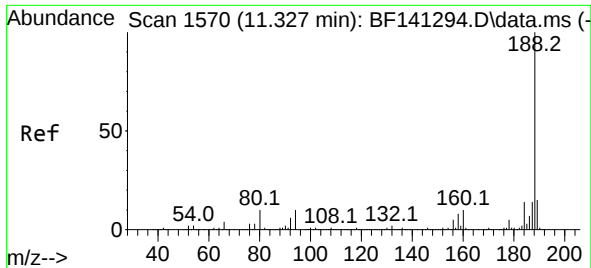


#45  
2-Fluorobiphenyl  
Concen: 11.252 ng  
RT: 9.145 min Scan# 1199  
Delta R.T. -0.018 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04



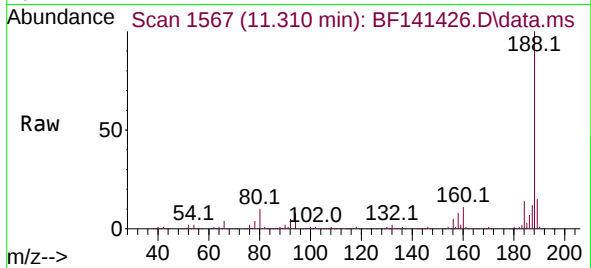
Tgt Ion: 172 Resp: 123871  
Ion Ratio Lower Upper  
172 100  
171 36.2 28.8 43.2  
170 23.1 19.0 28.6





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.310 min Scan# 1567  
Delta R.T. -0.018 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

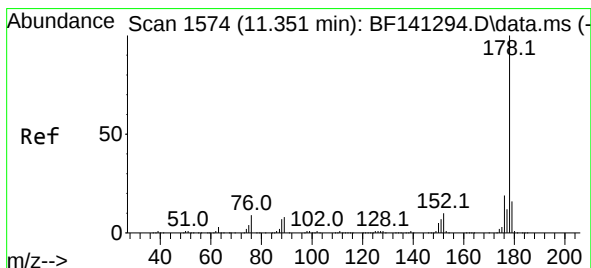
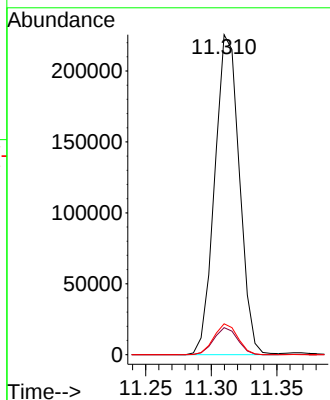
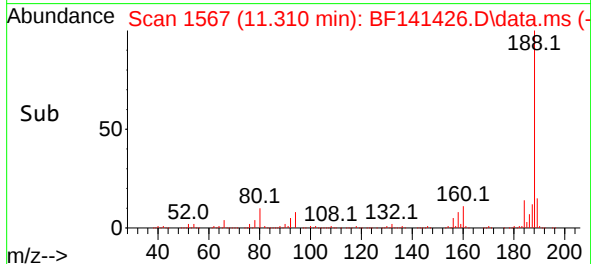
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-46.2-012925DL



Tgt Ion:188 Resp: 29448  
Ion Ratio Lower Upper  
188 100  
94 8.5 7.8 11.6  
80 9.6 8.2 12.4

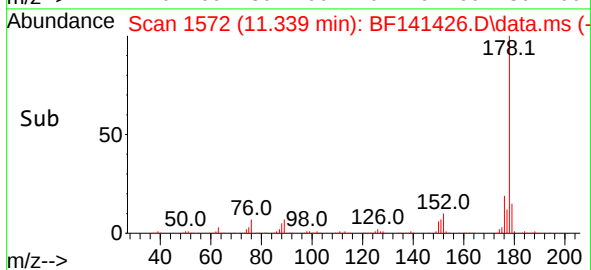
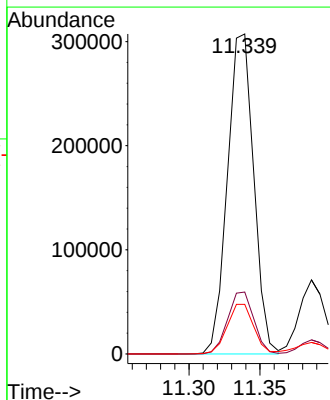
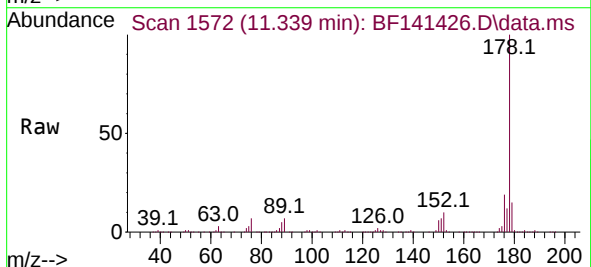
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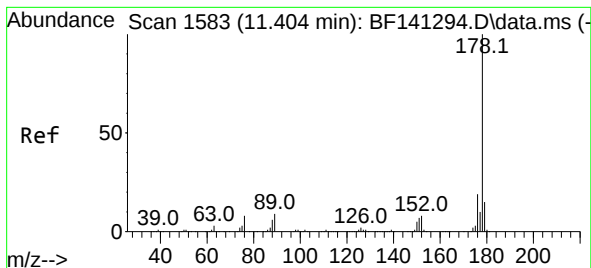
Reviewed By :Yogesh Patel 02/05/2025  
Supervised By :mohammad ahmed 02/05/2025



