

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN111124\  
 Data File : BN035047.D  
 Acq On : 12 Nov 2024 21:48  
 Operator : RC/JU  
 Sample : PB164735BS  
 Misc :  
 ALS Vial : 66 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SLCS735

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/13/2024  
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 12 22:16:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 09 00:09:12 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.558  | 152  | 3212     | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.322 | 136  | 7825     | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.194 | 164  | 5032     | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.941 | 188  | 10984    | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.139 | 240  | 10399    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.299 | 264  | 11254    | 0.400 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.149  | 96   | 2244     | 0.734 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.917 | 152  | 5156     | 0.430 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 18.977 | 212  | 12473    | 0.467 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.182  | 88   | 5299     | 1.582 | ng/ul# | 92       |
| 5) Naphthalene              | 10.372 | 128  | 7318     | 0.374 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.994 | 142  | 5137     | 0.351 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.214 | 142  | 5174     | 0.353 | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.912 | 152  | 7543     | 0.367 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.259 | 153  | 5759     | 0.370 | ng/ul  | 99       |
| 12) Fluorene                | 15.249 | 166  | 6754     | 0.341 | ng/ul  | 99       |
| 14) Pentachlorophenol       | 16.595 | 266  | 1776     | 0.699 | ng/ul  | 97       |
| 15) Phenanthrene            | 16.983 | 178  | 11106    | 0.378 | ng/ul  | 99       |
| 16) Anthracene              | 17.072 | 178  | 10271    | 0.372 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.004 | 202  | 13638    | 0.392 | ng/ul# | 96       |
| 20) Pyrene                  | 19.367 | 202  | 14075    | 0.391 | ng/ul# | 96       |
| 21) Benzo(a)anthracene      | 21.122 | 228  | 14427    | 0.383 | ng/ul  | 100      |
| 22) Chrysene                | 21.174 | 228  | 14710    | 0.383 | ng/ul  | 100      |
| 24) Benzo(b)fluoranthene    | 22.656 | 252  | 15384    | 0.389 | ng/ul  | 98       |
| 25) Benzo(k)fluoranthene    | 22.700 | 252  | 15579m   | 0.376 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.206 | 252  | 14041    | 0.397 | ng/ul# | 98       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.450 | 276  | 18914    | 0.437 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 25.463 | 278  | 14730    | 0.437 | ng/ul# | 97       |
| 29) Benzo(g,h,i)perylene    | 26.104 | 276  | 14688    | 0.445 | ng/ul  | 98       |
| -----                       |        |      |          |       |        |          |

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

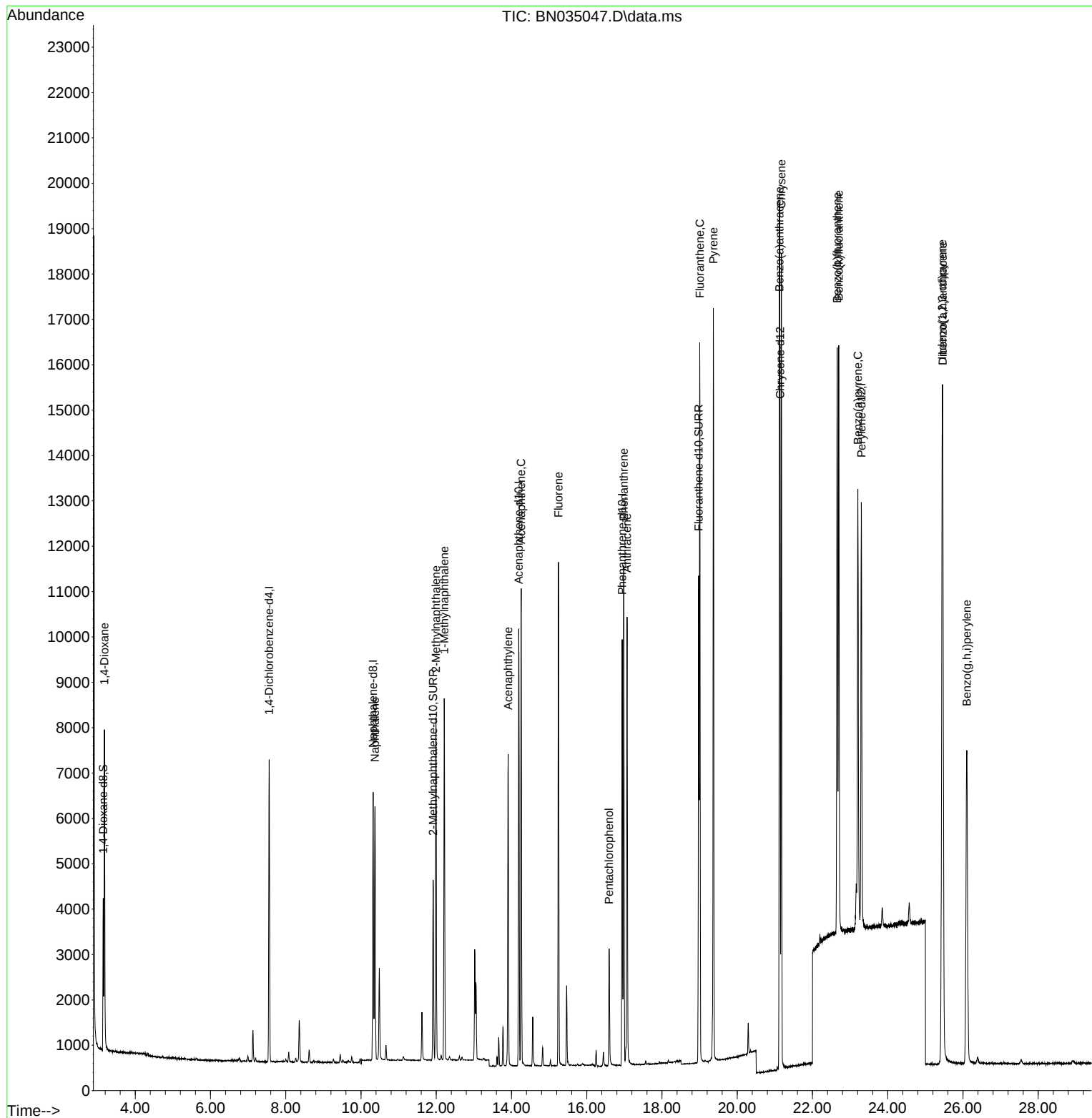
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Data File : BN035047.D  
Acq On : 12 Nov 2024 21:48  
Operator : RC/JU  
Sample : PB164735BS  
Misc :  
ALS Vial : 66 Sample Multiplier: 1

