

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081523\  
 Data File : BN026909.D  
 Acq On : 15 Aug 2023 20:02  
 Operator : MA/JU  
 Sample : 03965-10  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A48J3

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023

Quant Time: Aug 16 00:55:06 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN080323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 16 00:50:05 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.110  | 152  | 16418    | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.938 | 136  | 53782    | 0.400  | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.735 | 164  | 32223    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.485 | 188  | 71593    | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.662 | 240  | 59711    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 24.216 | 264  | 55685    | 0.400  | ng/ul  | # 0.00   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.439  | 96   | 52008    | 2.668  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.511 | 152  | 16749    | 0.212  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.501 | 212  | 43818    | 0.232  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.988 | 128  | 60488    | 0.398  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.583 | 142  | 42662    | 0.463  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.803 | 142  | 34940    | 0.363  | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.467 | 152  | 110999   | 0.615  | ng/ul  | 100      |
| 11) Acenaphthene            | 14.800 | 153  | 40431    | 0.324  | ng/ul  | 99       |
| 12) Fluorene                | 15.786 | 166  | 50820    | 0.360  | ng/ul  | 100      |
| 15) Phenanthrene            | 17.527 | 178  | 1068446  | 4.543  | ng/ul  | 100      |
| 16) Anthracene              | 17.620 | 178  | 239354   | 1.126  | ng/ul  | 98       |
| 19) Fluoranthene            | 19.534 | 202  | 2505053  | 10.100 | ng/ul  | 99       |
| 20) Pyrene                  | 19.901 | 202  | 2259143m | 8.536  | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.644 | 228  | 1250967  | 5.268  | ng/ul  | 97       |
| 22) Chrysene                | 21.699 | 228  | 1399480  | 5.970  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.427 | 252  | 1668101m | 7.920  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.471 | 252  | 528803m  | 2.545  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 24.105 | 252  | 1069620  | 5.628  | ng/ul  | 98       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.918 | 276  | 712060   | 2.864  | ng/ul# | 90       |
| 28) Dibenzo(a,h)anthracene  | 26.934 | 278  | 180368   | 0.910  | ng/ul# | 86       |
| 29) Benzo(g,h,i)perylene    | 27.766 | 276  | 613564   | 2.964  | ng/ul  | 100      |
| -----                       |        |      |          |        |        |          |

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

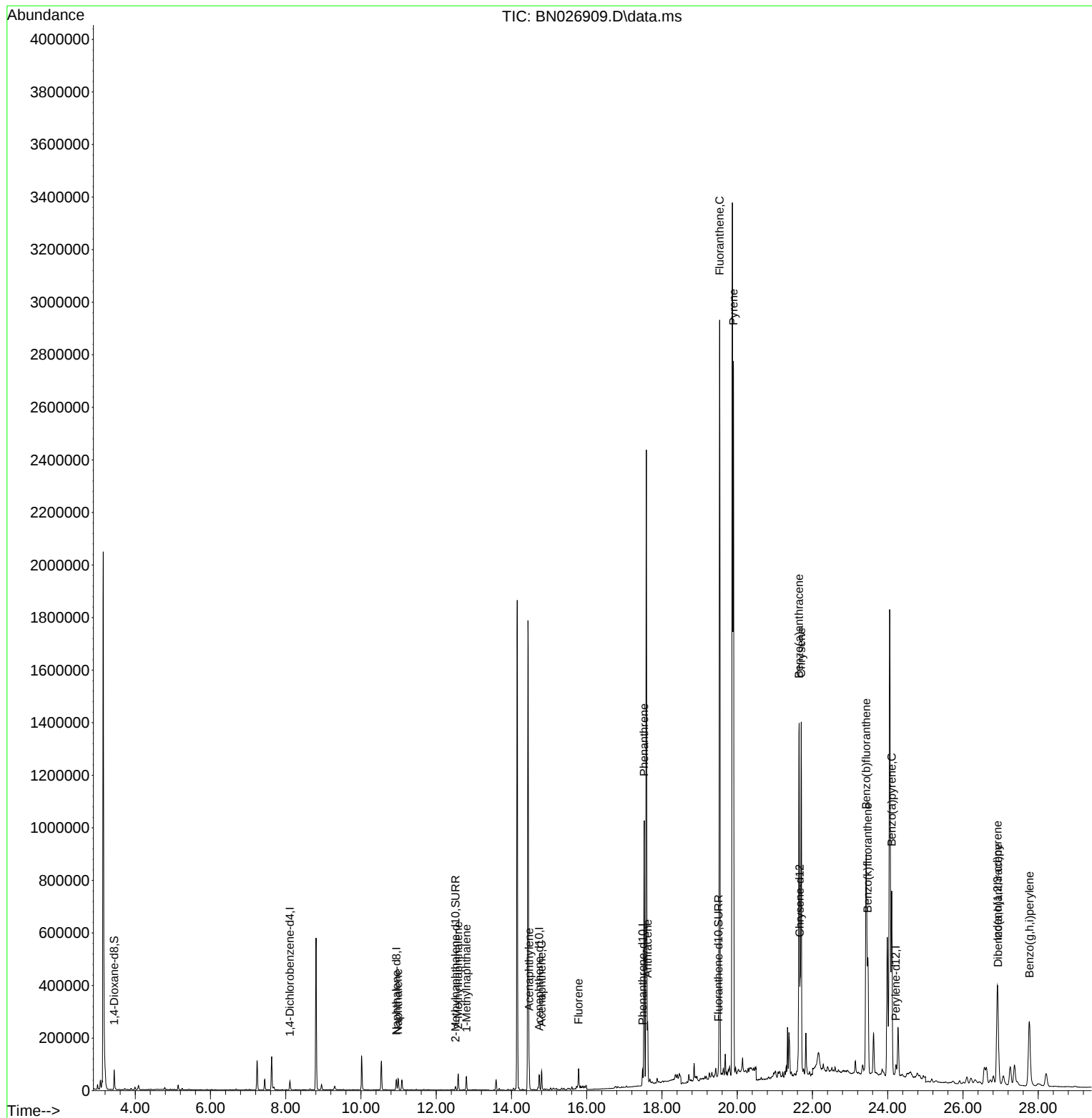
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081523\  
Data File : BN026909.D  
Acq On : 15 Aug 2023 20:02  
Operator : MA/JU  
Sample : 03965-10  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

