

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN111523\  
 Data File : BN028798.D  
 Acq On : 20 Nov 2023 04:22  
 Operator : MA/JU  
 Sample : PB156868BS  
 Misc :  
 ALS Vial : 103 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SLCS868

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/20/2023  
 Supervised By :mohammad ahmed 11/20/2023

Quant Time: Nov 20 05:23:55 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 20 01:23:26 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.686  | 152  | 5451m    | 0.400 | ng/ul  | -0.11    |
| 4) Naphthalene-d8           | 10.456 | 136  | 18220    | 0.400 | ng/ul  | -0.03    |
| 9) Acenaphthene-d10         | 14.310 | 164  | 9901     | 0.400 | ng/ul  | -0.02    |
| 13) Phenanthrene-d10        | 17.071 | 188  | 15743    | 0.400 | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.282 | 240  | 10930    | 0.400 | ng/ul  | #-0.01   |
| 23) Perylene-d12            | 23.562 | 264  | 13493    | 0.400 | ng/ul  | #-0.02   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.112  | 96   | 5580     | 0.926 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.061 | 152  | 10284    | 0.375 | ng/ul  | -0.05    |
| 18) Fluoranthene-d10        | 19.106 | 212  | 19665    | 0.559 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 2) 1,4-Dioxane              | 3.146  | 88   | 16053    | 2.411 | ng/ul# | 82       |
| 5) Naphthalene              | 10.505 | 128  | 21764    | 0.426 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.133 | 142  | 11437    | 0.340 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.342 | 142  | 13526    | 0.396 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.033 | 152  | 24191    | 0.490 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.375 | 153  | 16914    | 0.465 | ng/ul  | 100      |
| 12) Fluorene                | 15.370 | 166  | 16240    | 0.384 | ng/ul  | 98       |
| 14) Pentachlorophenol       | 16.721 | 266  | 3668     | 0.971 | ng/ul  | 98       |
| 15) Phenanthrene            | 17.109 | 178  | 21463    | 0.444 | ng/ul  | 97       |
| 16) Anthracene              | 17.207 | 178  | 18666    | 0.421 | ng/ul  | 96       |
| 19) Fluoranthene            | 19.134 | 202  | 24184    | 0.520 | ng/ul  | 99       |
| 20) Pyrene                  | 19.501 | 202  | 26122    | 0.542 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.265 | 228  | 19268    | 0.446 | ng/ul# | 81       |
| 22) Chrysene                | 21.317 | 228  | 20366    | 0.482 | ng/ul# | 83       |
| 24) Benzo(b)fluoranthene    | 22.872 | 252  | 21614    | 0.427 | ng/ul# | 64       |
| 25) Benzo(k)fluoranthene    | 22.919 | 252  | 23794    | 0.449 | ng/ul# | 67       |
| 26) Benzo(a)pyrene          | 23.462 | 252  | 22857    | 0.478 | ng/ul# | 61       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.905 | 276  | 29340    | 0.553 | ng/ul# | 98       |
| 28) Dibenzo(a,h)anthracene  | 25.926 | 278  | 23377    | 0.551 | ng/ul# | 72       |
| 29) Benzo(g,h,i)perylene    | 26.620 | 276  | 23698    | 0.545 | ng/ul# | 79       |
| -----                       |        |      |          |       |        |          |

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

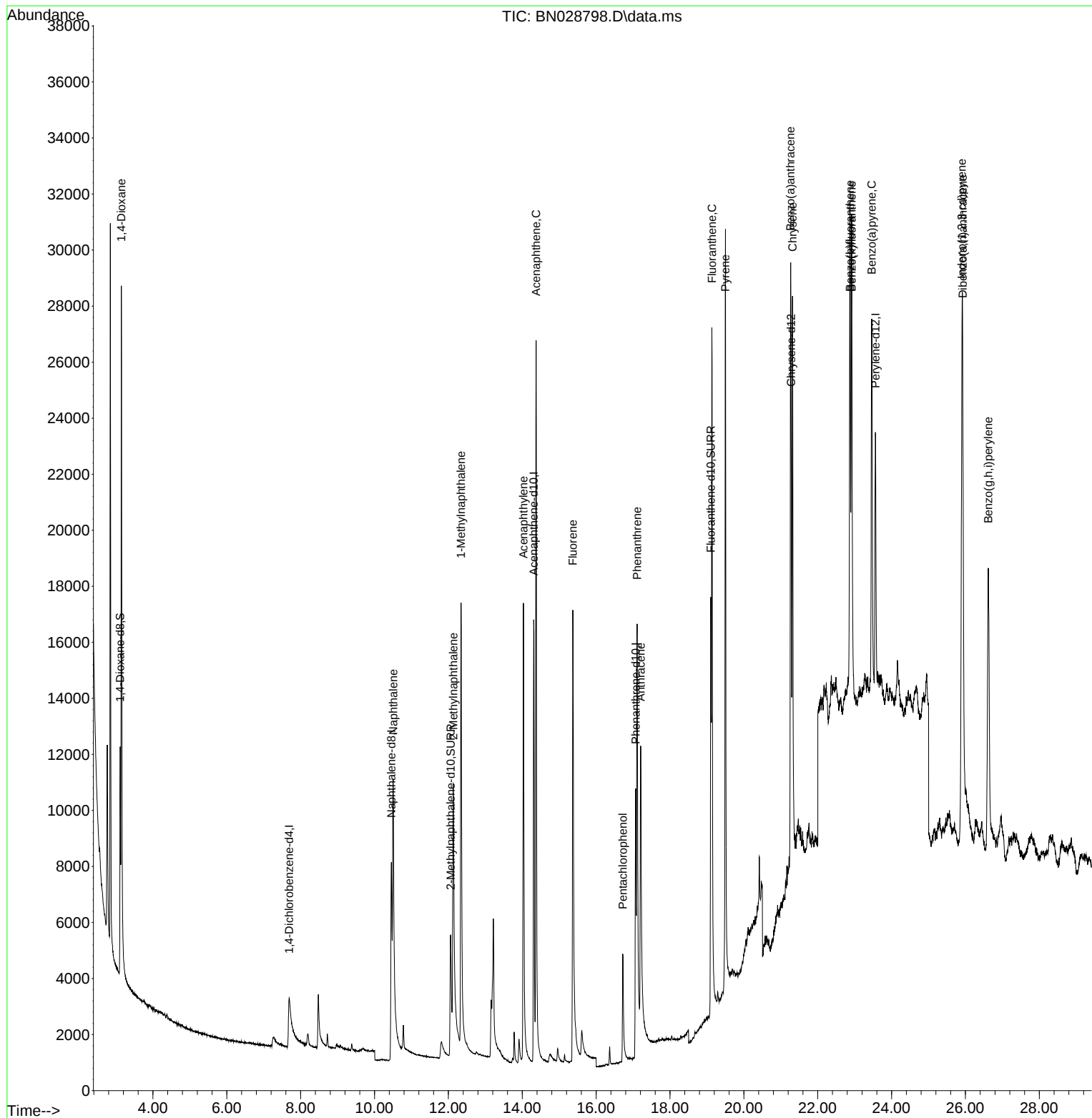
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN111523\  
Data File : BN028798.D  
Acq On : 20 Nov 2023 04:22  
Operator : MA/JU  
Sample : PB156868BS  
Misc :  
ALS Vial : 103 Sample Multiplier: 1