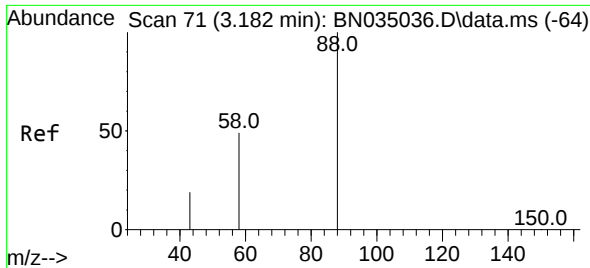
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735

Quant Time: Nov 12 22:16:13 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Nov 09 00:09:12 2024  
Response via : Initial Calibration

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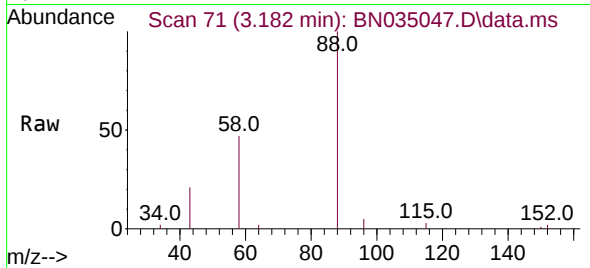
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024





#2  
1,4-Dioxane  
Concen: 1.582 ng/ul  
RT: 3.182 min Scan# 71  
Delta R.T. -0.004 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

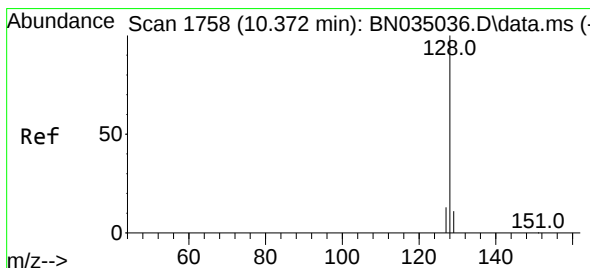
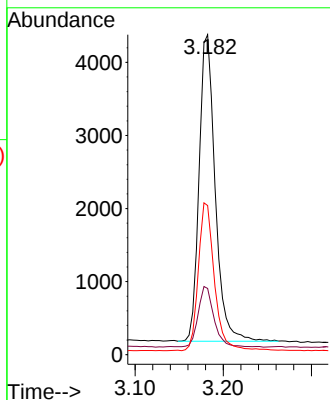
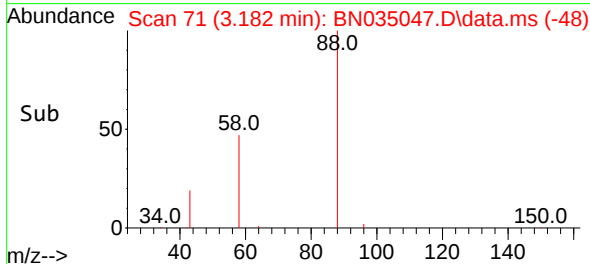
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



Tgt Ion: 88 Resp: 5299  
Ion Ratio Lower Upper  
88 100  
43 20.7 23.3 34.9  
58 46.6 35.4 53.2

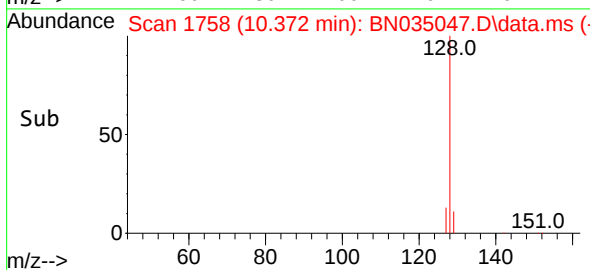
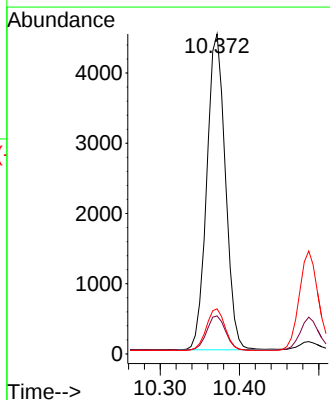
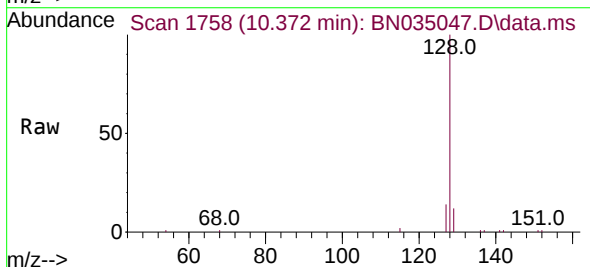
Manual Integrations  
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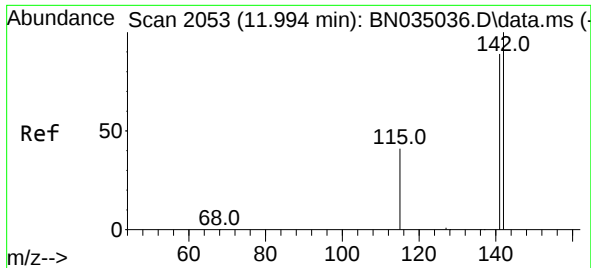
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024



#5  
Naphthalene  
Concen: 0.374 ng/ul  
RT: 10.372 min Scan# 1758  
Delta R.T. -0.017 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

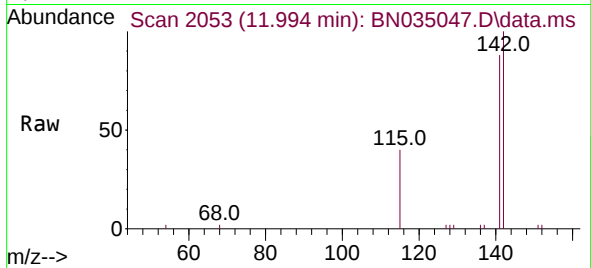
Tgt Ion:128 Resp: 7318  
Ion Ratio Lower Upper  
128 100  
129 11.9 10.1 15.1  
127 14.1 12.1 18.1





#7  
2-Methylnaphthalene  
Concen: 0.351 ng/ul  
RT: 11.994 min Scan# 2053  
Delta R.T. -0.017 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