#71  
Phenanthrene  
Concen: 24.977 ng  
RT: 11.339 min Scan# 1572  
Delta R.T. -0.012 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

Tgt Ion:178 Resp: 395385  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.3 22.9  
179 15.5 12.5 18.7





#72

Anthracene

Concen: 5.795 ng

RT: 11.386 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141426.D

Acq: 04 Feb 2025 23:04

Instrument :

BNA\_F

ClientSampleId :

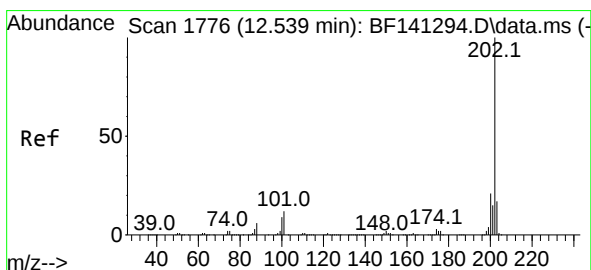
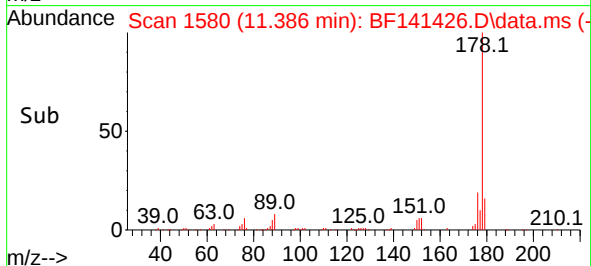
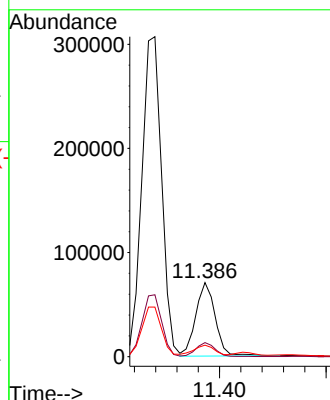
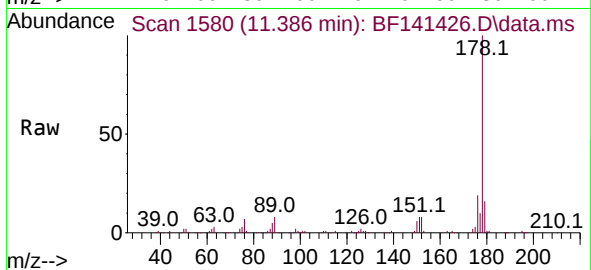
JPP-46.2-012925DL

Tgt Ion:178 Resp: 8987  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 15.0 22.6  
 179 15.6 12.3 18.5

Manual Integrations

APPROVED

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 Supervised By :mohammad ahmed 02/05/2025



#75

Fluoranthene

Concen: 48.317 ng

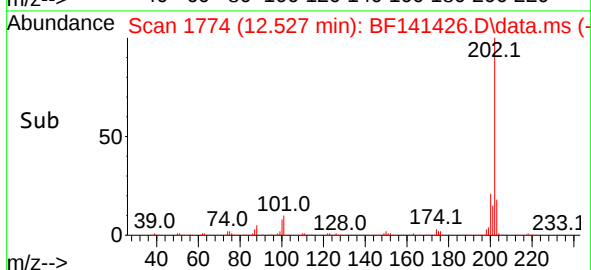
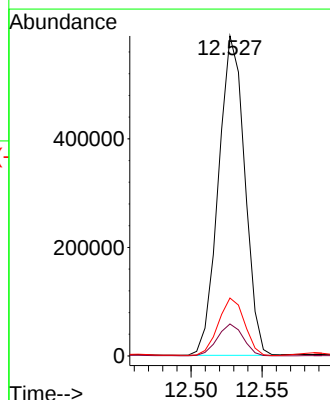
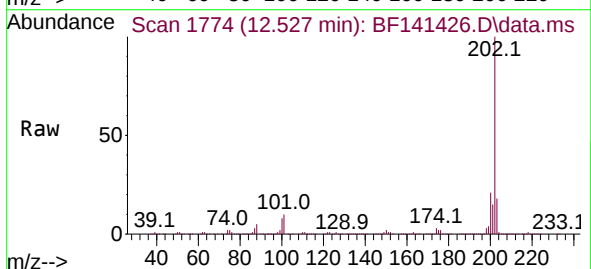
RT: 12.527 min Scan# 1774

