

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082224\  
 Data File : BM047322.D  
 Acq On : 22 Aug 2024 18:29  
 Operator : RC/JU  
 Sample : P3671-08  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 S-905-J-SO-0.5-1.0-081924

Manual Integrations  
 APPROVED

Reviewed By :Yogesh  
 Patel

Quant Time: Aug 23 02:40:32 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM081024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Aug 11 23:47:58 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |                                  |
|-----------------------------|--------|------|----------|--------|-------|----------|----------------------------------|
| Internal Standards          |        |      |          |        |       |          | 08/23/2024                       |
| 1) 1,4-Dichlorobenzene-d4   | 7.351  | 152  | 265711   | 20.000 | ng    | -0.02    | Supervised By :mohammad<br>anned |
| 21) Naphthalene-d8          | 10.104 | 136  | 1004297  | 20.000 | ng    | -0.03    |                                  |
| 39) Acenaphthene-d10        | 14.010 | 164  | 664742   | 20.000 | ng    | -0.02    |                                  |
| 64) Phenanthrene-d10        | 16.774 | 188  | 1391490  | 20.000 | ng    | -0.02    |                                  |
| 76) Chrysene-d12            | 21.021 | 240  | 1222867  | 20.000 | ng    | -0.01    |                                  |
| 86) Perylene-d12            | 23.709 | 264  | 1213445  | 20.000 | ng    | -0.02    | 08/23/2024                       |
| System Monitoring Compounds |        |      |          |        |       |          |                                  |
| 5) 2-Fluorophenol           | 5.010  | 112  | 1065207  | 71.633 | ng    | -0.01    |                                  |
| 7) Phenol-d6                | 6.569  | 99   | 1414544  | 69.035 | ng    | -0.02    |                                  |
| 23) Nitrobenzene-d5         | 8.498  | 82   | 912386   | 45.745 | ng    | -0.02    |                                  |
| 42) 2,4,6-Tribromophenol    | 15.522 | 330  | 590126   | 76.562 | ng    | -0.02    |                                  |
| 45) 2-Fluorobiphenyl        | 12.616 | 172  | 1735293  | 40.267 | ng    | -0.03    |                                  |
| 79) Terphenyl-d14           | 19.445 | 244  | 2555748  | 44.783 | ng    | -0.02    |                                  |
| Target Compounds            |        |      |          |        |       |          | Qvalue                           |
| 52) Acenaphthene            | 14.075 | 154  | 90060    | 2.604  | ng    |          | 98                               |
| 58) Fluorene                | 15.075 | 166  | 83316    | 1.848  | ng    |          | 100                              |
| 71) Phenanthrene            | 16.816 | 178  | 1328548  | 19.025 | ng    |          | 100                              |
| 72) Anthracene              | 16.910 | 178  | 318316   | 4.685  | ng    |          | 99                               |
| 73) Carbazole               | 17.198 | 167  | 156999   | 2.263  | ng    |          | 99                               |
| 75) Fluoranthene            | 18.857 | 202  | 3697841  | 43.535 | ng    |          | 99                               |
| 78) Pyrene                  | 19.221 | 202  | 3512349  | 40.226 | ng    |          | 99                               |
| 81) Benzo(a)anthracene      | 21.004 | 228  | 2601641  | 32.047 | ng    |          | 99                               |
| 83) Chrysene                | 21.057 | 228  | 2056904  | 26.705 | ng    |          | 97                               |
| 87) Indeno(1,2,3-cd)pyrene  | 26.691 | 276  | 829574   | 10.577 | ng    | #        | 94                               |
| 88) Benzo(b)fluoranthene    | 22.874 | 252  | 2568508  | 35.643 | ng    |          | 99                               |
| 89) Benzo(k)fluoranthene    | 22.921 | 252  | 1016397m | 14.933 | ng    |          |                                  |
| 90) Benzo(a)pyrene          | 23.586 | 252  | 1774318  | 28.423 | ng    |          | 97                               |
| 91) Dibenzo(a,h)anthracene  | 26.727 | 278  | 220194   | 3.469  | ng    |          | 95                               |
| 92) Benzo(g,h,i)perylene    | 27.621 | 276  | 725247   | 11.005 | ng    |          | 98                               |

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

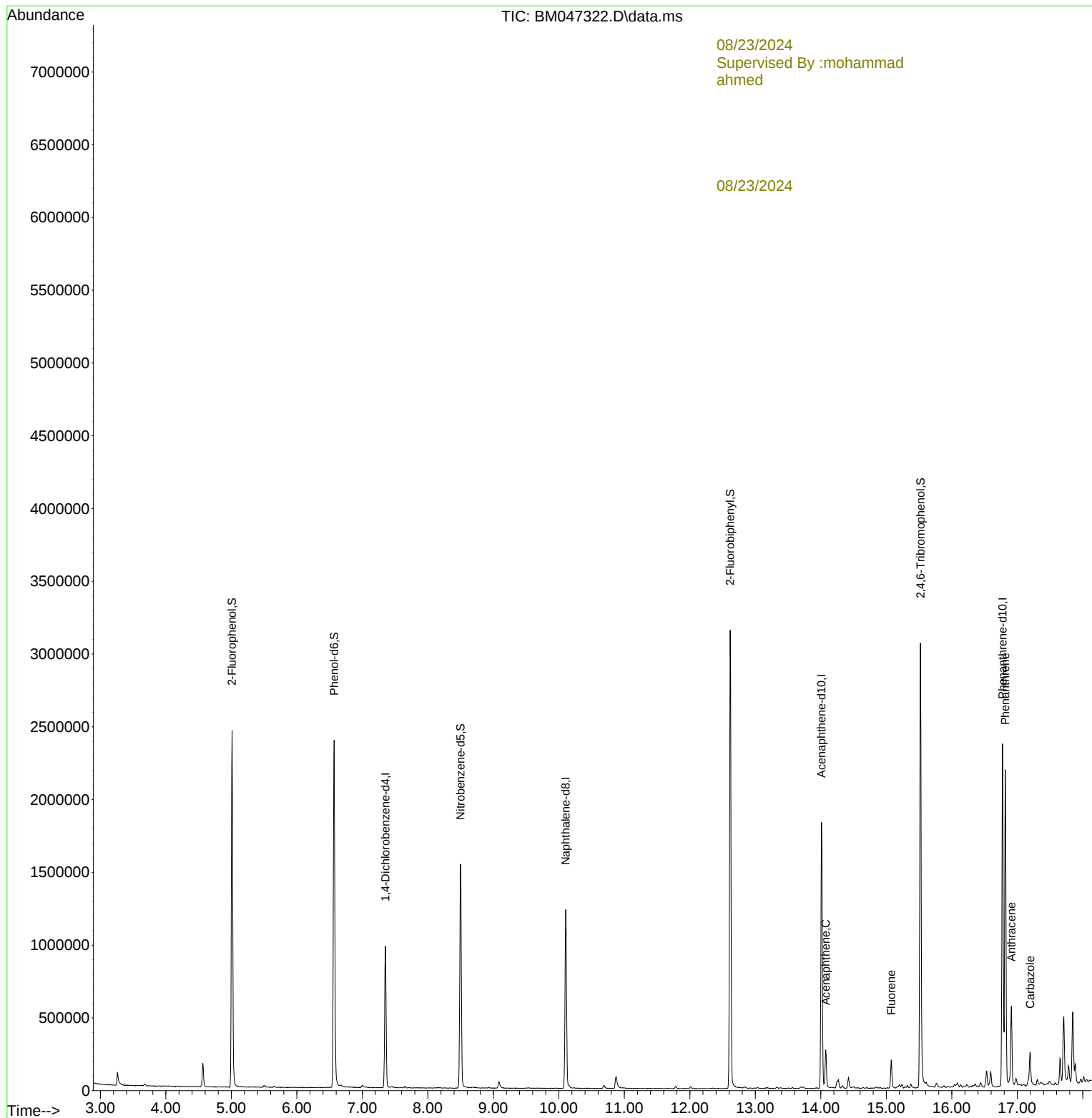
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082224\  
Data File : BM047322.D  
Acq On : 22 Aug 2024 18:29  
Operator : RC/JU  
Sample : P3671-08  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924

Quant Time: Aug 23 02:40:32 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM081024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Aug 11 23:47:58 2024  
Response via : Initial Calibration

