

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN072324\  
 Data File : BN032916.D  
 Acq On : 23 Jul 2024 18:19  
 Operator : MA/JU  
 Sample : P3178-17DL 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BY5DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 07/24/2024  
 Supervised By :mohammad ahmed 07/26/2024

Quant Time: Jul 23 18:55:53 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jul 20 01:52:15 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.523  | 152  | 5264     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.294 | 136  | 18486    | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.170 | 164  | 11326    | 0.400 | ng/ul  | -0.02    |
| 13) Phenanthrene-d10        | 16.932 | 188  | 20135    | 0.400 | ng/ul  | -0.03    |
| 17) Chrysene-d12            | 21.153 | 240  | 14532    | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.345 | 264  | 17417    | 0.400 | ng/ul  | #-0.01   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.084  | 96   | 3069     | 0.486 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.900 | 152  | 1076     | 0.039 | ng/ul  | -0.03    |
| 18) Fluoranthene-d10        | 18.976 | 212  | 1813     | 0.038 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.343 | 128  | 23942    | 0.482 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.977 | 142  | 7627     | 0.246 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.197 | 142  | 6266     | 0.196 | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.892 | 152  | 4500     | 0.098 | ng/ul# | 90       |
| 11) Acenaphthene            | 14.235 | 153  | 22324    | 0.590 | ng/ul  | 99       |
| 12) Fluorene                | 15.234 | 166  | 21331    | 0.493 | ng/ul  | 99       |
| 15) Phenanthrene            | 16.974 | 178  | 342265   | 6.242 | ng/ul  | 99       |
| 16) Anthracene              | 17.067 | 178  | 71036    | 1.586 | ng/ul  | 97       |
| 19) Fluoranthene            | 19.004 | 202  | 319621   | 5.410 | ng/ul  | 99       |
| 20) Pyrene                  | 19.371 | 202  | 284139   | 4.646 | ng/ul  | 100      |
| 21) Benzo(a)anthracene      | 21.136 | 228  | 119218   | 2.577 | ng/ul  | 99       |
| 22) Chrysene                | 21.188 | 228  | 105040   | 1.570 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.687 | 252  | 120596m  | 1.962 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.728 | 252  | 44452m   | 0.594 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.246 | 252  | 93176    | 1.752 | ng/ul# | 83       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.549 | 276  | 59277    | 0.823 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 25.546 | 278  | 14132    | 0.253 | ng/ul# | 90       |
| 29) Benzo(g,h,i)perylene    | 26.223 | 276  | 56151    | 0.933 | ng/ul  | 99       |
| -----                       |        |      |          |       |        |          |