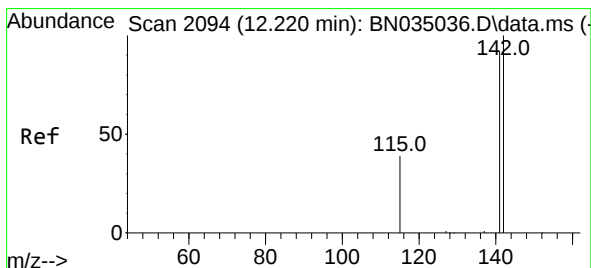
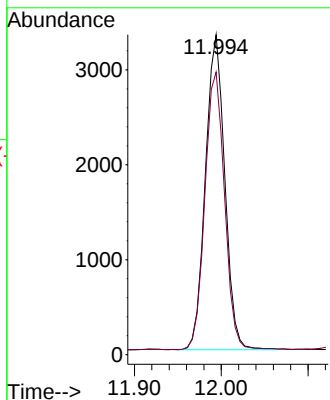
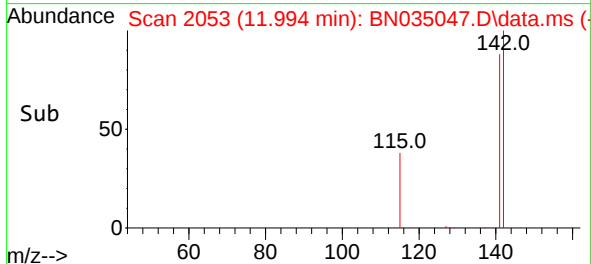
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



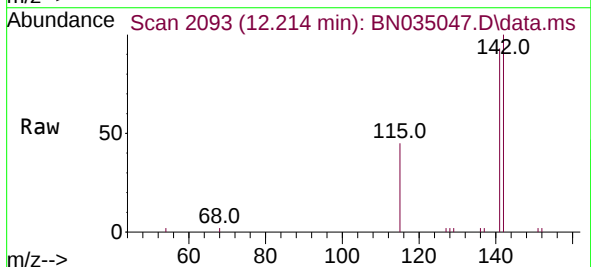
Tgt Ion:142 Resp: 5137  
Ion Ratio Lower Upper  
142 100  
141 89.5 70.8 106.2

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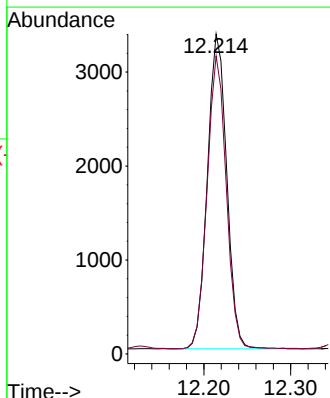
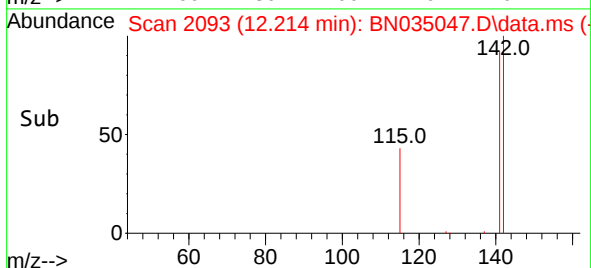
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024

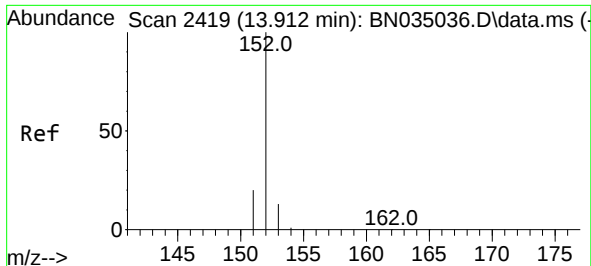


#8  
1-Methylnaphthalene  
Concen: 0.353 ng/ul  
RT: 12.214 min Scan# 2093  
Delta R.T. -0.017 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48



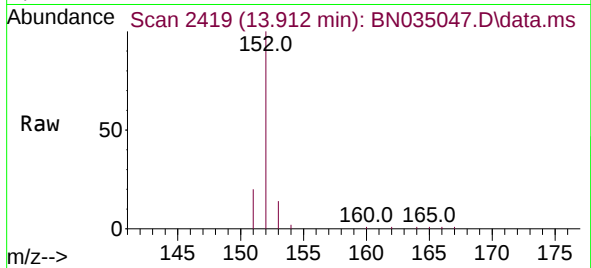
Tgt Ion:142 Resp: 5174  
Ion Ratio Lower Upper  
142 100  
141 92.2 74.6 111.8





#10  
Acenaphthylene  
Concen: 0.367 ng/ul  
RT: 13.912 min Scan# 2419  
Delta R.T. -0.014 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

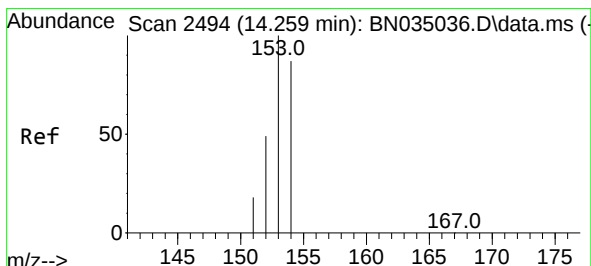
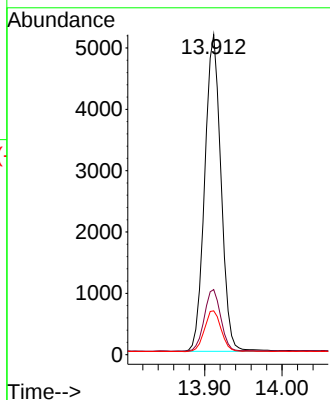
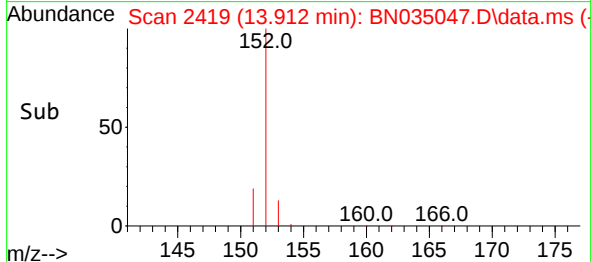
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



Tgt Ion:152 Resp: 754  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.6 24.8  
153 13.7 11.0 16.6

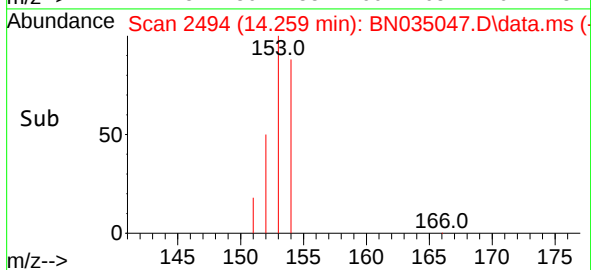
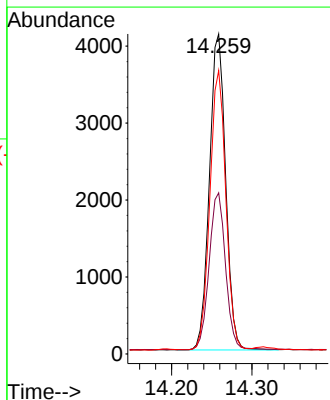
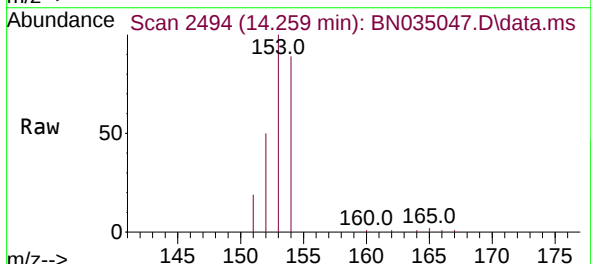
Manual Integrations  
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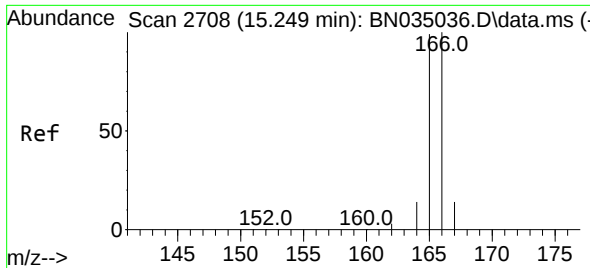
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024



