

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112723\  
 Data File : BN028896.D  
 Acq On : 28 Nov 2023 01:33  
 Operator : MA/JU  
 Sample : 05416-13  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AG6

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/28/2023  
 Supervised By :mohammad ahmed 11/28/2023

Quant Time: Nov 28 04:32:01 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   | 7.660  | 152  | 4583m    | 0.400 | ng/ul  | -0.08    |
| 4) Naphthalene-d8           | 10.429 | 136  | 15110    | 0.400 | ng/ul  | #-0.03   |
| 9) Acenaphthene-d10         | 14.288 | 164  | 7422     | 0.400 | ng/ul  | #-0.01   |
| 13) Phenanthrene-d10        | 17.047 | 188  | 12071    | 0.400 | ng/ul  | #-0.01   |
| 17) Chrysene-d12            | 21.260 | 240  | 9423     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.531 | 264  | 10912    | 0.400 | ng/ul  | # 0.00   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.099  | 96   | 14992    | 2.960 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.046 | 152  | 2370     | 0.104 | ng/ul  | -0.03    |
| 18) Fluoranthene-d10        | 19.085 | 212  | 4687     | 0.155 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.479 | 128  | 5743     | 0.136 | ng/ul# | 89       |
| 7) 2-Methylnaphthalene      | 12.118 | 142  | 3691     | 0.132 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.327 | 142  | 3103     | 0.110 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.006 | 152  | 3671     | 0.099 | ng/ul# | 88       |
| 11) Acenaphthene            | 14.353 | 153  | 1173     | 0.043 | ng/ul  | 93       |
| 12) Fluorene                | 15.348 | 166  | 2395     | 0.076 | ng/ul# | 96       |
| 15) Phenanthrene            | 17.085 | 178  | 28433    | 0.767 | ng/ul  | 99       |
| 16) Anthracene              | 17.178 | 178  | 10350    | 0.304 | ng/ul  | 94       |
| 19) Fluoranthene            | 19.113 | 202  | 66226    | 1.652 | ng/ul  | 100      |
| 20) Pyrene                  | 19.475 | 202  | 56666    | 1.364 | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.246 | 228  | 29996    | 0.805 | ng/ul  | 95       |
| 22) Chrysene                | 21.298 | 228  | 22880    | 0.628 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 22.850 | 252  | 34058m   | 0.832 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.894 | 252  | 13102m   | 0.306 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.429 | 252  | 22464    | 0.581 | ng/ul# | 90       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.860 | 276  | 15054    | 0.351 | ng/ul# | 88       |
| 28) Dibenzo(a,h)anthracene  | 25.873 | 278  | 3496     | 0.102 | ng/ul# | 52       |
| 29) Benzo(g,h,i)perylene    | 26.568 | 276  | 14041    | 0.399 | ng/ul  | 94       |
| -----                       |        |      |          |       |        |          |

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

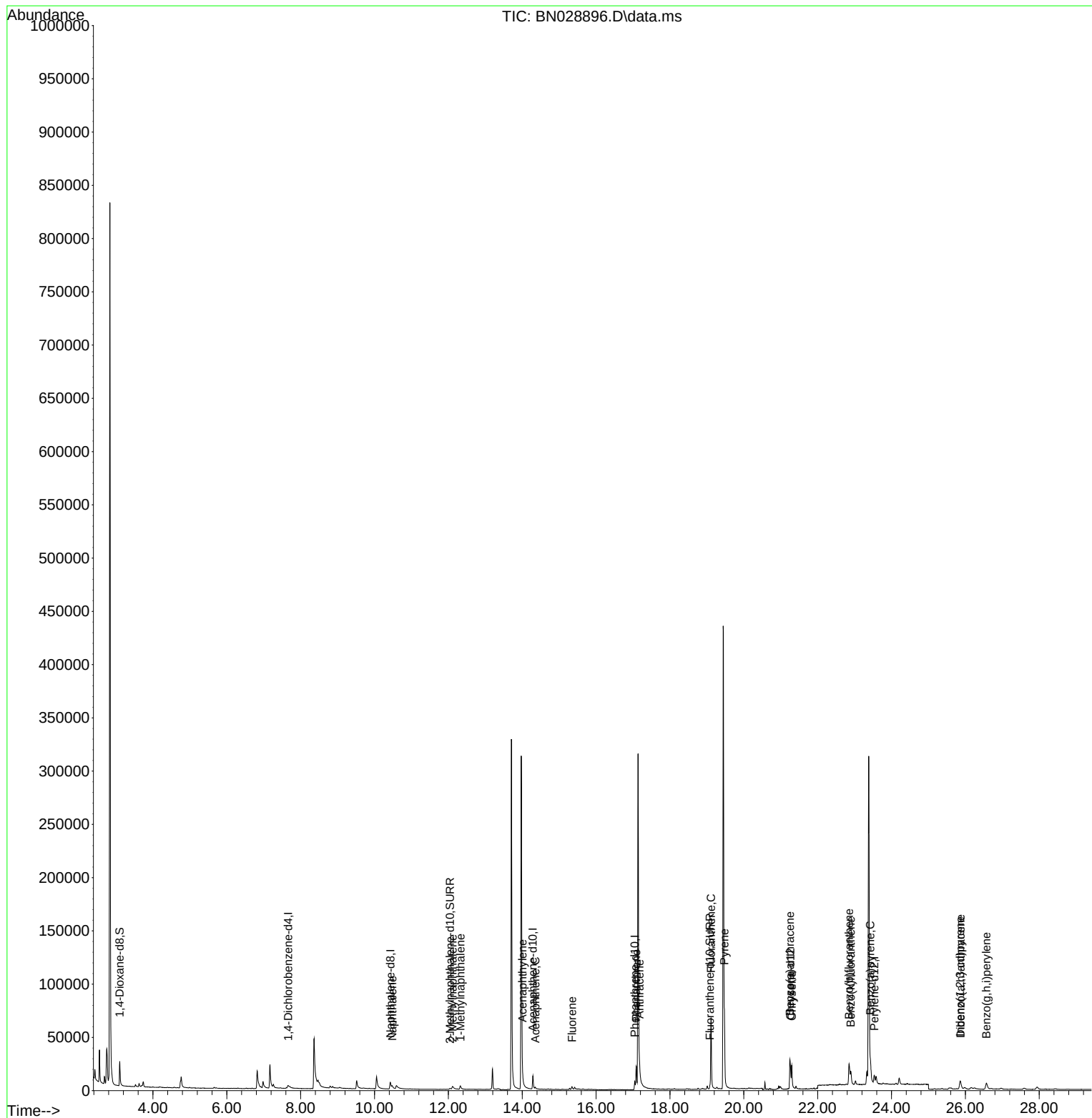
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112723\  
Data File : BN028896.D  
Acq On : 28 Nov 2023 01:33  
Operator : MA/JU  
Sample : 05416-13  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

