

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112823\  
 Data File : BN028905.D  
 Acq On : 28 Nov 2023 15:48  
 Operator : MA/JU  
 Sample : 05416-03DL 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AB4DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2023  
 Supervised By :mohammad ahmed 11/29/2023

Quant Time: Nov 28 16:24:56 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 : Tue Nov 21 23:49:43 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.665  | 152  | 4432m    | 0.400 | ng/ul  | -0.07    |
| 4) Naphthalene-d8           | 10.429 | 136  | 15885    | 0.400 | ng/ul  | #-0.03   |
| 9) Acenaphthene-d10         | 14.288 | 164  | 8548     | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 17.047 | 188  | 14519    | 0.400 | ng/ul  | #-0.01   |
| 17) Chrysene-d12            | 21.263 | 240  | 10098    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.534 | 264  | 9957     | 0.400 | ng/ul  | # 0.00   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.099  | 96   | 4037     | 0.824 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.057 | 152  | 748m     | 0.031 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.089 | 212  | 1405     | 0.043 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.479 | 128  | 7648     | 0.172 | ng/ul# | 93       |
| 7) 2-Methylnaphthalene      | 12.118 | 142  | 7267m    | 0.248 | ng/ul  |          |
| 8) 1-Methylnaphthalene      | 12.321 | 142  | 6561     | 0.220 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.085 | 178  | 25607    | 0.574 | ng/ul  | 98       |
| 19) Fluoranthene            | 19.117 | 202  | 9236     | 0.215 | ng/ul# | 95       |
| 20) Pyrene                  | 19.475 | 202  | 8095     | 0.182 | ng/ul# | 89       |
| 21) Benzo(a)anthracene      | 21.252 | 228  | 2896m    | 0.073 | ng/ul  |          |
| 22) Chrysene                | 21.301 | 228  | 7670m    | 0.196 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.853 | 252  | 5595m    | 0.150 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.894 | 252  | 1898m    | 0.049 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.432 | 252  | 2767     | 0.078 | ng/ul# | 1        |
| 27) Indeno(1,2,3-cd)pyrene  | 25.877 | 276  | 2380     | 0.061 | ng/ul# | 94       |
| 29) Benzo(g,h,i)perylene    | 26.578 | 276  | 2986     | 0.093 | ng/ul# | 72       |
| -----                       |        |      |          |       |        |          |

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

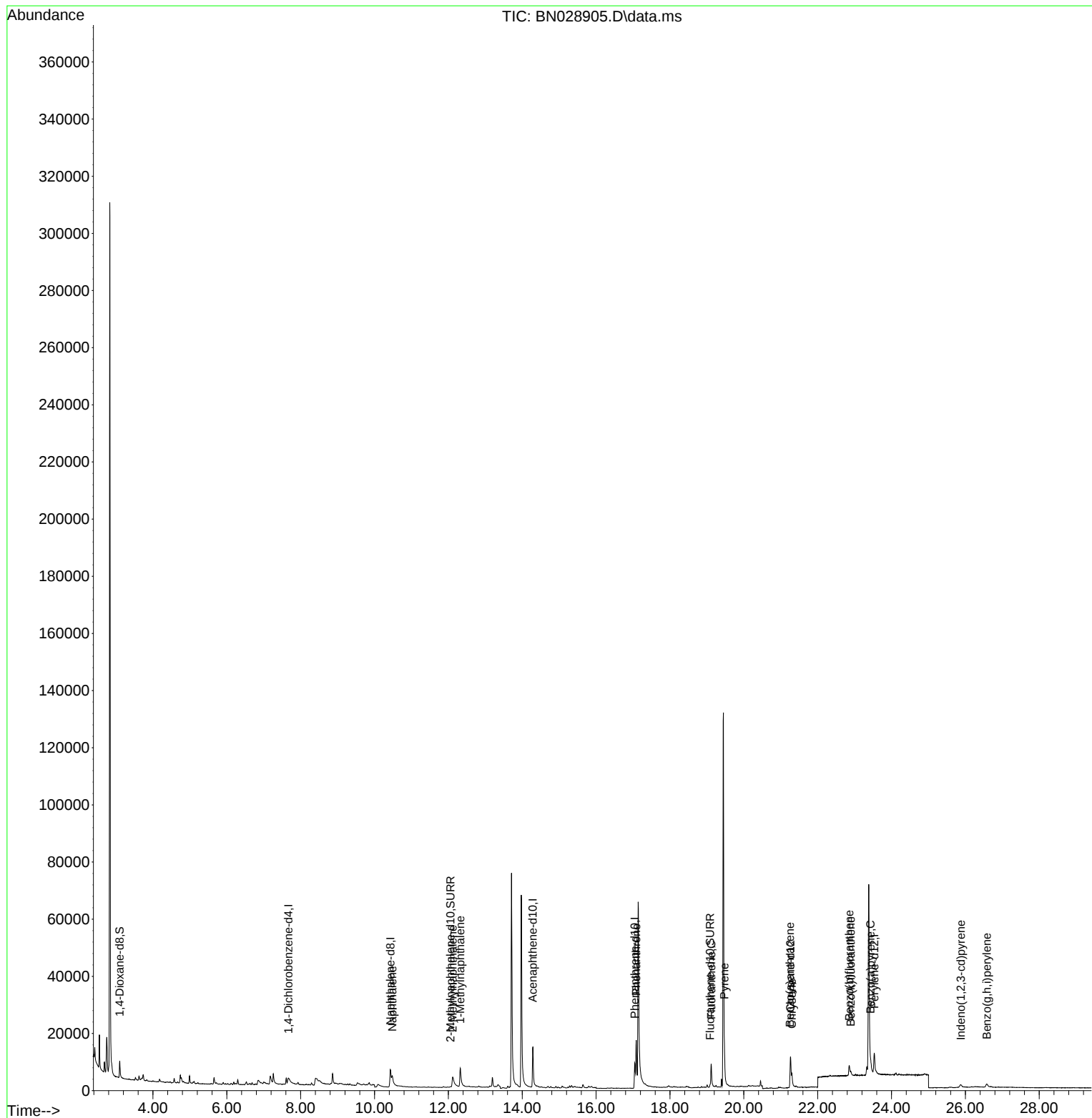
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112823\  
Data File : BN028905.D  
Acq On : 28 Nov 2023 15:48  
Operator : MA/JU  
Sample : 05416-03DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