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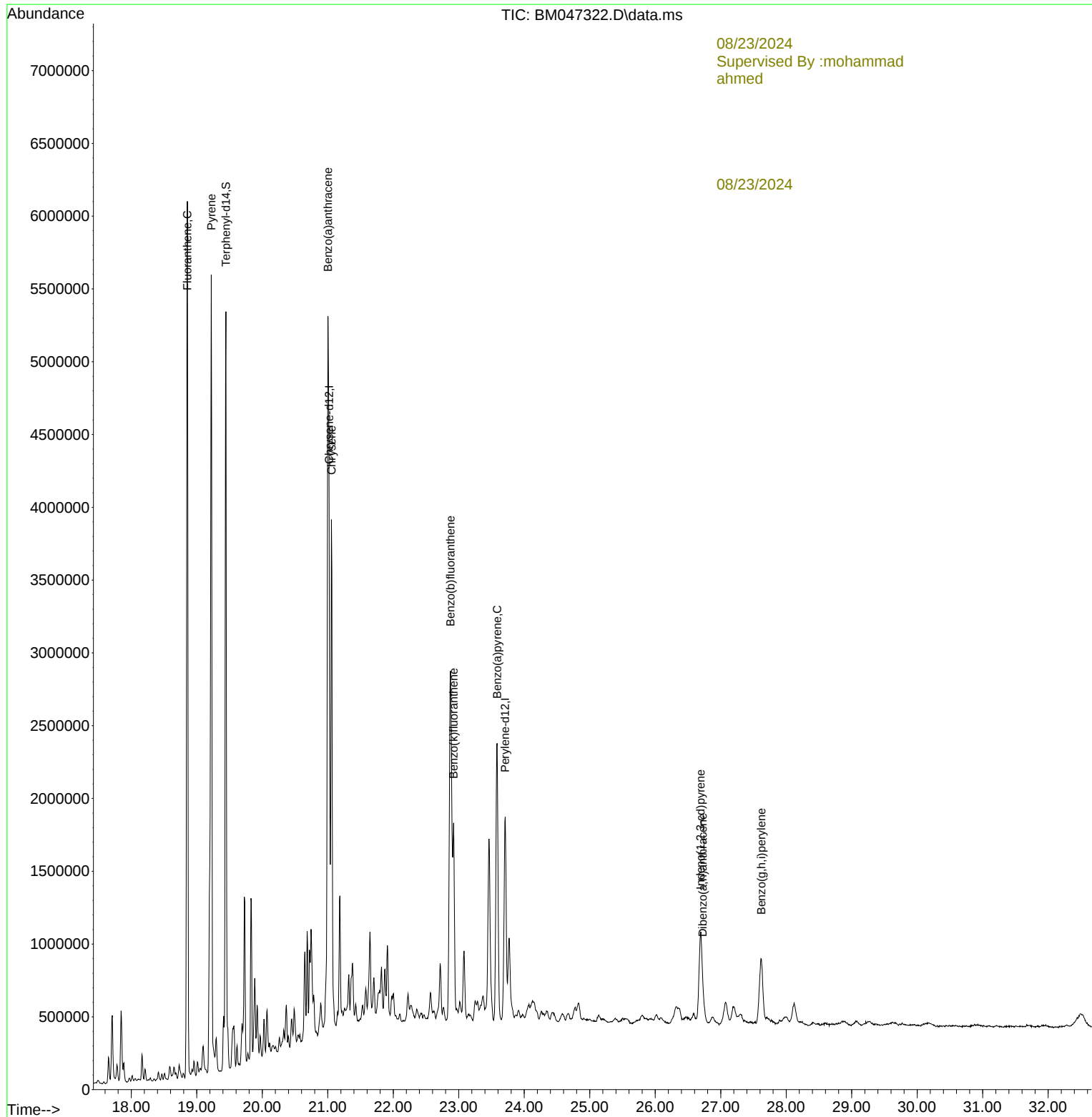
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Data File : BM047322.D  
Acq On : 22 Aug 2024 18:29  
Operator : RC/JU  
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ALS Vial : 16 Sample Multiplier: 1

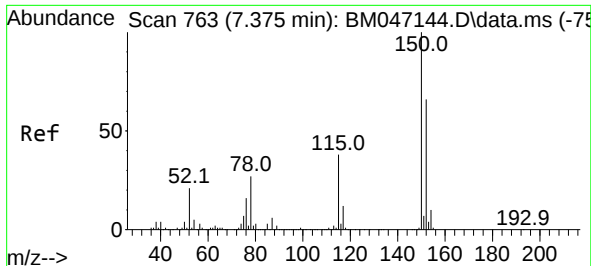
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BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924

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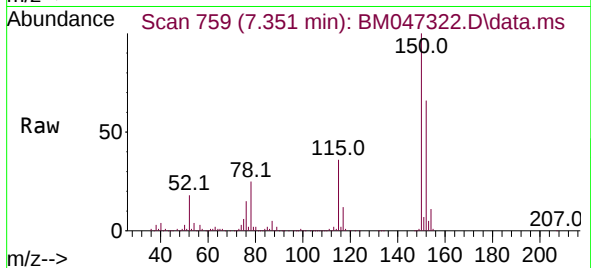
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM081024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Aug 11 23:47:58 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.351 min Scan# 70  
Delta R.T. -0.024 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

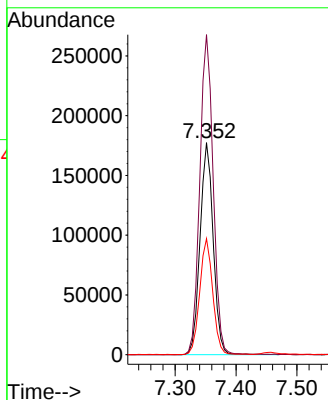
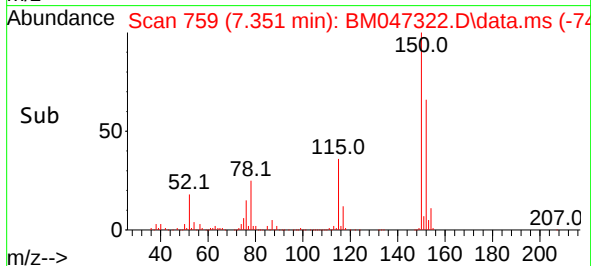
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion:152 Resp: 26571  
Ion Ratio Lower Upper  
152 100  
150 151.0 120.5 180.7  
115 54.7 45.5 68.3

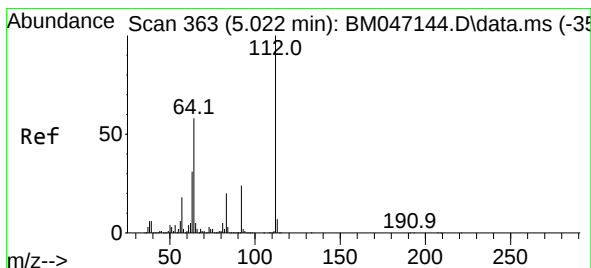
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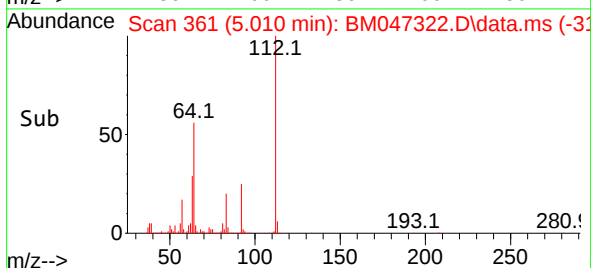
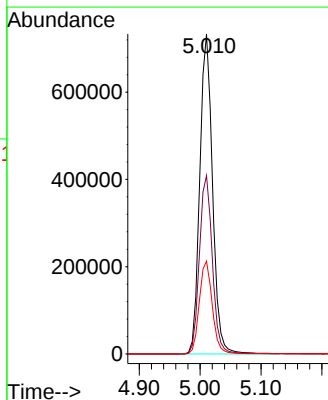
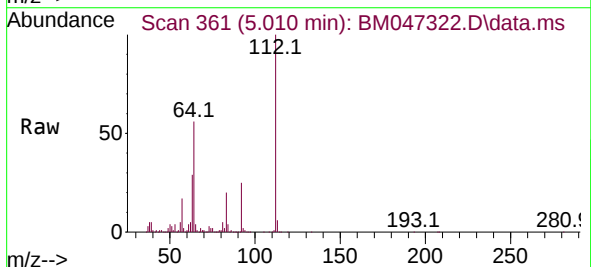
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ahmed

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#5  
2-Fluorophenol  
Concen: 71.633 ng  
RT: 5.010 min Scan# 361  
Delta R.T. -0.012 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

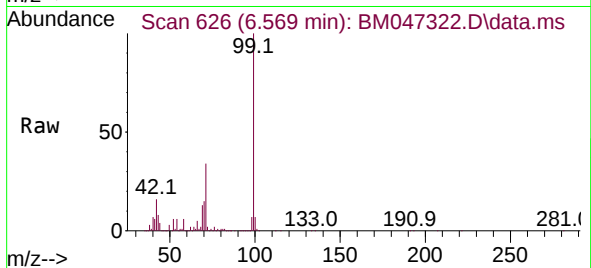
Tgt Ion:112 Resp: 1065207  
Ion Ratio Lower Upper  
112 100  
64 55.8 46.7 70.1  
63 29.0 24.8 37.2





#7  
Phenol-d6  
Concen: 69.035 ng  
RT: 6.569 min Scan# 61  
Delta R.T. -0.018 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

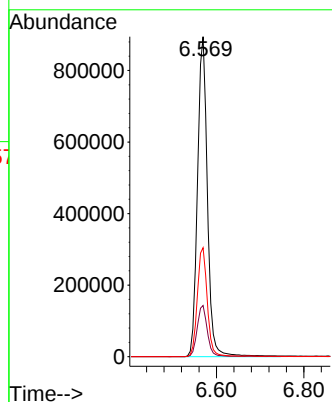
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion: 99 Resp: 1414544  
Ion Ratio Lower Upper  
99 100  
42 16.0 14.1 21.1  
71 34.0 28.5 42.7