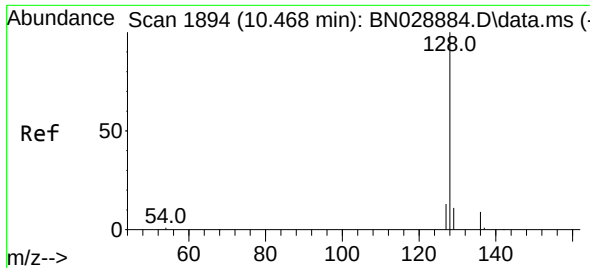
Instrument :  
BNA\_N  
ClientSampleId :  
C0AG6

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Supervised By :mohammad ahmed 11/28/2023

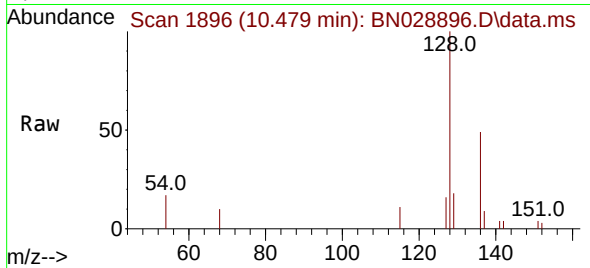
Quant Time: Nov 28 04:32:01 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 21 23:49:43 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.136 ng/ul  
RT: 10.479 min Scan# 1896  
Delta R.T. -0.027 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

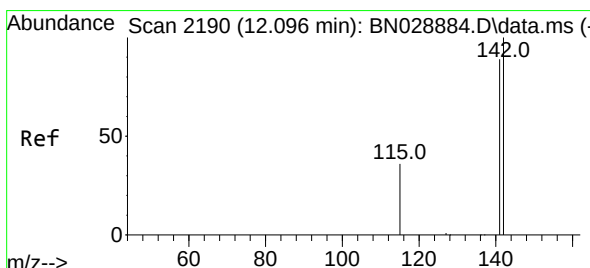
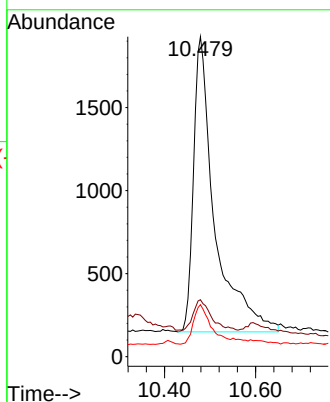
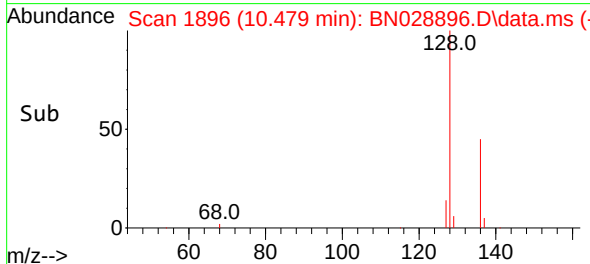
Instrument :  
BNA\_N  
ClientSampleId :  
C0AG6



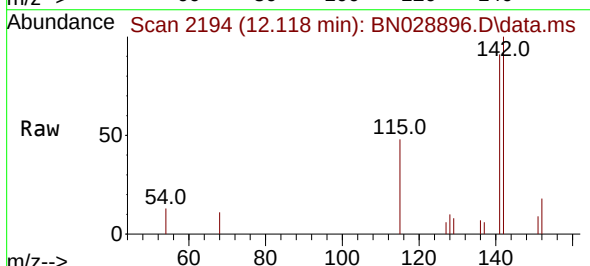
Tgt Ion:128 Resp: 574  
Ion Ratio Lower Upper  
128 100  
129 17.8 9.2 13.8  
127 16.2 10.7 16.1

Manual Integrations  
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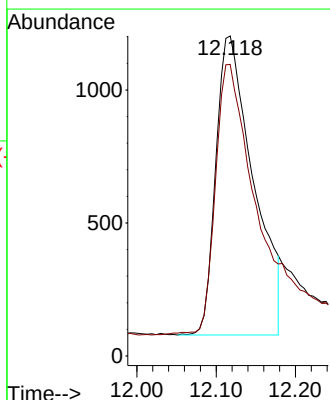
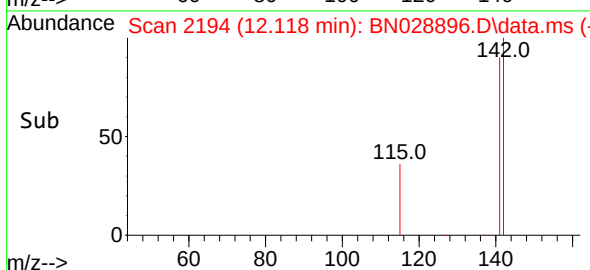
Reviewed By :Yogesh Patel 11/28/2023  
Supervised By :mohammad ahmed 11/28/2023

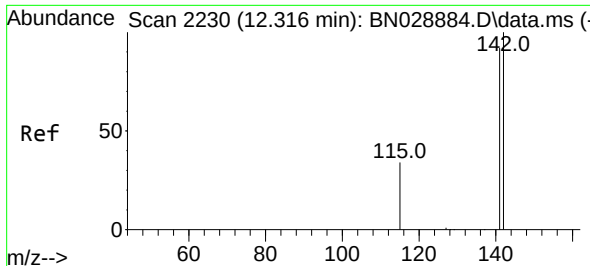


#7  
2-Methylnaphthalene  
Concen: 0.132 ng/ul  
RT: 12.118 min Scan# 2194  
Delta R.T. -0.022 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33