#11  
Acenaphthene  
Concen: 0.370 ng/ul  
RT: 14.259 min Scan# 2494  
Delta R.T. -0.014 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

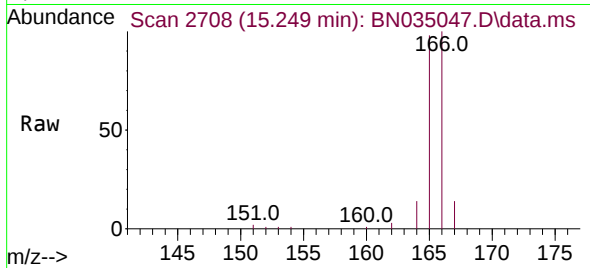
Tgt Ion:153 Resp: 5759  
Ion Ratio Lower Upper  
153 100  
152 50.3 41.5 62.3  
154 88.5 70.9 106.3





#12  
Fluorene  
Concen: 0.341 ng/ul  
RT: 15.249 min Scan# 21  
Delta R.T. -0.014 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

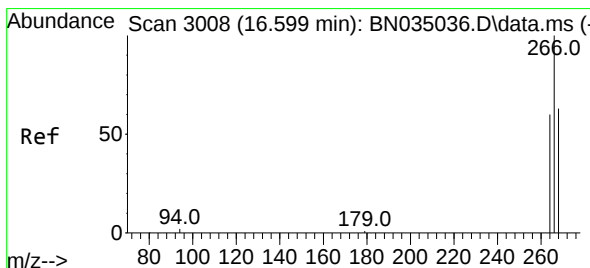
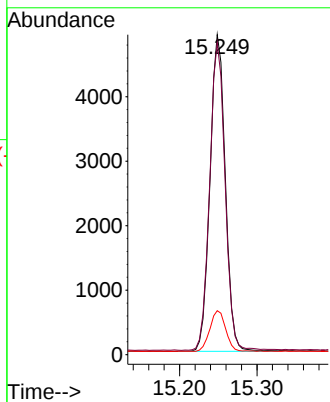
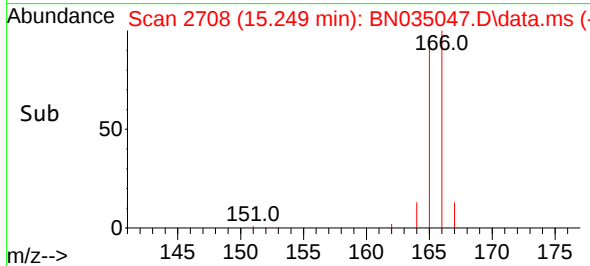
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



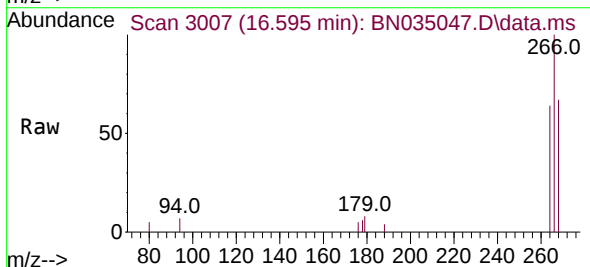
Tgt Ion:166 Resp: 6754  
Ion Ratio Lower Upper  
166 100  
165 97.5 79.0 118.4  
167 13.7 11.8 17.6

Manual Integrations  
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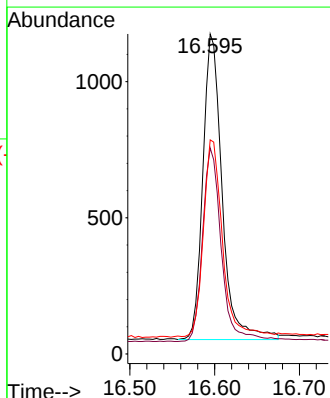
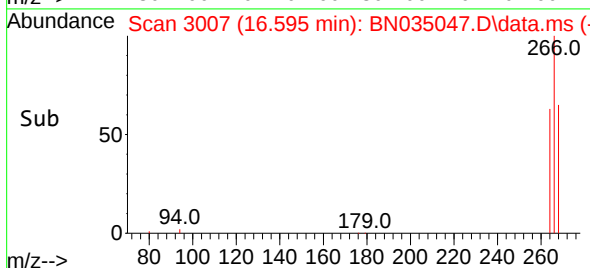
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024

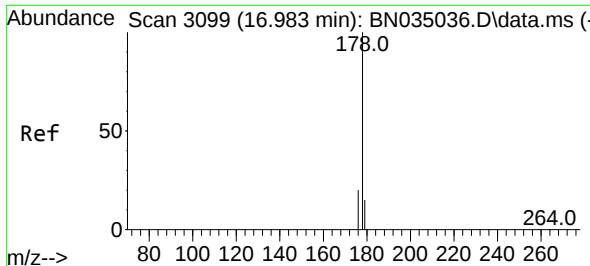


#14  
Pentachlorophenol  
Concen: 0.699 ng/ul  
RT: 16.595 min Scan# 3007  
Delta R.T. -0.013 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48



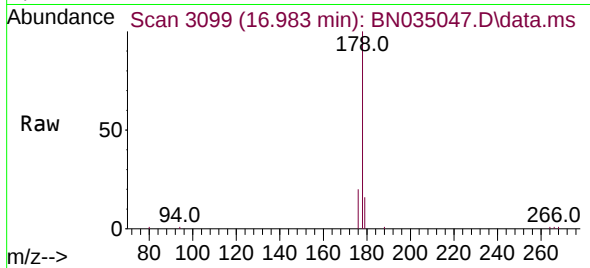
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Ion Ratio Lower Upper  
266 100  
264 61.7 50.2 75.2  
268 64.3 48.4 72.6





#15  
Phenanthrene  
Concen: 0.378 ng/ul  
RT: 16.983 min Scan# 3099  
Delta R.T. -0.013 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