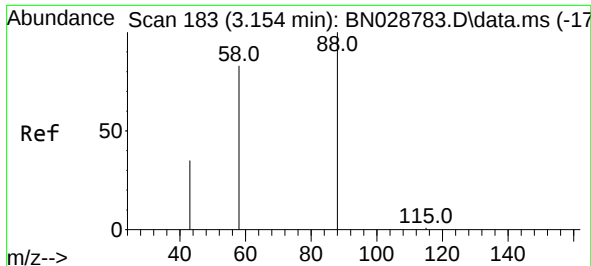
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868

Quant Time: Nov 20 05:23:55 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 20 01:23:26 2023  
Response via : Initial Calibration

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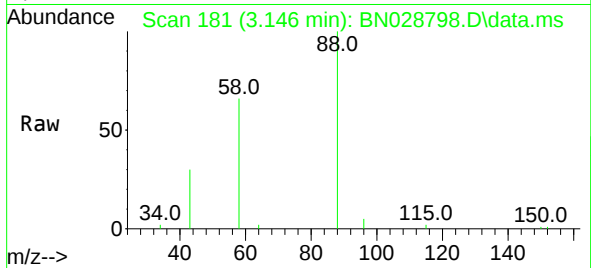
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023





#2  
1,4-Dioxane  
Concen: 2.411 ng/ul  
RT: 3.146 min Scan# 11  
Delta R.T. -0.008 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

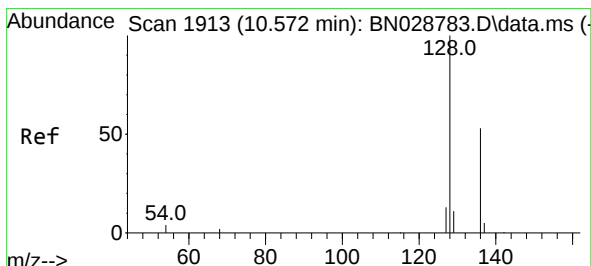
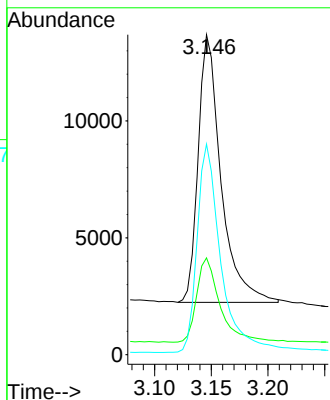
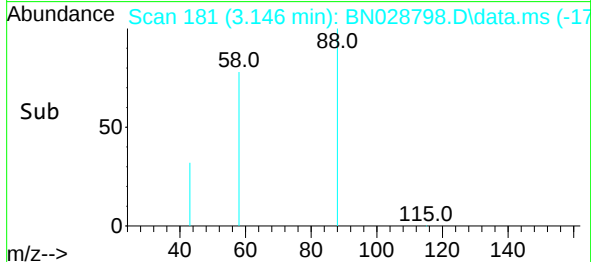
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



Tgt Ion: 88 Resp: 1605  
Ion Ratio Lower Upper  
88 100  
43 30.2 32.9 49.3  
58 65.8 41.8 62.8

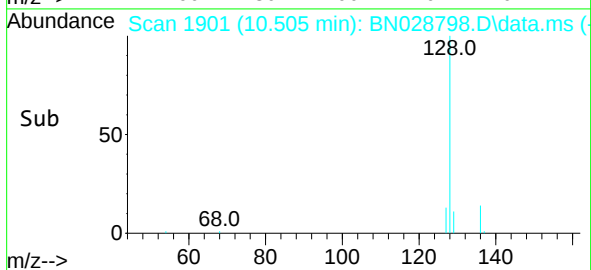
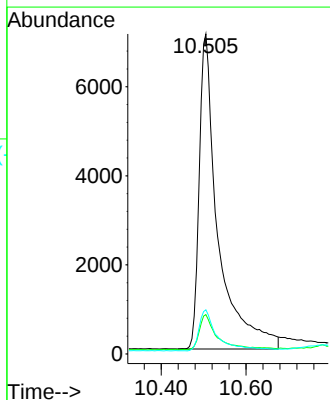
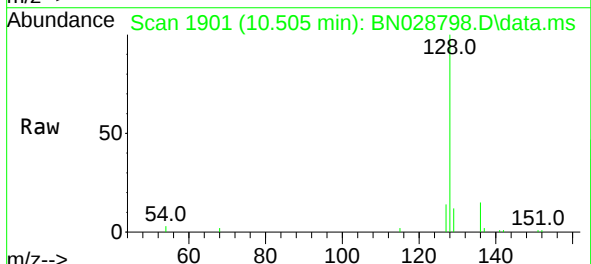
Manual Integrations  
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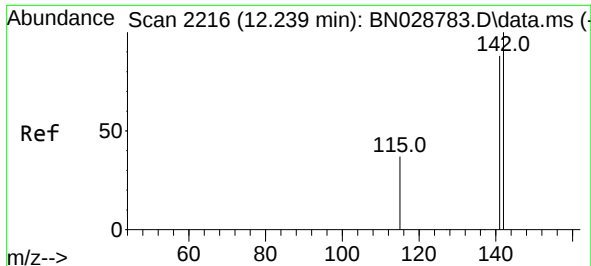
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#5  
Naphthalene  
Concen: 0.426 ng/ul  
RT: 10.505 min Scan# 1901  
Delta R.T. -0.029 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

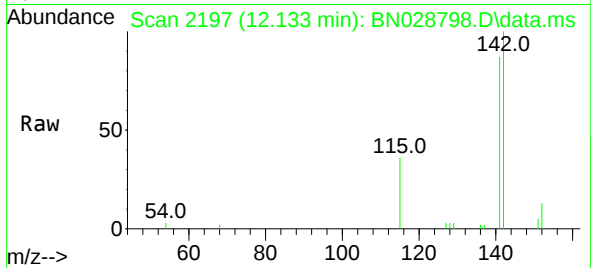
Tgt Ion:128 Resp: 21764  
Ion Ratio Lower Upper  
128 100  
129 12.3 9.2 13.8  
127 13.8 10.7 16.1





#7  
2-Methylnaphthalene  
Concen: 0.340 ng/ul  
RT: 12.133 min Scan# 2197  
Delta R.T. -0.040 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

