

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082123\  
 Data File : BN027009.D  
 Acq On : 22 Aug 2023 01:50  
 Operator : MA/JU  
 Sample : 03967-21  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A48M9

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/22/2023  
 Supervised By :mohammad ahmed 08/22/2023

Quant Time: Aug 22 02:44:29 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 : Fri Aug 18 13:11:26 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.097  | 152  | 7468     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.927 | 136  | 25097    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.726 | 164  | 14722    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.472 | 188  | 33061    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.641 | 240  | 26792    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.182 | 264  | 27436    | 0.400 | ng/ul  | #-0.01   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.439  | 96   | 32768    | 3.696 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.500 | 152  | 6753     | 0.183 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.487 | 212  | 16776    | 0.198 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.977 | 128  | 2602     | 0.037 | ng/ul# | 88       |
| 10) Acenaphthylene          | 14.453 | 152  | 3211     | 0.039 | ng/ul# | 92       |
| 11) Acenaphthene            | 14.791 | 153  | 1679     | 0.029 | ng/ul  | 98       |
| 12) Fluorene                | 15.772 | 166  | 1647     | 0.026 | ng/ul# | 96       |
| 15) Phenanthrene            | 17.515 | 178  | 31750    | 0.292 | ng/ul  | 100      |
| 16) Anthracene              | 17.603 | 178  | 6405     | 0.065 | ng/ul  | 95       |
| 19) Fluoranthene            | 19.515 | 202  | 74977    | 0.674 | ng/ul  | 97       |
| 20) Pyrene                  | 19.882 | 202  | 66784m   | 0.562 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.624 | 228  | 34907    | 0.328 | ng/ul  | 98       |
| 22) Chrysene                | 21.679 | 228  | 37238m   | 0.354 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 23.395 | 252  | 45844m   | 0.442 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.442 | 252  | 16127m   | 0.158 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 24.068 | 252  | 31960    | 0.341 | ng/ul# | 92       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.864 | 276  | 18341    | 0.150 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 26.878 | 278  | 4379     | 0.045 | ng/ul# | 55       |
| 29) Benzo(g,h,i)perylene    | 27.699 | 276  | 17645    | 0.173 | ng/ul  | 95       |
| -----                       |        |      |          |       |        |          |

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

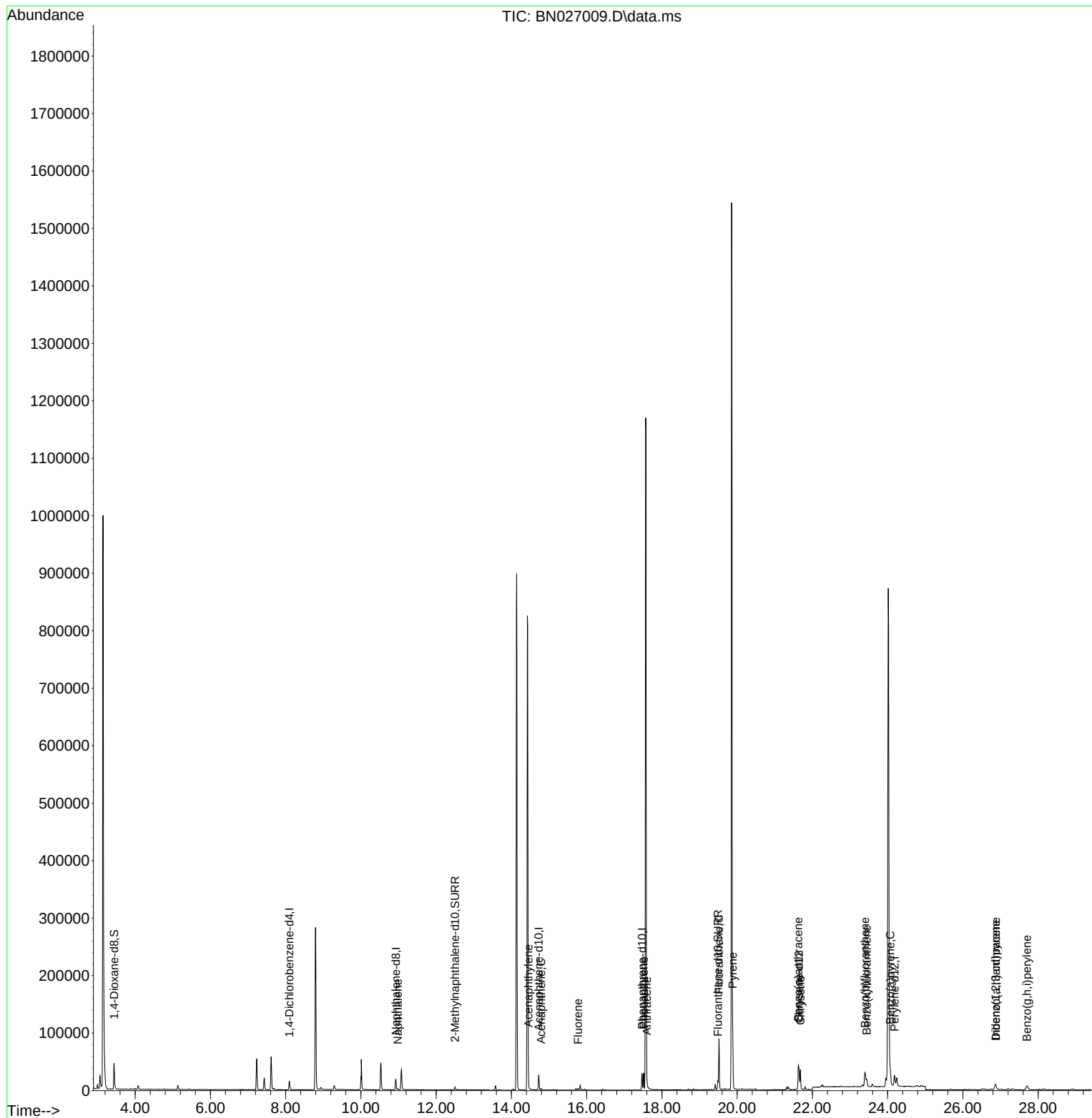
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082123\  
Data File : BN027009.D  
Acq On : 22 Aug 2023 01:50  
Operator : MA/JU  
Sample : 03967-21  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