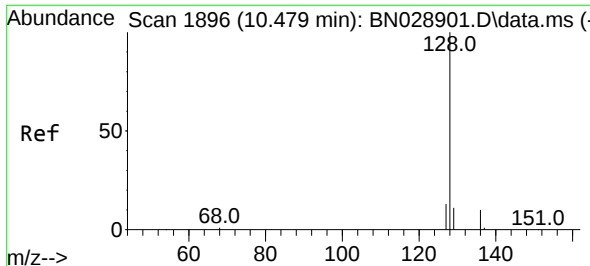
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB4DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023

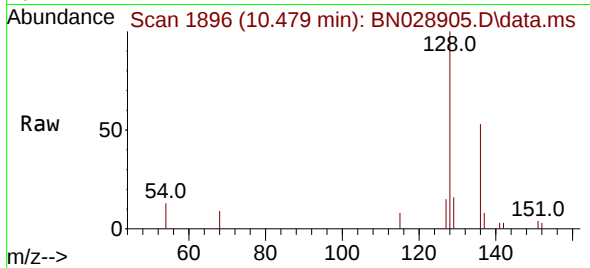
Quant Time: Nov 28 16:24:56 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 21 23:49:43 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.172 ng/ul  
RT: 10.479 min Scan# 1896  
Delta R.T. -0.027 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

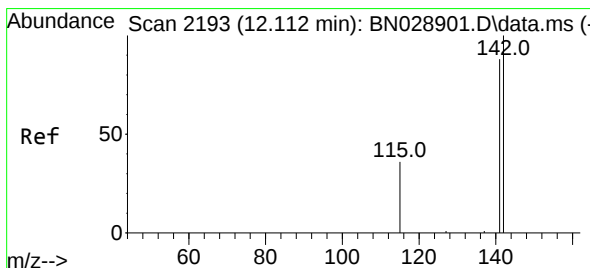
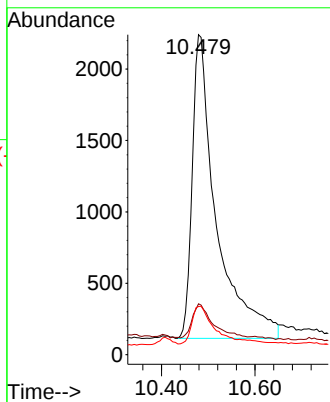
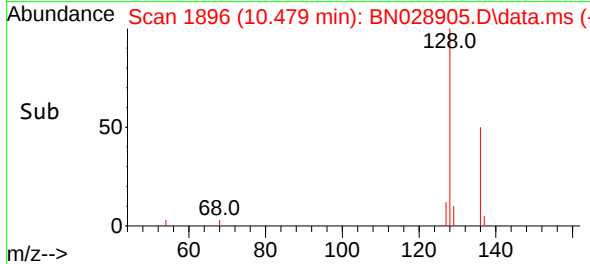
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB4DL



Tgt Ion:128 Resp: 7648  
Ion Ratio Lower Upper  
128 100  
129 15.9 9.2 13.8  
127 15.0 10.7 16.1