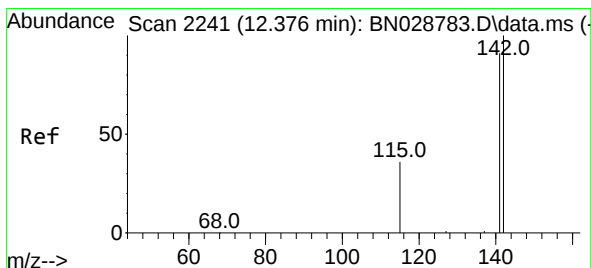
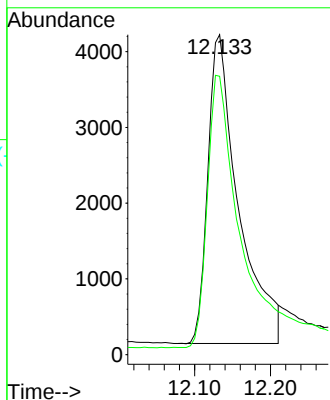
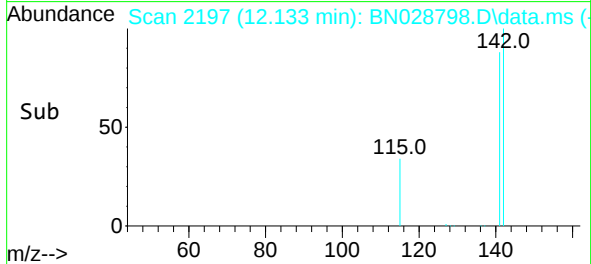
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



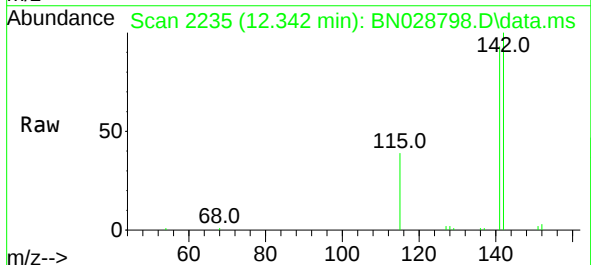
Tgt Ion:142 Resp: 1143  
Ion Ratio Lower Upper  
142 100  
141 90.3 70.8 106.2

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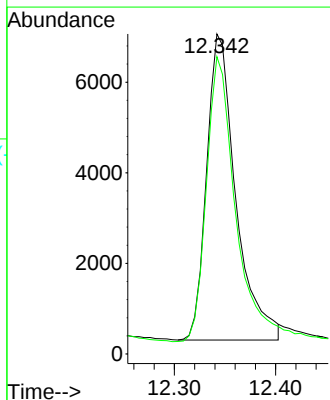
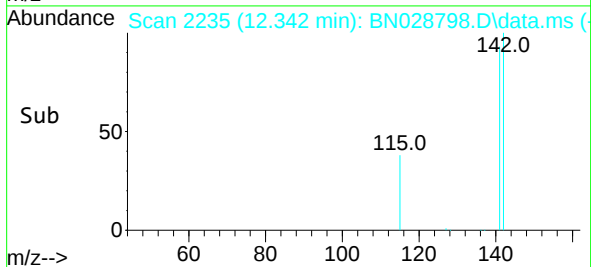
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023

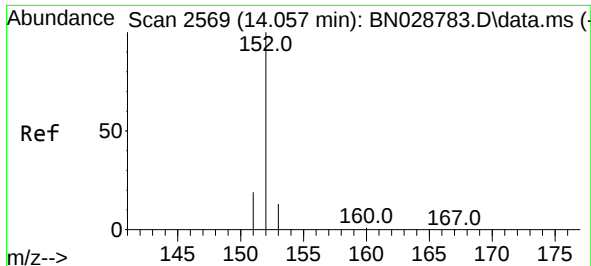


#8  
1-Methylnaphthalene  
Concen: 0.396 ng/ul  
RT: 12.342 min Scan# 2235  
Delta R.T. -0.023 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22



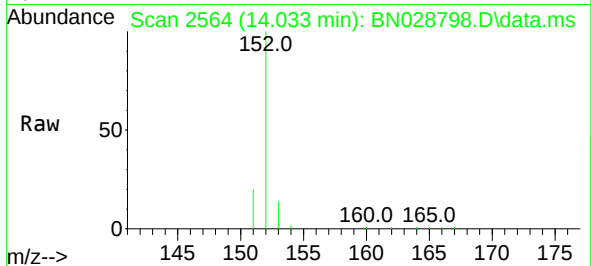
Tgt Ion:142 Resp: 13526  
Ion Ratio Lower Upper  
142 100  
141 92.2 74.1 111.1





#10  
Acenaphthylene  
Concen: 0.490 ng/ul  
RT: 14.033 min Scan# 2198  
Delta R.T. -0.020 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

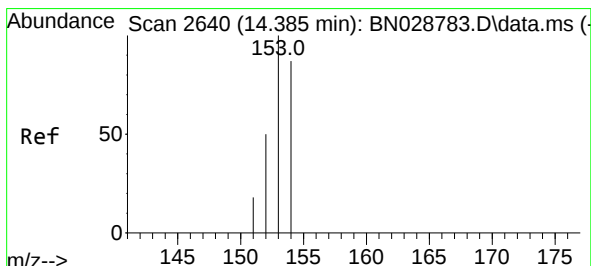
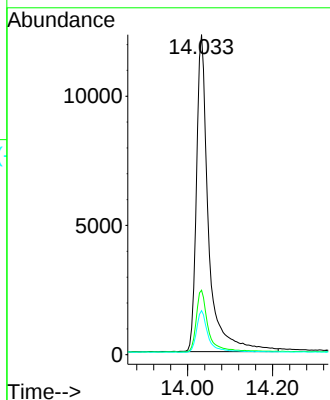
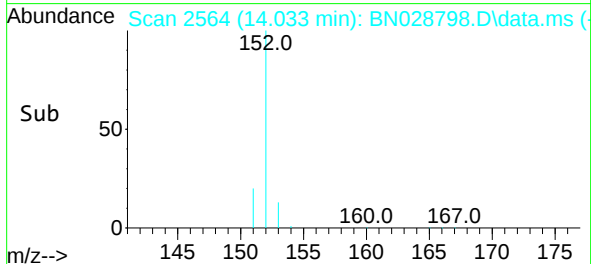
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



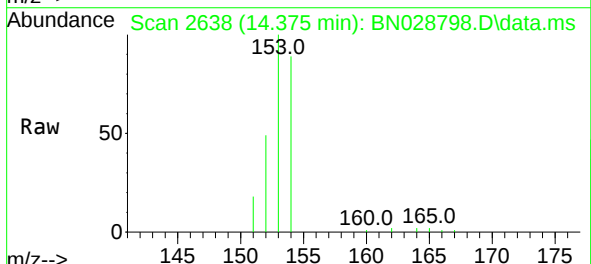
Tgt Ion:152 Resp: 2419  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.1 24.1  
153 13.7 10.6 15.8