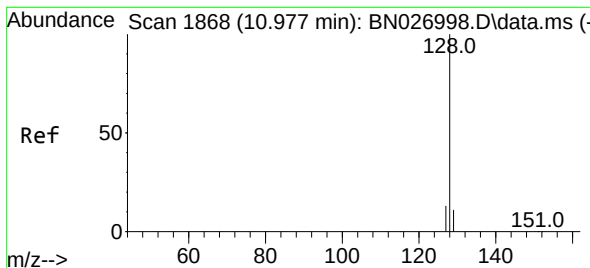
Instrument :  
BNA\_N  
ClientSampleId :  
A48M9

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023

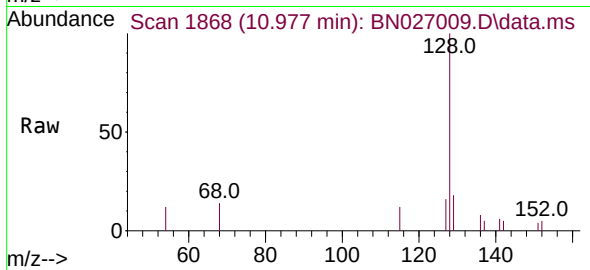
Quant Time: Aug 22 02:44:29 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN080323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 18 13:11:26 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.037 ng/ul  
RT: 10.977 min Scan# 1868  
Delta R.T. -0.005 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

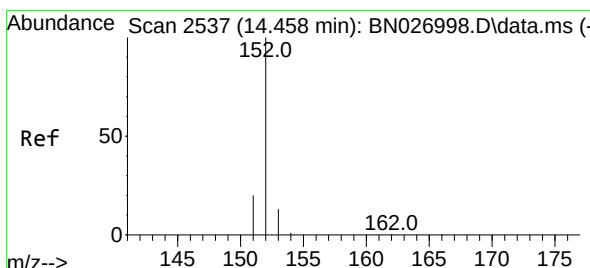
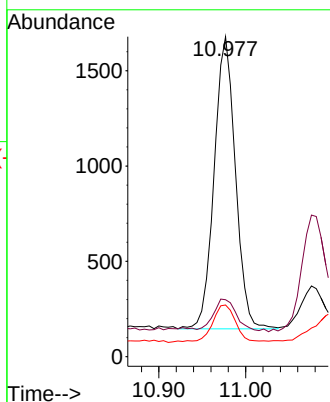
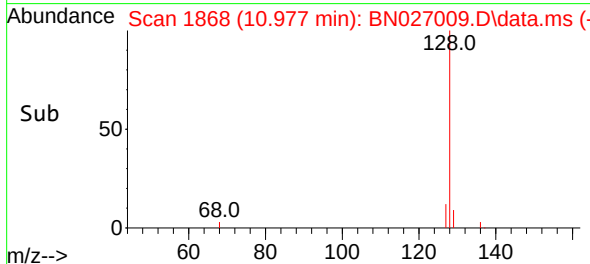
Instrument :  
BNA\_N  
ClientSampleId :  
A48M9



Tgt Ion:128 Resp: 2602  
Ion Ratio Lower Upper  
128 100  
129 17.8 9.2 13.8  
127 16.1 10.5 15.7

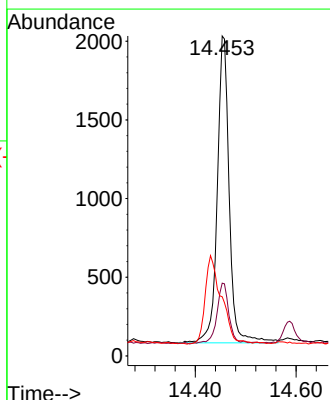
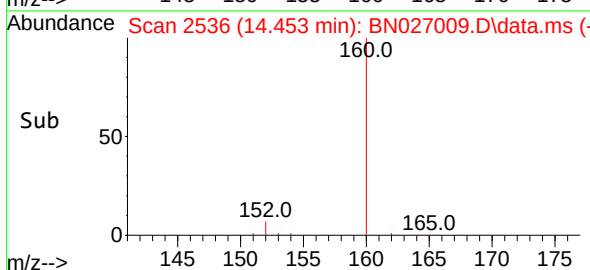
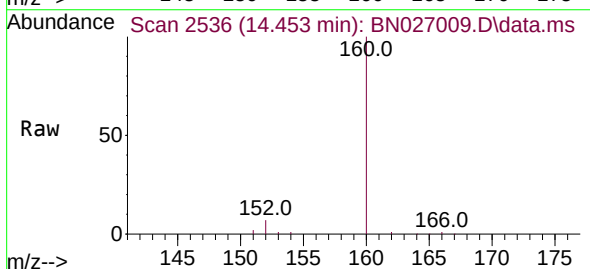
Manual Integrations  
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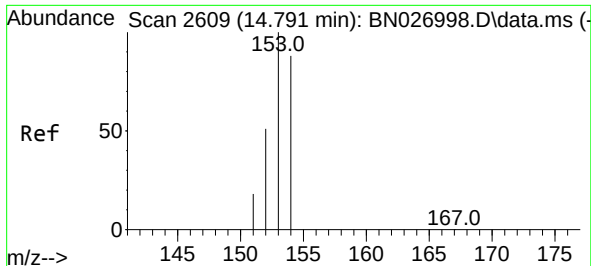
Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023