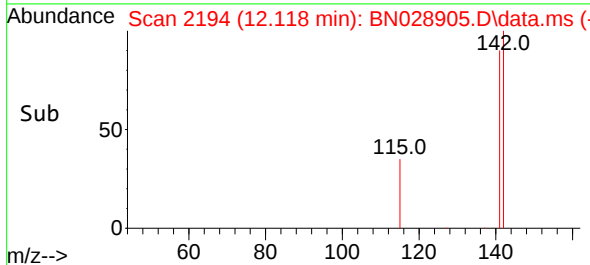
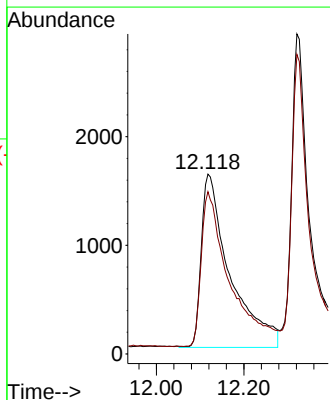
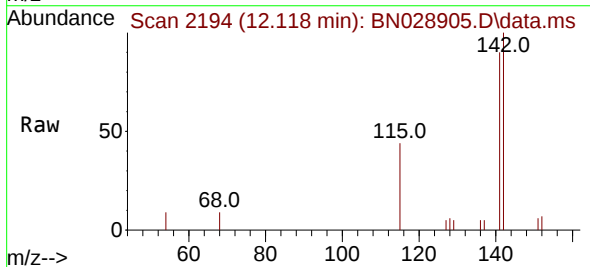
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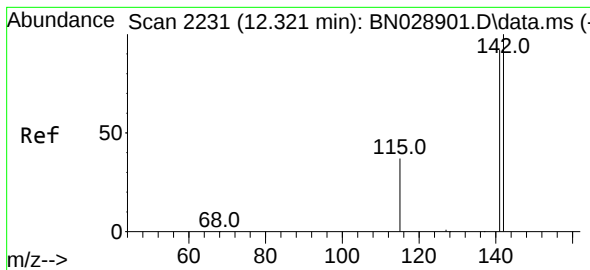
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023



#7  
2-Methylnaphthalene  
Concen: 0.248 ng/ul m  
RT: 12.118 min Scan# 2194  
Delta R.T. -0.022 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

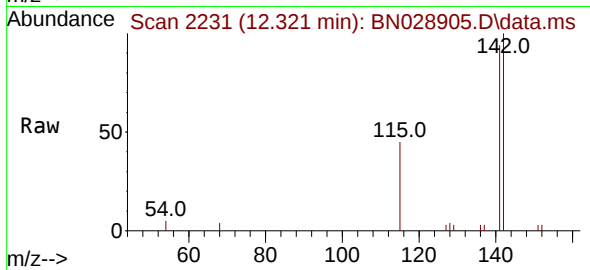
Tgt Ion:142 Resp: 7267  
Ion Ratio Lower Upper  
142 100  
141 67.1 70.8 106.2#





#8  
1-Methylnaphthalene  
Concen: 0.220 ng/ul  
RT: 12.321 min Scan# 211  
Delta R.T. -0.016 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

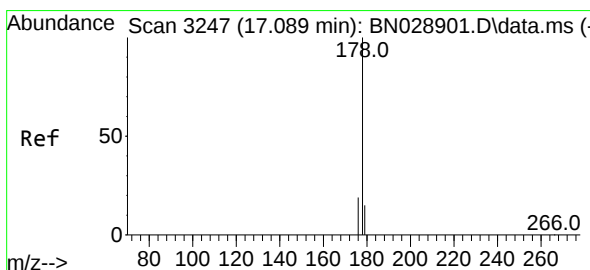
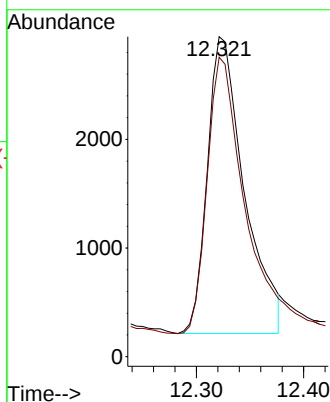
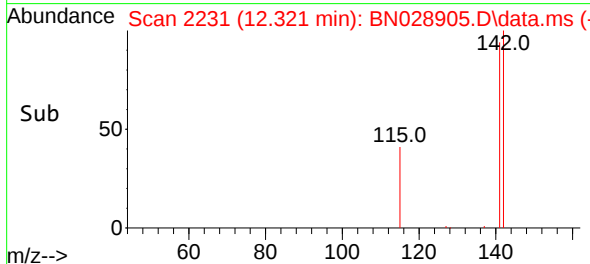
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB4DL