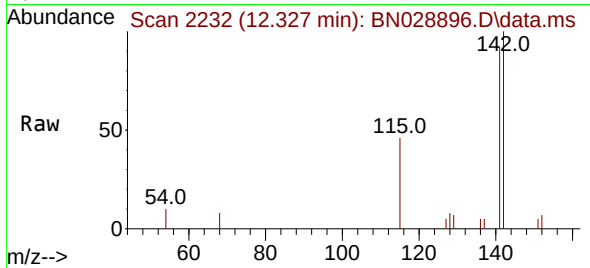
Tgt Ion:142 Resp: 3691  
Ion Ratio Lower Upper  
142 100  
141 91.3 70.8 106.2





#8  
1-Methylnaphthalene  
Concen: 0.110 ng/ul  
RT: 12.327 min Scan# 2110  
Delta R.T. -0.011 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

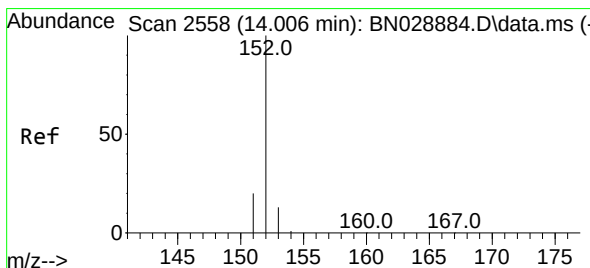
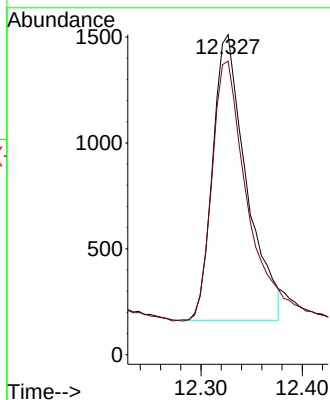
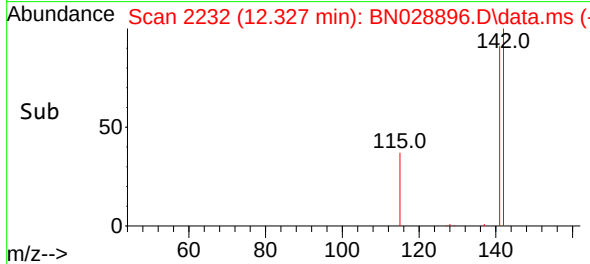
Instrument :  
BNA\_N  
ClientSampleId :  
C0AG6



Tgt Ion:142 Resp: 3100  
Ion Ratio Lower Upper  
142 100  
141 93.0 74.1 111.1

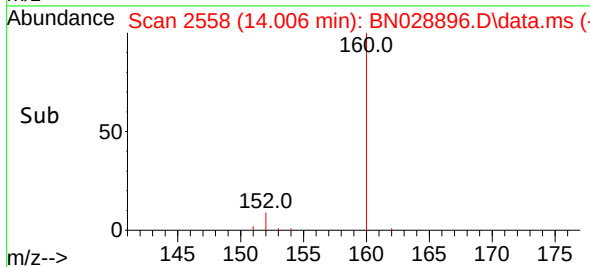
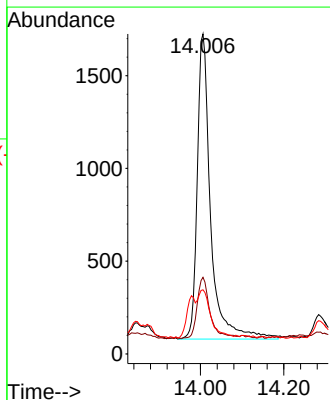
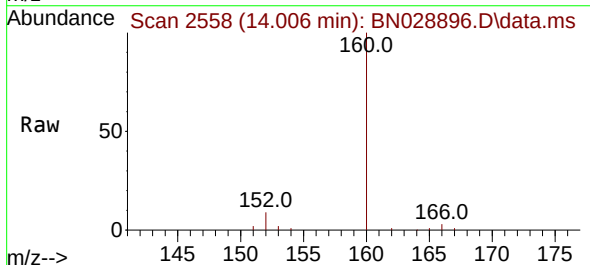
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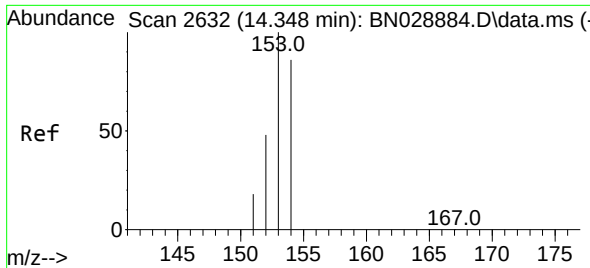
Reviewed By :Yogesh Patel 11/28/2023  
Supervised By :mohammad ahmed 11/28/2023



#10  
Acenaphthylene  
Concen: 0.099 ng/ul  
RT: 14.006 min Scan# 2558  
Delta R.T. -0.019 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

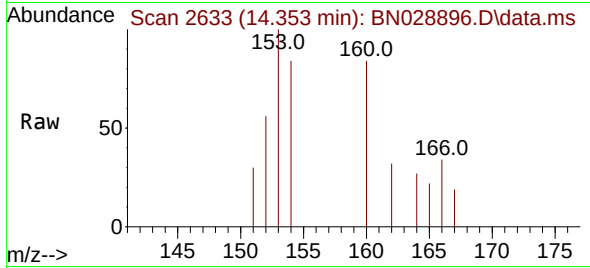
Tgt Ion:152 Resp: 3671  
Ion Ratio Lower Upper  
152 100  
151 23.9 16.1 24.1  
153 20.1 10.6 15.8#





#11  
Acenaphthene  
Concen: 0.043 ng/ul  
RT: 14.353 min Scan# 2633  
Delta R.T. -0.010 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