Manual Integrations  
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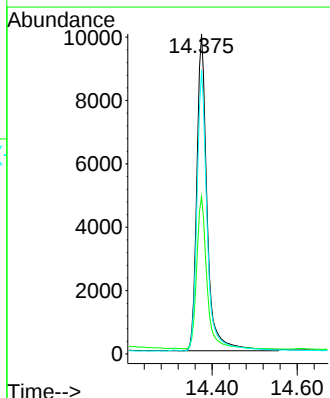
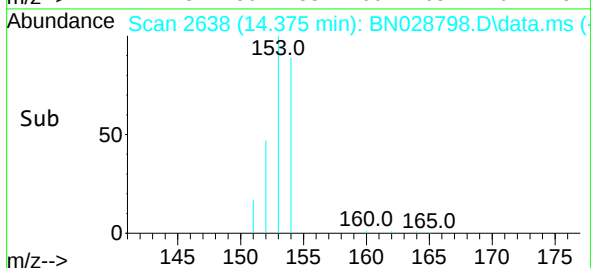
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023

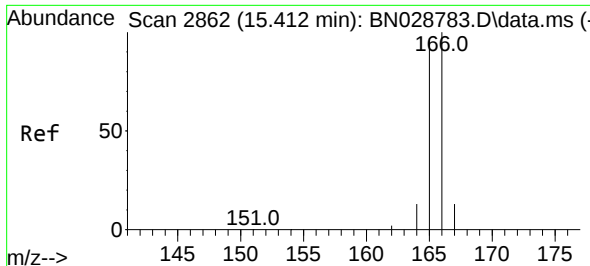


#11  
Acenaphthene  
Concen: 0.465 ng/ul  
RT: 14.375 min Scan# 2638  
Delta R.T. -0.015 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22



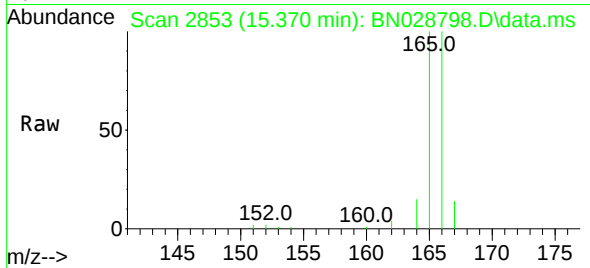
Tgt Ion:153 Resp: 16914  
Ion Ratio Lower Upper  
153 100  
152 49.2 39.6 59.4  
154 88.6 71.0 106.6





#12  
Fluorene  
Concen: 0.384 ng/ul  
RT: 15.370 min Scan# 2160  
Delta R.T. -0.024 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

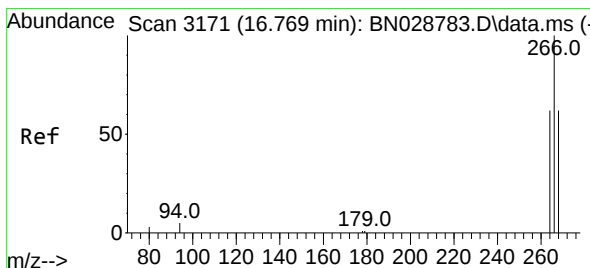
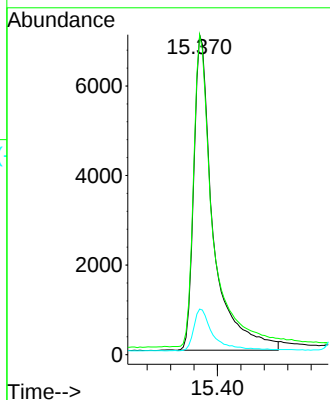
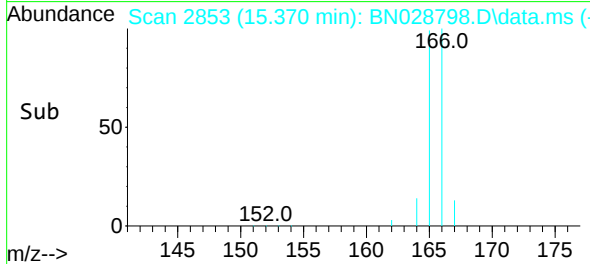
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



Tgt Ion:166 Resp: 16240  
Ion Ratio Lower Upper  
166 100  
165 100.1 78.6 118.0  
167 14.2 11.0 16.6

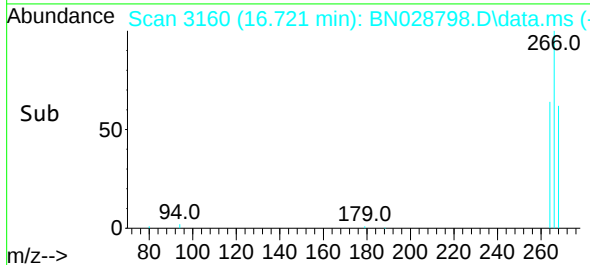
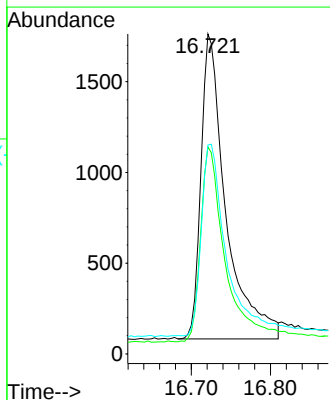
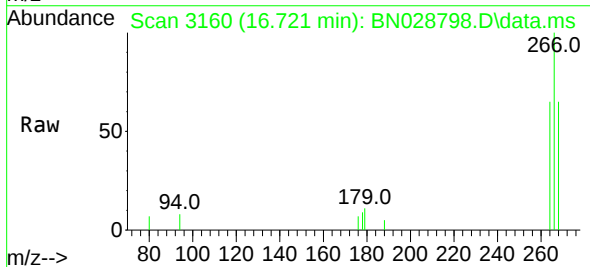
Manual Integrations  
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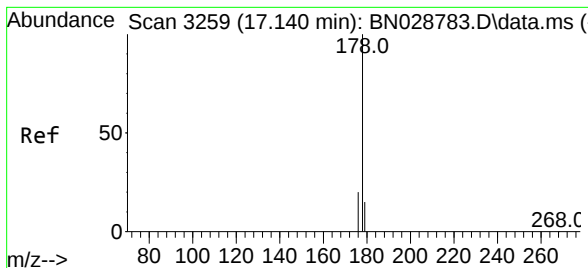
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#14  
Pentachlorophenol  
Concen: 0.971 ng/ul  
RT: 16.721 min Scan# 3160  
Delta R.T. -0.026 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

Tgt Ion:266 Resp: 3668  
Ion Ratio Lower Upper  
266 100  
264 63.7 50.1 75.1  
268 64.7 50.6 75.8