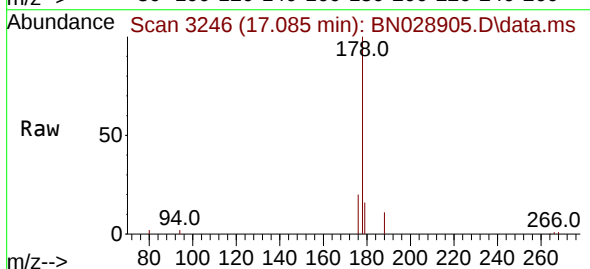
Tgt Ion:142 Resp: 656  
Ion Ratio Lower Upper  
142 100  
141 92.1 74.1 111.1

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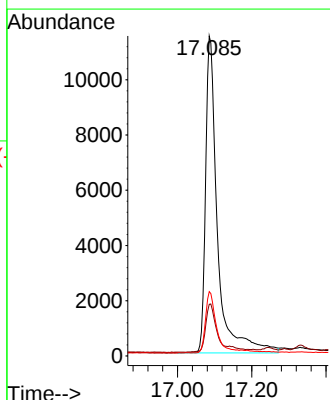
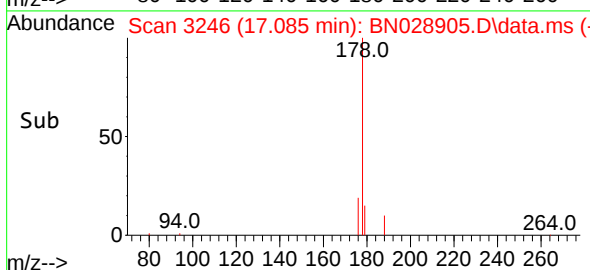
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023

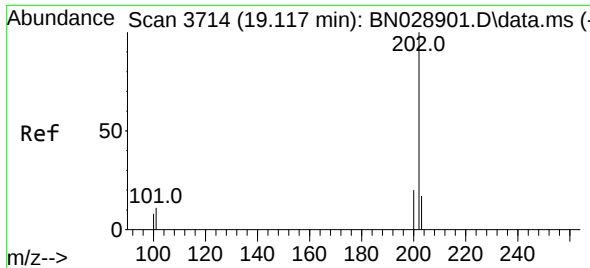


#15  
Phenanthrene  
Concen: 0.574 ng/ul  
RT: 17.085 min Scan# 3246  
Delta R.T. -0.018 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48



Tgt Ion:178 Resp: 25607  
Ion Ratio Lower Upper  
178 100  
179 16.2 12.4 18.6  
176 20.1 15.4 23.2





#19

Fluoranthene

Concen: 0.215 ng/u1

RT: 19.117 min Scan# 3714

Delta R.T. -0.005 min

Lab File: BN028905.D

Acq: 28 Nov 2023 15:48

Instrument :

BNA\_N

ClientSampleId :

C0AB4DL

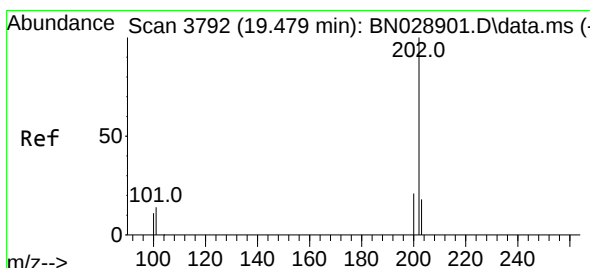
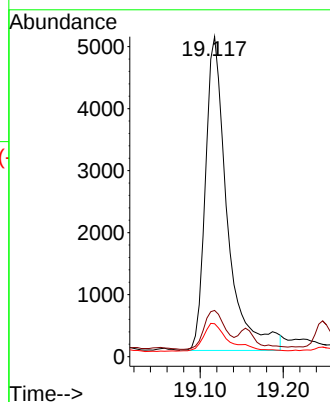
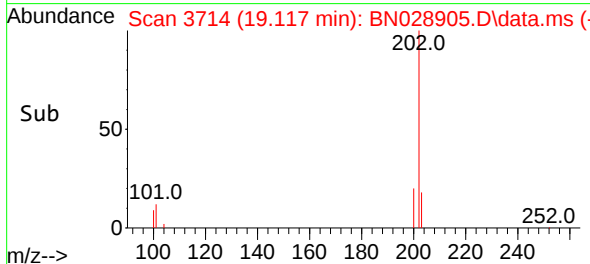
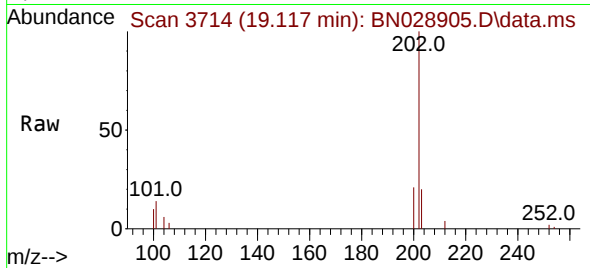
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 9230 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 14.4  | 9.5   | 14.3 |
| 100       | 10.3  | 7.2   | 10.8 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2023