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

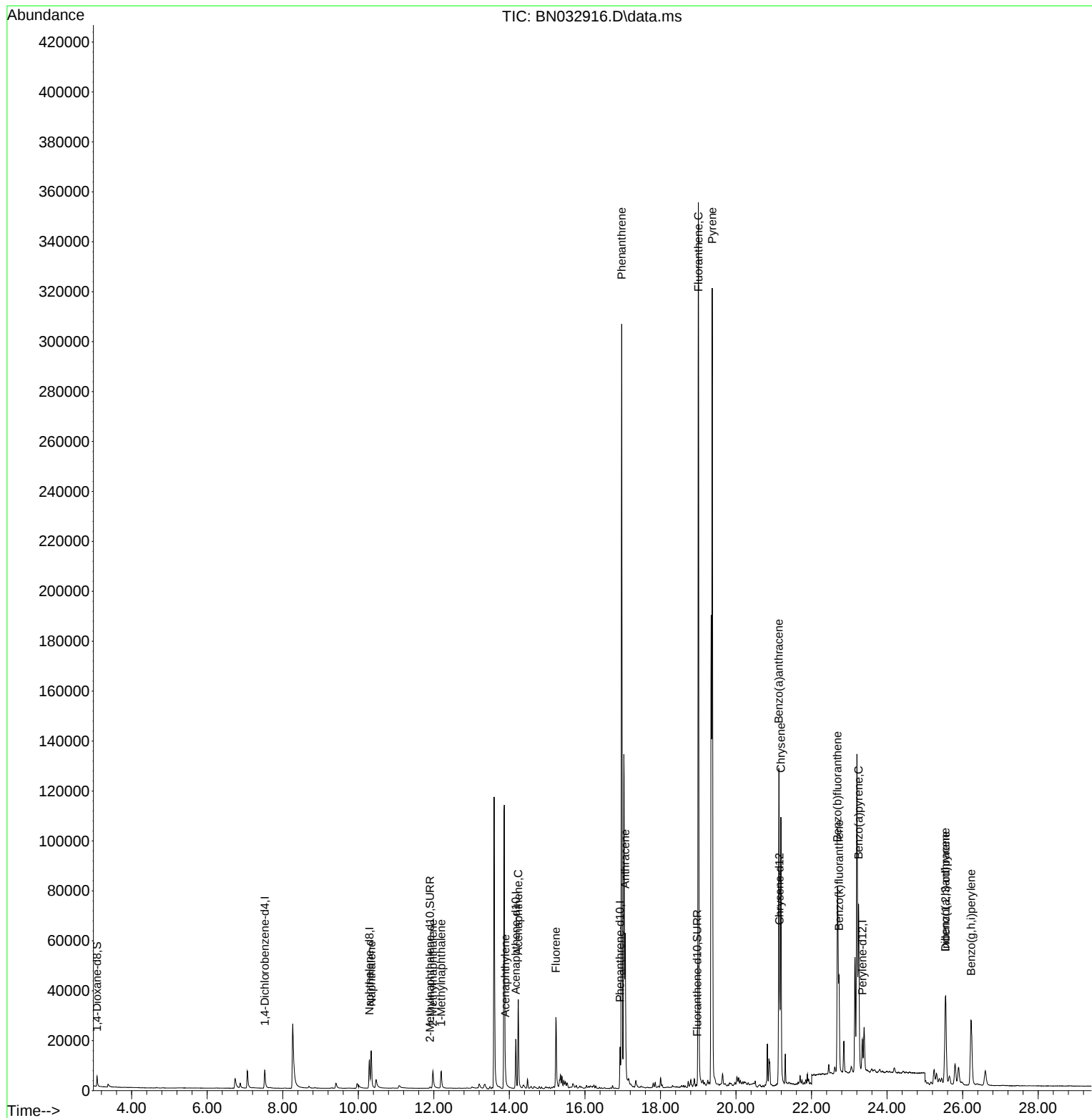
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN072324\  
Data File : BN032916.D  
Acq On : 23 Jul 2024 18:19  
Operator : MA/JU  
Sample : P3178-17DL 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

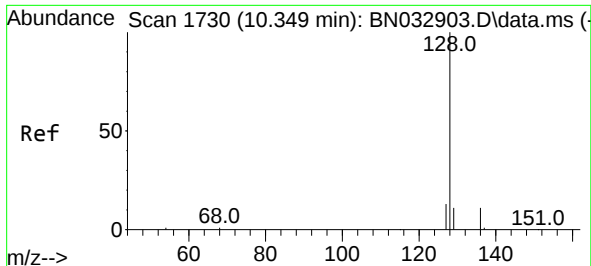
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024

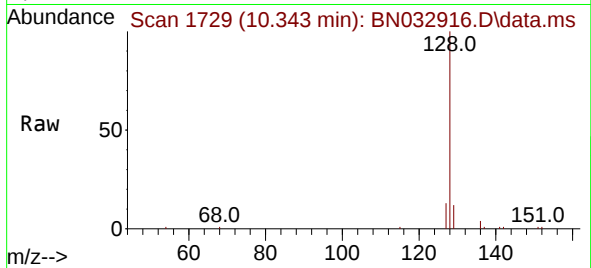
Quant Time: Jul 23 18:55:53 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 20 01:52:15 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.482 ng/ul  
RT: 10.343 min Scan# 11  
Delta R.T. -0.020 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