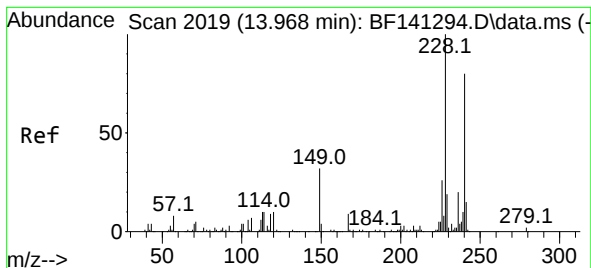
Delta R.T. -0.012 min

Lab File: BF141426.D

Acq: 04 Feb 2025 23:04

Tgt Ion:202 Resp: 755201  
 Ion Ratio Lower Upper  
 202 100  
 101 10.0 0.0 31.7  
 203 18.1 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.018 min

Lab File: BF141426.D

Acq: 04 Feb 2025 23:04

Instrument :

BNA\_F

ClientSampleId :

JPP-46.2-012925DL

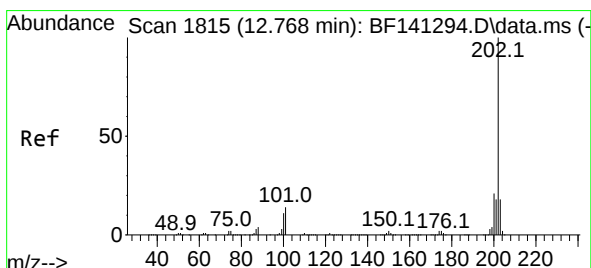
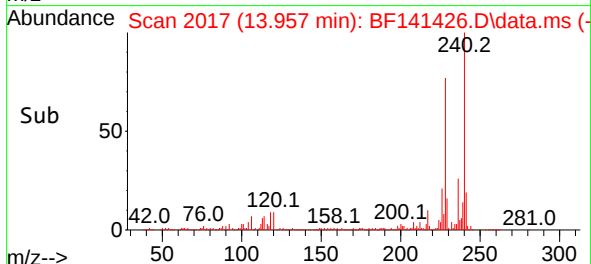
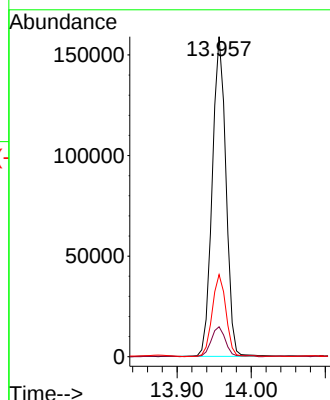
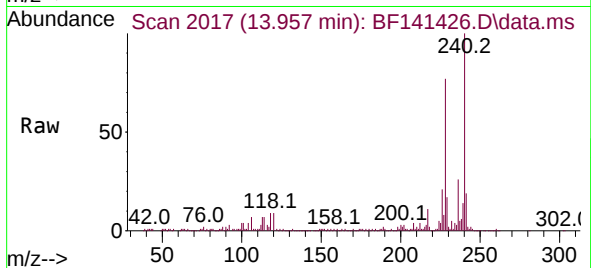
Tgt Ion:240 Resp: 20413  
 Ion Ratio Lower Upper  
 240 100  
 120 9.3 10.0 15.0  
 236 25.7 19.7 29.5

Manual Integrations

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Reviewed By :Yogesh Patel 02/05/2025

Supervised By :mohammad ahmed 02/05/2025



#78

Pyrene

Concen: 37.827 ng

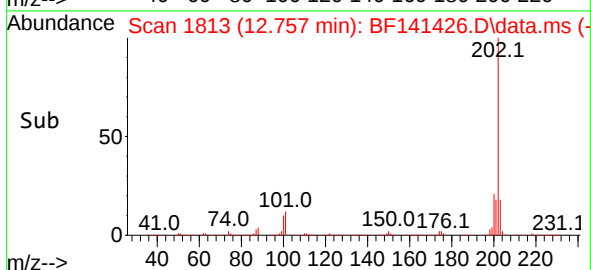
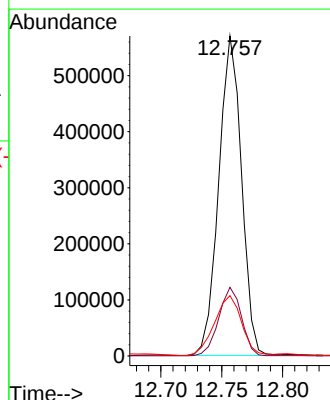
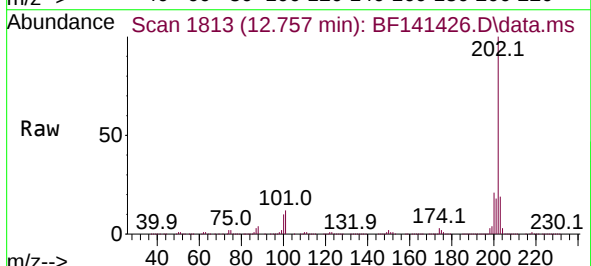
RT: 12.757 min Scan# 1813