#10  
Acenaphthylene  
Concen: 0.039 ng/ul  
RT: 14.453 min Scan# 2536  
Delta R.T. -0.005 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

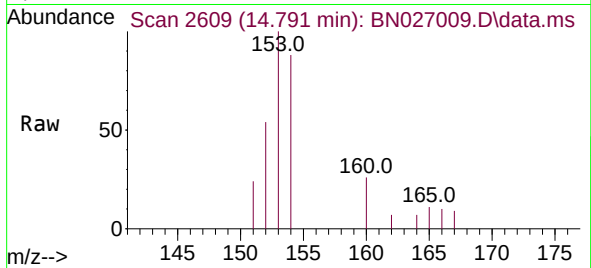
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Ion Ratio Lower Upper  
152 100  
151 22.7 15.9 23.9  
153 18.5 11.0 16.6





#11  
Acenaphthene  
Concen: 0.029 ng/ul  
RT: 14.791 min Scan# 2609  
Delta R.T. 0.000 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

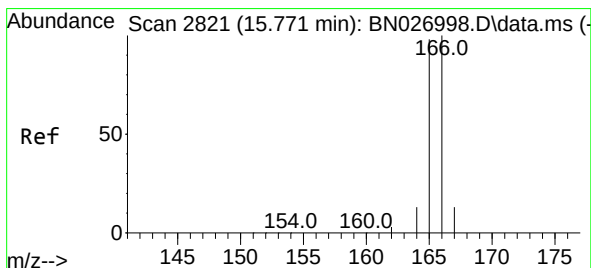
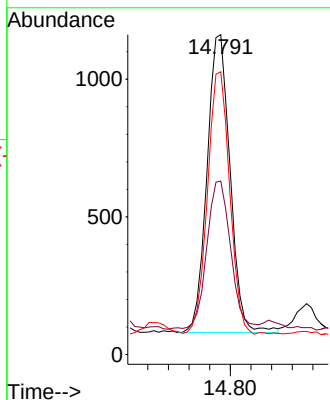
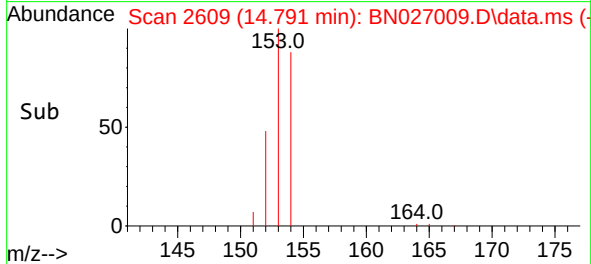
Instrument :  
BNA\_N  
ClientSampleId :  
A48M9



Tgt Ion:153 Resp: 1679  
Ion Ratio Lower Upper  
153 100  
152 54.2 41.1 61.7  
154 88.4 71.6 107.4

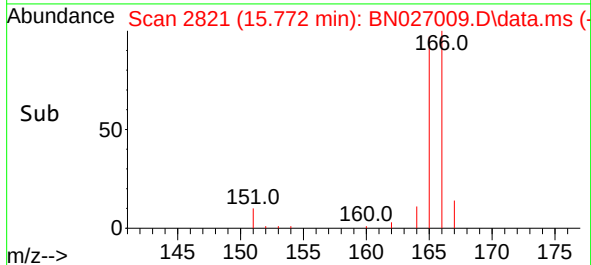
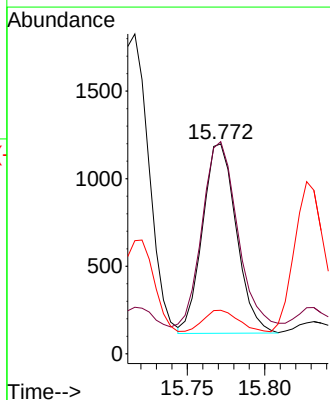
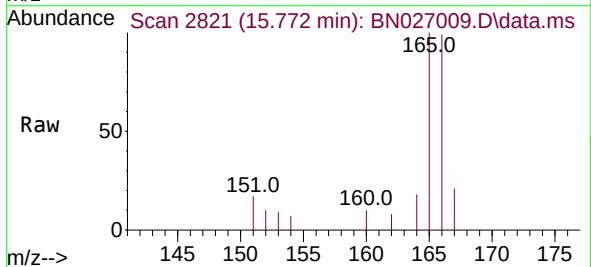
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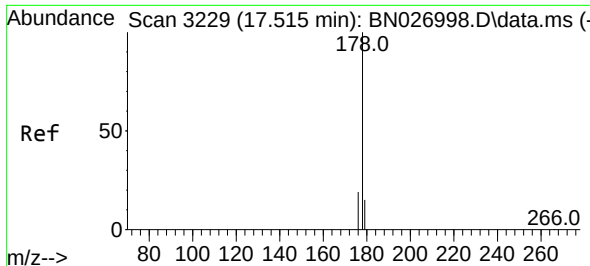
Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023



#12  
Fluorene  
Concen: 0.026 ng/ul  
RT: 15.772 min Scan# 2821  
Delta R.T. 0.000 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