#15

Phenanthrene

Concen: 0.444 ng/u1

RT: 17.109 min Scan# 31

Delta R.T. -0.022 min

Lab File: BN028798.D

Acq: 20 Nov 2023 04:22

Instrument :

BNA\_N

ClientSampleId :

SLCS868

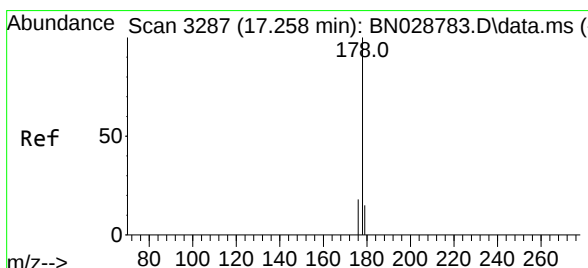
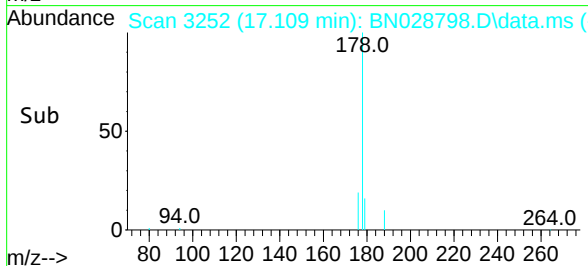
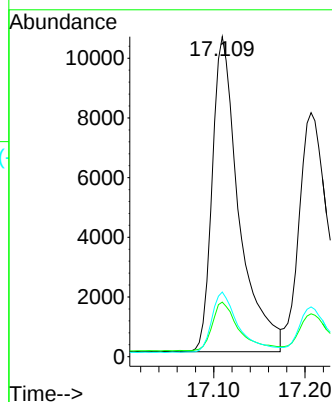
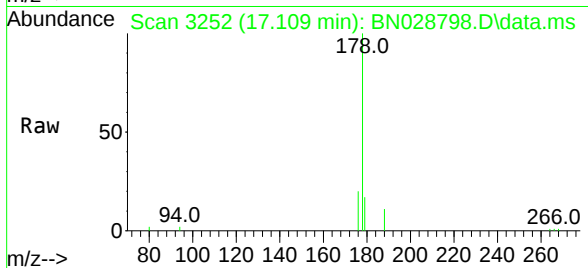
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|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 2146      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 17.0  | 12.4 18.6 |
| 176         | 20.2  | 15.4 23.2 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/20/2023

Supervised By :mohammad ahmed 11/20/2023



#16

Anthracene

Concen: 0.421 ng/u1

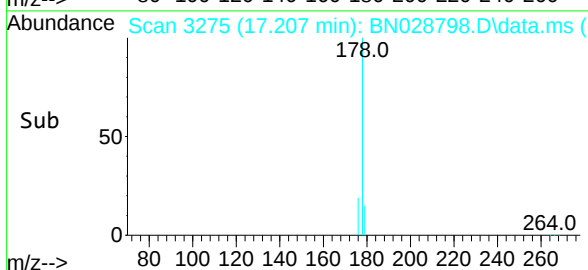
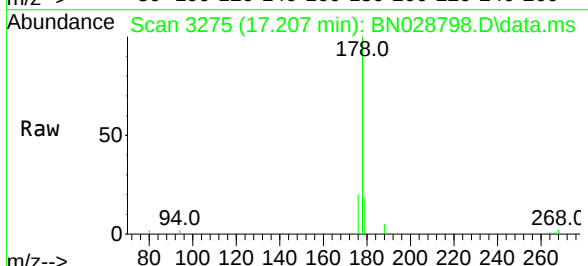
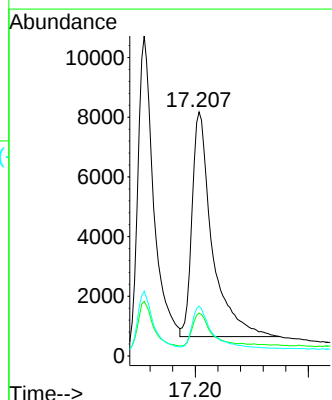
RT: 17.207 min Scan# 3275

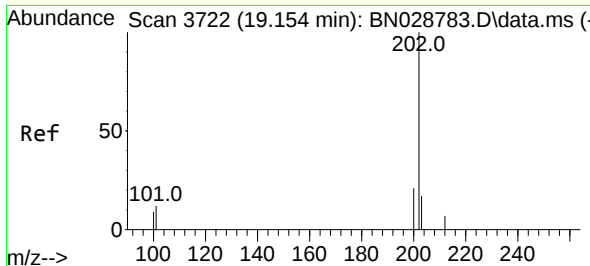
Delta R.T. -0.031 min

Lab File: BN028798.D

Acq: 20 Nov 2023 04:22

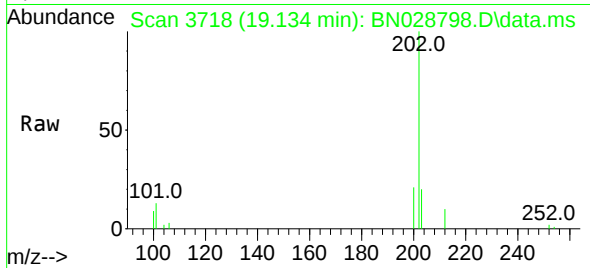
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|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 18666     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 17.6  | 12.6 18.8 |
| 176         | 20.4  | 14.9 22.3 |





#19  
Fluoranthene  
Concen: 0.520 ng/u1  
RT: 19.134 min Scan# 31  
Delta R.T. -0.015 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

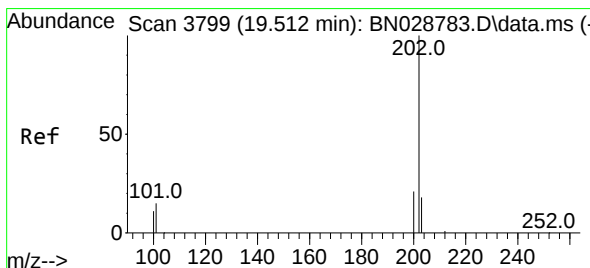
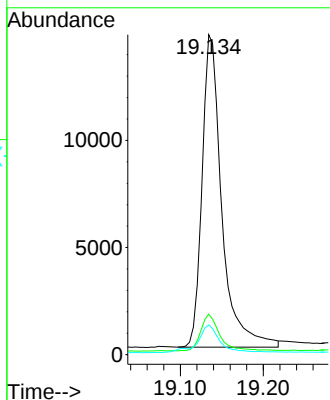
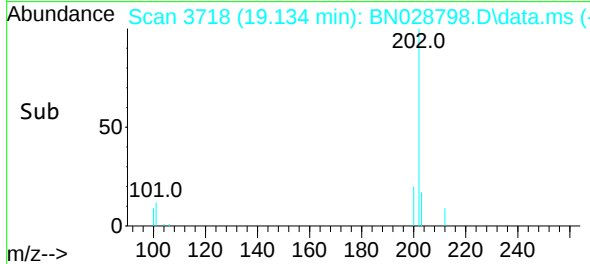
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