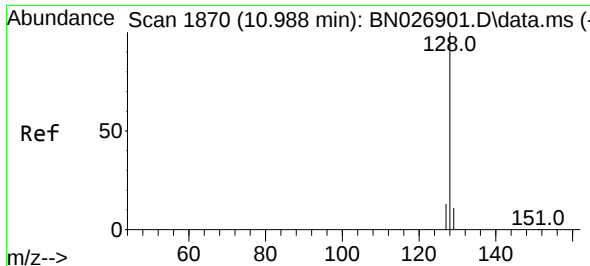
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

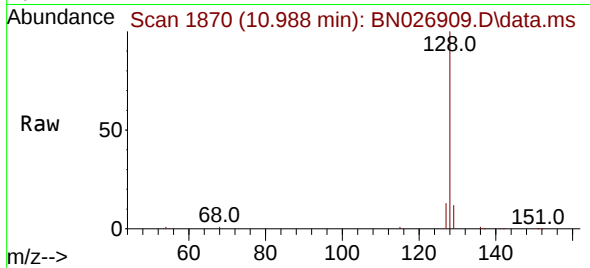
Quant Time: Aug 16 00:55:06 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN080323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 16 00:50:05 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.398 ng/ul  
RT: 10.988 min Scan# 1870  
Delta R.T. 0.006 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

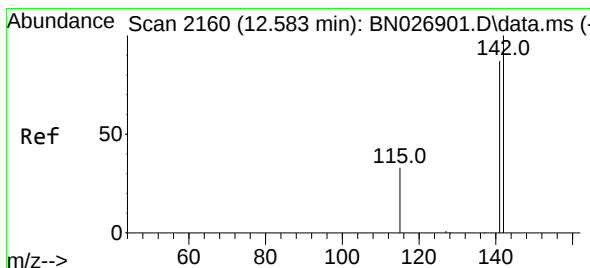
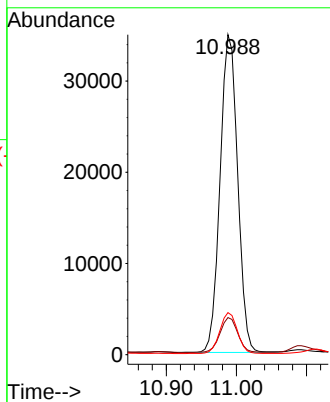
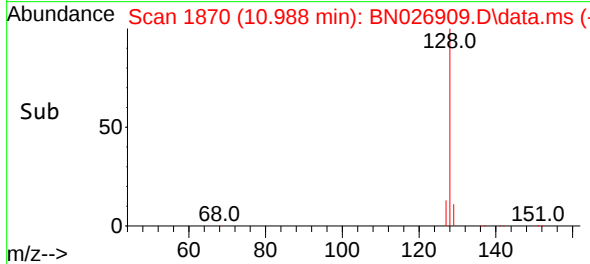
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



Tgt Ion:128 Resp: 6048  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.2 13.8  
127 13.1 10.5 15.7

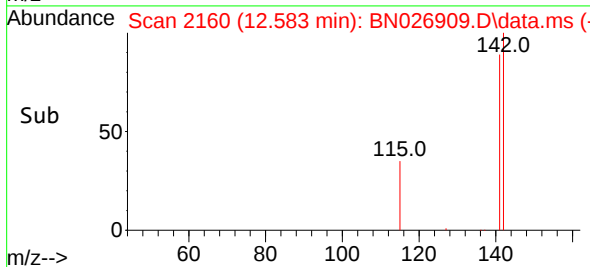
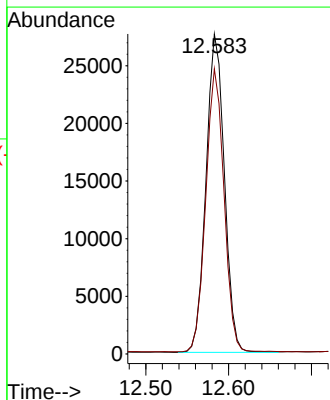
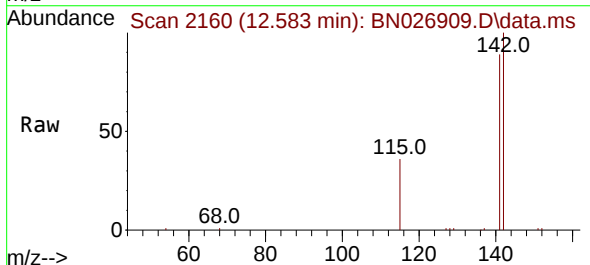
Manual Integrations  
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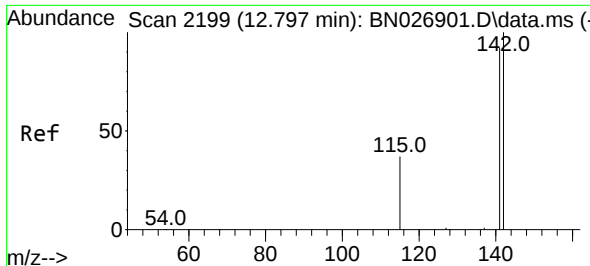
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#7  
2-Methylnaphthalene  
Concen: 0.463 ng/ul  
RT: 12.583 min Scan# 2160  
Delta R.T. 0.000 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

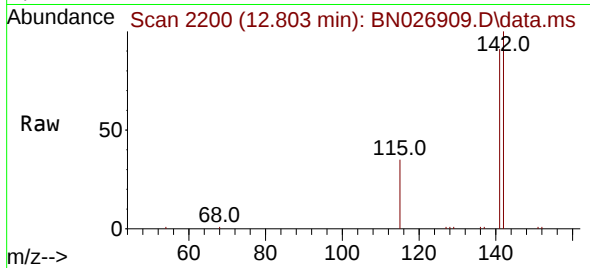
Tgt Ion:142 Resp: 42662  
Ion Ratio Lower Upper  
142 100  
141 88.0 70.9 106.3