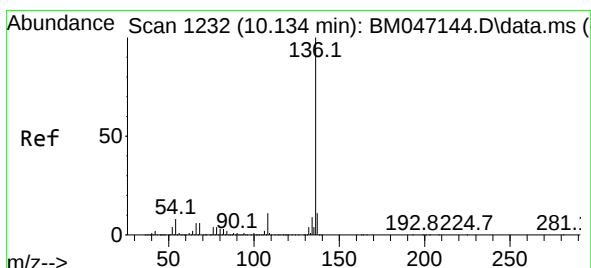
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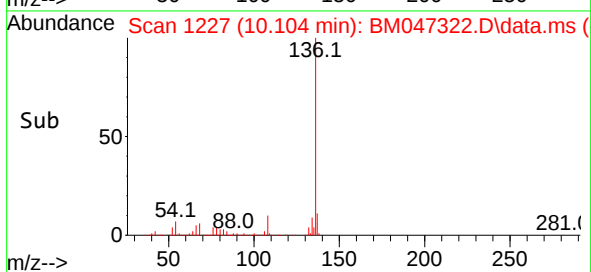
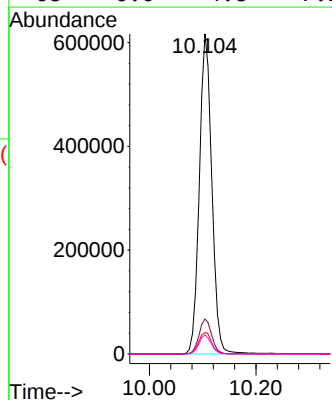
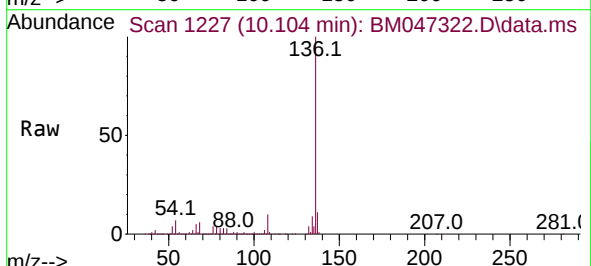
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.104 min Scan# 1227  
Delta R.T. -0.029 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

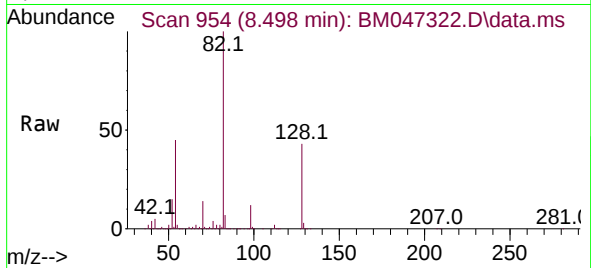
Tgt Ion:136 Resp: 1004297  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.8 13.2  
54 6.7 6.0 9.0  
68 6.0 4.8 7.2





#23  
Nitrobenzene-d5  
Concen: 45.745 ng  
RT: 8.498 min Scan# 912380  
Delta R.T. -0.024 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

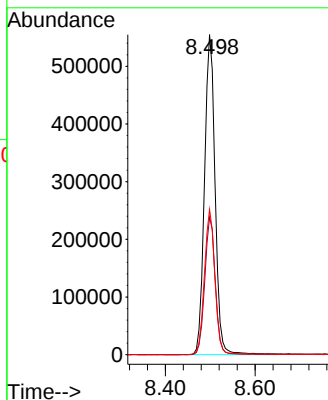
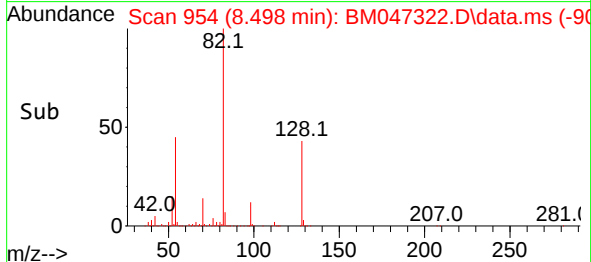
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion: 82 Resp: 912380  
Ion Ratio Lower Upper  
82 100  
128 43.0 32.3 48.5  
54 45.4 37.4 56.2

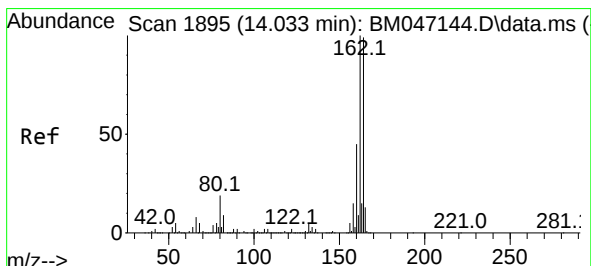
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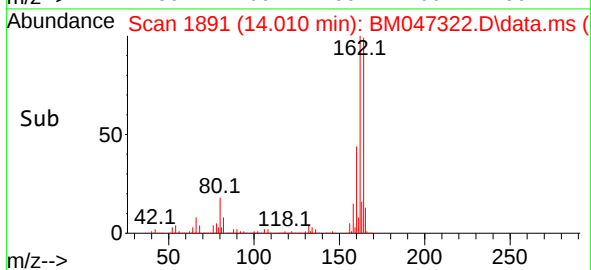
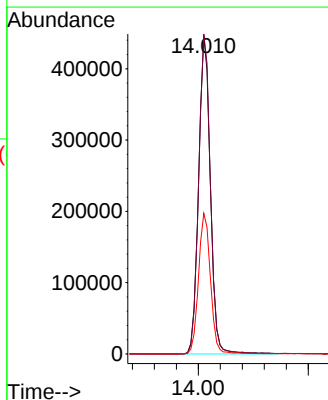
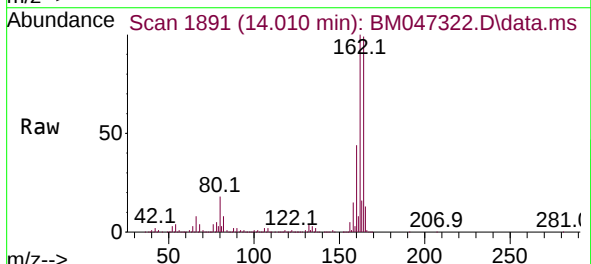
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.010 min Scan# 1891  
Delta R.T. -0.024 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

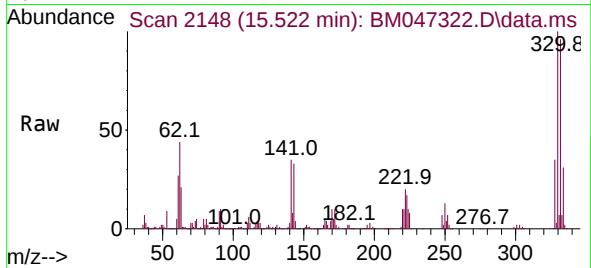
Tgt Ion:164 Resp: 664742  
Ion Ratio Lower Upper  
164 100  
162 100.7 80.7 121.1  
160 44.3 36.0 54.0





#42  
2,4,6-Tribromophenol  
Concen: 76.562 ng  
RT: 15.522 min Scan# 2151  
Delta R.T. -0.018 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

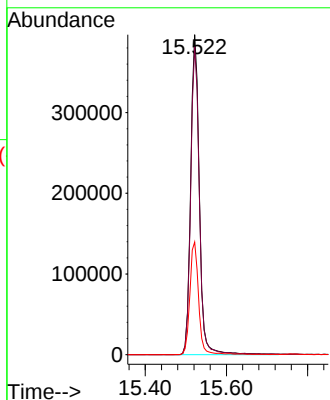
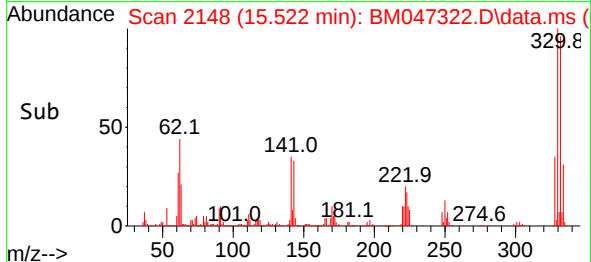
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion:330 Resp: 590120  
Ion Ratio Lower Upper  
330 100  
332 95.7 77.4 116.2  
141 35.3 31.6 47.4

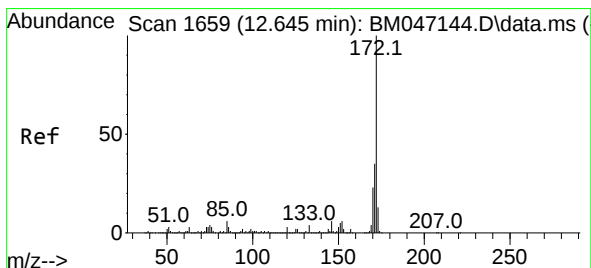
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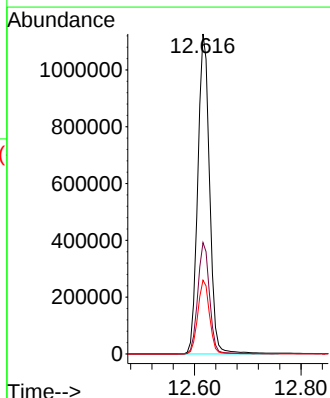
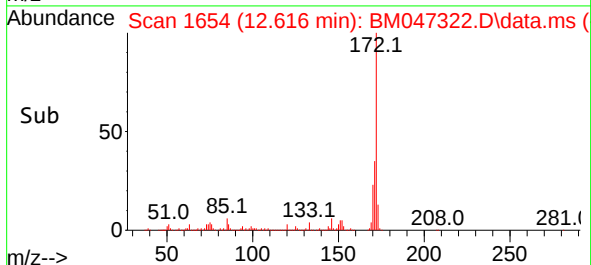
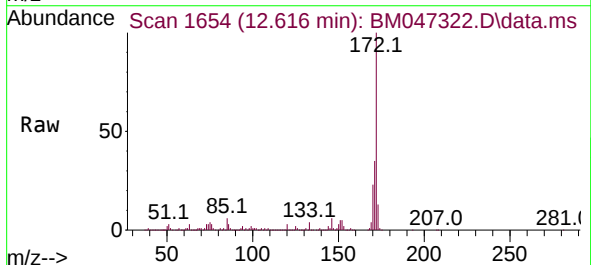
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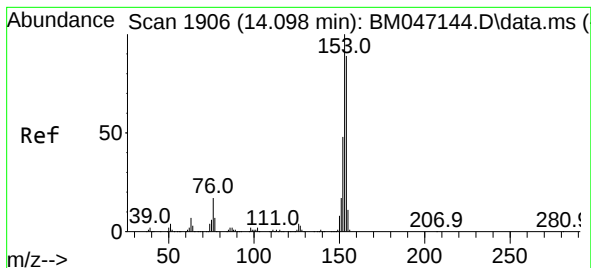
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#45  
2-Fluorobiphenyl  
Concen: 40.267 ng  
RT: 12.616 min Scan# 1654  
Delta R.T. -0.029 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