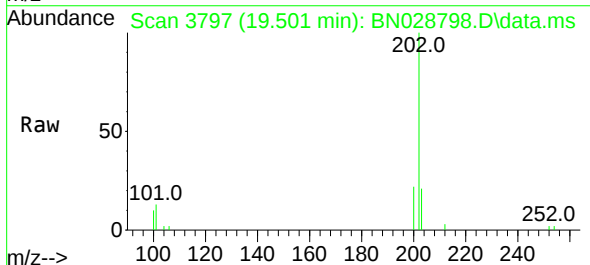
Tgt Ion:202 Resp: 24184  
Ion Ratio Lower Upper  
202 100  
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100 9.3 7.2 10.8

Manual Integrations  
APPROVED

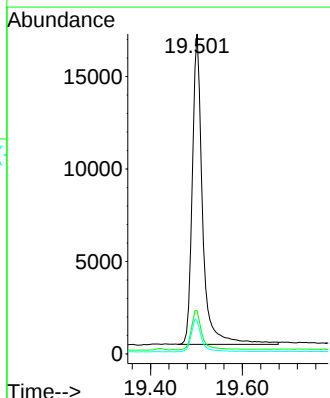
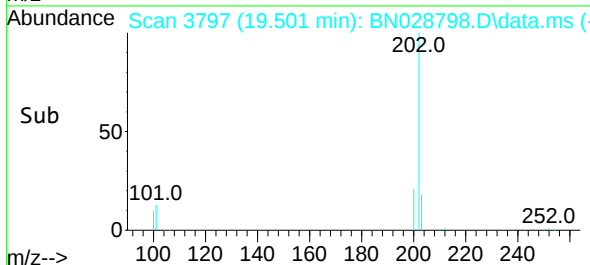
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023

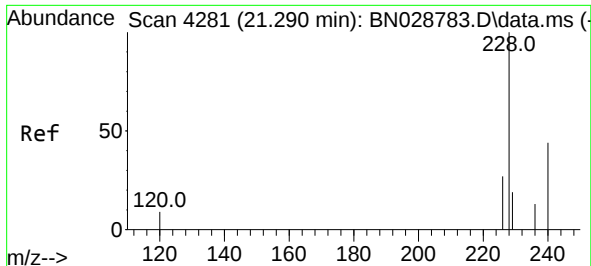


#20  
Pyrene  
Concen: 0.542 ng/u1  
RT: 19.501 min Scan# 3797  
Delta R.T. -0.011 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22



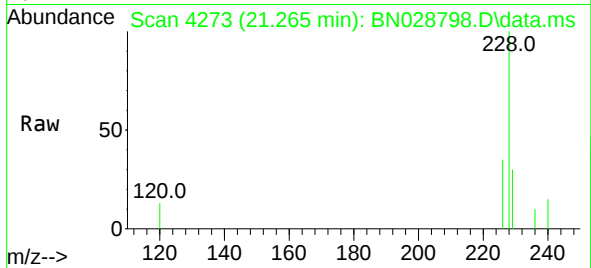
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Ion Ratio Lower Upper  
202 100  
101 13.5 10.3 15.5  
100 10.4 8.2 12.2





#21  
Benzo(a)anthracene  
Concen: 0.446 ng/u1  
RT: 21.265 min Scan# 41  
Delta R.T. -0.016 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

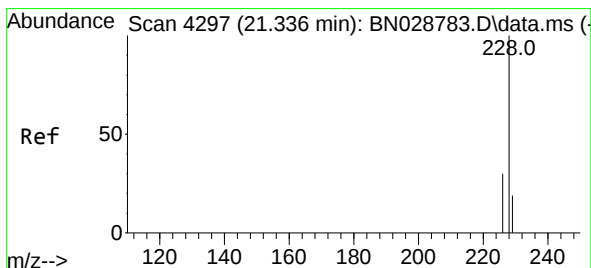
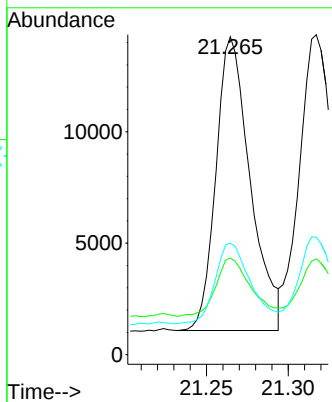
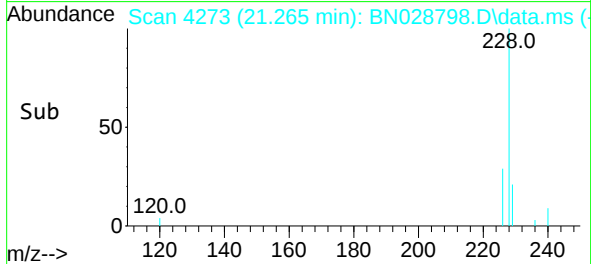
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



Tgt Ion:228 Resp: 19268  
Ion Ratio Lower Upper  
228 100  
229 30.4 15.7 23.5#  
226 35.1 21.4 32.0#

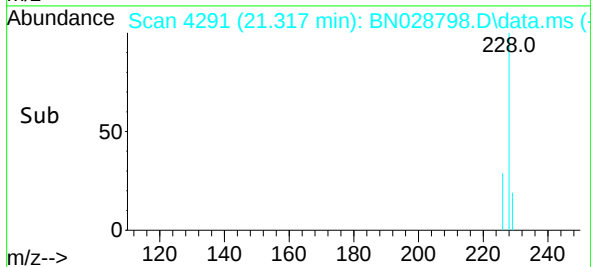
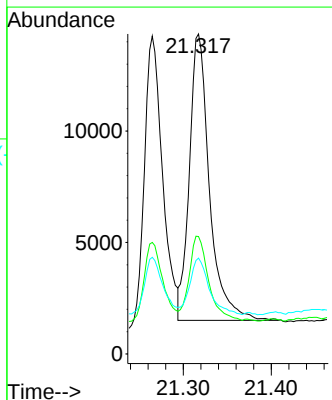
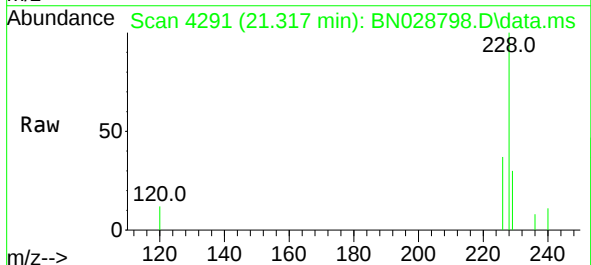
Manual Integrations  
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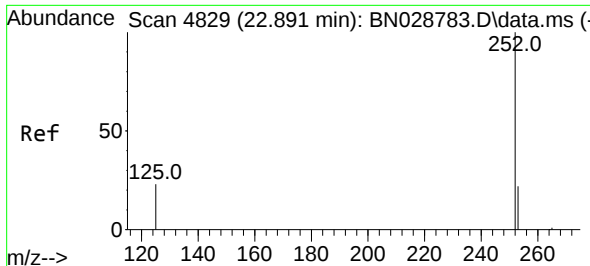
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#22  
Chrysene  
Concen: 0.482 ng/u1  
RT: 21.317 min Scan# 4291  
Delta R.T. -0.016 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