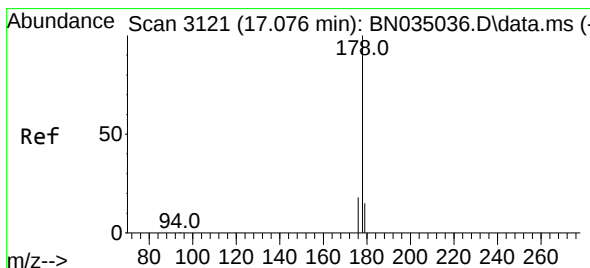
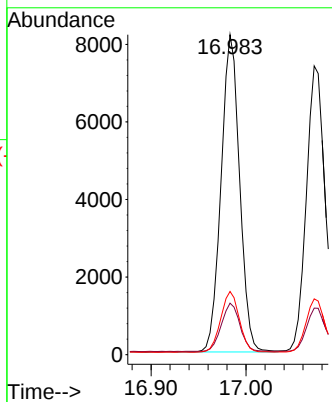
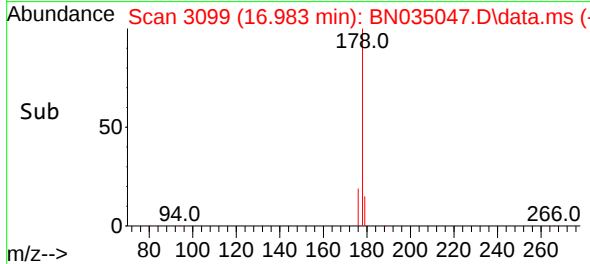
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



Tgt Ion:178 Resp: 11100  
Ion Ratio Lower Upper  
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179 16.1 13.4 20.2  
176 19.7 15.8 23.6

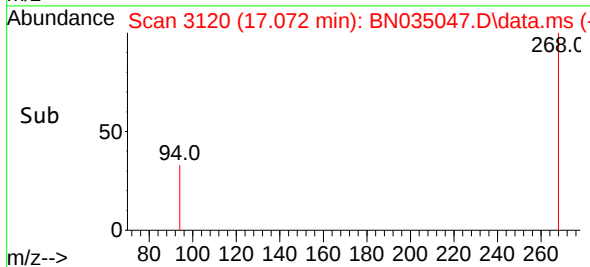
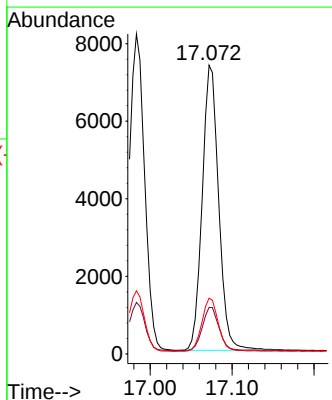
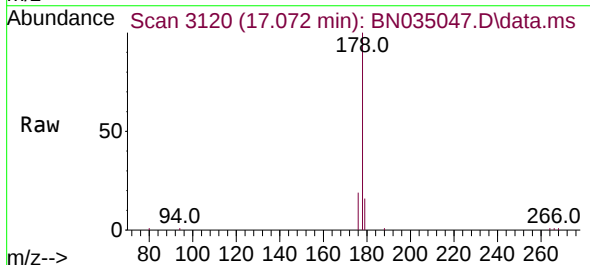
Manual Integrations  
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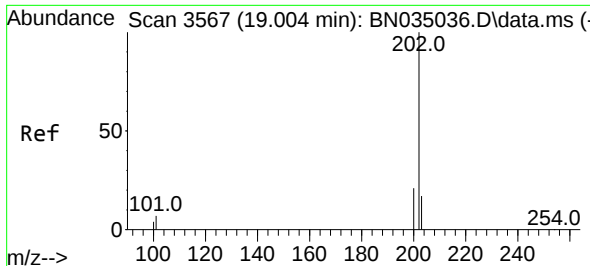
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024



#16  
Anthracene  
Concen: 0.372 ng/ul  
RT: 17.072 min Scan# 3120  
Delta R.T. -0.013 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

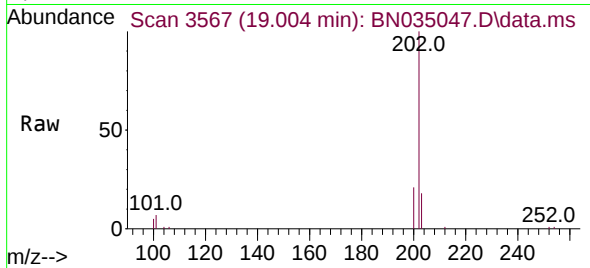
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Ion Ratio Lower Upper  
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176 19.4 15.8 23.8





#19  
Fluoranthene  
Concen: 0.392 ng/u1  
RT: 19.004 min Scan# 3567  
Delta R.T. -0.014 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

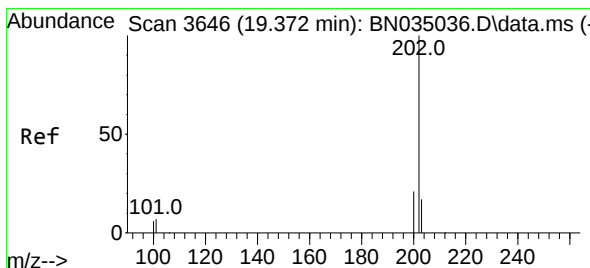
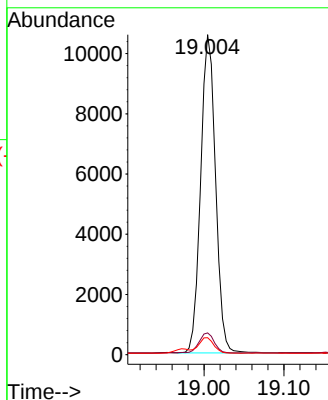
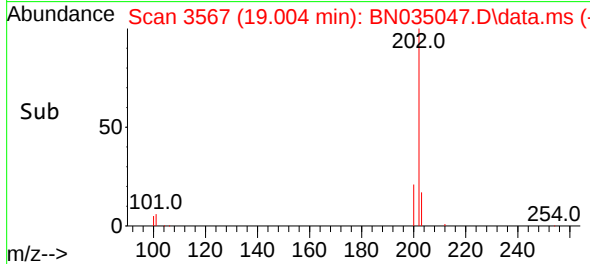
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



Tgt Ion:202 Resp: 13638  
Ion Ratio Lower Upper  
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101 6.8 4.2 6.2#  
100 5.3 3.2 4.8#