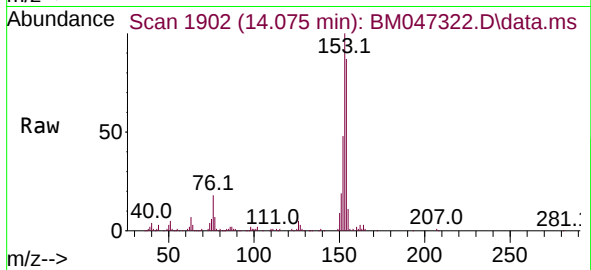
Tgt Ion:172 Resp: 1735293  
Ion Ratio Lower Upper  
172 100  
171 34.8 27.8 41.6  
170 23.0 18.7 28.1





#52  
Acenaphthene  
Concen: 2.604 ng  
RT: 14.075 min Scan# 1906  
Delta R.T. -0.024 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

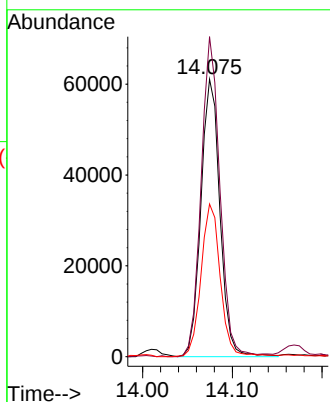
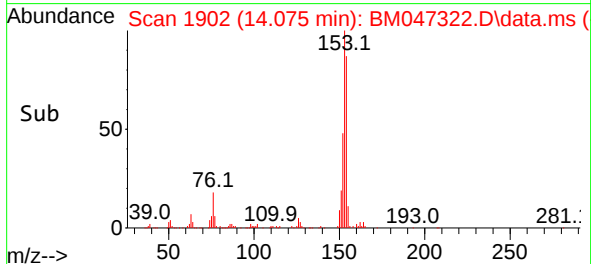
Instrument :  
BNA\_M  
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S-905-J-SO-0.5-1.0-081924



Tgt Ion:154 Resp: 90060  
Ion Ratio Lower Upper  
154 100  
153 115.4 90.3 135.5  
152 55.1 42.9 64.3

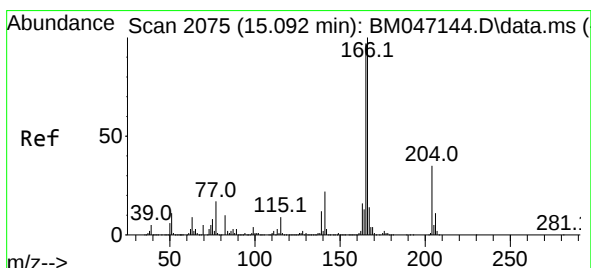
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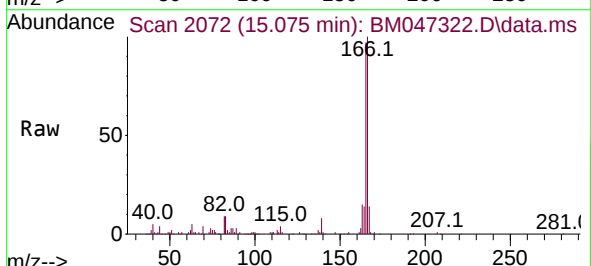


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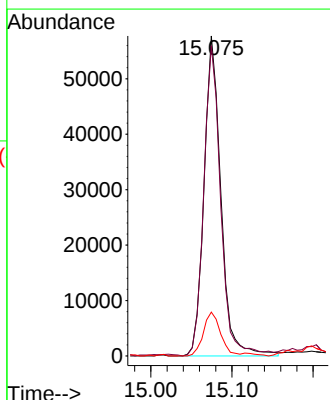
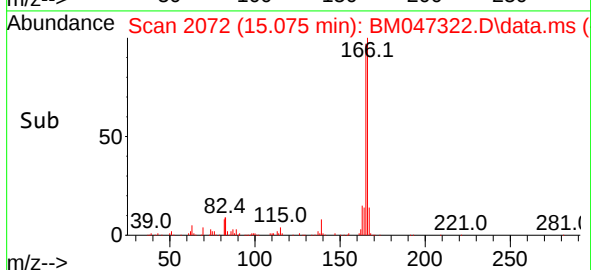
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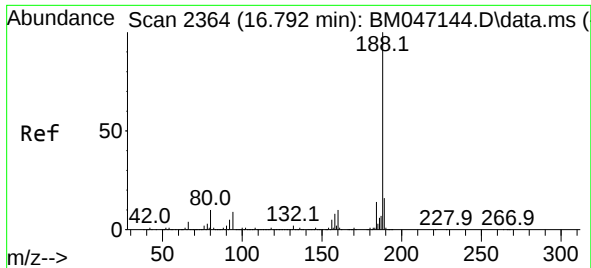


#58  
Fluorene  
Concen: 1.848 ng  
RT: 15.075 min Scan# 2072  
Delta R.T. -0.018 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29



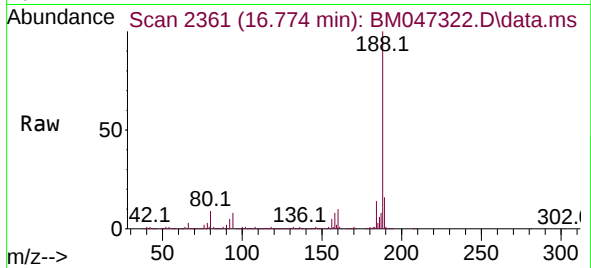
Tgt Ion:166 Resp: 83316  
Ion Ratio Lower Upper  
166 100  
165 96.9 77.4 116.0  
167 13.7 11.0 16.6





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.774 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

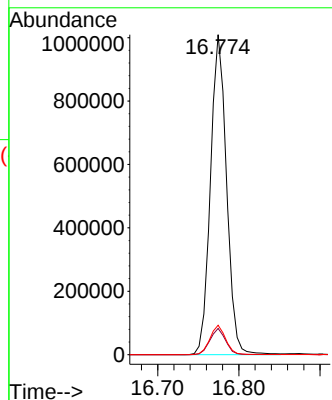
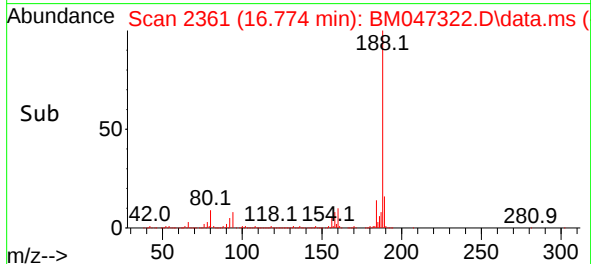
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion:188 Resp: 1391490  
Ion Ratio Lower Upper  
188 100  
94 8.2 7.0 10.6  
80 9.2 8.0 12.0

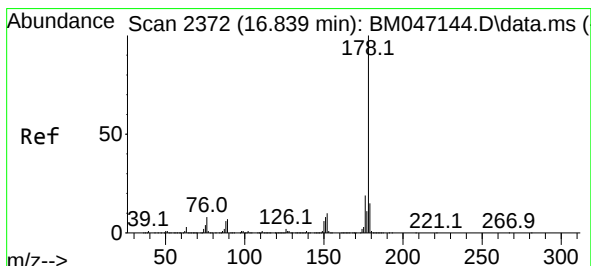
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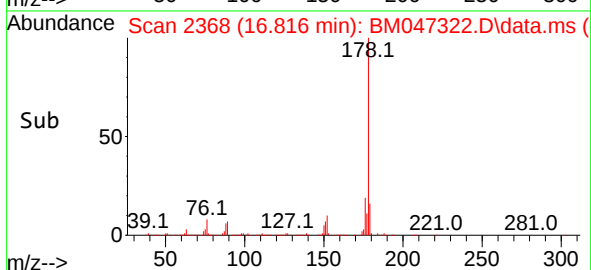
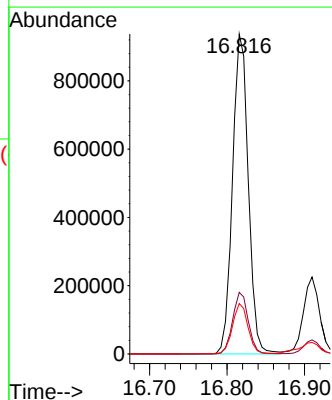
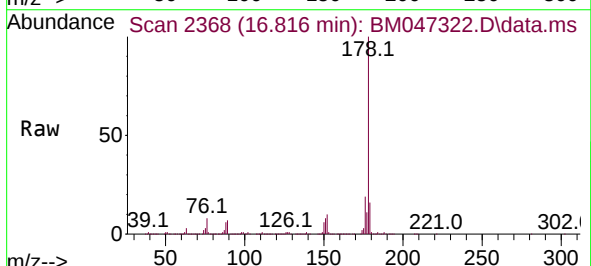
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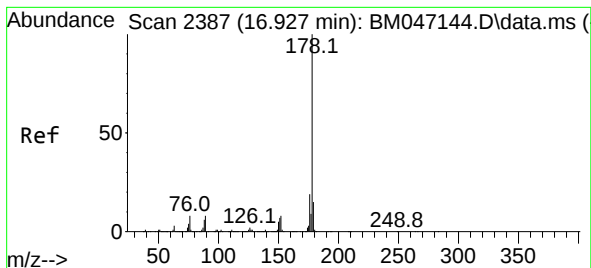
08/23/2024