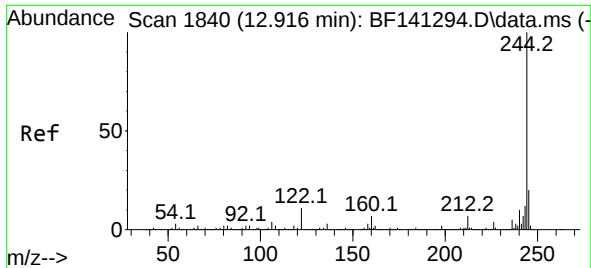
Delta R.T. -0.012 min

Lab File: BF141426.D

Acq: 04 Feb 2025 23:04

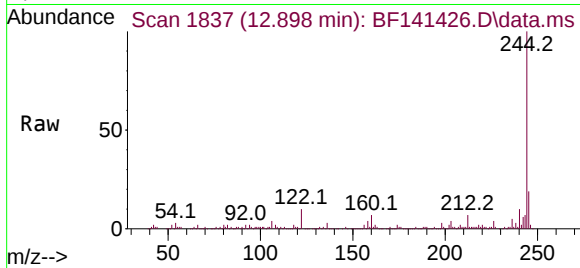
Tgt Ion:202 Resp: 741211  
 Ion Ratio Lower Upper  
 202 100  
 200 21.5 17.0 25.4  
 203 18.8 14.3 21.5





#79  
 Terphenyl-d14  
 Concen: 10.326 ng  
 RT: 12.898 min Scan# 11  
 Delta R.T. -0.018 min  
 Lab File: BF141426.D  
 Acq: 04 Feb 2025 23:04

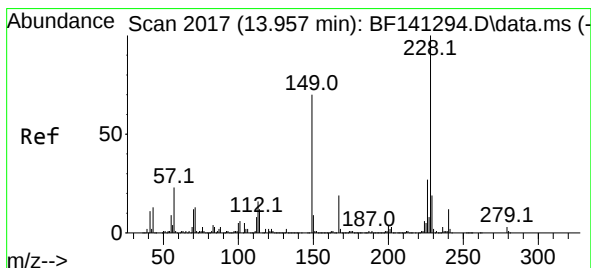
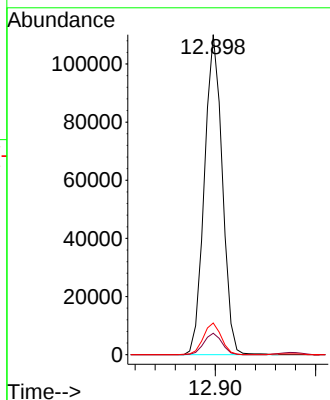
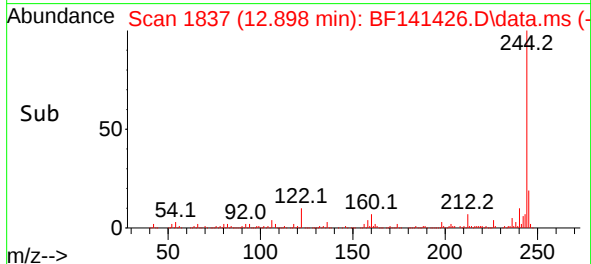
Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-46.2-012925DL



Tgt Ion:244 Resp: 136680  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.4 8.0  
 122 9.9 8.8 13.2