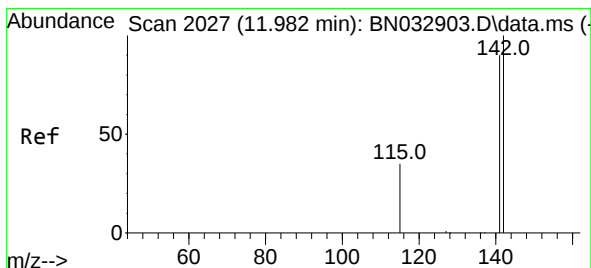
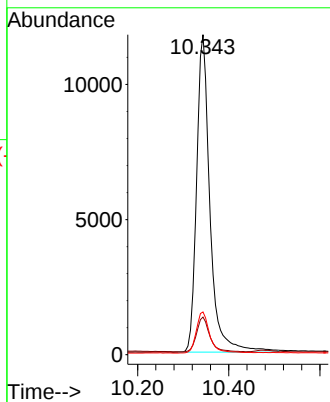
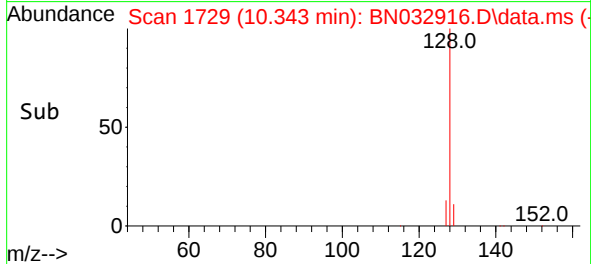
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL



Tgt Ion:128 Resp: 2394  
Ion Ratio Lower Upper  
128 100  
129 11.8 10.0 15.0  
127 13.4 11.6 17.4

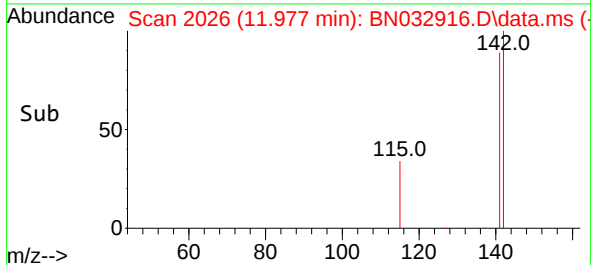
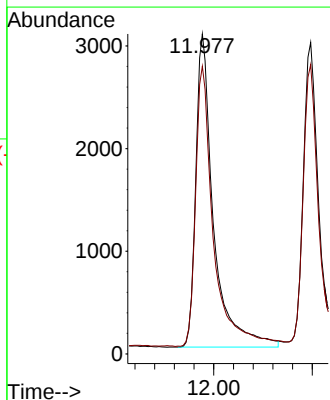
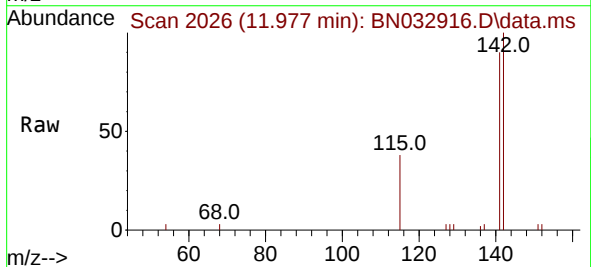
Manual Integrations  
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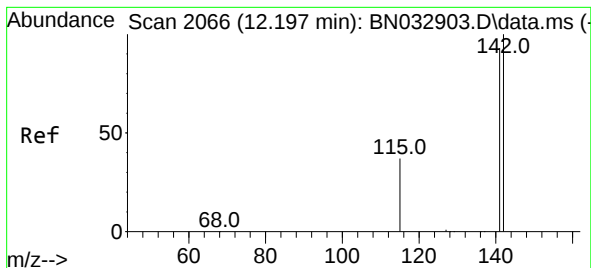
Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024



#7  
2-Methylnaphthalene  
Concen: 0.246 ng/ul  
RT: 11.977 min Scan# 2026  
Delta R.T. -0.020 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

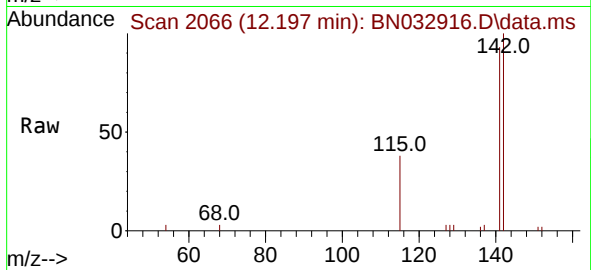
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Ion Ratio Lower Upper  
142 100  
141 89.9 74.0 111.0