#71  
Phenanthrene  
Concen: 19.025 ng  
RT: 16.816 min Scan# 2368  
Delta R.T. -0.024 min  
Lab File: BM047322.D  
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Tgt Ion:178 Resp: 1328548  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.3 22.9  
179 15.8 12.4 18.6





#72

Anthracene

Concen: 4.685 ng

RT: 16.910 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM047322.D

Acq: 22 Aug 2024 18:29

Instrument :

BNA\_M

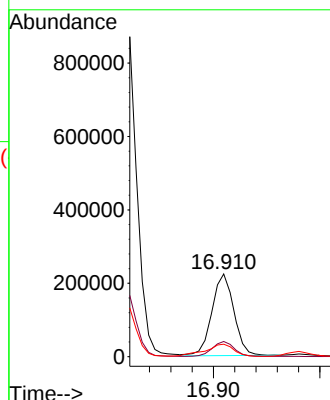
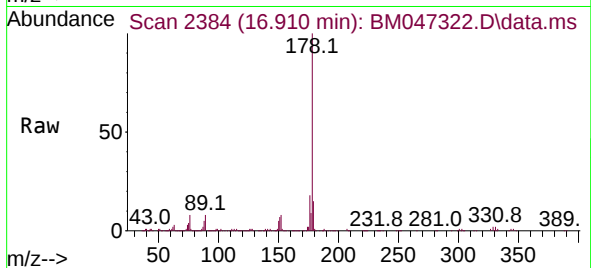
ClientSampleId :

S-905-J-SO-0.5-1.0-081924

Tgt Ion:178 Resp: 318310  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 14.8 22.2  
 179 15.1 12.4 18.6

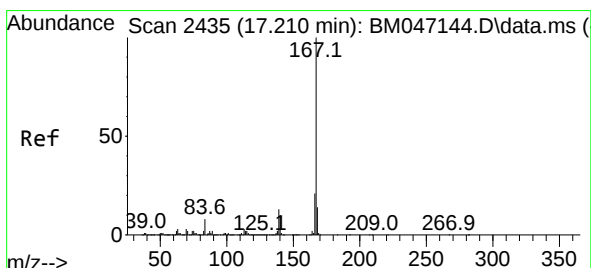
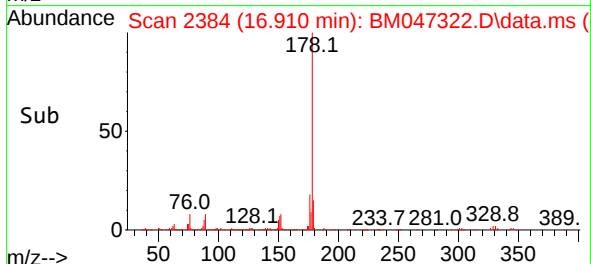
Manual Integrations  
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Reviewed By :Yogesh  
 Patel



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 Supervised By :mohammad  
 ahmed

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#73

Carbazole

Concen: 2.263 ng

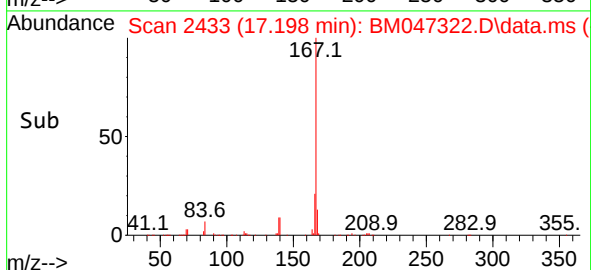
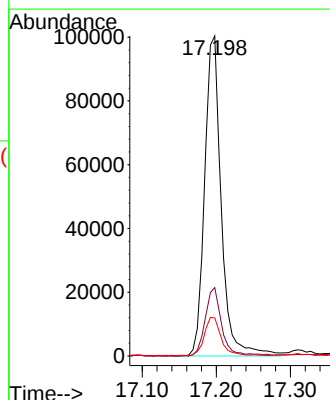
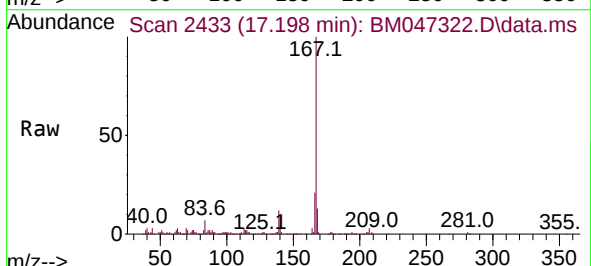
RT: 17.198 min Scan# 2433

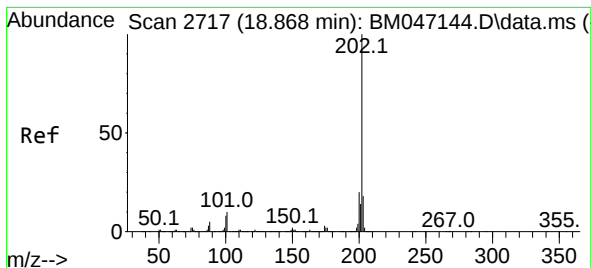
Delta R.T. -0.012 min

Lab File: BM047322.D

Acq: 22 Aug 2024 18:29

Tgt Ion:167 Resp: 156999  
 Ion Ratio Lower Upper  
 167 100  
 166 21.4 17.1 25.7  
 139 11.9 10.0 15.0





#75

Fluoranthene

Concen: 43.535 ng

RT: 18.857 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047322.D

Acq: 22 Aug 2024 18:29

Instrument :

BNA\_M

ClientSampleId :

S-905-J-SO-0.5-1.0-081924

Tgt Ion:202 Resp: 369784

Ion Ratio Lower Upper

202 100

101 9.0 0.0 30.2

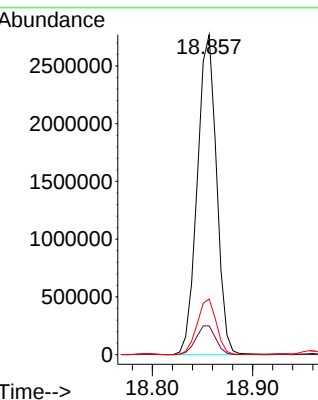
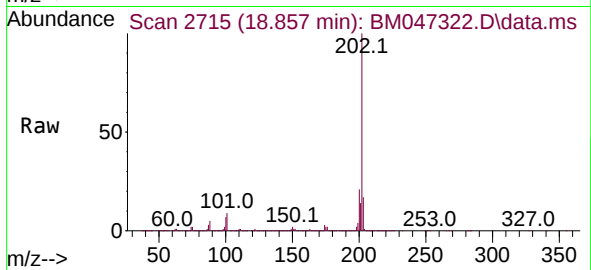
203 17.4 0.0 37.6

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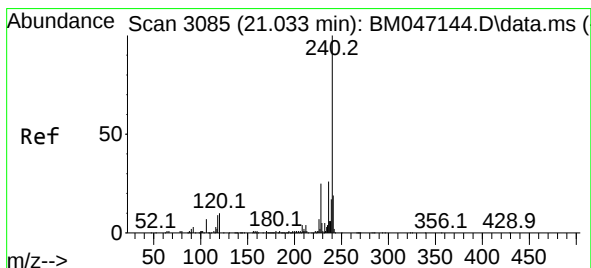
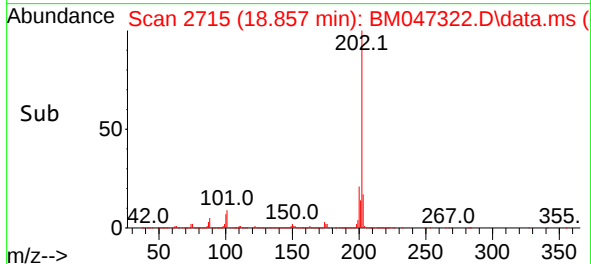
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#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.021 min Scan# 3083