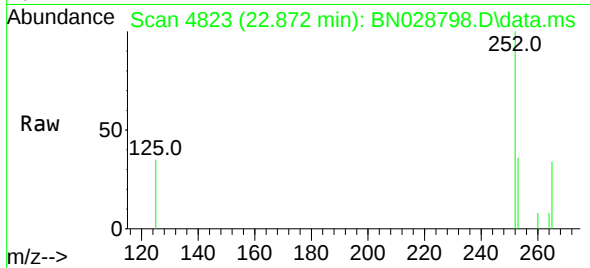
Tgt Ion:228 Resp: 20366  
Ion Ratio Lower Upper  
228 100  
226 36.7 23.8 35.8#  
229 30.0 15.4 23.2#





#24  
Benzo(b)fluoranthene  
Concen: 0.427 ng/ul  
RT: 22.872 min Scan# 4823  
Delta R.T. -0.016 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

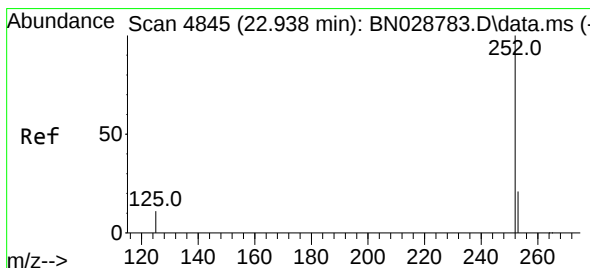
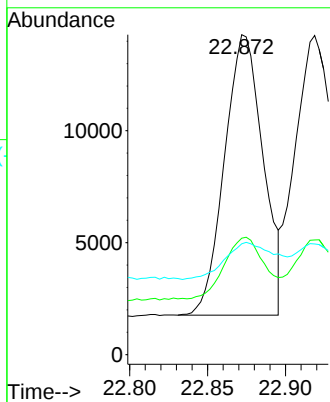
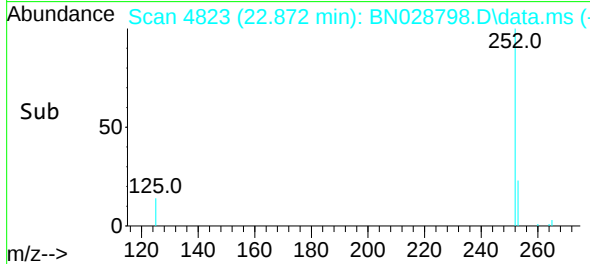
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



Tgt Ion:252 Resp: 21614  
Ion Ratio Lower Upper  
252 100  
253 36.4 0.0 46.6  
125 34.7 0.0 27.6

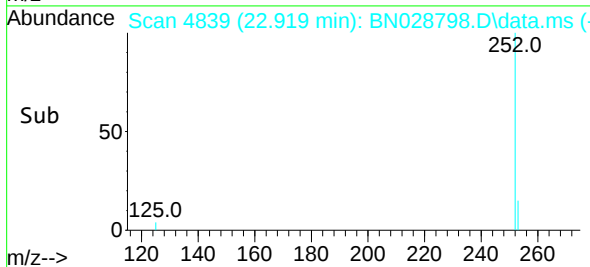
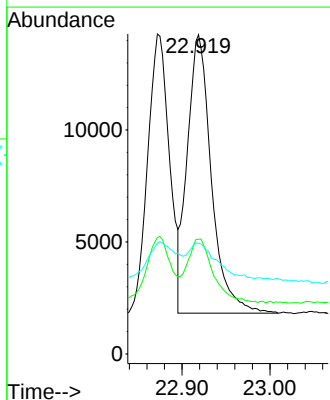
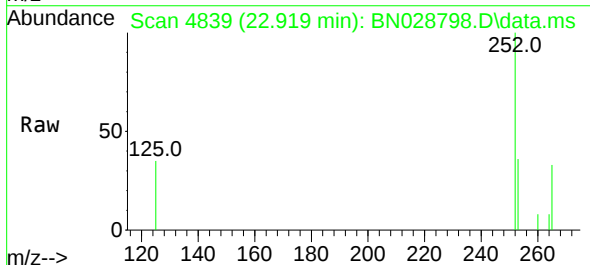
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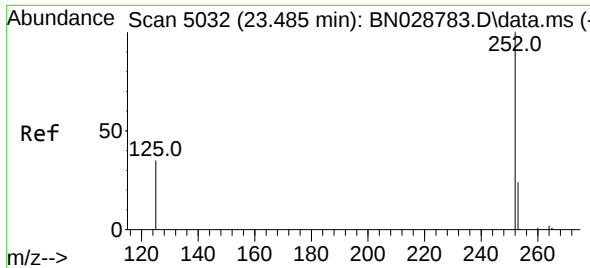
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.449 ng/ul  
RT: 22.919 min Scan# 4839  
Delta R.T. -0.013 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

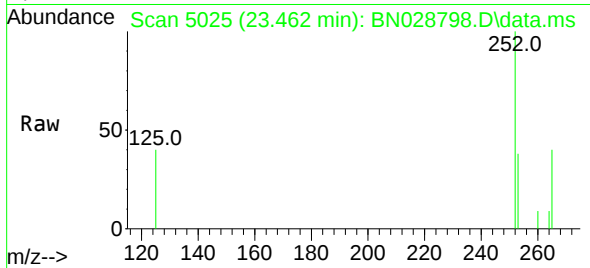
Tgt Ion:252 Resp: 23794  
Ion Ratio Lower Upper  
252 100  
253 35.9 18.6 28.0#  
125 34.7 12.7 19.1#





#26  
Benzo(a)pyrene  
Concen: 0.478 ng/ul  
RT: 23.462 min Scan# 5032  
Delta R.T. -0.019 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