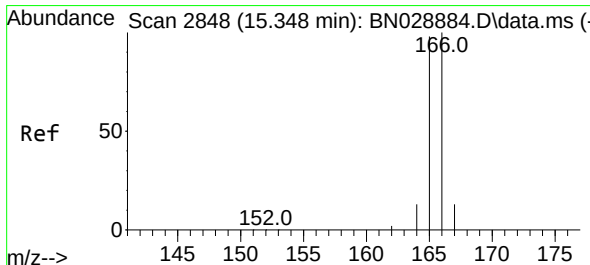
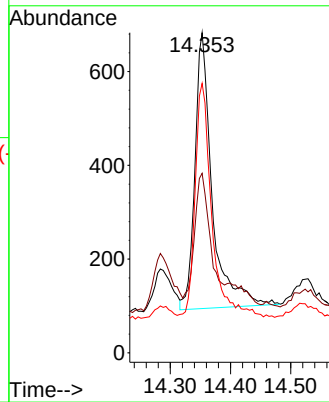
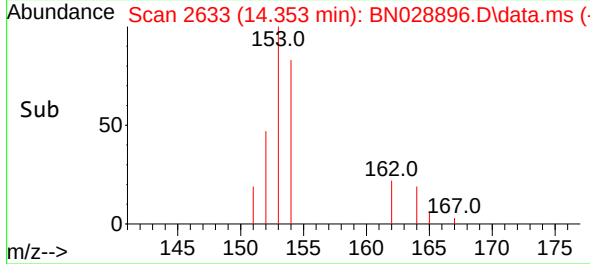
Instrument :  
BNA\_N  
ClientSampleId :  
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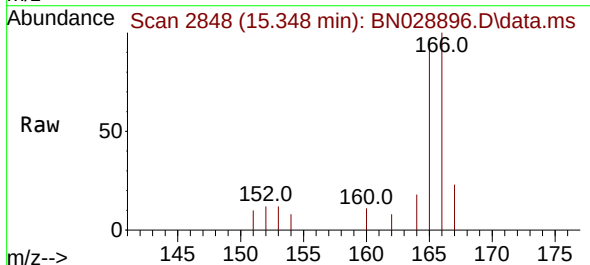
Tgt Ion:153 Resp: 117  
Ion Ratio Lower Upper  
153 100  
152 56.1 39.6 59.4  
154 84.2 71.0 106.6

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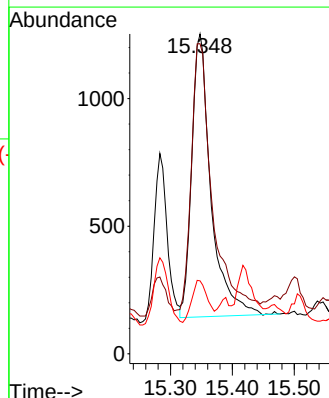
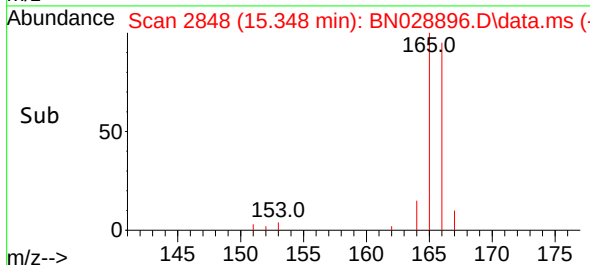
Reviewed By :Yogesh Patel 11/28/2023  
Supervised By :mohammad ahmed 11/28/2023

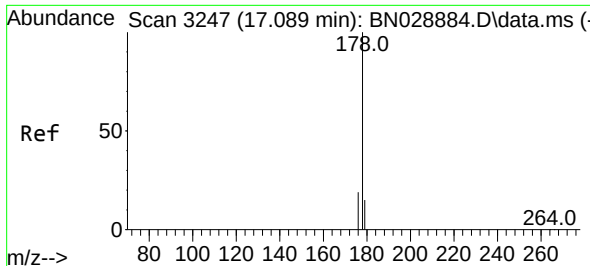


#12  
Fluorene  
Concen: 0.076 ng/ul  
RT: 15.348 min Scan# 2848  
Delta R.T. -0.019 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33



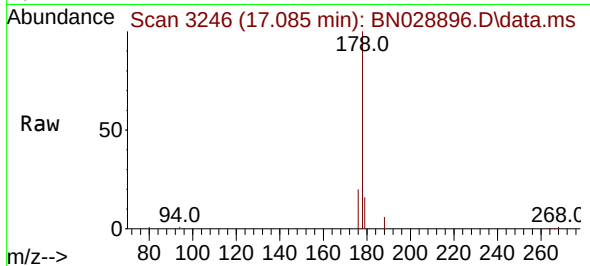
Tgt Ion:166 Resp: 2395  
Ion Ratio Lower Upper  
166 100  
165 97.0 78.6 118.0  
167 22.8 11.0 16.6#





#15  
Phenanthrene  
Concen: 0.767 ng/ul  
RT: 17.085 min Scan# 31  
Delta R.T. -0.018 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

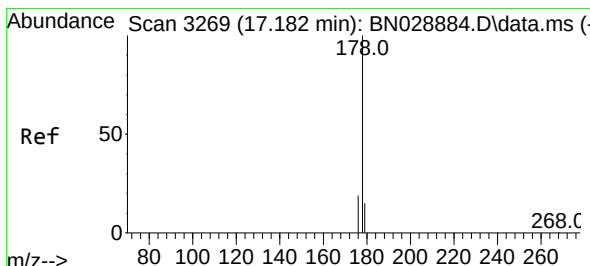
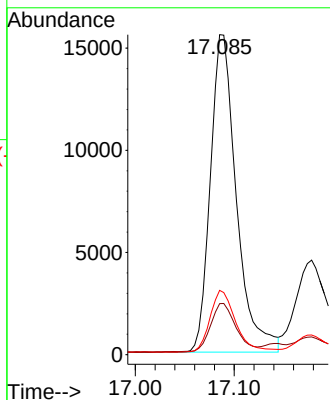
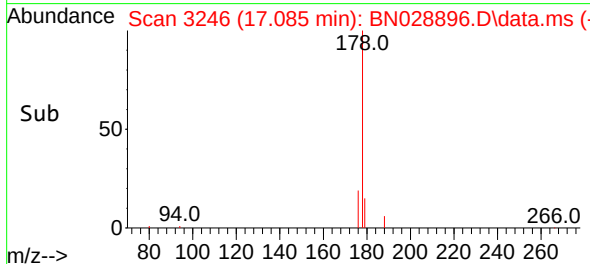
Instrument :  
BNA\_N  
ClientSampleId :  
C0AG6