Delta R.T. -0.012 min

Lab File: BM047322.D

Acq: 22 Aug 2024 18:29

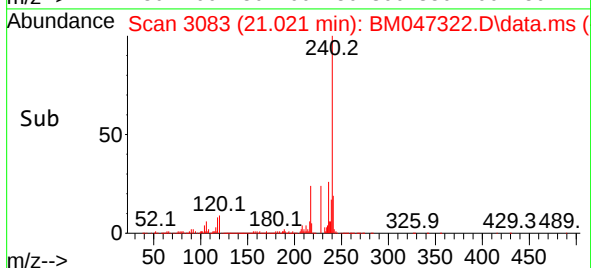
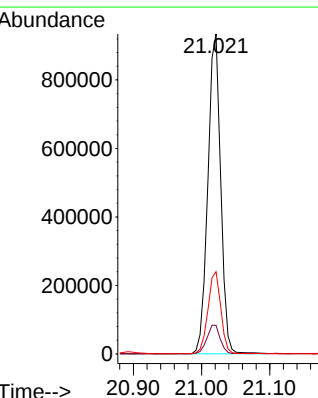
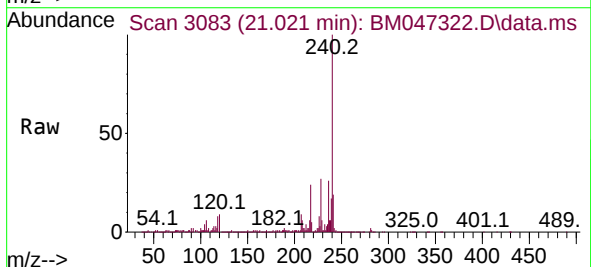
Tgt Ion:240 Resp: 1222867

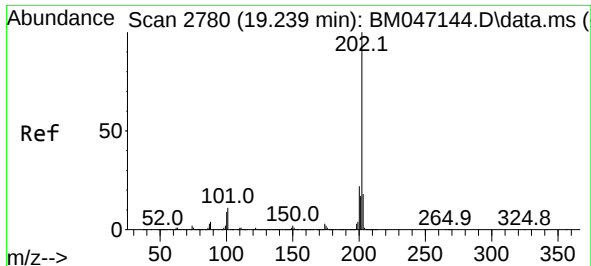
Ion Ratio Lower Upper

240 100

120 9.0 8.2 12.2

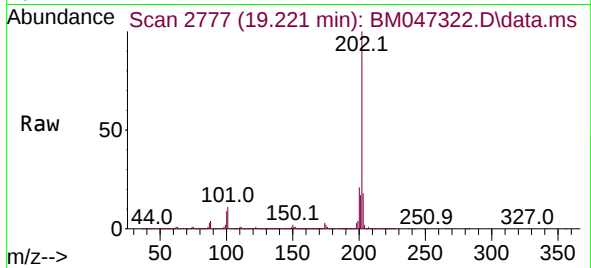
236 25.7 20.6 30.8





#78  
Pyrene  
Concen: 40.226 ng  
RT: 19.221 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

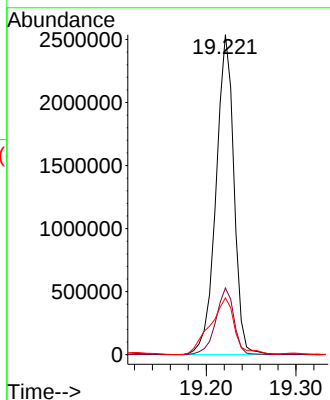
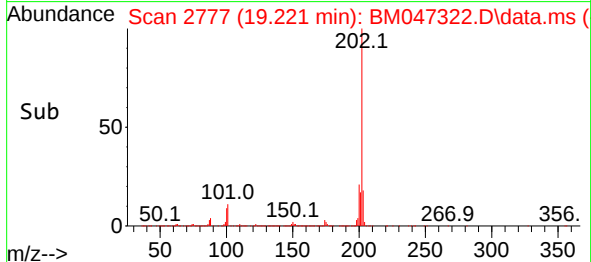
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion:202 Resp: 3512349  
Ion Ratio Lower Upper  
202 100  
200 20.8 17.2 25.8  
203 17.7 14.2 21.2

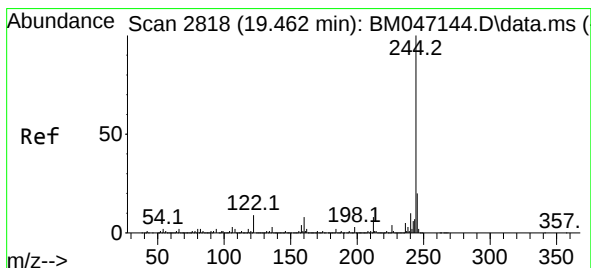
Manual Integrations  
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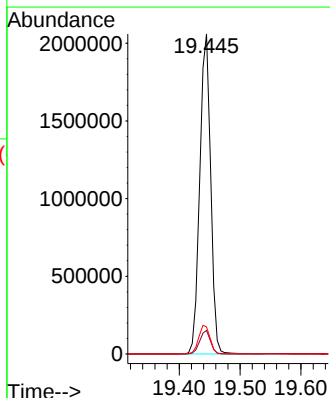
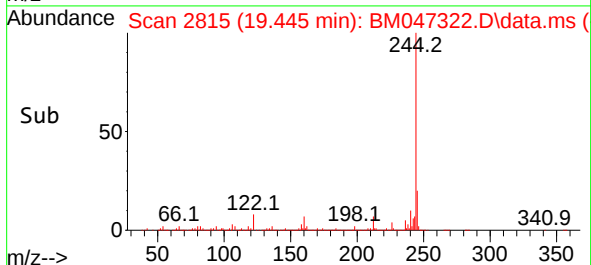
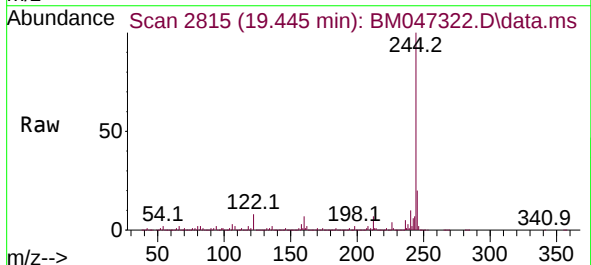
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Supervised By :mohammad  
ahmed

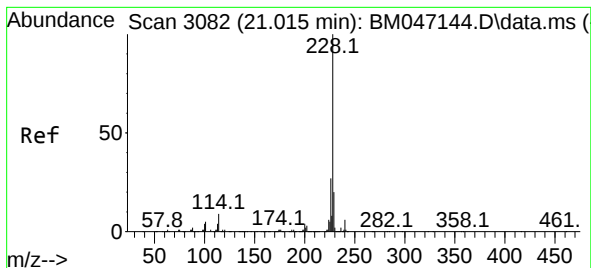
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#79  
Terphenyl-d14  
Concen: 44.783 ng  
RT: 19.445 min Scan# 2815  
Delta R.T. -0.018 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

Tgt Ion:244 Resp: 2555748  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.2 9.4  
122 8.5 7.1 10.7





#81

Benzo(a)anthracene

Concen: 32.047 ng

RT: 21.004 min Scan# 3082

Delta R.T. -0.012 min

Lab File: BM047322.D

Acq: 22 Aug 2024 18:29

Instrument :

BNA\_M

ClientSampleId :

S-905-J-SO-0.5-1.0-081924

Tgt Ion:228 Resp: 260164

Ion Ratio Lower Upper

228 100

226 27.5 21.8 32.6

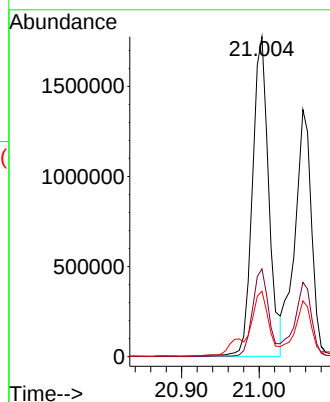
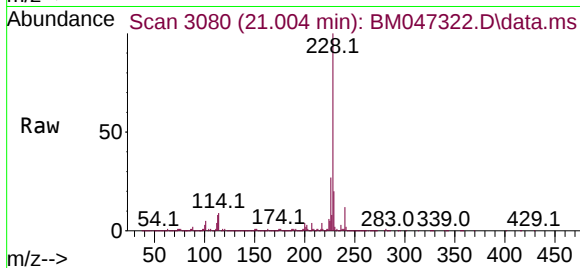
229 20.4 15.8 23.8

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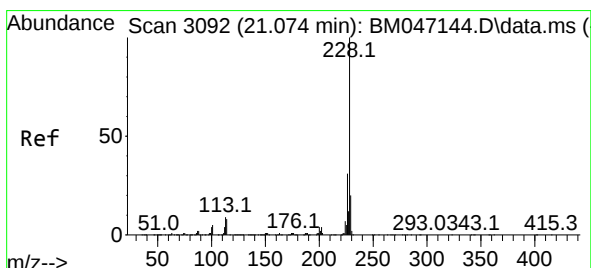
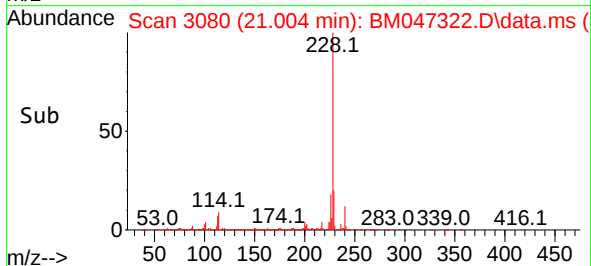
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#83