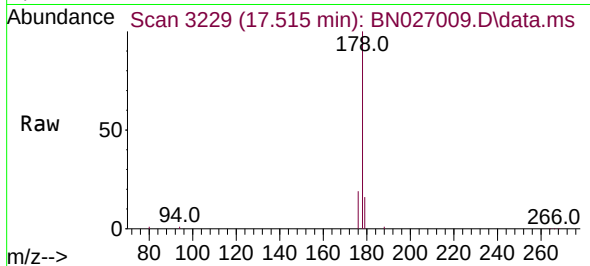
Tgt Ion:166 Resp: 1647  
Ion Ratio Lower Upper  
166 100  
165 101.1 79.1 118.7  
167 20.8 11.4 17.0#





#15  
Phenanthrene  
Concen: 0.292 ng/ul  
RT: 17.515 min Scan# 31750  
Delta R.T. -0.004 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

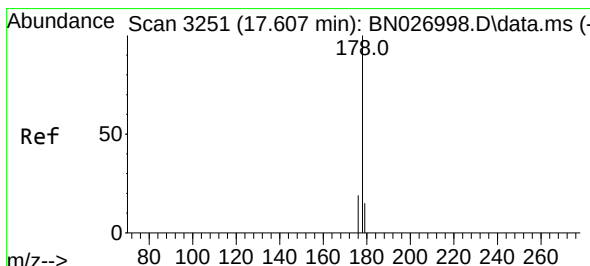
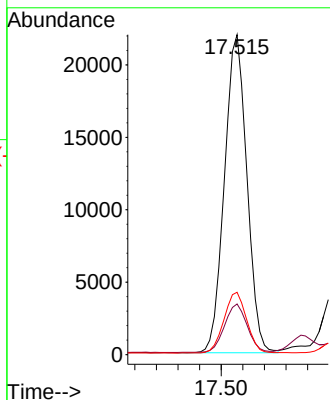
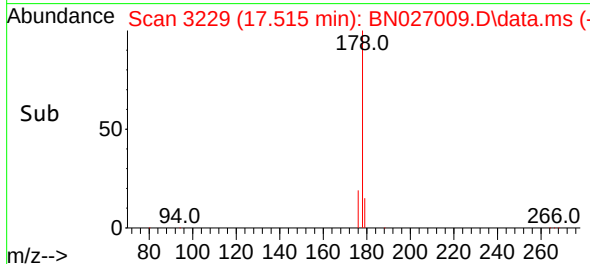
Instrument :  
BNA\_N  
ClientSampleId :  
A48M9



Tgt Ion:178 Resp: 31750  
Ion Ratio Lower Upper  
178 100  
179 15.8 12.6 18.8  
176 19.5 15.4 23.2

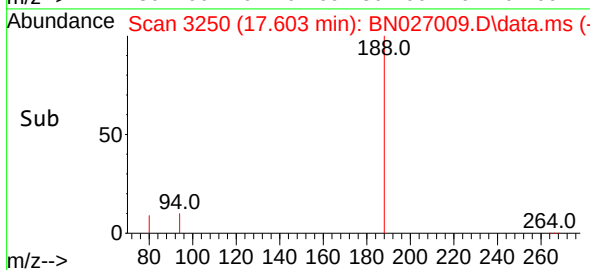
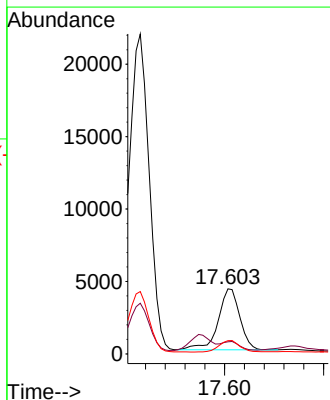
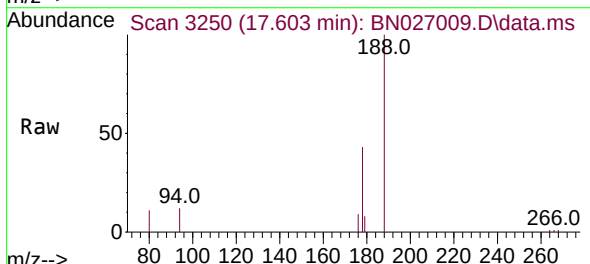
Manual Integrations  
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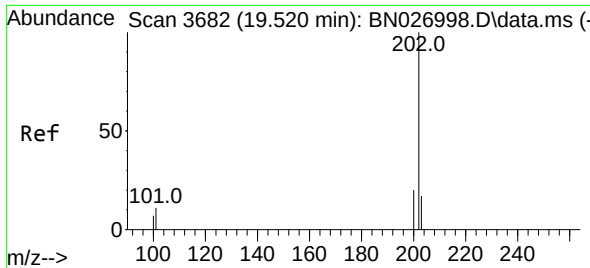
Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023



#16  
Anthracene  
Concen: 0.065 ng/ul  
RT: 17.603 min Scan# 3250  
Delta R.T. -0.004 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

Tgt Ion:178 Resp: 6405  
Ion Ratio Lower Upper  
178 100  
179 18.6 12.6 19.0  
176 20.4 15.0 22.6