#8  
1-Methylnaphthalene  
Concen: 0.363 ng/ul  
RT: 12.803 min Scan# 2199  
Delta R.T. 0.006 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

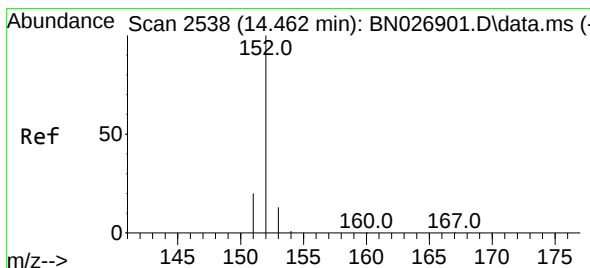
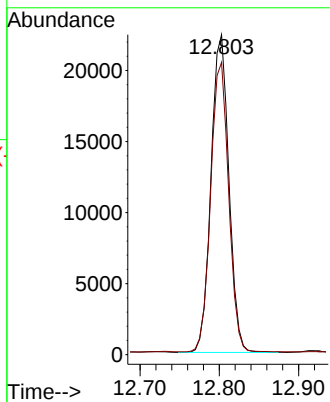
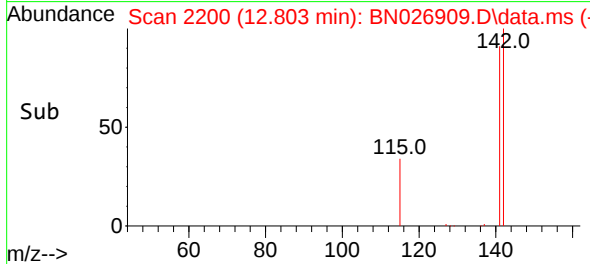
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



Tgt Ion:142 Resp: 34940  
Ion Ratio Lower Upper  
142 100  
141 91.6 73.2 109.8

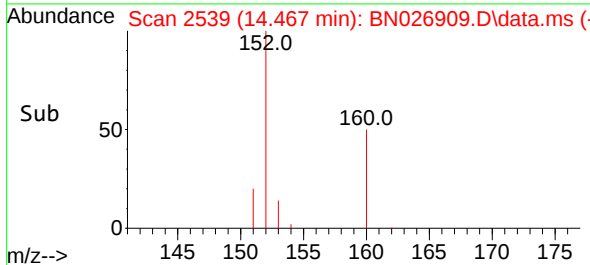
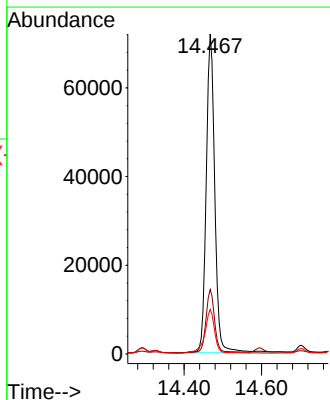
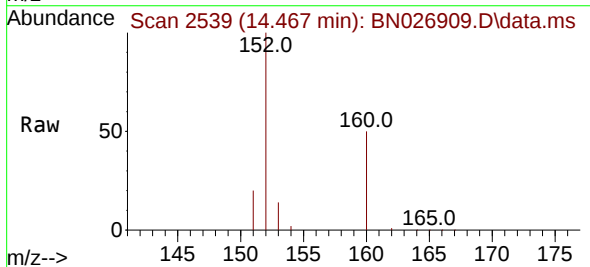
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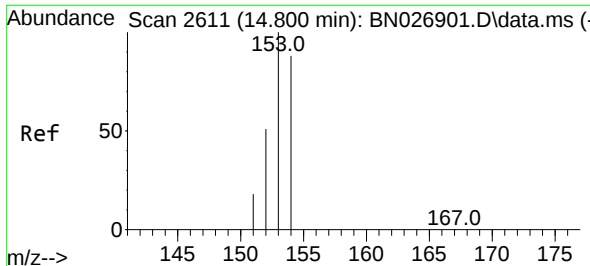
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#10  
Acenaphthylene  
Concen: 0.615 ng/ul  
RT: 14.467 min Scan# 2539  
Delta R.T. 0.005 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

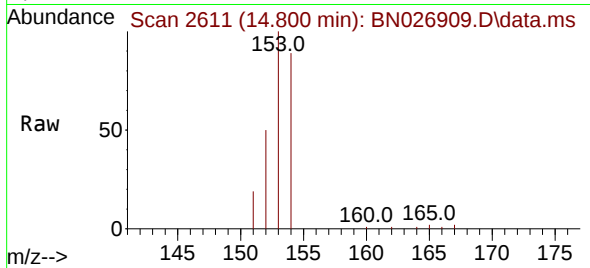
Tgt Ion:152 Resp: 110999  
Ion Ratio Lower Upper  
152 100  
151 20.1 15.9 23.9  
153 13.9 11.0 16.6





#11  
Acenaphthene  
Concen: 0.324 ng/ul  
RT: 14.800 min Scan# 2611  
Delta R.T. 0.000 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

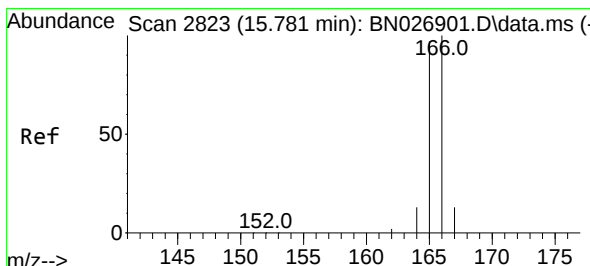
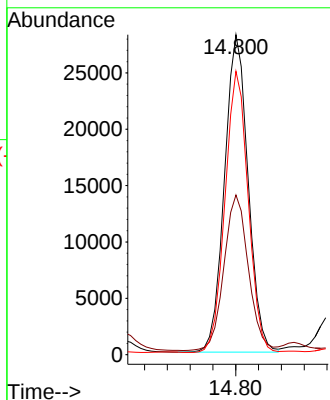
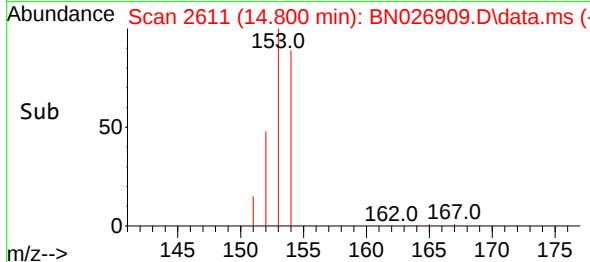
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