Chrysene

Concen: 26.705 ng

RT: 21.057 min Scan# 3089

Delta R.T. -0.018 min

Lab File: BM047322.D

Acq: 22 Aug 2024 18:29

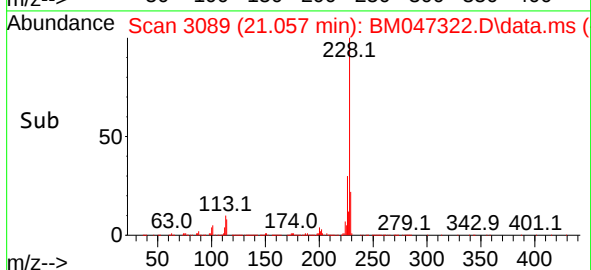
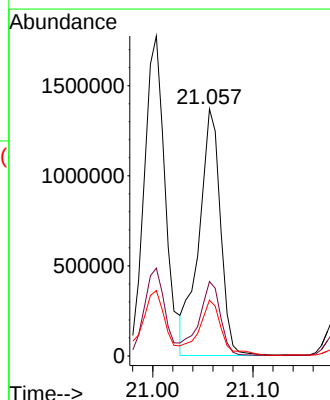
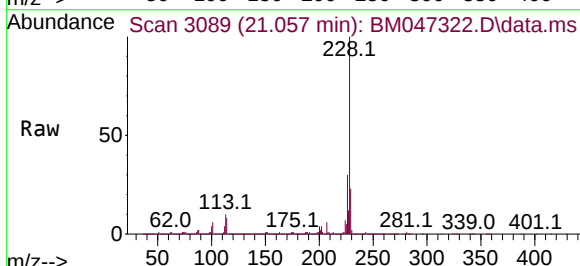
Tgt Ion:228 Resp: 2056904

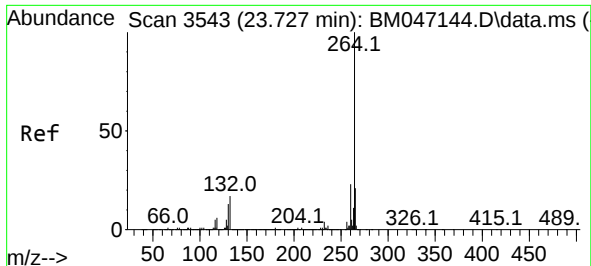
Ion Ratio Lower Upper

228 100

226 30.1 24.4 36.6

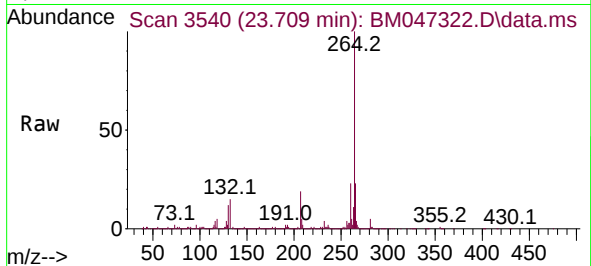
229 22.6 15.7 23.5





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.709 min Scan# 31  
Delta R.T. -0.018 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

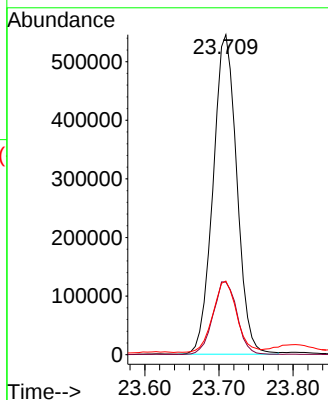
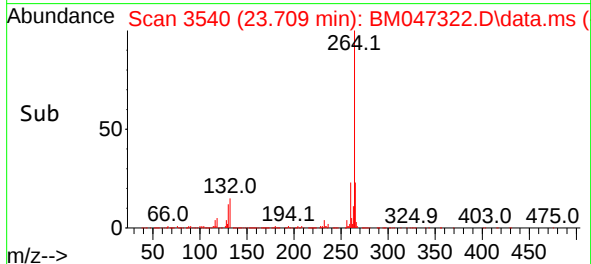
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion:264 Resp: 121344  
Ion Ratio Lower Upper  
264 100  
260 22.7 18.5 27.7  
265 23.0 17.3 25.9

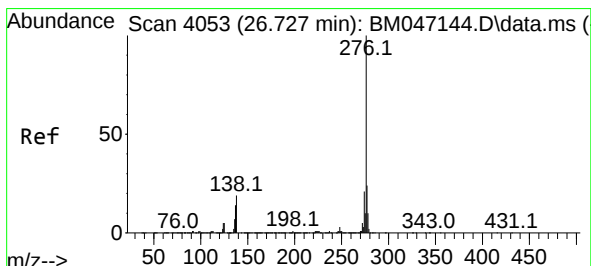
Manual Integrations  
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Patel



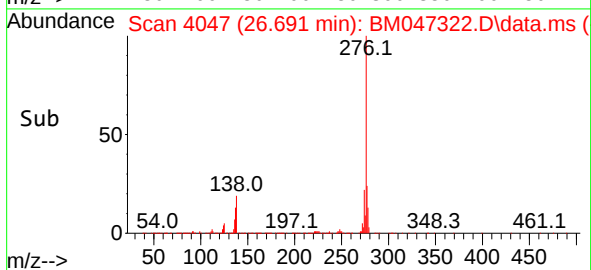
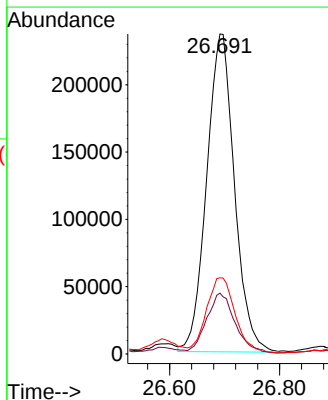
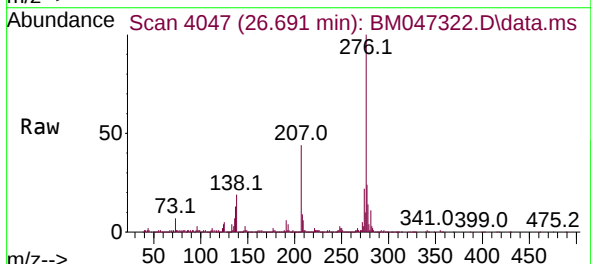
08/23/2024  
Supervised By :mohammad  
ahmed

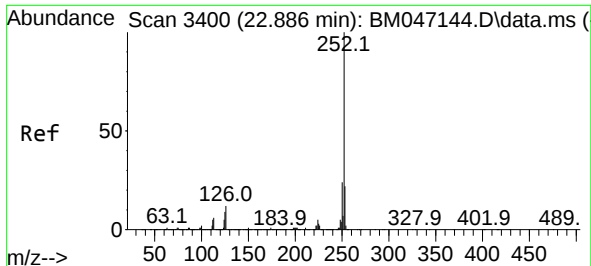
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#87  
Indeno(1,2,3-cd)pyrene  
Concen: 10.577 ng  
RT: 26.691 min Scan# 4047  
Delta R.T. -0.035 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

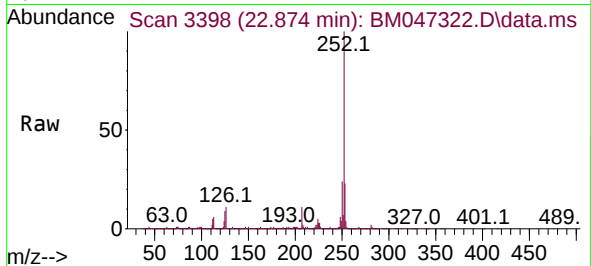
Tgt Ion:276 Resp: 829574  
Ion Ratio Lower Upper  
276 100  
138 19.1 19.4 29.0#  
277 24.5 20.1 30.1





#88  
Benzo(b)fluoranthene  
Concen: 35.643 ng  
RT: 22.874 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

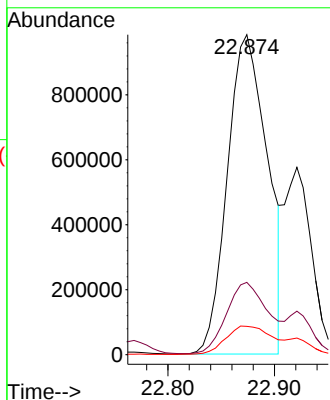
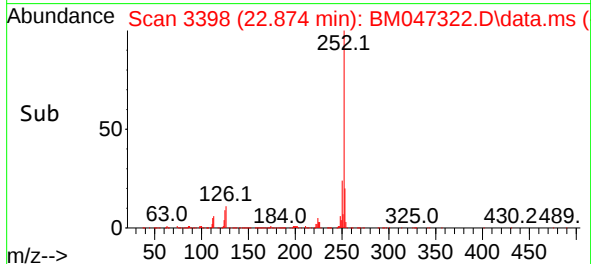
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion:252 Resp: 2568508  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.8 26.6  
125 8.9 7.4 11.0