#8  
1-Methylnaphthalene  
Concen: 0.196 ng/ul  
RT: 12.197 min Scan# 2066  
Delta R.T. -0.015 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

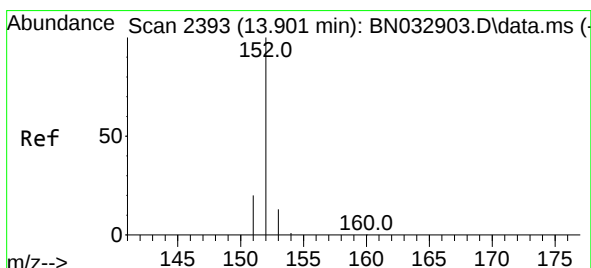
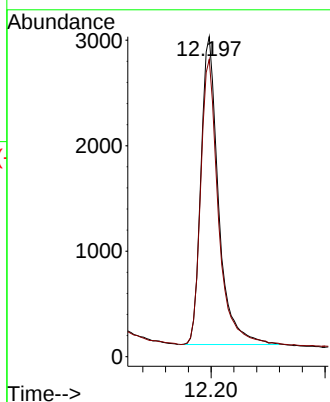
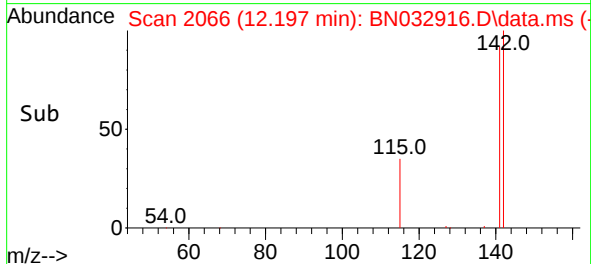
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL



Tgt Ion:142 Resp: 6260  
Ion Ratio Lower Upper  
142 100  
141 92.9 75.0 112.4

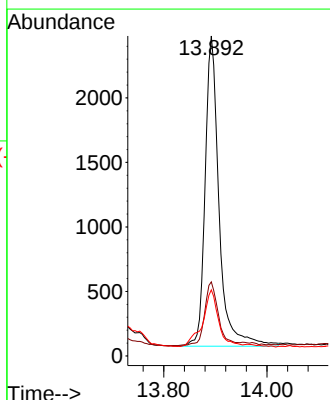
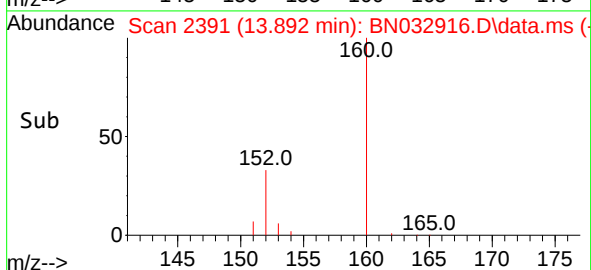
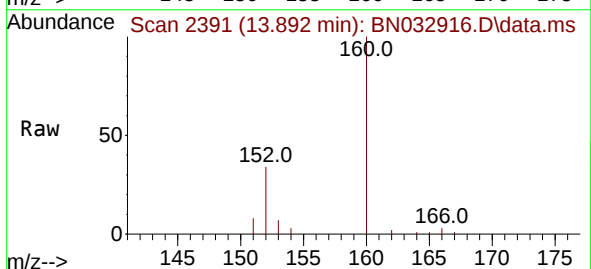
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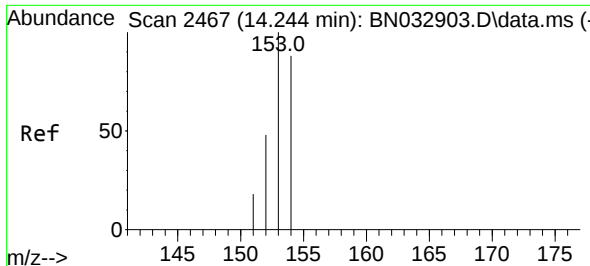
Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024



#10  
Acenaphthylene  
Concen: 0.098 ng/ul  
RT: 13.892 min Scan# 2391  
Delta R.T. -0.022 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