Tgt Ion:153 Resp: 4043  
Ion Ratio Lower Upper  
153 100  
152 49.9 41.1 61.7  
154 88.6 71.6 107.4

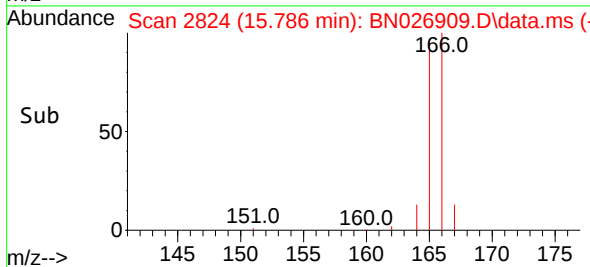
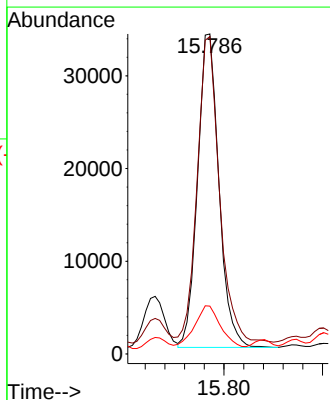
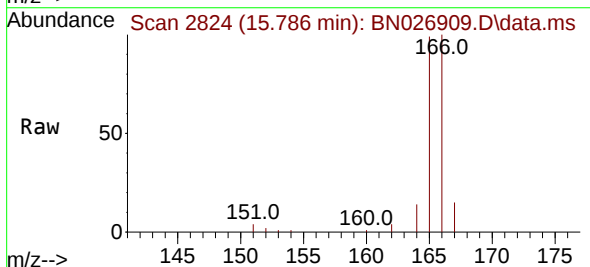
Manual Integrations  
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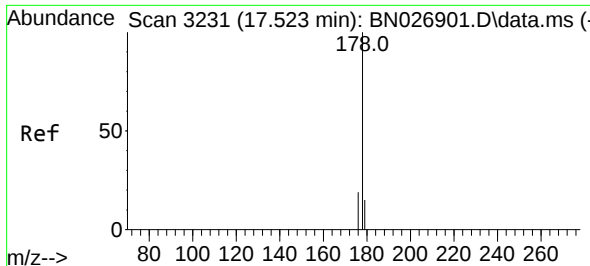
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#12  
Fluorene  
Concen: 0.360 ng/ul  
RT: 15.786 min Scan# 2824  
Delta R.T. 0.005 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

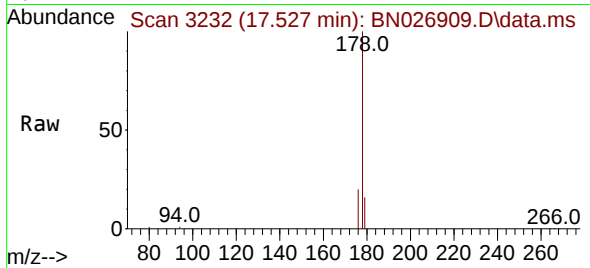
Tgt Ion:166 Resp: 50820  
Ion Ratio Lower Upper  
166 100  
165 99.2 79.1 118.7  
167 14.9 11.4 17.0





#15  
Phenanthrene  
Concen: 4.543 ng/ul  
RT: 17.527 min Scan# 31  
Delta R.T. 0.004 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

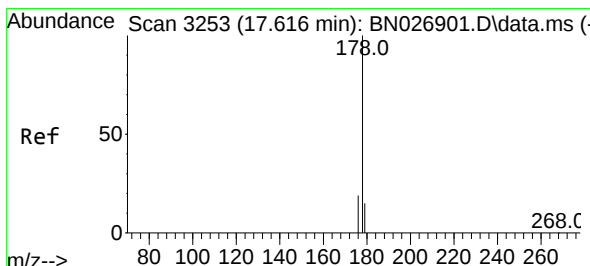
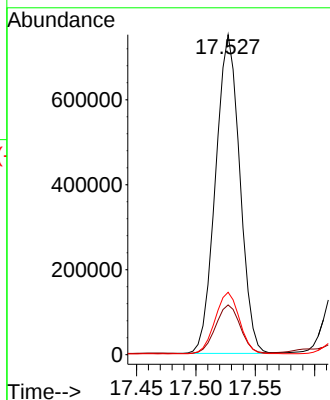
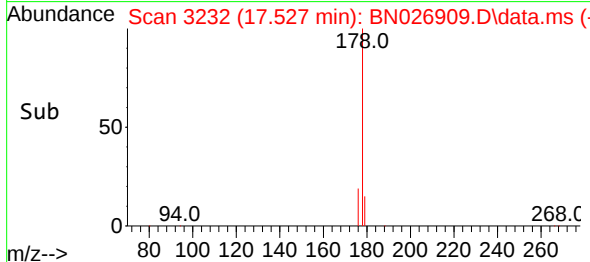
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



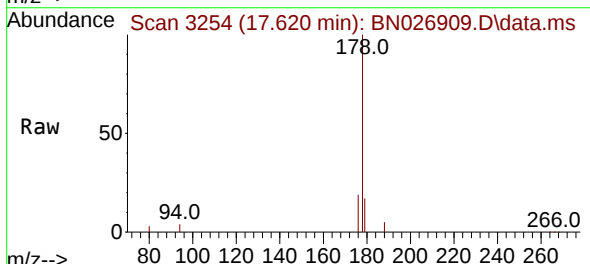
Tgt Ion:178 Resp: 1068440  
Ion Ratio Lower Upper  
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179 15.6 12.6 18.8  
176 19.5 15.4 23.2