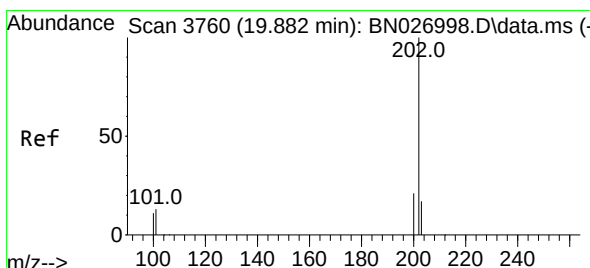
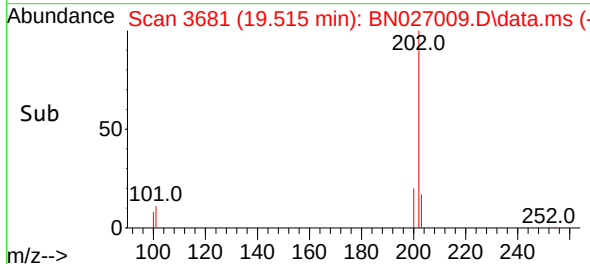
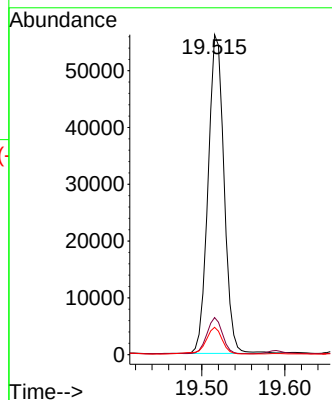
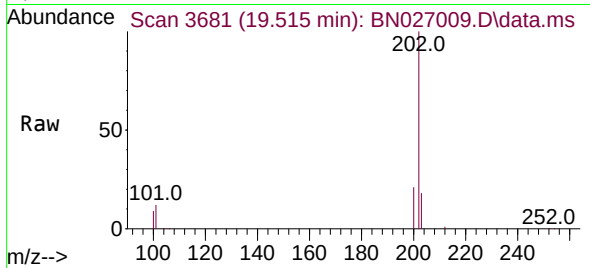
#19  
Fluoranthene  
Concen: 0.674 ng/ul  
RT: 19.515 min Scan# 3681  
Delta R.T. -0.009 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

Instrument :  
BNA\_N  
ClientSampleId :  
A48M9

Tgt Ion:202 Resp: 7497  
Ion Ratio Lower Upper  
202 100  
101 11.6 8.3 12.5  
100 8.5 6.2 9.2

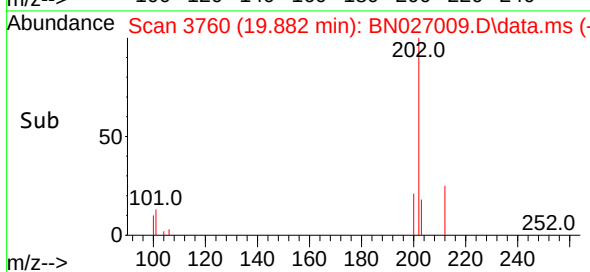
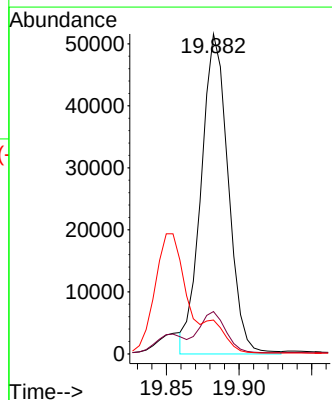
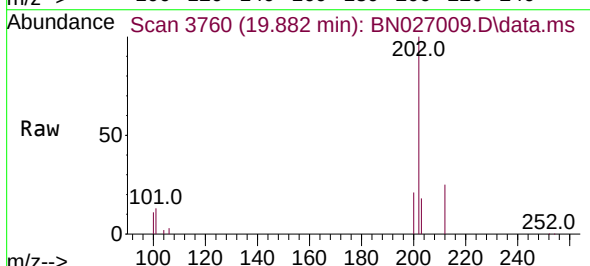
Manual Integrations  
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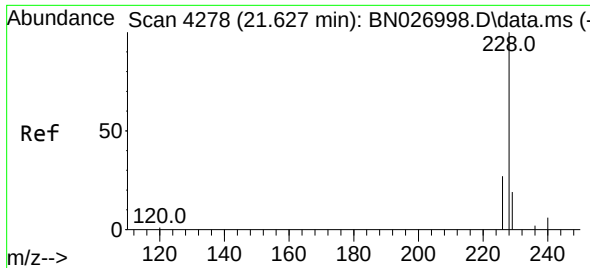
Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023



#20  
Pyrene  
Concen: 0.562 ng/ul m  
RT: 19.882 min Scan# 3760  
Delta R.T. -0.005 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

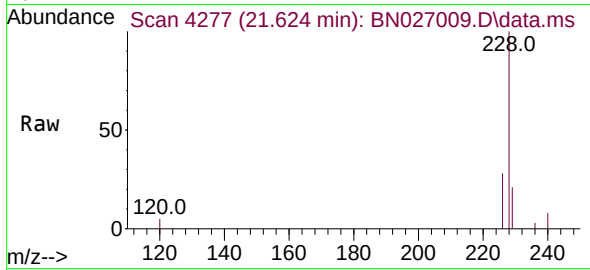
Tgt Ion:202 Resp: 66784  
Ion Ratio Lower Upper  
202 100  
101 13.2 10.7 16.1  
100 10.6 8.5 12.7





#21  
Benzo(a)anthracene  
Concen: 0.328 ng/ul  
RT: 21.624 min Scan# 41  
Delta R.T. -0.009 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