Supervised By :mohammad ahmed 11/29/2023



#20

Pyrene

Concen: 0.182 ng/u1

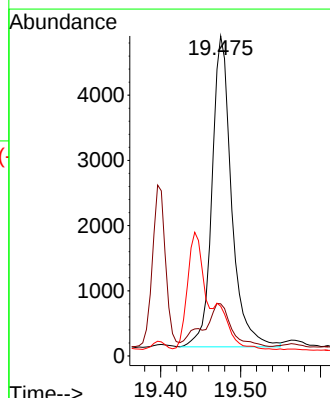
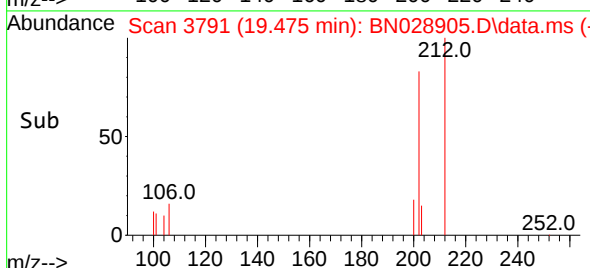
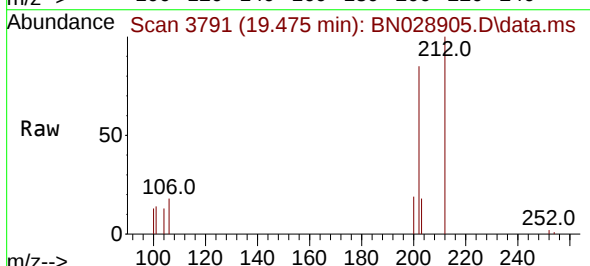
RT: 19.475 min Scan# 3791

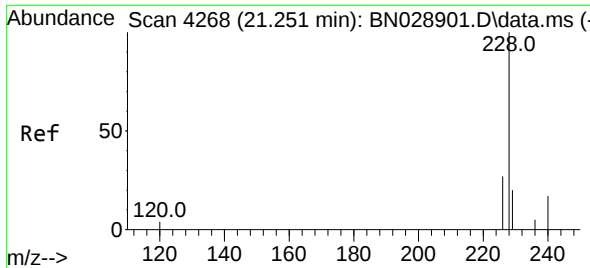
Delta R.T. -0.010 min

Lab File: BN028905.D

Acq: 28 Nov 2023 15:48

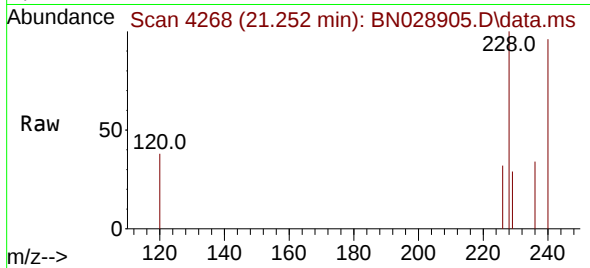
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 8095 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 16.3  | 10.3  | 15.5 |
| 100       | 15.6  | 8.2   | 12.2 |





#21  
Benzo(a)anthracene  
Concen: 0.073 ng/ul m  
RT: 21.252 min Scan# 4268  
Delta R.T. -0.004 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

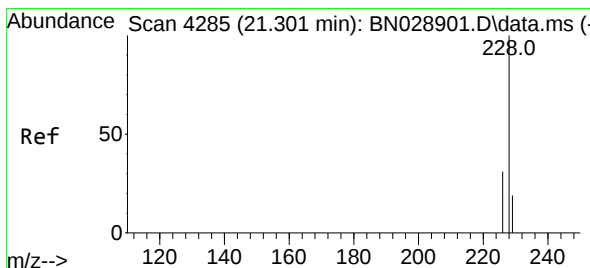
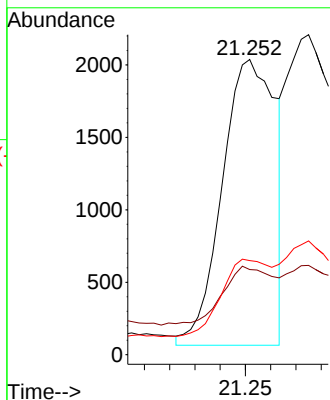
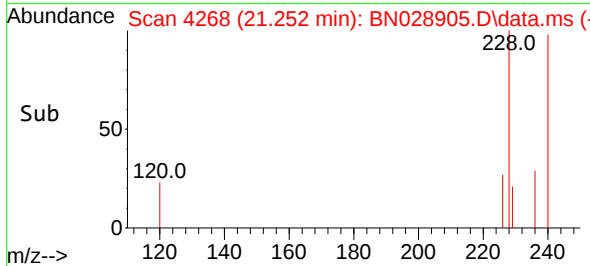
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB4DL