Manual Integrations  
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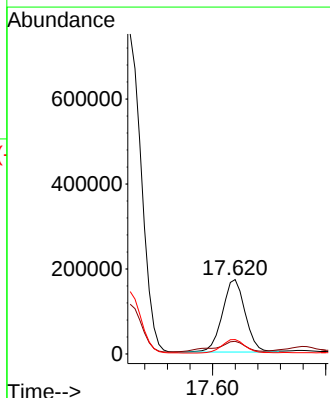
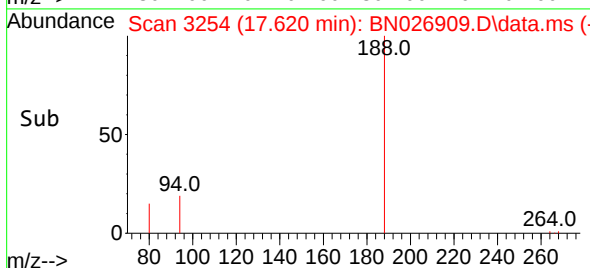
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

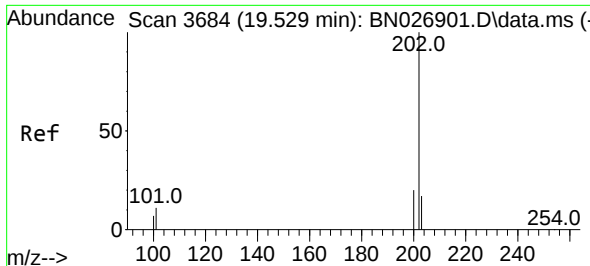


#16  
Anthracene  
Concen: 1.126 ng/ul  
RT: 17.620 min Scan# 3254  
Delta R.T. 0.004 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02



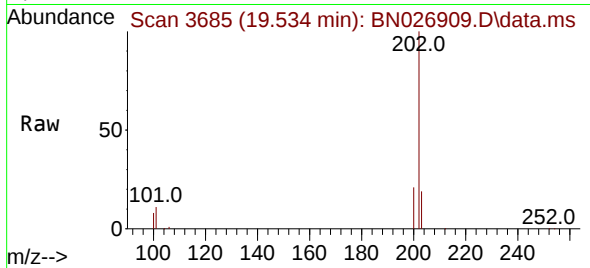
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Ion Ratio Lower Upper  
178 100  
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176 19.4 15.0 22.6





#19  
Fluoranthene  
Concen: 10.100 ng/ul  
RT: 19.534 min Scan# 3685  
Delta R.T. 0.004 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

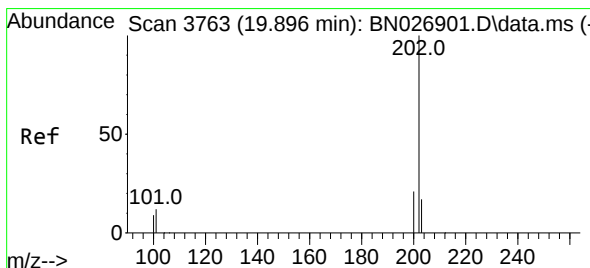
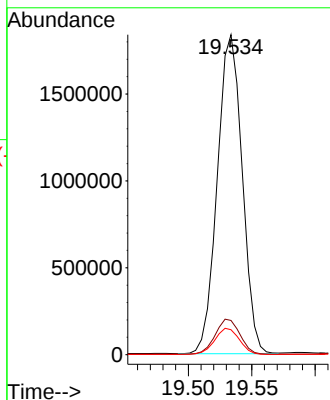
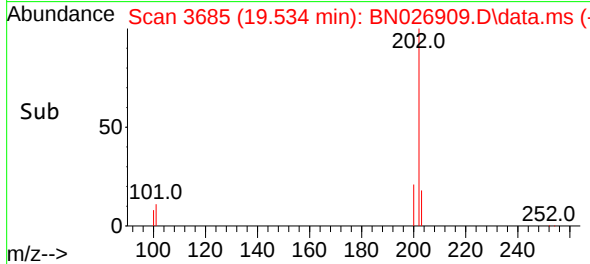
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



Tgt Ion:202 Resp: 250505  
Ion Ratio Lower Upper  
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100 7.8 6.2 9.2

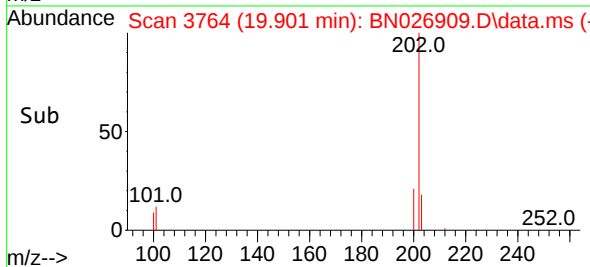
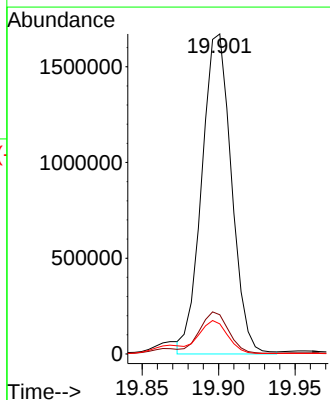
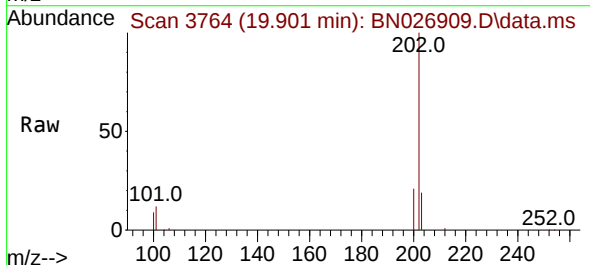
Manual Integrations  
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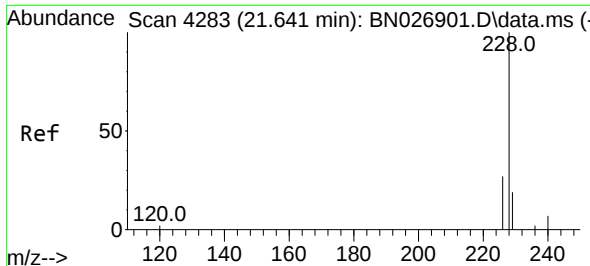
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#20  
Pyrene  
Concen: 8.536 ng/ul m  
RT: 19.901 min Scan# 3764  
Delta R.T. 0.005 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