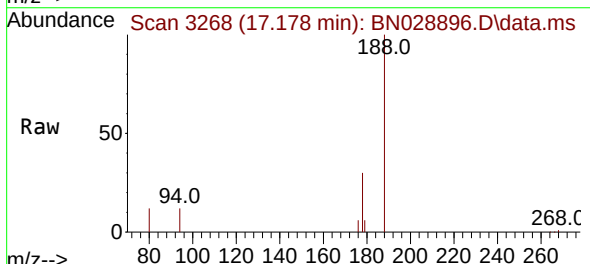
Tgt Ion:178 Resp: 2843  
Ion Ratio Lower Upper  
178 100  
179 15.9 12.4 18.6  
176 20.1 15.4 23.2

Manual Integrations  
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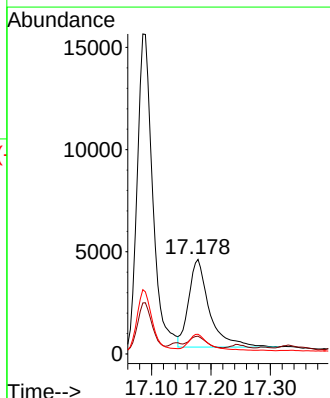
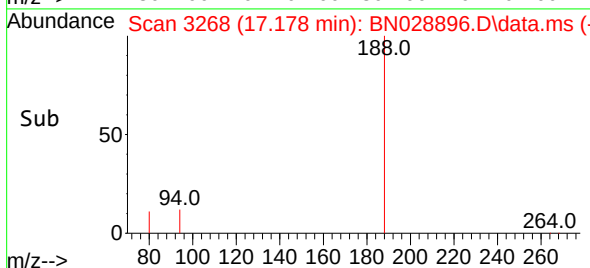
Reviewed By :Yogesh Patel 11/28/2023  
Supervised By :mohammad ahmed 11/28/2023

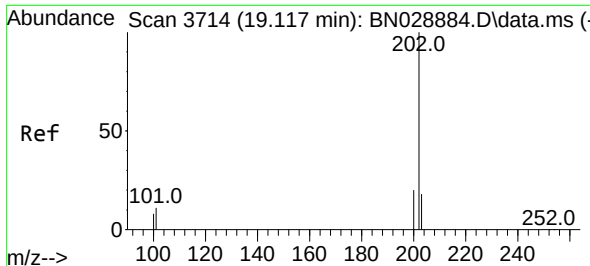


#16  
Anthracene  
Concen: 0.304 ng/ul  
RT: 17.178 min Scan# 3268  
Delta R.T. -0.026 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33



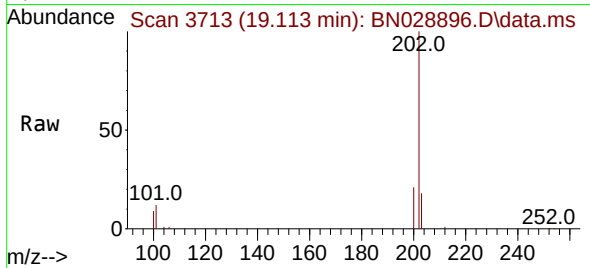
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Ion Ratio Lower Upper  
178 100  
179 18.8 12.6 18.8  
176 20.9 14.9 22.3





#19  
Fluoranthene  
Concen: 1.652 ng/u1  
RT: 19.113 min Scan# 3714  
Delta R.T. -0.010 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

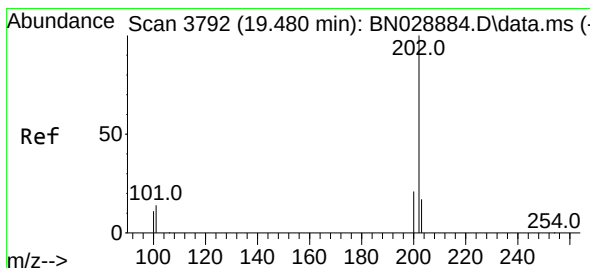
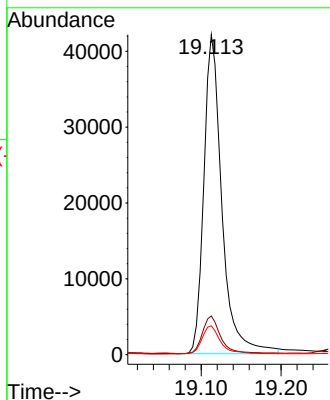
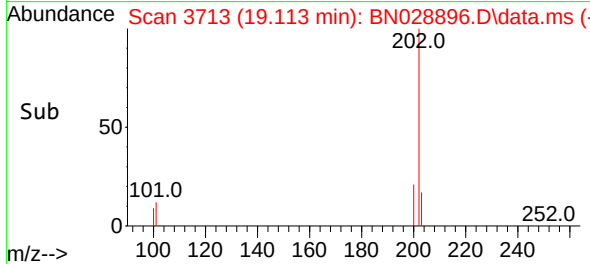
Instrument :  
BNA\_N  
ClientSampleId :  
C0AG6



Tgt Ion:202 Resp: 66220  
Ion Ratio Lower Upper  
202 100  
101 12.1 9.5 14.3  
100 9.0 7.2 10.8

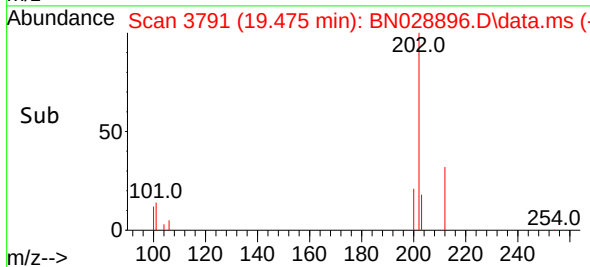
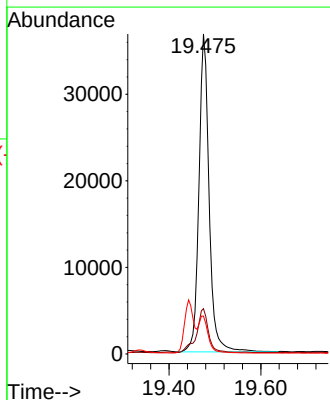
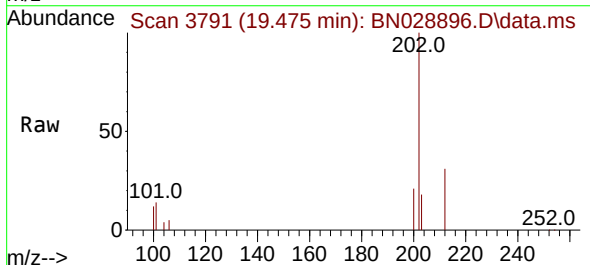
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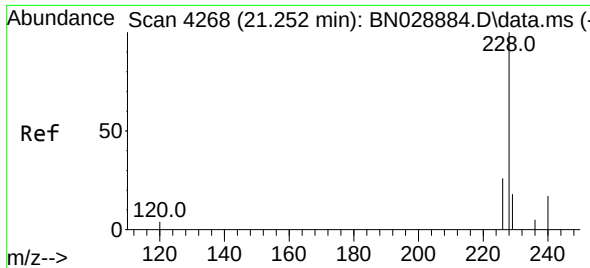
Reviewed By :Yogesh Patel 11/28/2023  
Supervised By :mohammad ahmed 11/28/2023