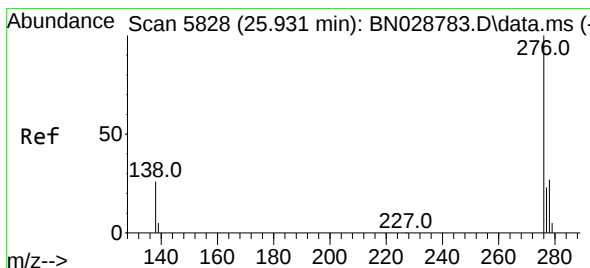
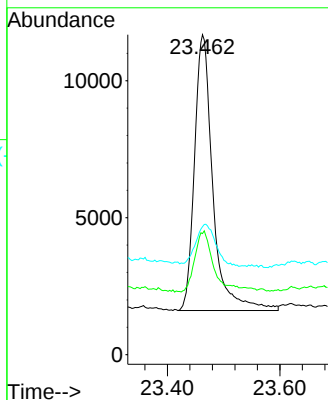
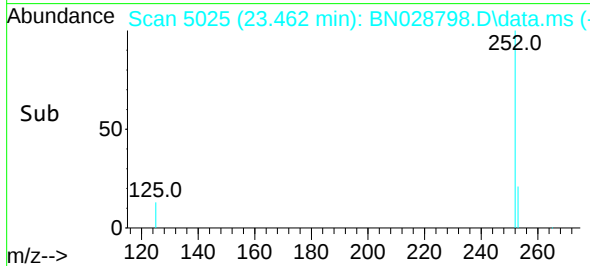
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



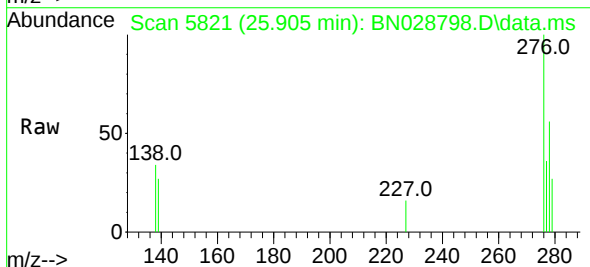
Tgt Ion:252 Resp: 2285  
Ion Ratio Lower Upper  
252 100  
253 37.9 19.0 28.6  
125 40.0 13.2 19.8

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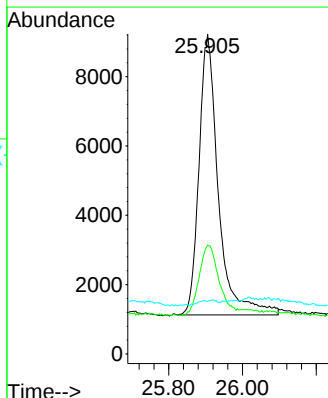
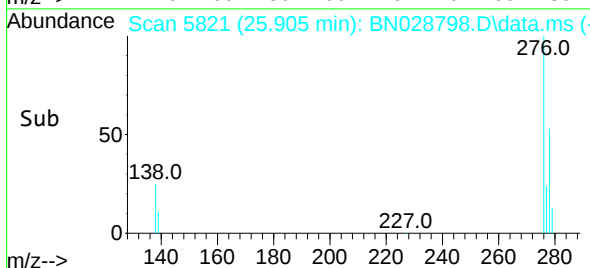
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023

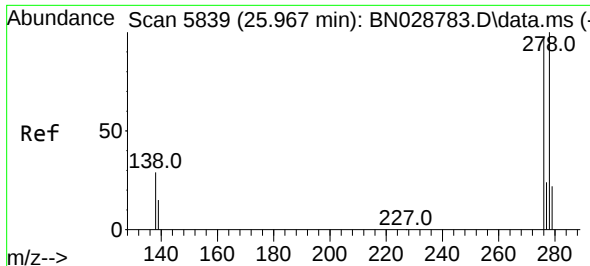


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.553 ng/ul  
RT: 25.905 min Scan# 5821  
Delta R.T. -0.025 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22



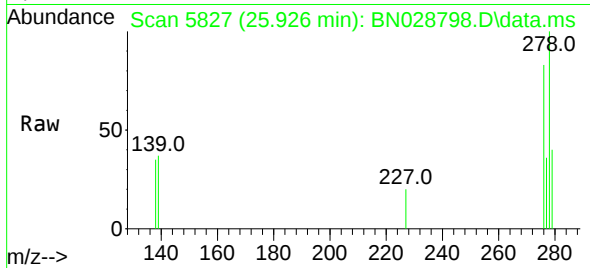
Tgt Ion:276 Resp: 29340  
Ion Ratio Lower Upper  
276 100  
138 28.5 23.8 35.6  
227 0.8 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 0.551 ng/ul  
RT: 25.926 min Scan# 5839  
Delta R.T. -0.032 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22

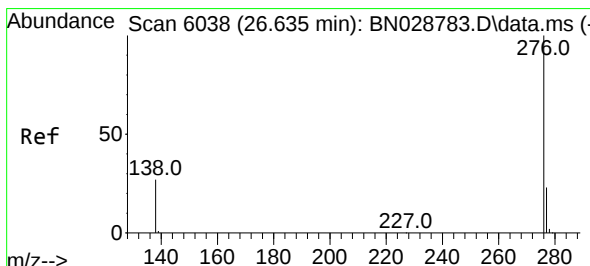
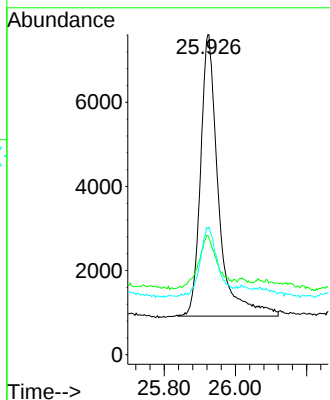
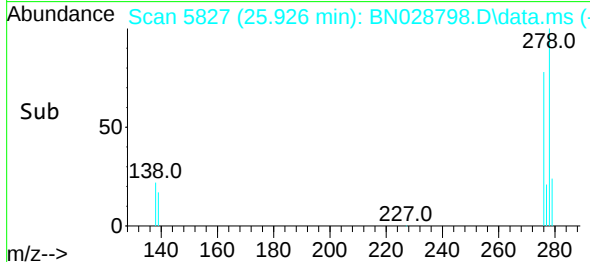
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS868



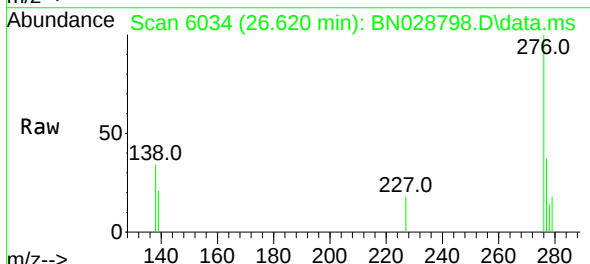
Tgt Ion:278 Resp: 2337  
Ion Ratio Lower Upper  
278 100  
139 36.6 18.2 27.4#  
279 39.9 20.7 31.1#

Manual Integrations  
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Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.545 ng/ul  
RT: 26.620 min Scan# 6034  
Delta R.T. -0.022 min  
Lab File: BN028798.D  
Acq: 20 Nov 2023 04:22



Tgt Ion:276 Resp: 23698  
Ion Ratio Lower Upper  
276 100  
138 33.5 20.5 30.7#  
277 37.3 19.4 29.0#