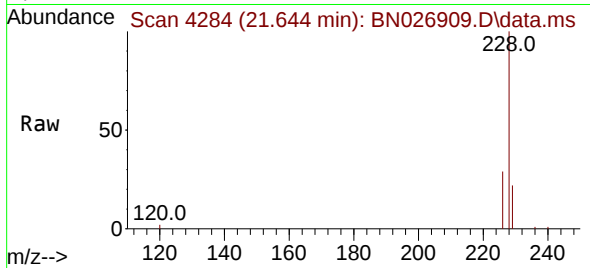
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Ion Ratio Lower Upper  
202 100  
101 12.2 10.7 16.1  
100 9.4 8.5 12.7





#21  
Benzo(a)anthracene  
Concen: 5.268 ng/u1  
RT: 21.644 min Scan# 4283  
Delta R.T. 0.003 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

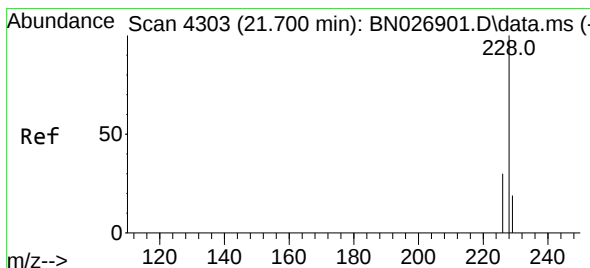
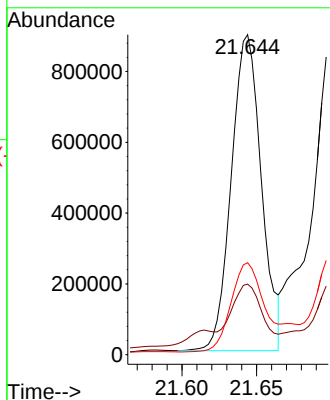
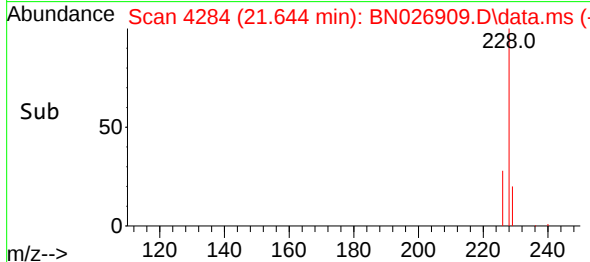
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



Tgt Ion:228 Resp: 125096  
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229 22.0 16.0 24.0  
226 28.8 22.2 33.2

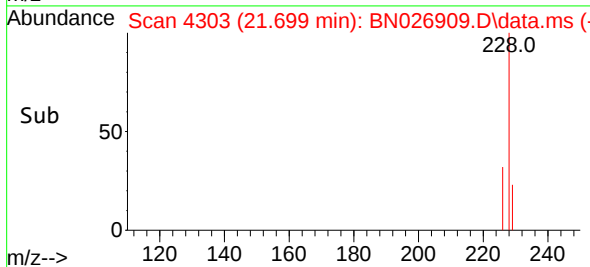
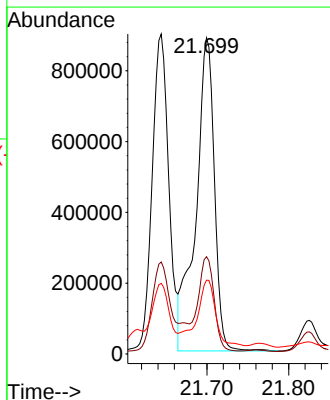
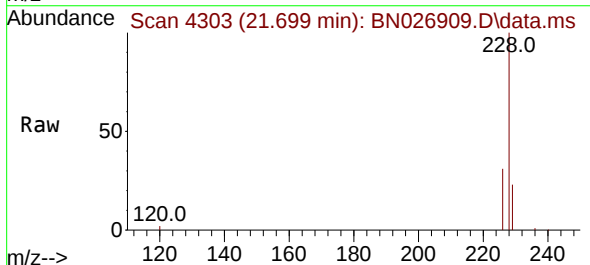
Manual Integrations  
APPROVED

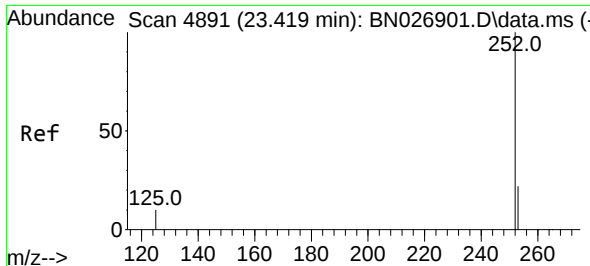
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#22  
Chrysene  
Concen: 5.970 ng/u1  
RT: 21.699 min Scan# 4303  
Delta R.T. -0.000 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

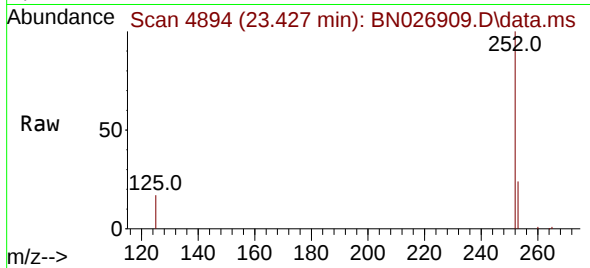
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Ion Ratio Lower Upper  
228 100  
226 30.8 24.6 36.8  
229 23.4 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 7.920 ng/ul m  
RT: 23.427 min Scan# 4894  
Delta R.T. 0.006 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