#20  
Pyrene  
Concen: 1.364 ng/u1  
RT: 19.475 min Scan# 3791  
Delta R.T. -0.010 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

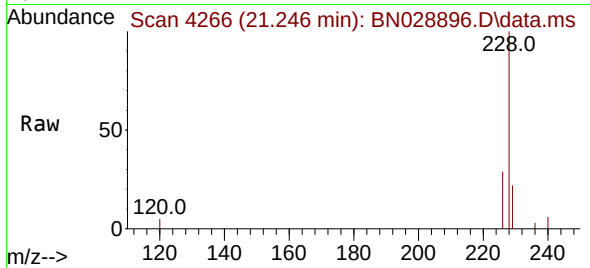
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Ion Ratio Lower Upper  
202 100  
101 14.2 10.3 15.5  
100 11.8 8.2 12.2





#21  
Benzo(a)anthracene  
Concen: 0.805 ng/u1  
RT: 21.246 min Scan# 4266  
Delta R.T. -0.010 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

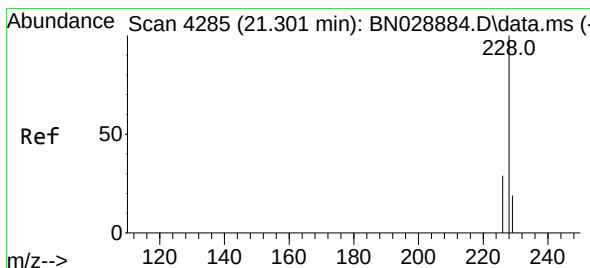
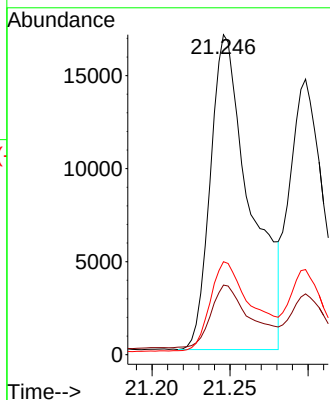
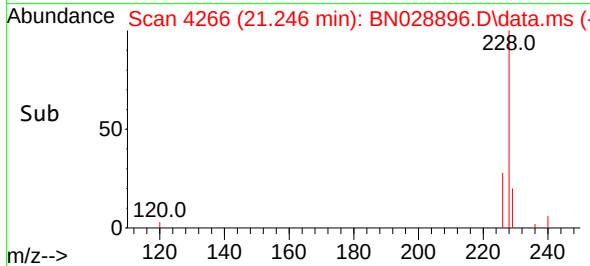
Instrument :  
BNA\_N  
ClientSampleId :  
C0AG6



Tgt Ion:228 Resp: 29990  
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229 21.8 15.7 23.5  
226 29.0 21.4 32.0

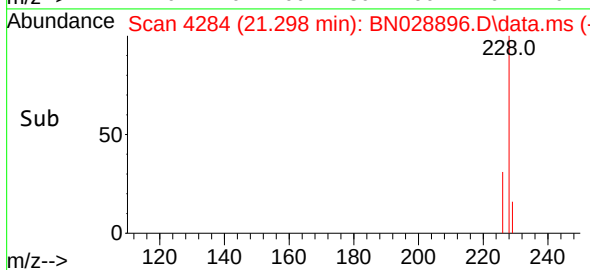
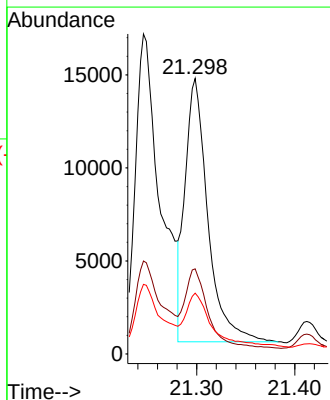
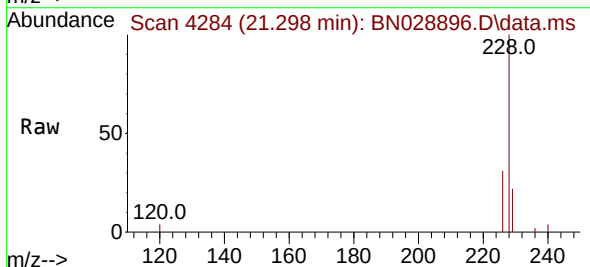
Manual Integrations  
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Supervised By :mohammad ahmed 11/28/2023

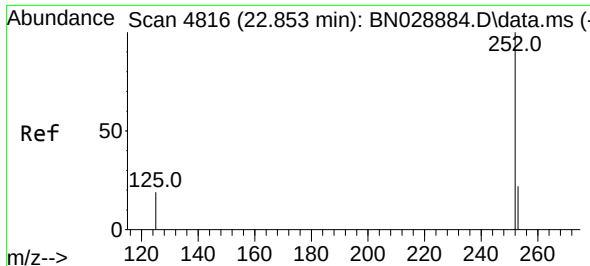


#22  
Chrysene  
Concen: 0.628 ng/u1  
RT: 21.298 min Scan# 4284  
Delta R.T. -0.007 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

Tgt Ion:228 Resp: 22880  
Ion Ratio Lower Upper  
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229 22.1 15.4 23.2