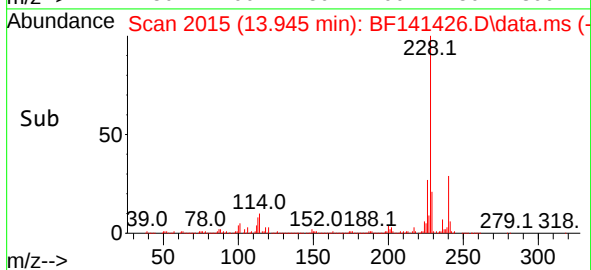
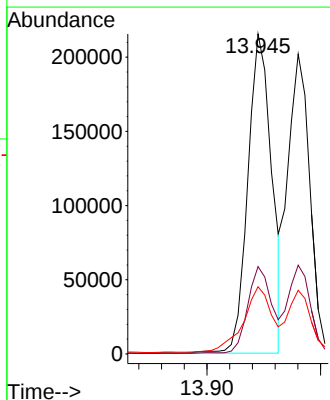
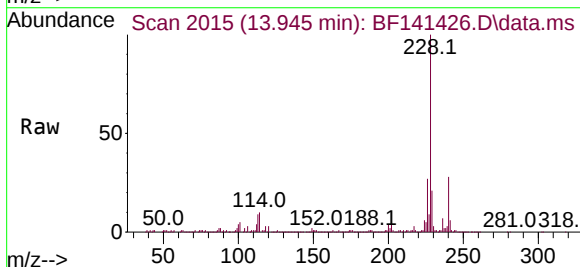
Manual Integrations  
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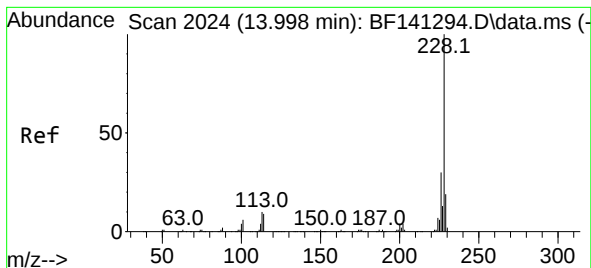
Reviewed By :Yogesh Patel 02/05/2025  
 Supervised By :mohammad ahmed 02/05/2025



#81  
 Benzo(a)anthracene  
 Concen: 22.266 ng  
 RT: 13.945 min Scan# 2015  
 Delta R.T. -0.018 min  
 Lab File: BF141426.D  
 Acq: 04 Feb 2025 23:04

Tgt Ion:228 Resp: 313651  
 Ion Ratio Lower Upper  
 228 100  
 226 27.3 21.4 32.2  
 229 21.0 15.5 23.3





#83

Chrysene

Concen: 20.816 ng

RT: 13.980 min Scan# 20

Delta R.T. -0.018 min

Lab File: BF141426.D

Acq: 04 Feb 2025 23:04

Instrument :

BNA\_F

ClientSampleId :

JPP-46.2-012925DL

Tgt Ion:228 Resp: 26873

Ion Ratio Lower Upper

228 100

226 29.6 24.1 36.1

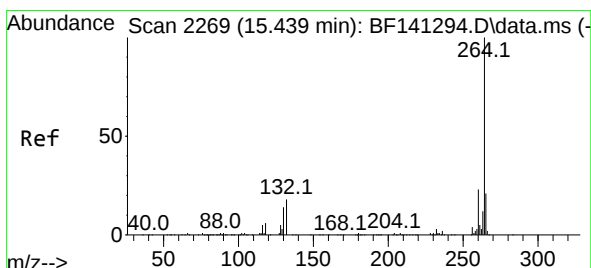
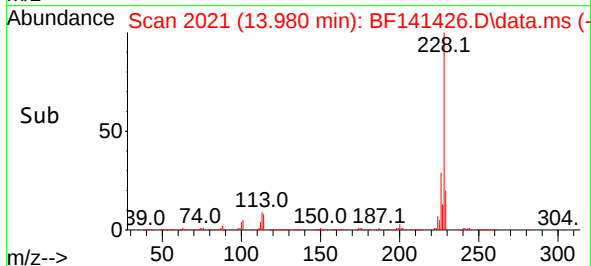
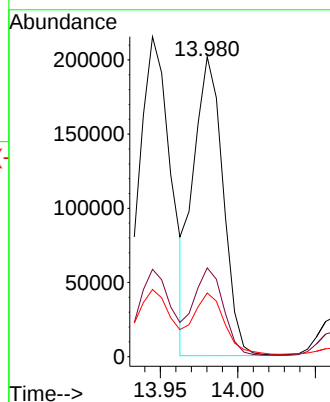
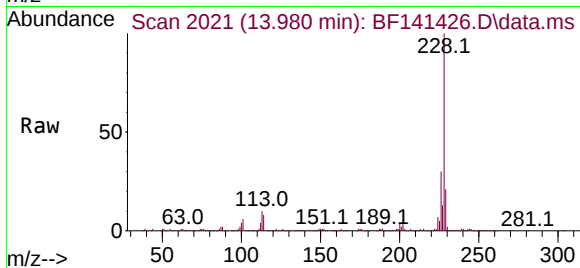
229 21.2 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/05/2025

Supervised By :mohammad ahmed 02/05/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 2265