Tgt Ion:228 Resp: 2890  
Ion Ratio Lower Upper  
228 100  
229 28.9 15.7 23.5  
226 31.9 21.4 32.0

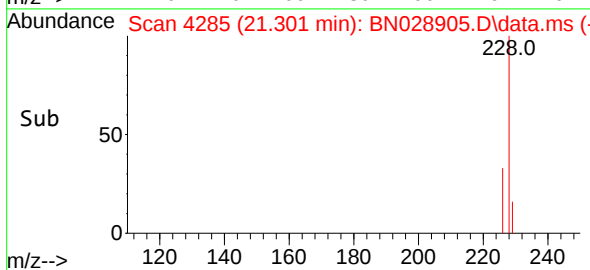
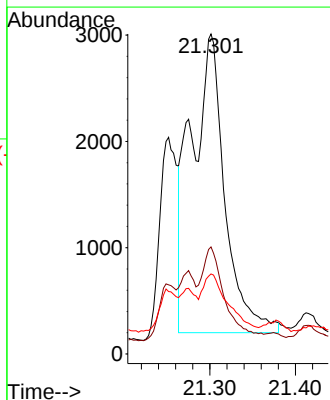
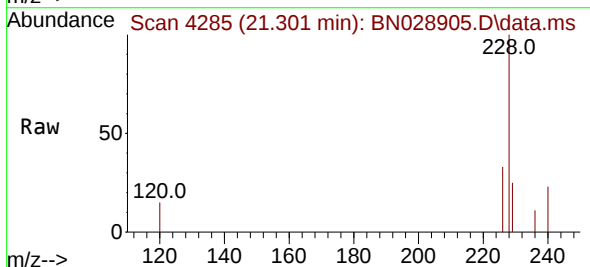
Manual Integrations  
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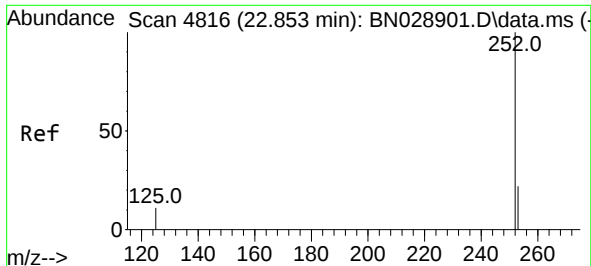
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023



#22  
Chrysene  
Concen: 0.196 ng/ul m  
RT: 21.301 min Scan# 4285  
Delta R.T. -0.004 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

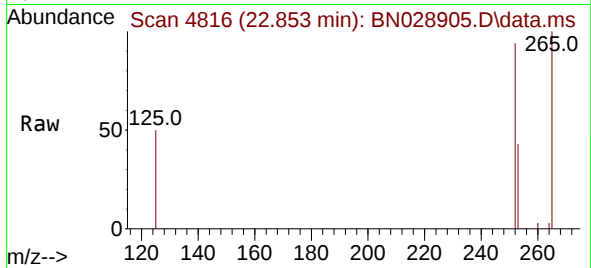
Tgt Ion:228 Resp: 7670  
Ion Ratio Lower Upper  
228 100  
226 33.4 23.8 35.8  
229 25.0 15.4 23.2





#24  
Benzo(b)fluoranthene  
Concen: 0.150 ng/ul m  
RT: 22.853 min Scan# 4816  
Delta R.T. -0.001 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