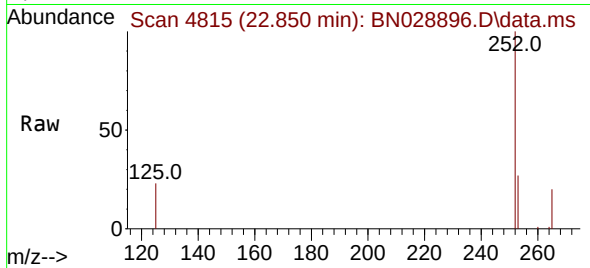






#24  
Benzo(b)fluoranthene  
Concen: 0.832 ng/ul m  
RT: 22.850 min Scan# 4816  
Delta R.T. -0.004 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

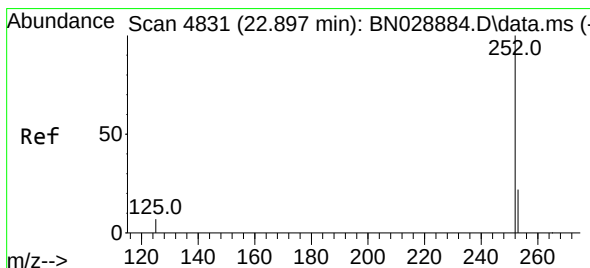
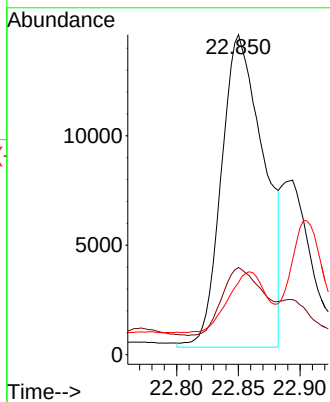
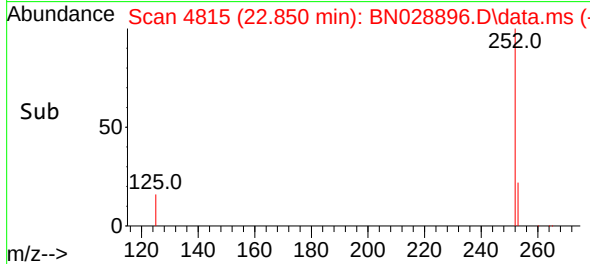
Instrument :  
BNA\_N  
ClientSampleId :  
C0AG6



Tgt Ion:252 Resp: 34058  
Ion Ratio Lower Upper  
252 100  
253 27.2 0.0 46.6  
125 22.5 0.0 27.6

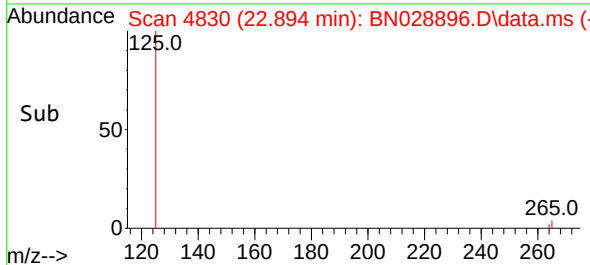
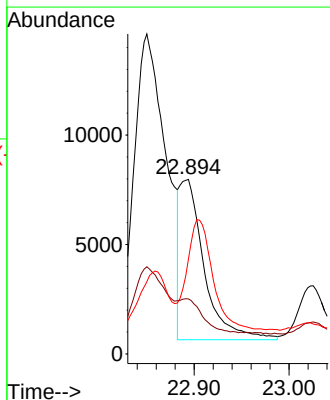
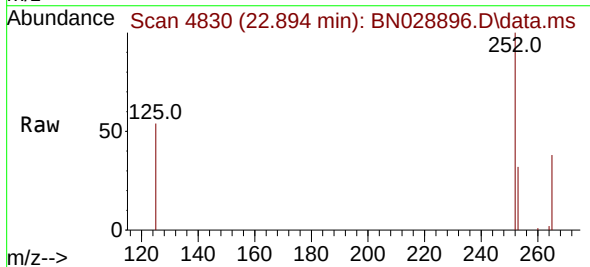
Manual Integrations  
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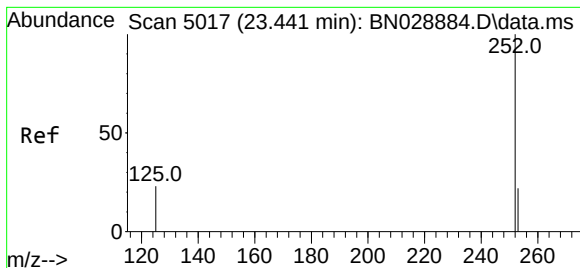
Reviewed By :Yogesh Patel 11/28/2023  
Supervised By :mohammad ahmed 11/28/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.306 ng/ul m  
RT: 22.894 min Scan# 4830  
Delta R.T. -0.010 min  
Lab File: BN028896.D  
Acq: 28 Nov 2023 01:33

Tgt Ion:252 Resp: 13102  
Ion Ratio Lower Upper  
252 100  
253 31.6 18.6 28.0#  
125 54.3 12.7 19.1#





#26

Benzo(a)pyrene

Concen: 0.581 ng/ul

RT: 23.429 min Scan# 5013

Delta R.T. -0.015 min

Lab File: BN028896.D

Acq: 28 Nov 2023 01:33

Instrument :

BNA\_N

ClientSampleId :

C0AG6

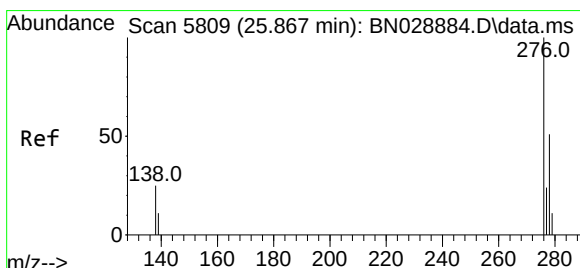
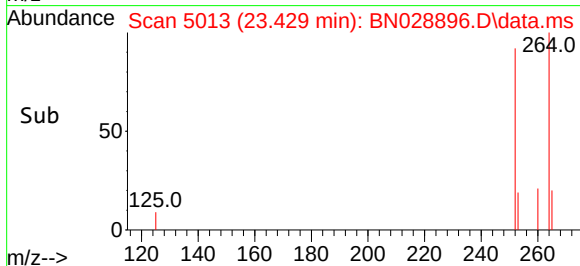
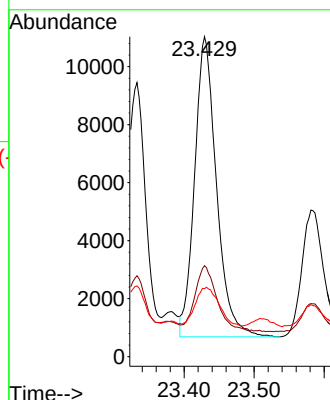
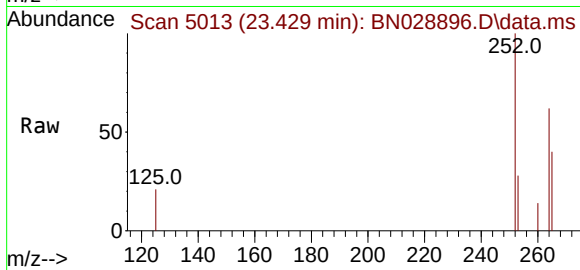
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 22464     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 28.5  | 19.0 28.6 |
| 125         | 21.3  | 13.2 19.8 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.351 ng/ul