Delta R.T. -0.024 min

Lab File: BF141426.D

Acq: 04 Feb 2025 23:04

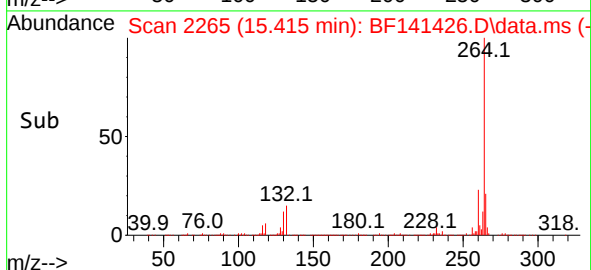
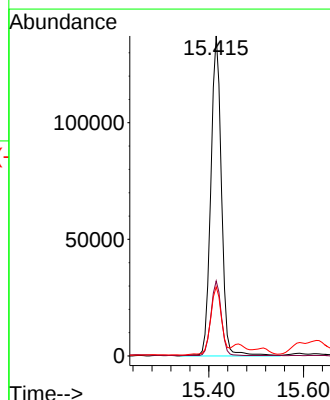
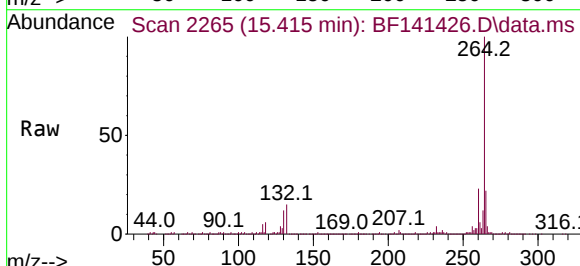
Tgt Ion:264 Resp: 214815

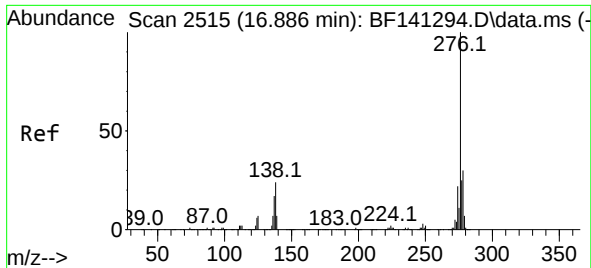
Ion Ratio Lower Upper

264 100

260 23.4 18.6 27.8

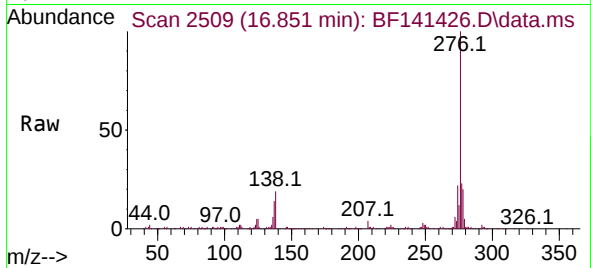
265 21.6 16.7 25.1





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 11.923 ng  
RT: 16.851 min Scan# 2194  
Delta R.T. -0.047 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

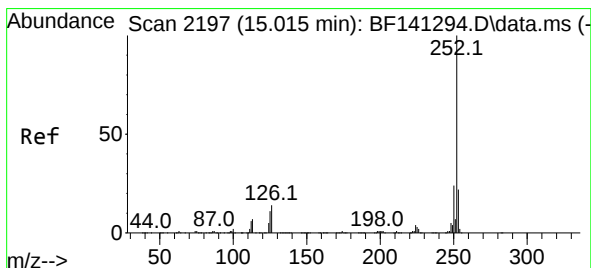
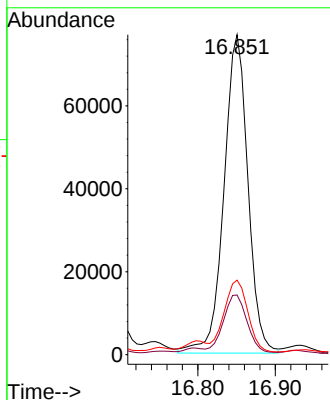
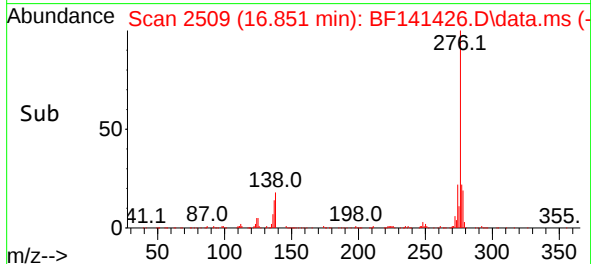
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-46.2-012925DL



Tgt Ion:276 Resp: 16531  
Ion Ratio Lower Upper  
276 100  
138 18.3 21.7 32.5  
277 23.0 20.3 30.5