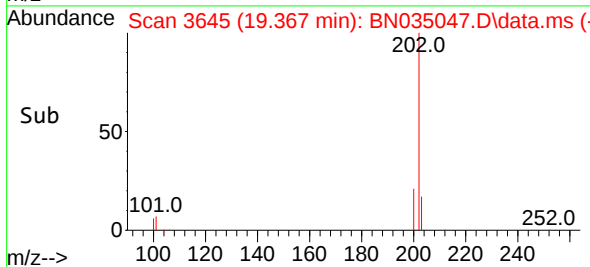
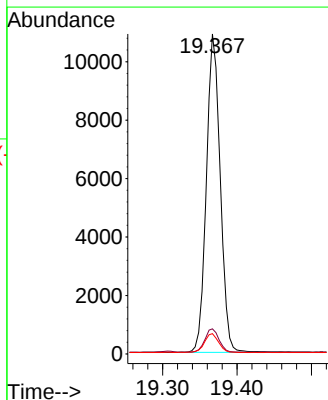
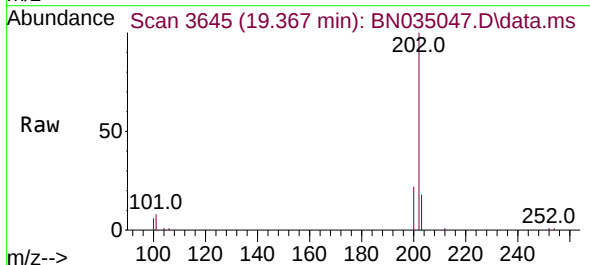
Manual Integrations  
APPROVED

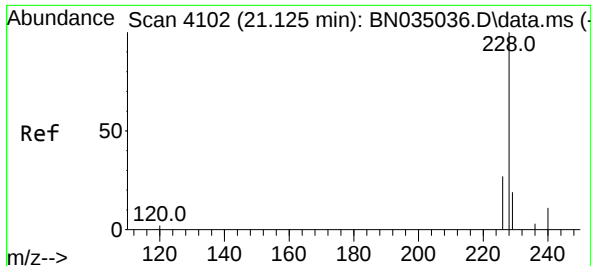
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024



#20  
Pyrene  
Concen: 0.391 ng/u1  
RT: 19.367 min Scan# 3645  
Delta R.T. -0.014 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

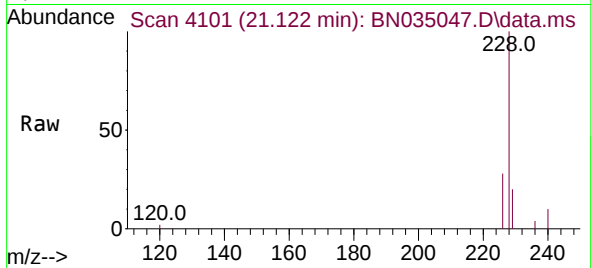
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Ion Ratio Lower Upper  
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101 7.8 5.0 7.4#  
100 6.3 4.1 6.1#





#21  
Benzo(a)anthracene  
Concen: 0.383 ng/ul  
RT: 21.122 min Scan# 4101  
Delta R.T. -0.009 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

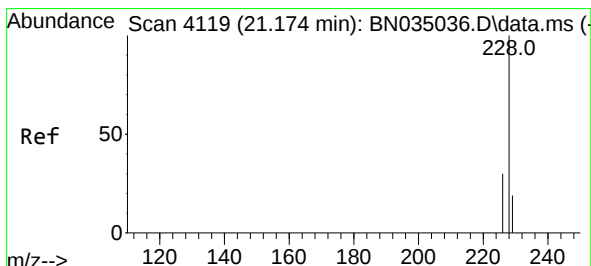
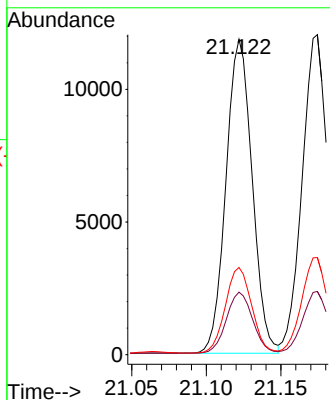
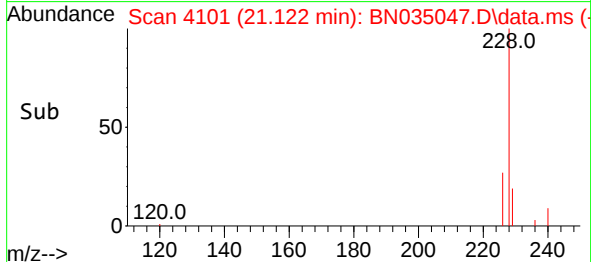
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



Tgt Ion:228 Resp: 1442  
Ion Ratio Lower Upper  
228 100  
229 19.8 15.8 23.8  
226 27.7 22.2 33.2

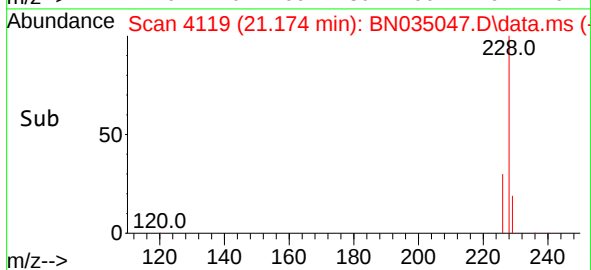
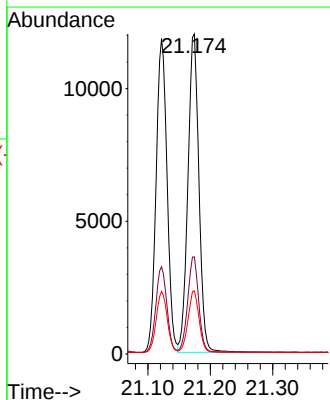
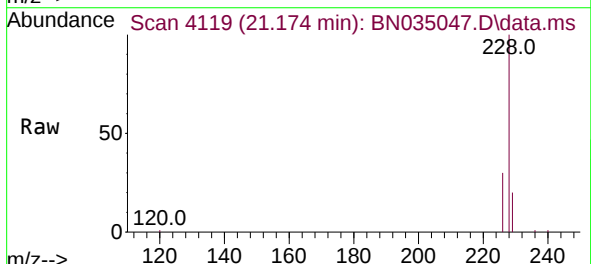
Manual Integrations  
APPROVED

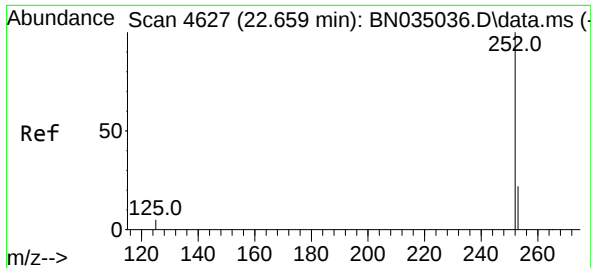
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024



#22  
Chrysene  
Concen: 0.383 ng/ul  
RT: 21.174 min Scan# 4119  
Delta R.T. -0.009 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