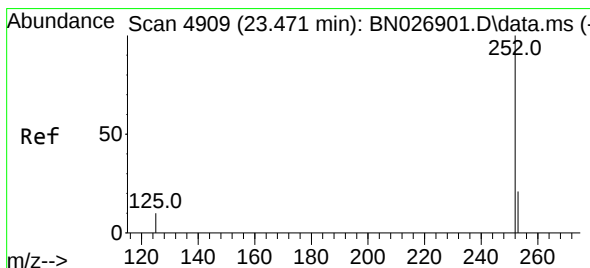
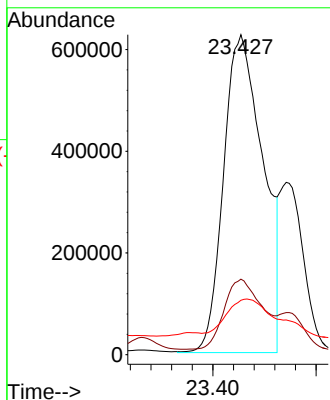
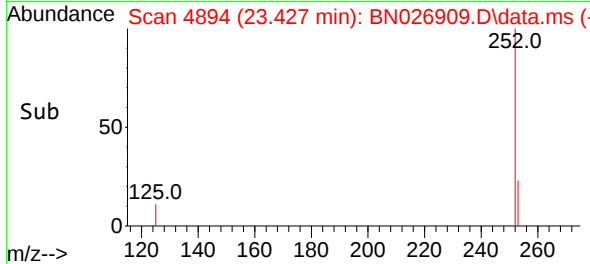
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



Tgt Ion:252 Resp: 166810  
Ion Ratio Lower Upper  
252 100  
253 23.6 0.0 46.8  
125 17.0 0.0 25.2

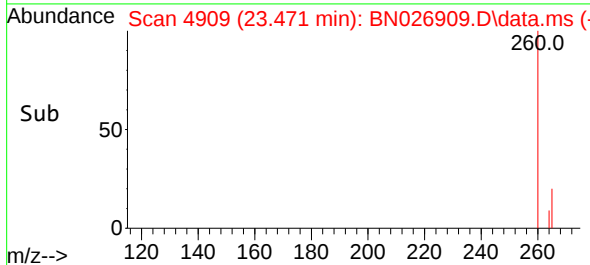
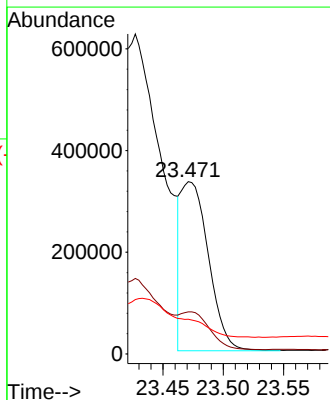
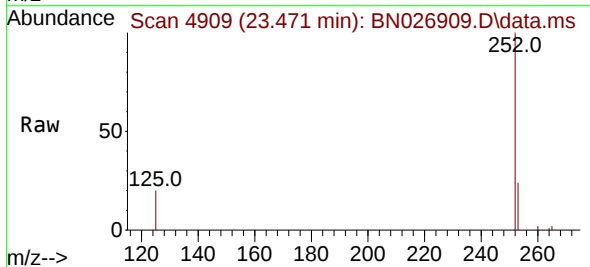
Manual Integrations  
APPROVED

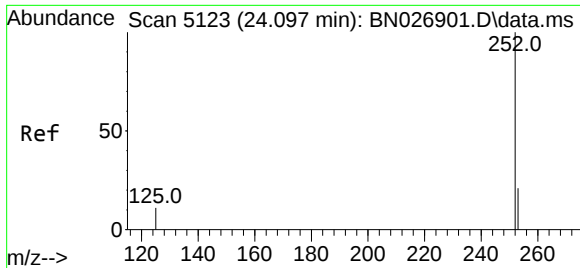
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#25  
Benzo(k)fluoranthene  
Concen: 2.545 ng/ul m  
RT: 23.471 min Scan# 4909  
Delta R.T. -0.003 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

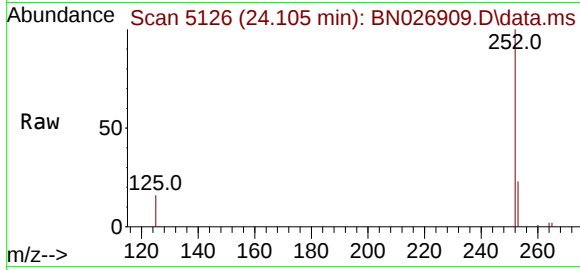
Tgt Ion:252 Resp: 528803  
Ion Ratio Lower Upper  
252 100  
253 24.4 18.2 27.4  
125 20.2 9.9 14.9#





#26  
Benzo(a)pyrene  
Concen: 5.628 ng/ul  
RT: 24.105 min Scan# 5123  
Delta R.T. 0.006 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

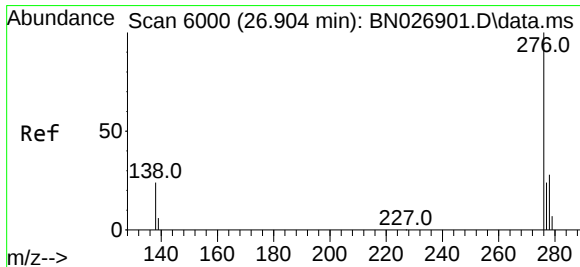
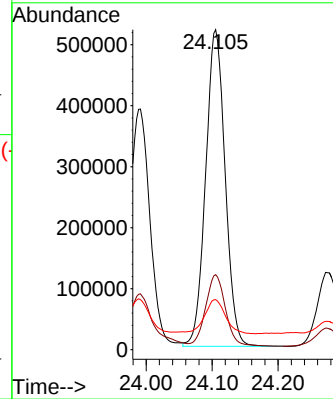
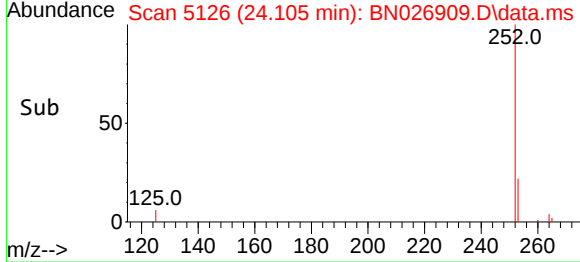
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