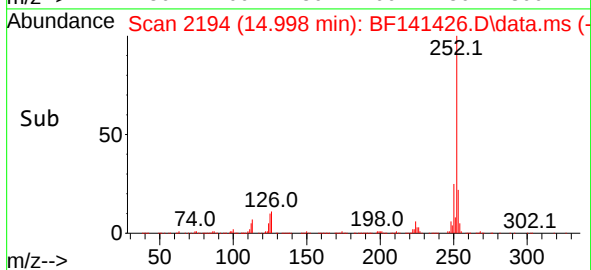
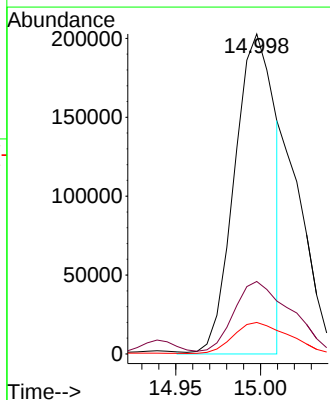
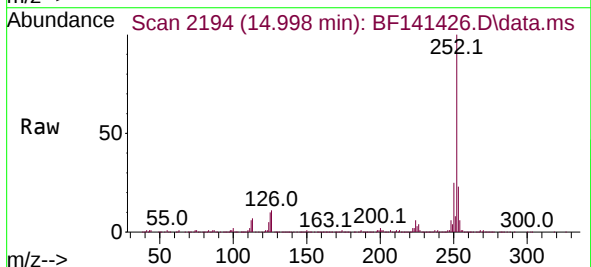
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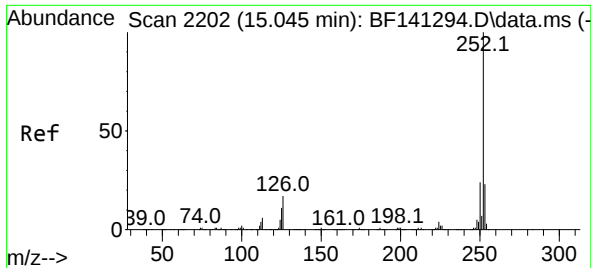
Reviewed By :Yogesh Patel 02/05/2025  
Supervised By :mohammad ahmed 02/05/2025



#88  
Benzo(b)fluoranthene  
Concen: 24.781 ng m  
RT: 14.998 min Scan# 2194  
Delta R.T. -0.024 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

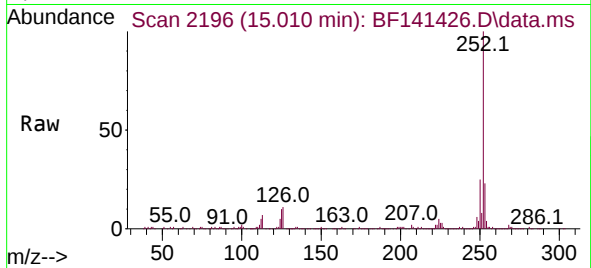
Tgt Ion:252 Resp: 334850  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.4 26.2  
125 9.8 8.6 12.8





#89  
Benzo(k)fluoranthene  
Concen: 10.918 ng m  
RT: 15.010 min Scan# 2196  
Delta R.T. -0.041 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

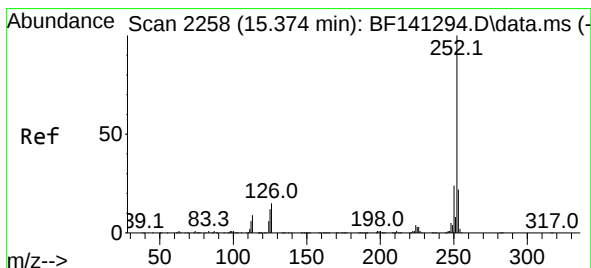
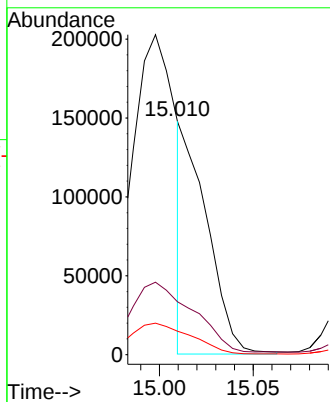
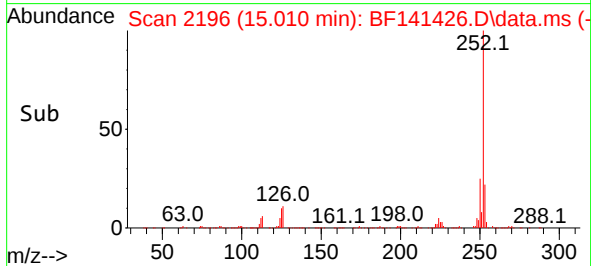
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-46.2-012925DL



Tgt Ion:252 Resp: 130698  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.6 26.4  
125 10.1 8.4 12.6