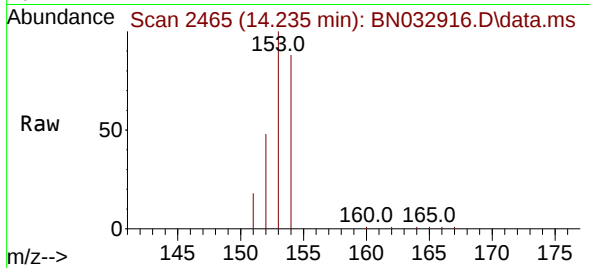
Tgt Ion:152 Resp: 4500  
Ion Ratio Lower Upper  
152 100  
151 23.2 16.3 24.5  
153 20.6 11.3 16.9#





#11  
Acenaphthene  
Concen: 0.590 ng/ul  
RT: 14.235 min Scan# 2465  
Delta R.T. -0.017 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

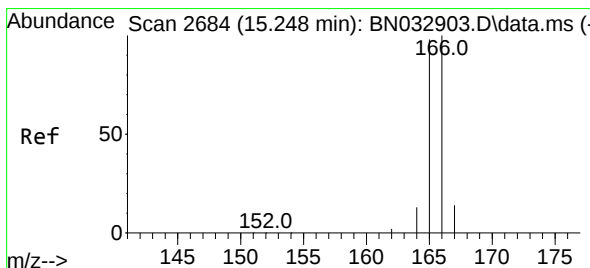
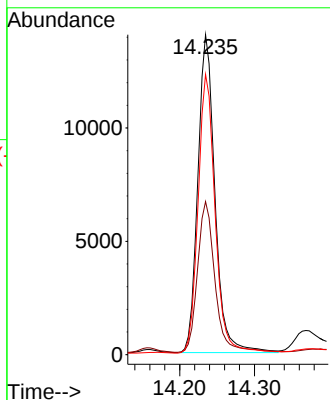
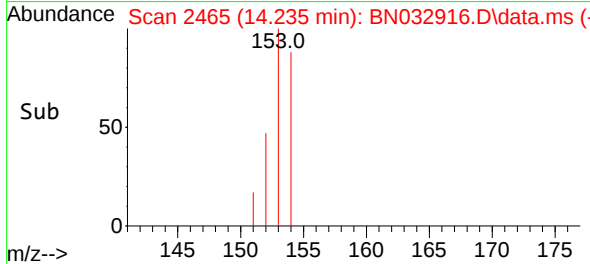
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL



Tgt Ion:153 Resp: 22324  
Ion Ratio Lower Upper  
153 100  
152 47.8 40.0 60.0  
154 87.6 70.2 105.4

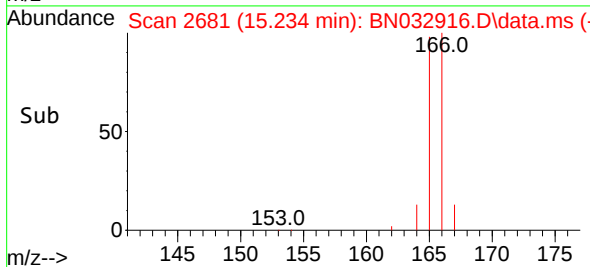
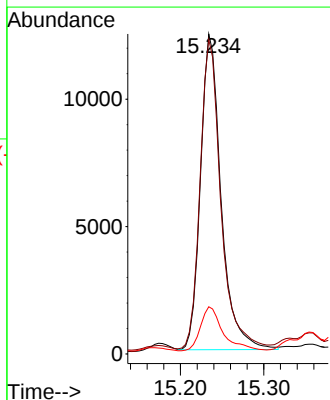
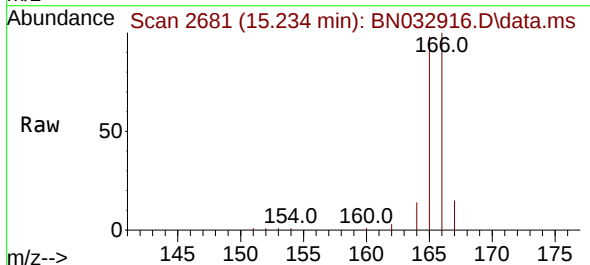
Manual Integrations  
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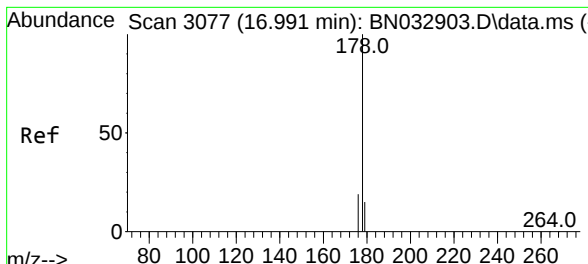
Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024