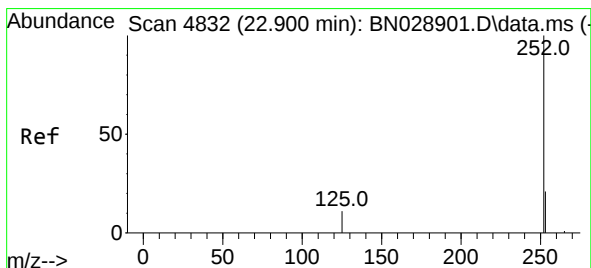
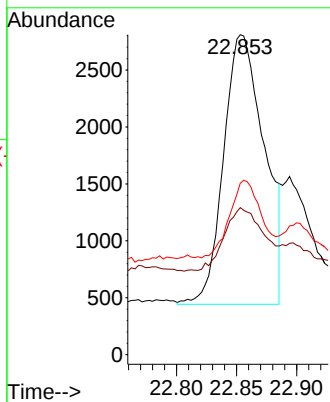
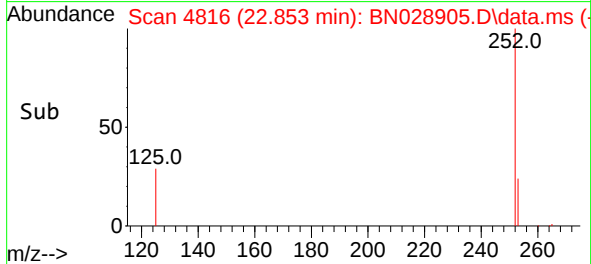
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB4DL



Tgt Ion:252 Resp: 559  
Ion Ratio Lower Upper  
252 100  
253 46.0 0.0 46.6  
125 53.6 0.0 27.6

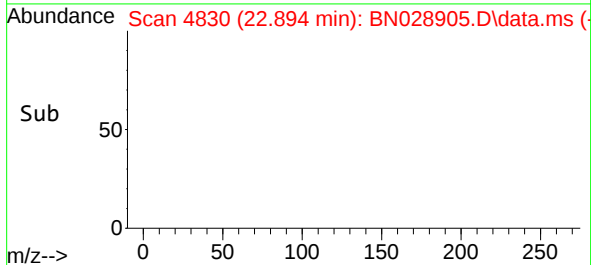
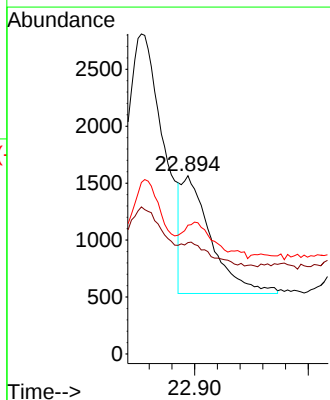
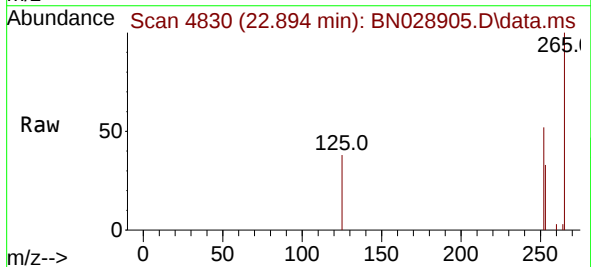
Manual Integrations  
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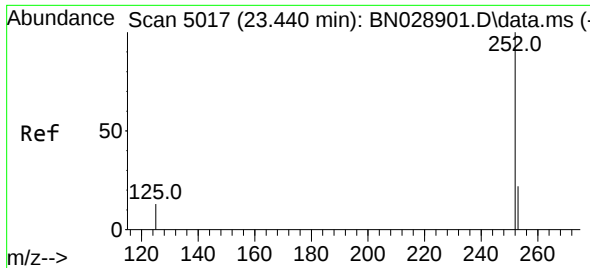
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.049 ng/ul m  
RT: 22.894 min Scan# 4830  
Delta R.T. -0.010 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

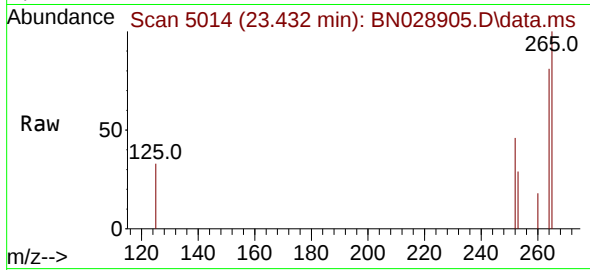
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Ion Ratio Lower Upper  
252 100  
253 62.5 18.6 28.0#  
125 72.2 12.7 19.1#





#26  
Benzo(a)pyrene  
Concen: 0.078 ng/ul  
RT: 23.432 min Scan# 5017  
Delta R.T. -0.012 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