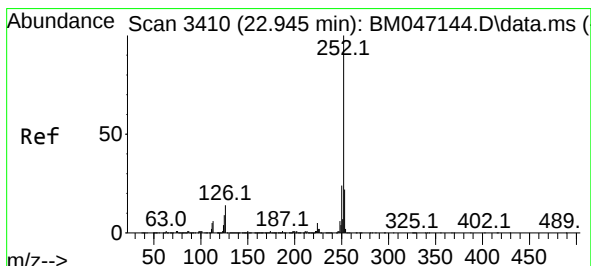
Manual Integrations  
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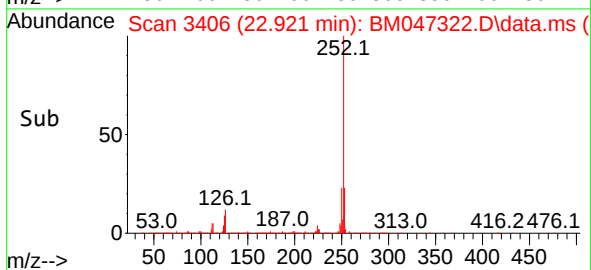
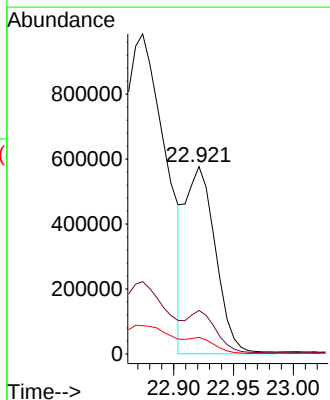
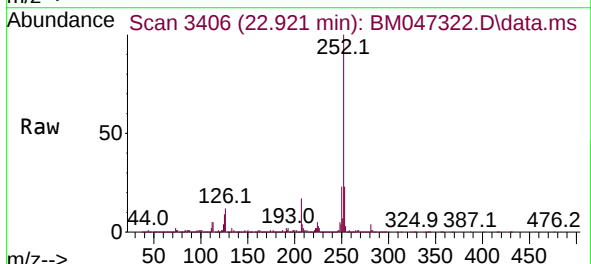
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Supervised By :mohammad  
ahmed

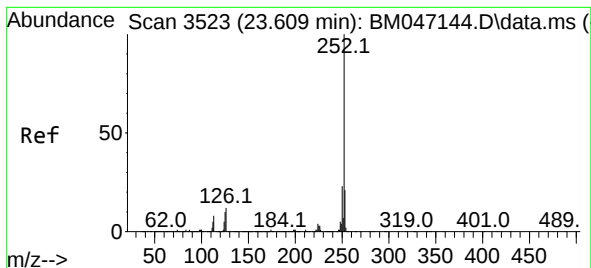
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#89  
Benzo(k)fluoranthene  
Concen: 14.933 ng m  
RT: 22.921 min Scan# 3406  
Delta R.T. -0.024 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

Tgt Ion:252 Resp: 1016397  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.7 26.5  
125 8.8 7.4 11.2





#90

Benzo(a)pyrene

Concen: 28.423 ng

RT: 23.586 min Scan# 3

Delta R.T. -0.024 min

Lab File: BM047322.D

Acq: 22 Aug 2024 18:29

Instrument :

BNA\_M

ClientSampleId :

S-905-J-SO-0.5-1.0-081924

Tgt Ion:252 Resp: 1774318

Ion Ratio Lower Upper

252 100

253 22.9 17.1 25.7

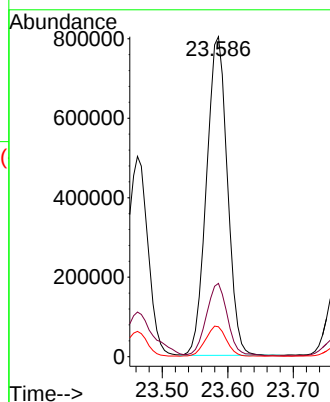
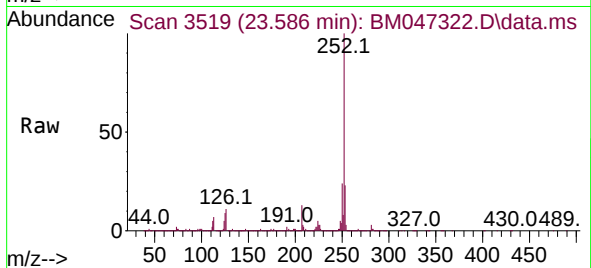
125 9.4 8.2 12.2

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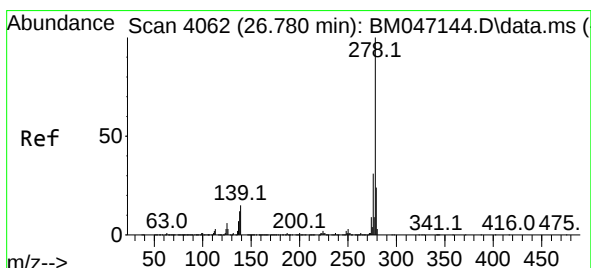
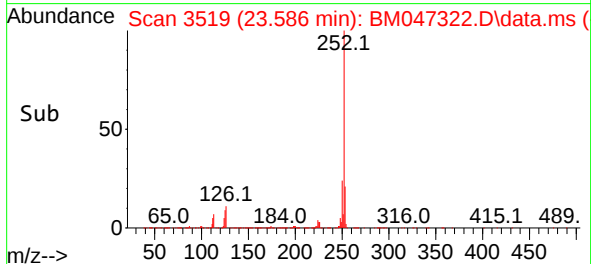
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#91

Dibenzo(a,h)anthracene

Concen: 3.469 ng

RT: 26.727 min Scan# 4053

Delta R.T. -0.053 min

Lab File: BM047322.D

Acq: 22 Aug 2024 18:29

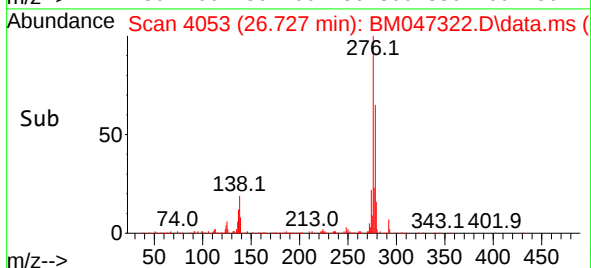
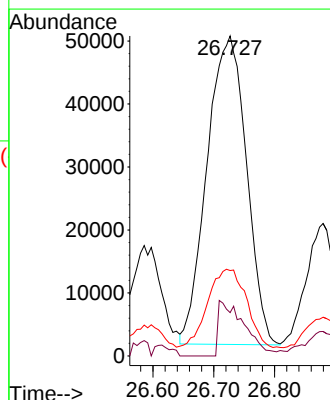
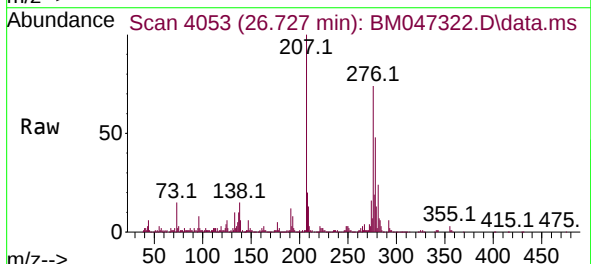
Tgt Ion:278 Resp: 220194

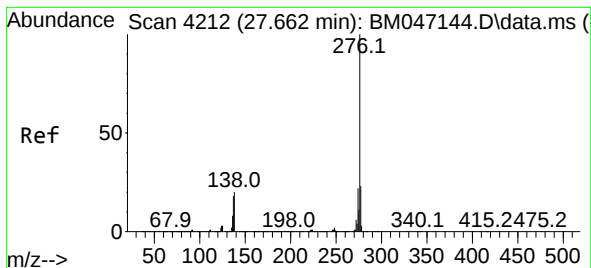
Ion Ratio Lower Upper

278 100

139 13.6 12.0 18.0

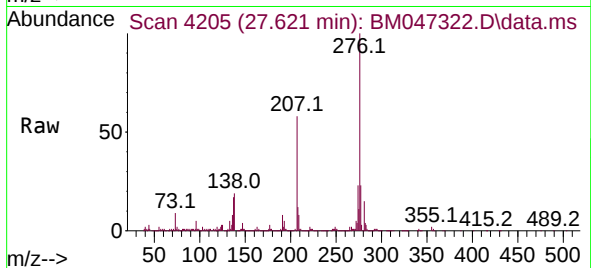
279 26.7 19.2 28.8





#92  
Benzo(g,h,i)perylene  
Concen: 11.005 ng  
RT: 27.621 min Scan# 41  
Delta R.T. -0.041 min  
Lab File: BM047322.D  
Acq: 22 Aug 2024 18:29

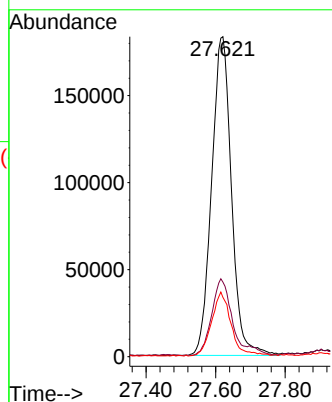
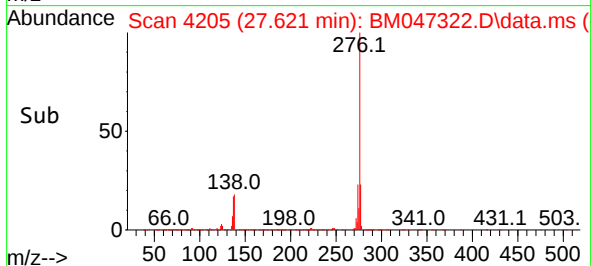
Instrument :  
BNA\_M  
ClientSampleId :  
S-905-J-SO-0.5-1.0-081924



Tgt Ion:276 Resp: 72524  
Ion Ratio Lower Upper  
276 100  
277 23.3 18.8 28.2  
138 18.6 16.2 24.4

Manual Integrations  
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Patel



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Supervised By :mohammad  
ahmed

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