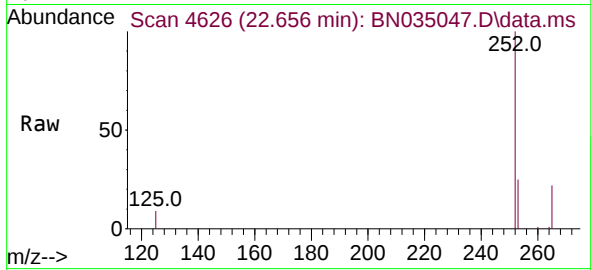
Tgt Ion:228 Resp: 14710  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.2 36.4  
229 19.7 15.4 23.2





#24  
Benzo(b)fluoranthene  
Concen: 0.389 ng/ul  
RT: 22.656 min Scan# 4626  
Delta R.T. -0.015 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

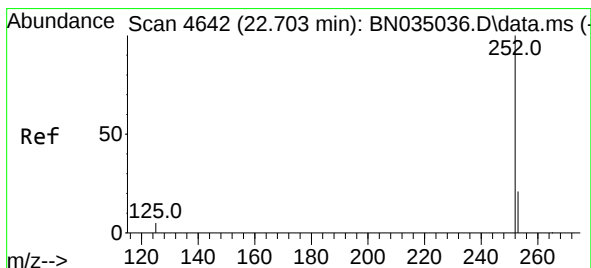
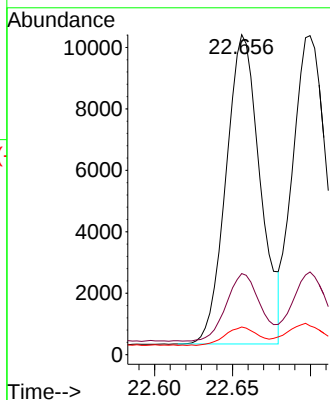
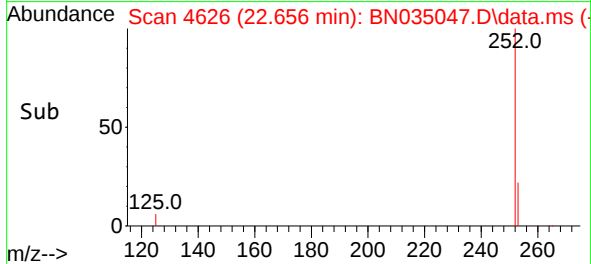
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



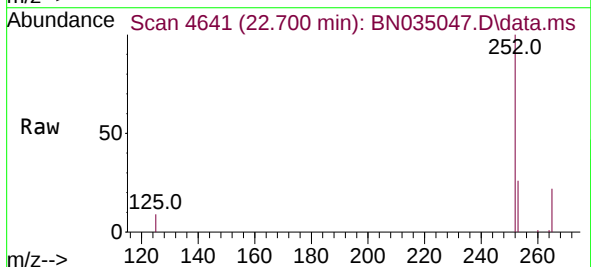
Tgt Ion:252 Resp: 15384  
Ion Ratio Lower Upper  
252 100  
253 25.3 0.0 50.0  
125 8.7 0.0 14.0

Manual Integrations  
APPROVED

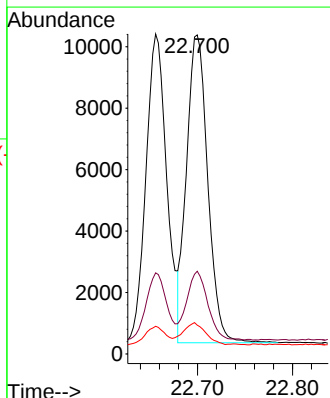
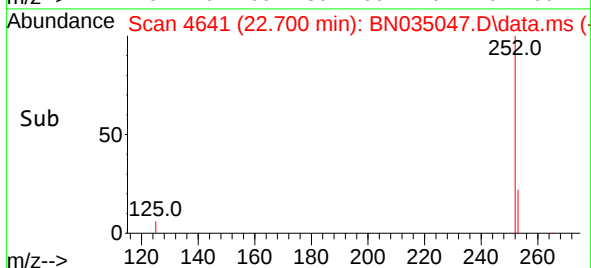
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024

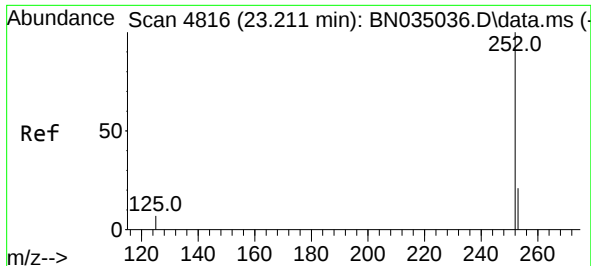


#25  
Benzo(k)fluoranthene  
Concen: 0.376 ng/ul m  
RT: 22.700 min Scan# 4641  
Delta R.T. -0.012 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48



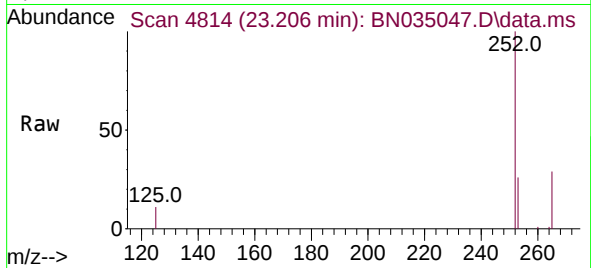
Tgt Ion:252 Resp: 15579  
Ion Ratio Lower Upper  
252 100  
253 25.9 20.2 30.4  
125 9.0 5.8 8.8#





#26  
Benzo(a)pyrene  
Concen: 0.397 ng/ul  
RT: 23.206 min Scan# 4814  
Delta R.T. -0.012 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

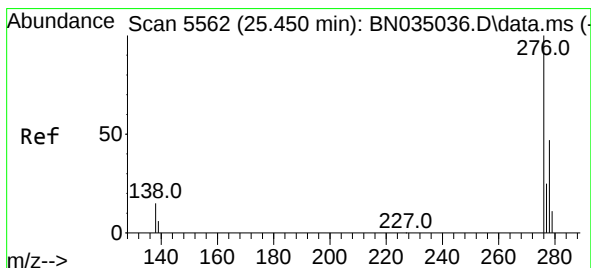
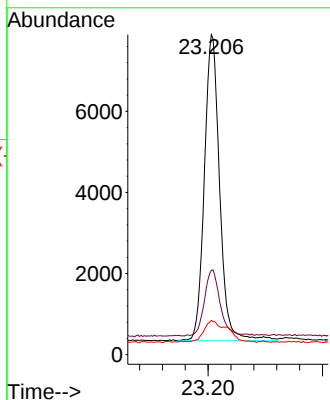
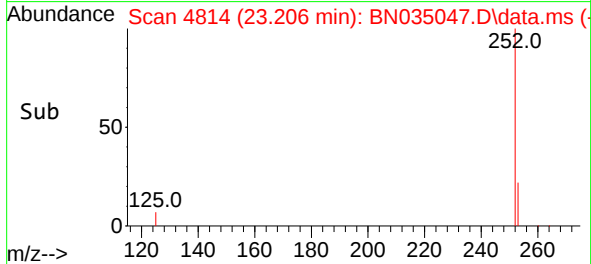
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS735