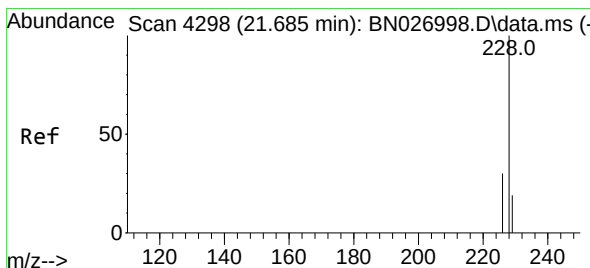
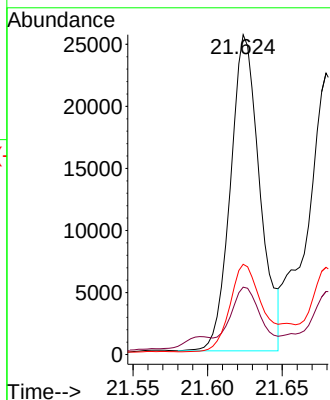
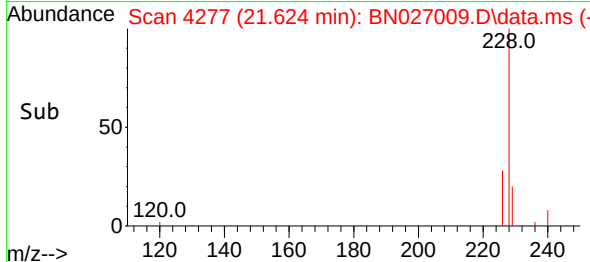
Instrument :  
BNA\_N  
ClientSampleId :  
A48M9



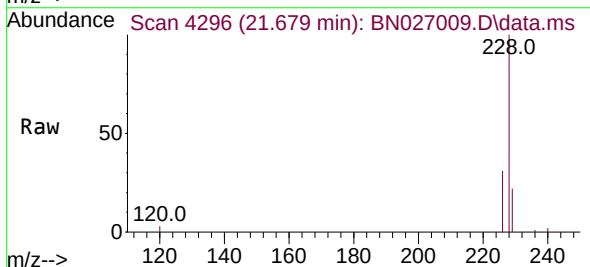
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Ion Ratio Lower Upper  
228 100  
229 21.1 16.0 24.0  
226 28.3 22.2 33.2

Manual Integrations  
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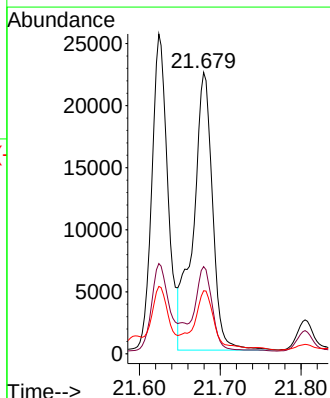
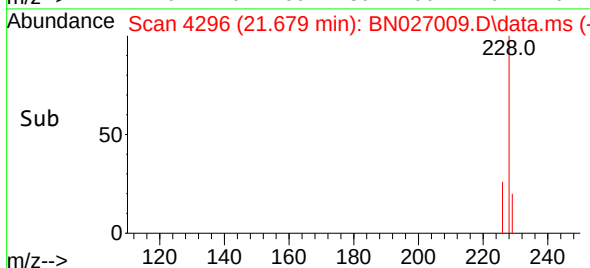
Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023

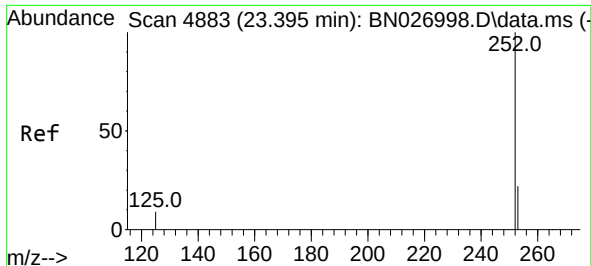


#22  
Chrysene  
Concen: 0.354 ng/ul m  
RT: 21.679 min Scan# 4296  
Delta R.T. -0.012 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50



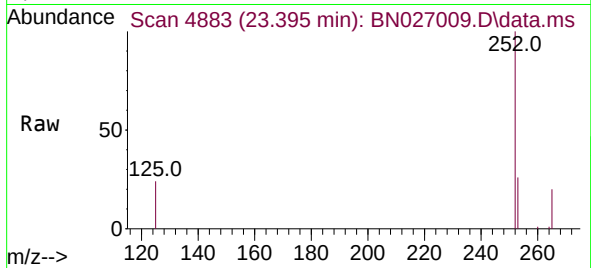
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Ion Ratio Lower Upper  
228 100  
226 31.0 24.6 36.8  
229 22.4 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 0.442 ng/ul m  
RT: 23.395 min Scan# 4883  
Delta R.T. -0.012 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

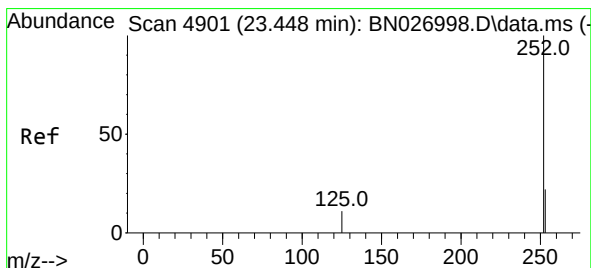
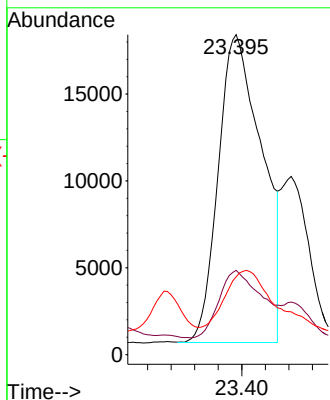
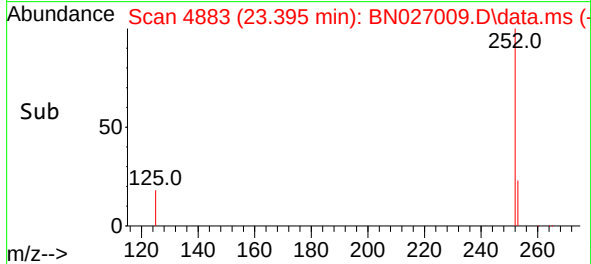
Instrument :  
BNA\_N  
ClientSampleId :  
A48M9