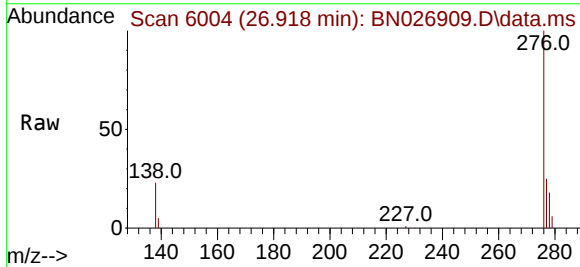
Tgt Ion:252 Resp: 1069620  
Ion Ratio Lower Upper  
252 100  
253 23.5 19.0 28.6  
125 15.7 11.4 17.0

Manual Integrations  
APPROVED

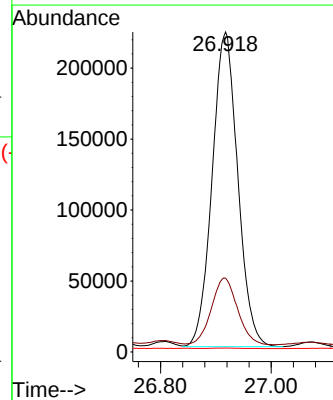
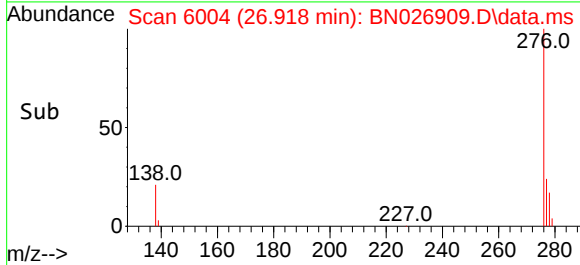
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

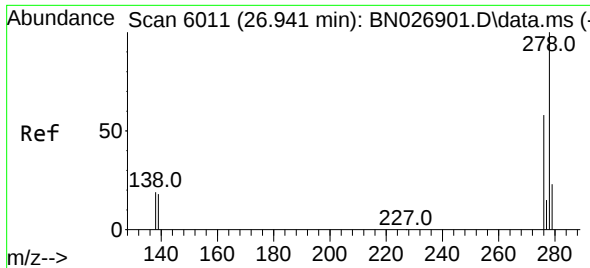


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.864 ng/ul  
RT: 26.918 min Scan# 6004  
Delta R.T. 0.010 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02



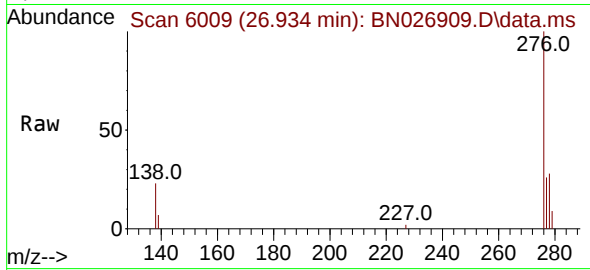
Tgt Ion:276 Resp: 712060  
Ion Ratio Lower Upper  
276 100  
138 21.7 21.6 32.4  
227 0.2 0.0 0.0





#28  
Dibenzo(a,h)anthracene  
Concen: 0.910 ng/ul  
RT: 26.934 min Scan# 6011  
Delta R.T. -0.004 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

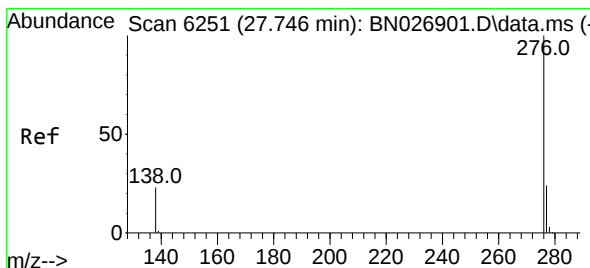
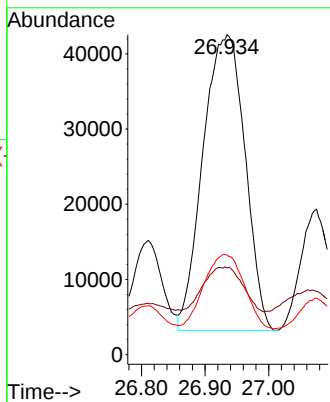
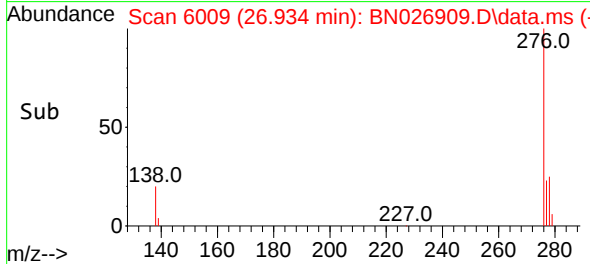
Instrument :  
BNA\_N  
ClientSampleId :  
A48J3



Tgt Ion:278 Resp: 18036  
Ion Ratio Lower Upper  
278 100  
139 27.1 15.7 23.5  
279 31.1 20.2 30.4

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#29  
Benzo(g,h,i)perylene  
Concen: 2.964 ng/ul  
RT: 27.766 min Scan# 6257  
Delta R.T. 0.020 min  
Lab File: BN026909.D  
Acq: 15 Aug 2023 20:02

Tgt Ion:276 Resp: 613564  
Ion Ratio Lower Upper  
276 100  
138 24.0 19.3 28.9  
277 24.7 19.8 29.8