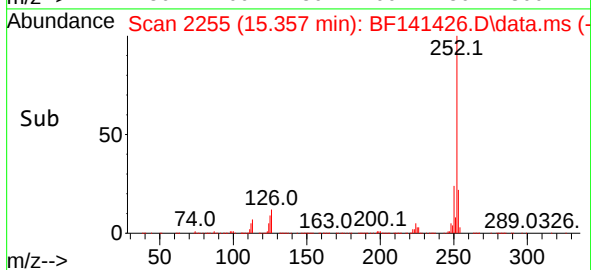
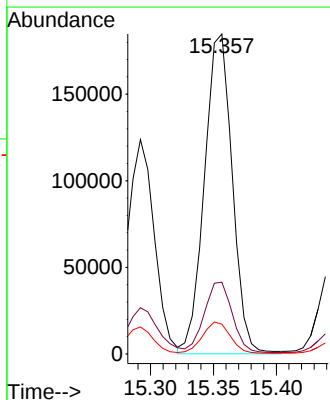
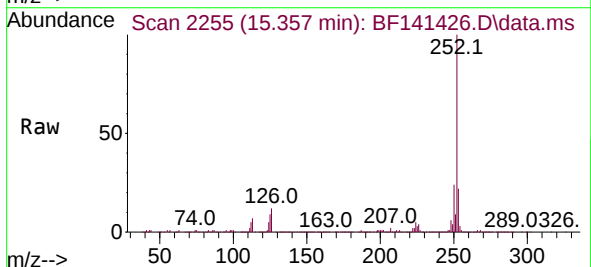
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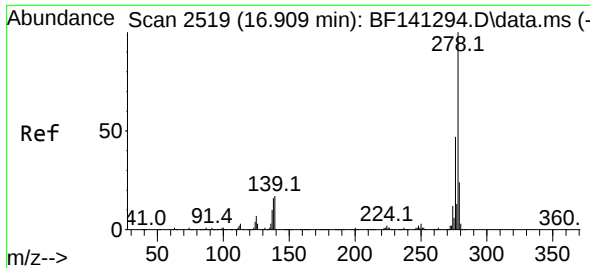
Reviewed By :Yogesh Patel 02/05/2025  
Supervised By :mohammad ahmed 02/05/2025



#90  
Benzo(a)pyrene  
Concen: 24.911 ng m  
RT: 15.357 min Scan# 2255  
Delta R.T. -0.024 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

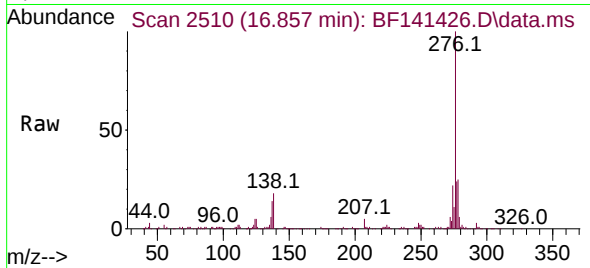
Tgt Ion:252 Resp: 284450  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.2 25.8  
125 9.3 9.4 14.2#





#91  
Dibenzo(a,h)anthracene  
Concen: 3.696 ng m  
RT: 16.857 min Scan# 21  
Delta R.T. -0.065 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

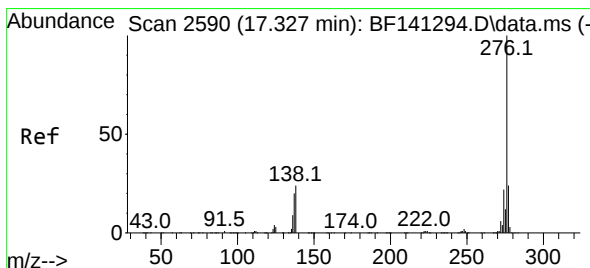
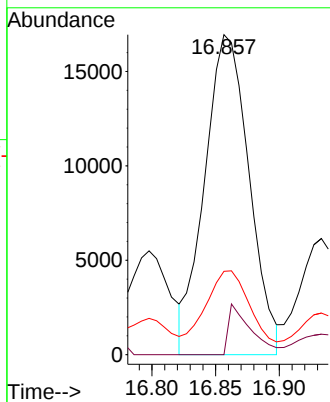
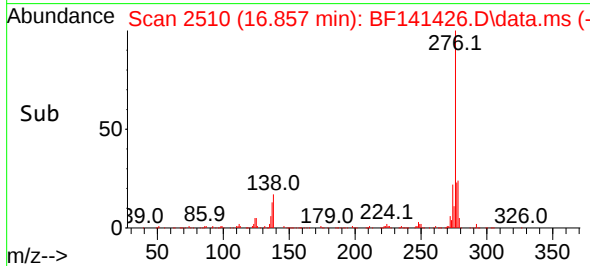
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-46.2-012925DL



Tgt Ion:278 Resp: 4123  
Ion Ratio Lower Upper  
278 100  
139 0.0 13.9 20.9  
279 26.1 18.8 28.2

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 02/05/2025  
Supervised By :mohammad ahmed 02/05/2025



#92  
Benzo(g,h,i)perylene  
Concen: 13.310 ng  
RT: 17.286 min Scan# 2583  
Delta R.T. -0.059 min  
Lab File: BF141426.D  
Acq: 04 Feb 2025 23:04

Tgt Ion:276 Resp: 154375  
Ion Ratio Lower Upper  
276 100  
277 23.9 19.2 28.8  
138 19.7 19.0 28.4