Tgt Ion:252 Resp: 45844  
Ion Ratio Lower Upper  
252 100  
253 26.3 0.0 46.8  
125 24.3 0.0 25.2

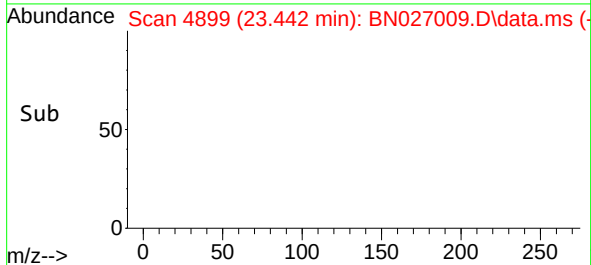
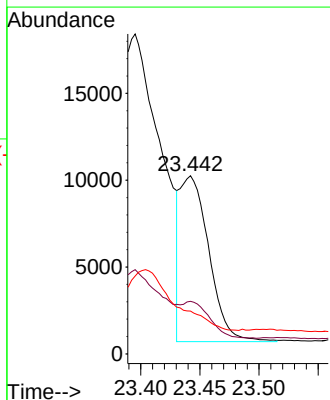
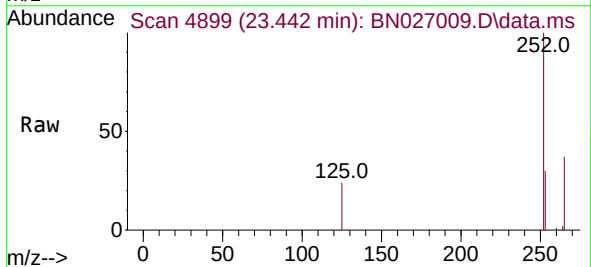
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023

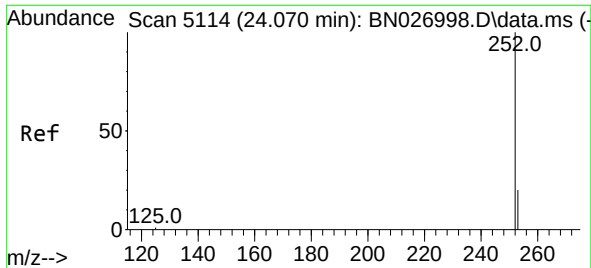


#25  
Benzo(k)fluoranthene  
Concen: 0.158 ng/ul m  
RT: 23.442 min Scan# 4899  
Delta R.T. -0.018 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

Tgt Ion:252 Resp: 16127  
Ion Ratio Lower Upper  
252 100  
253 29.5 18.2 27.4#  
125 24.0 9.9 14.9#

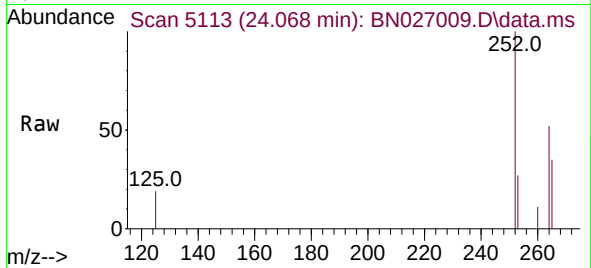






#26  
Benzo(a)pyrene  
Concen: 0.341 ng/ul  
RT: 24.068 min Scan# 5114  
Delta R.T. -0.018 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

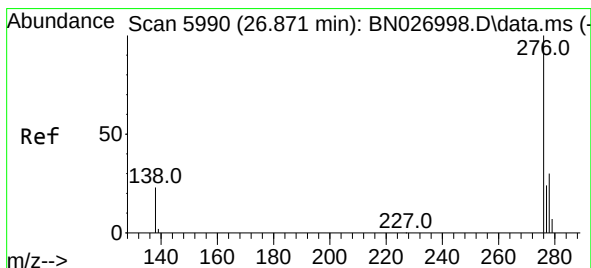
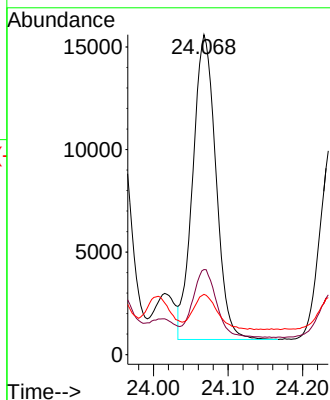
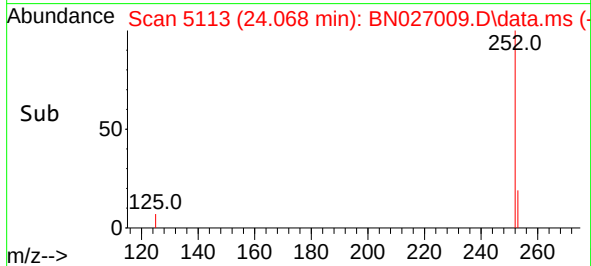
Instrument :  
BNA\_N  
ClientSampleId :  
A48M9



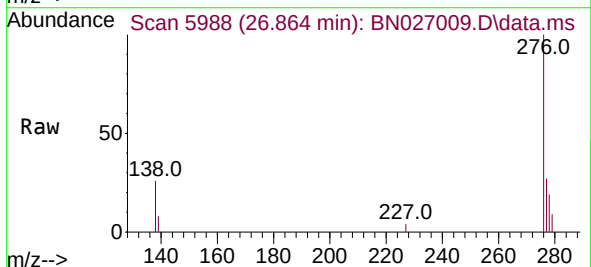
Tgt Ion:252 Resp: 31960  
Ion Ratio Lower Upper  
252 100  
253 26.6 19.0 28.6  
125 18.8 11.4 17.0