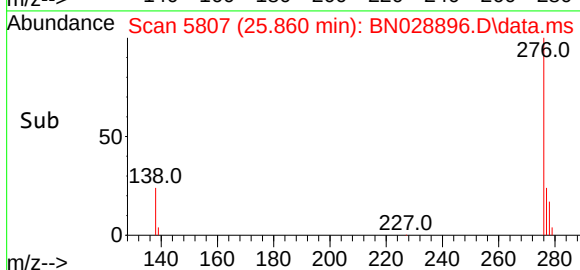
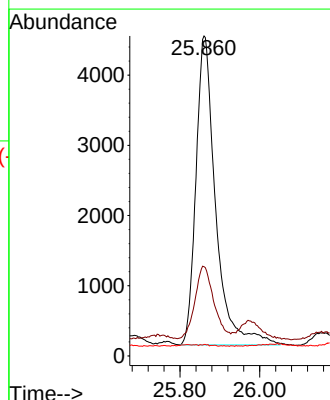
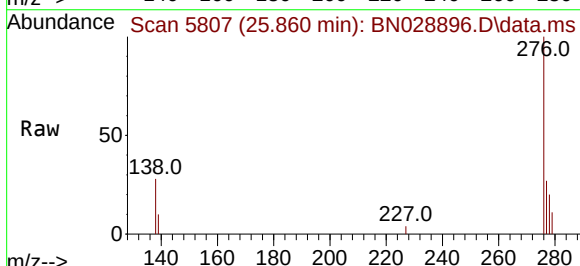
RT: 25.860 min Scan# 5807

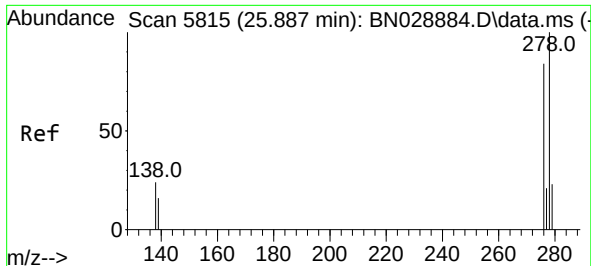
Delta R.T. -0.014 min

Lab File: BN028896.D

Acq: 28 Nov 2023 01:33

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:276 | Resp: | 15054      |
| Ion Ratio   | Lower | Upper      |
| 276         | 100   |            |
| 138         | 23.0  | 23.8 35.6# |
| 227         | 0.2   | 0.1 0.1#   |





#28

Dibenzo(a,h)anthracene

Concen: 0.102 ng/ul

RT: 25.873 min Scan# 5815

Delta R.T. -0.024 min

Lab File: BN028896.D

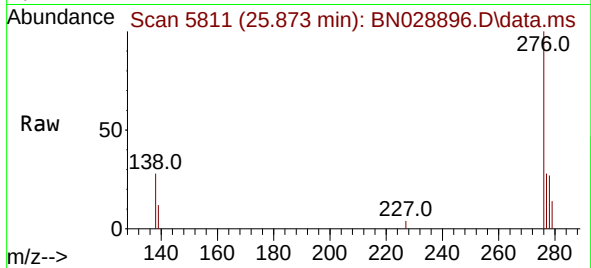
Acq: 28 Nov 2023 01:33

Instrument :

BNA\_N

ClientSampleId :

C0AG6



Tgt Ion:278 Resp: 3490

Ion Ratio Lower Upper

278 100

139 44.3 18.2 27.4

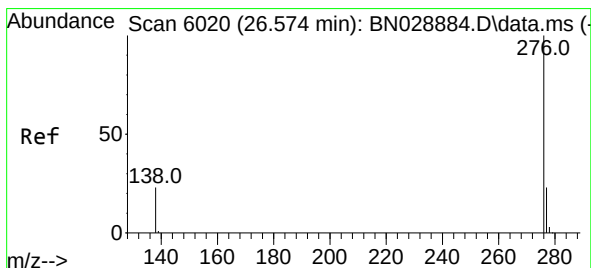
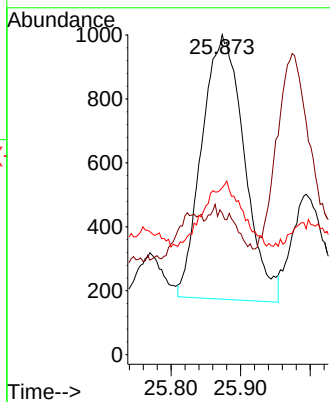
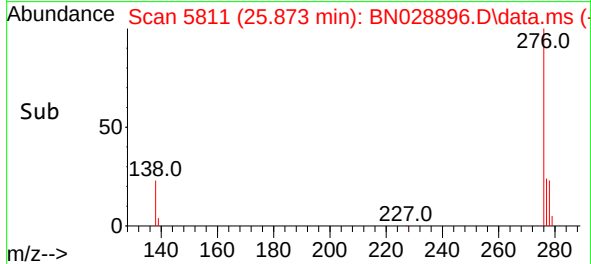
279 52.1 20.7 31.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023



#29

Benzo(g,h,i)perylene

Concen: 0.399 ng/ul

RT: 26.568 min Scan# 6018

Delta R.T. -0.011 min

Lab File: BN028896.D

Acq: 28 Nov 2023 01:33

Tgt Ion:276 Resp: 14041

Ion Ratio Lower Upper

276 100

138 29.4 20.5 30.7

277 26.7 19.4 29.0