Tgt Ion:252 Resp: 1404  
Ion Ratio Lower Upper  
252 100  
253 26.4 21.2 31.8  
125 10.7 6.3 9.5

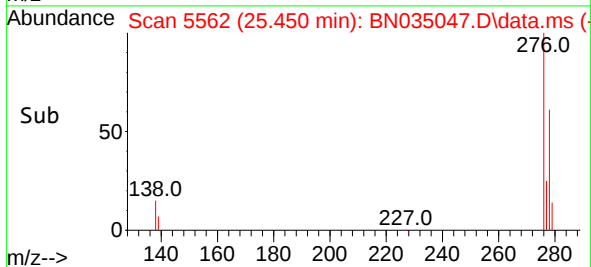
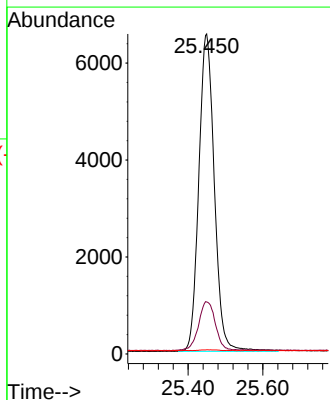
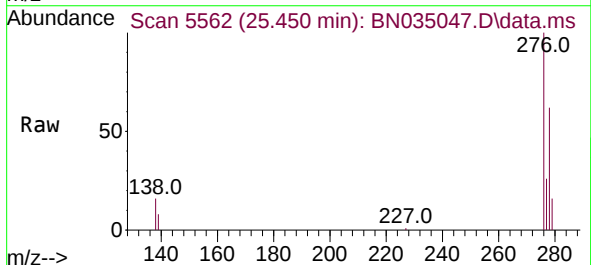
Manual Integrations  
APPROVED

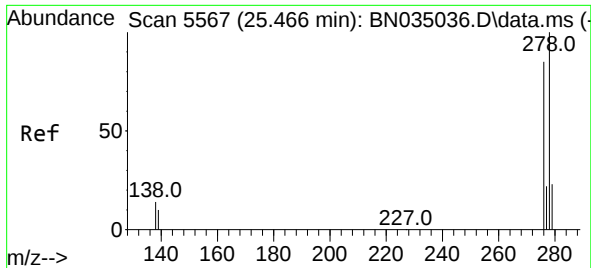
Reviewed By :Yogesh Patel 11/13/2024  
Supervised By :mohammad ahmed 11/14/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.437 ng/ul  
RT: 25.450 min Scan# 5562  
Delta R.T. -0.020 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

Tgt Ion:276 Resp: 18914  
Ion Ratio Lower Upper  
276 100  
138 16.7 10.8 16.2#  
227 0.4 0.2 0.4#





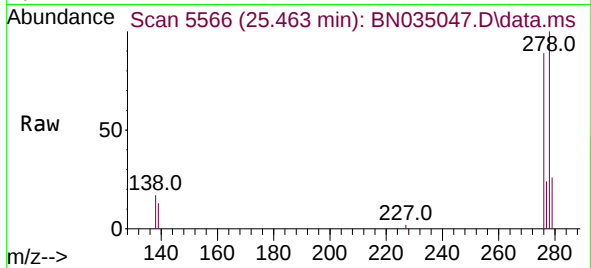
#28  
Dibenzo(a,h)anthracene  
Concen: 0.437 ng/ul  
RT: 25.463 min Scan# 5566  
Delta R.T. -0.024 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48

Instrument :

BNA\_N

ClientSampleId :

SLCS735



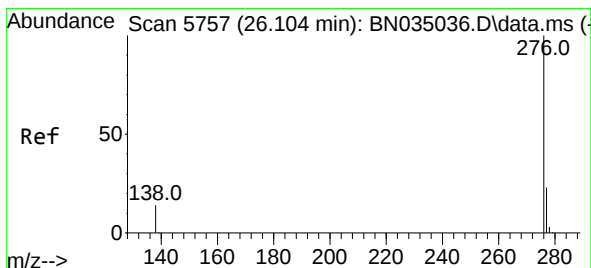
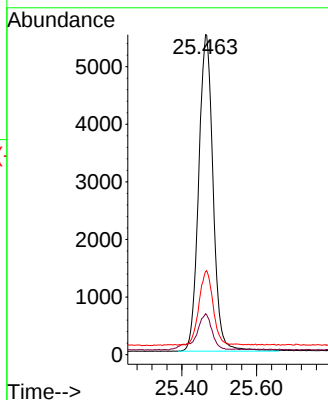
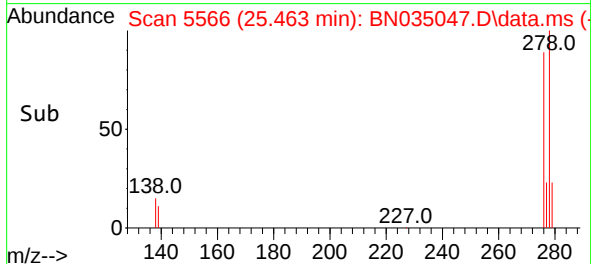
Tgt Ion:278 Resp: 14730  
Ion Ratio Lower Upper  
278 100  
139 12.8 8.4 12.6  
279 26.0 21.5 32.3

Manual Integrations

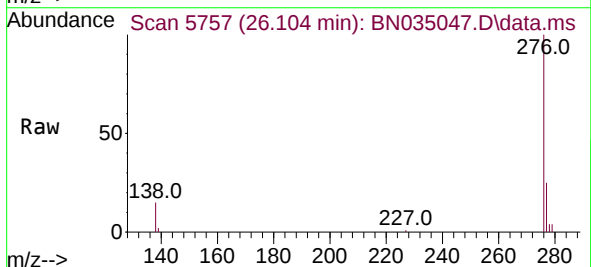
APPROVED

Reviewed By :Yogesh Patel 11/13/2024

Supervised By :mohammad ahmed 11/14/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.445 ng/ul  
RT: 26.104 min Scan# 5757  
Delta R.T. -0.024 min  
Lab File: BN035047.D  
Acq: 12 Nov 2024 21:48



Tgt Ion:276 Resp: 14688  
Ion Ratio Lower Upper  
276 100  
138 14.6 10.3 15.5  
277 24.5 20.2 30.2