Manual Integrations  
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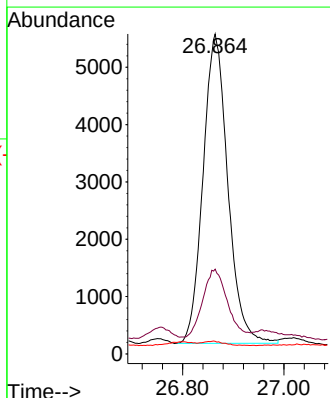
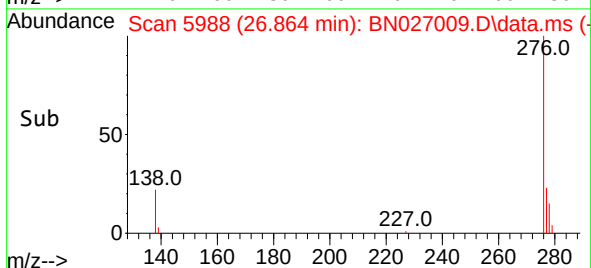
Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023

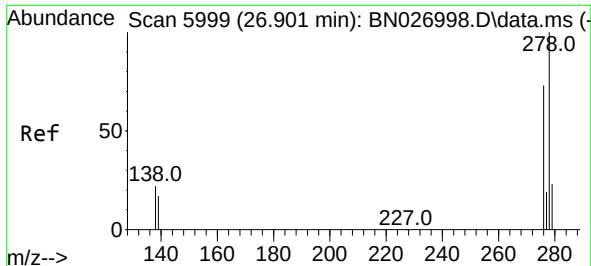


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.150 ng/ul  
RT: 26.864 min Scan# 5988  
Delta R.T. -0.021 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50



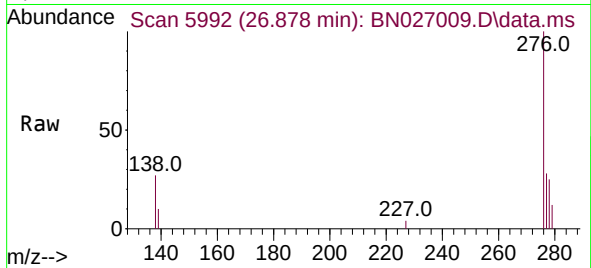
Tgt Ion:276 Resp: 18341  
Ion Ratio Lower Upper  
276 100  
138 22.9 21.6 32.4  
227 1.0 0.0 0.0





#28  
Dibenzo(a,h)anthracene  
Concen: 0.045 ng/ul  
RT: 26.878 min Scan# 5999  
Delta R.T. -0.044 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50

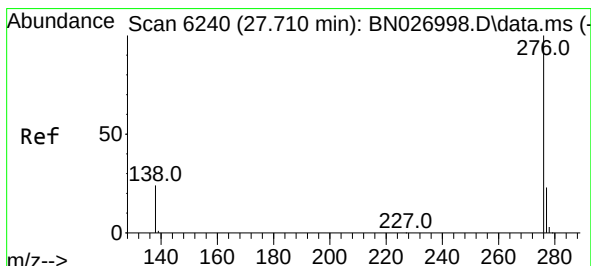
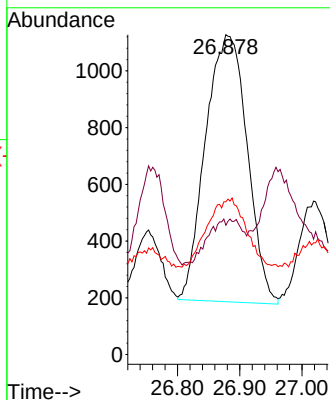
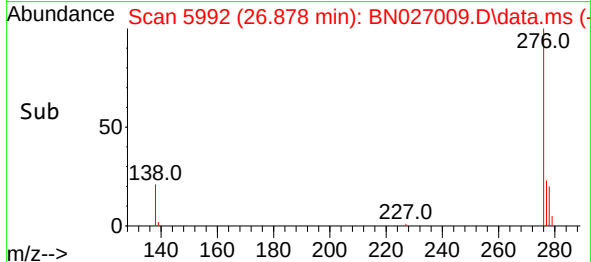
Instrument :  
BNA\_N  
ClientSampleId :  
A48M9



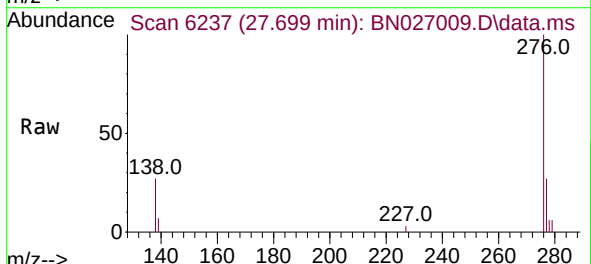
Tgt Ion:278 Resp: 4379  
Ion Ratio Lower Upper  
278 100  
139 40.4 15.7 23.5  
279 47.8 20.2 30.4

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/22/2023  
Supervised By :mohammad ahmed 08/22/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.173 ng/ul  
RT: 27.699 min Scan# 6237  
Delta R.T. -0.024 min  
Lab File: BN027009.D  
Acq: 22 Aug 2023 01:50



Tgt Ion:276 Resp: 17645  
Ion Ratio Lower Upper  
276 100  
138 27.3 19.3 28.9  
277 26.9 19.8 29.8