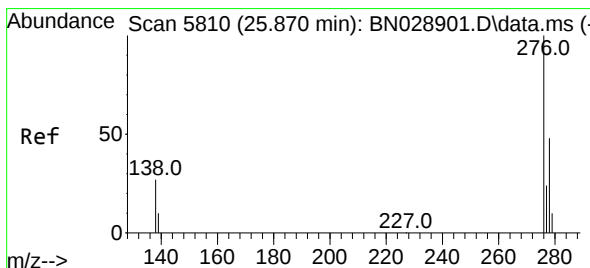
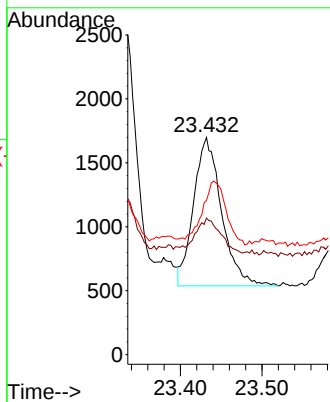
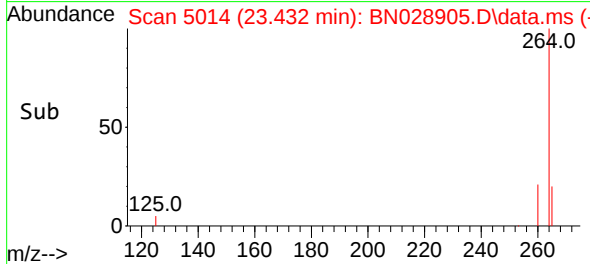
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB4DL



Tgt Ion:252 Resp: 276  
Ion Ratio Lower Upper  
252 100  
253 62.9 19.0 28.6  
125 71.0 13.2 19.8

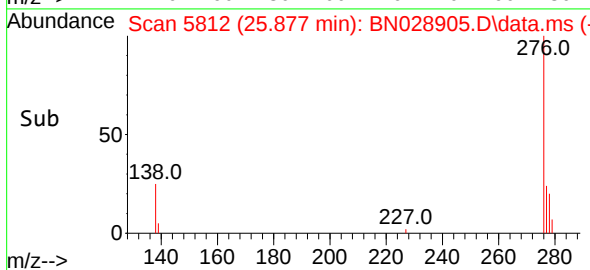
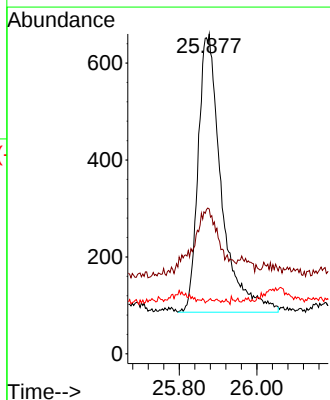
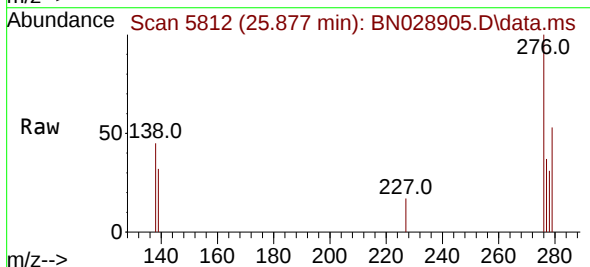
Manual Integrations  
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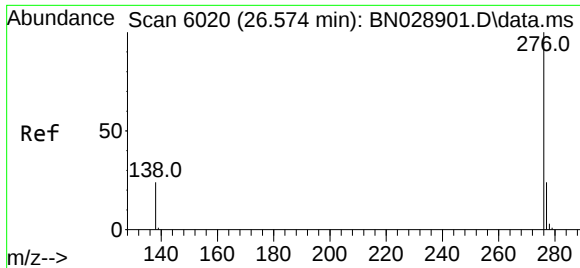
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.061 ng/ul  
RT: 25.877 min Scan# 5812  
Delta R.T. 0.003 min  
Lab File: BN028905.D  
Acq: 28 Nov 2023 15:48

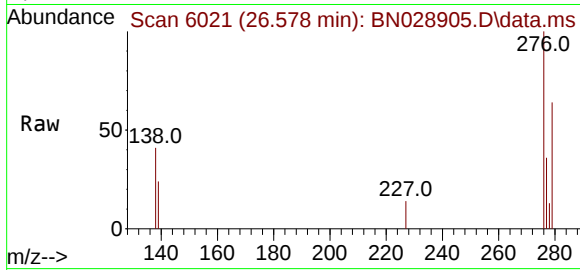
Tgt Ion:276 Resp: 2380  
Ion Ratio Lower Upper  
276 100  
138 26.3 23.8 35.6  
227 0.3 0.1 0.1





#29  
 Benzo(g,h,i)perylene  
 Concen: 0.093 ng/ul  
 RT: 26.578 min Scan# 6021  
 Delta R.T. -0.001 min  
 Lab File: BN028905.D  
 Acq: 28 Nov 2023 15:48

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AB4DL



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 2980 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 41.5  | 20.5  | 30.7 |
| 277       | 35.8  | 19.4  | 29.0 |

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2023  
 Supervised By :mohammad ahmed 11/29/2023