#12  
Fluorene  
Concen: 0.493 ng/ul  
RT: 15.234 min Scan# 2681  
Delta R.T. -0.026 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

Tgt Ion:166 Resp: 21331  
Ion Ratio Lower Upper  
166 100  
165 98.2 79.7 119.5  
167 14.8 11.4 17.2



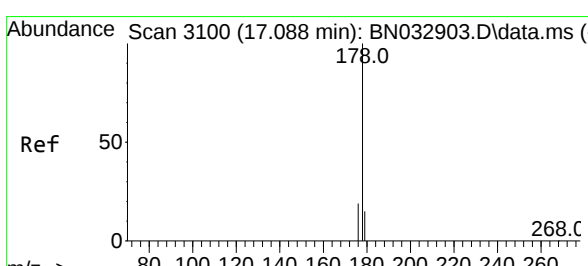
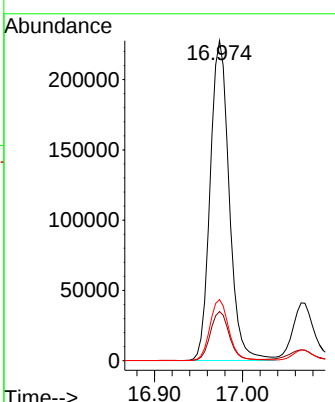
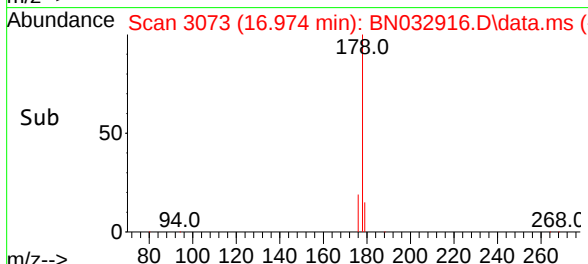
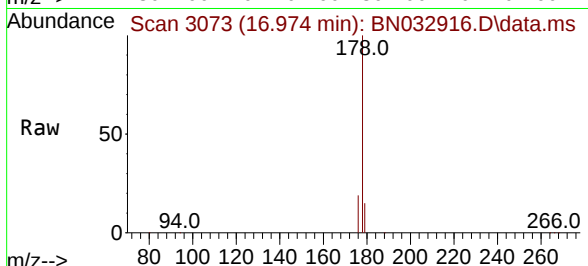


#15  
 Phenanthrene  
 Concen: 6.242 ng/ul  
 RT: 16.974 min Scan# 3073  
 Delta R.T. -0.028 min  
 Lab File: BN032916.D  
 Acq: 23 Jul 2024 18:19

Instrument : BNA\_N  
 ClientSampleId : A4BY5DL

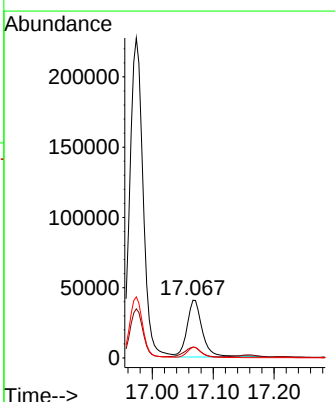
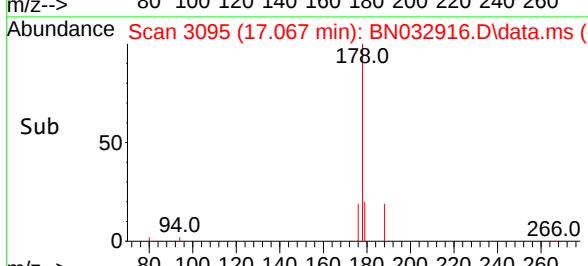
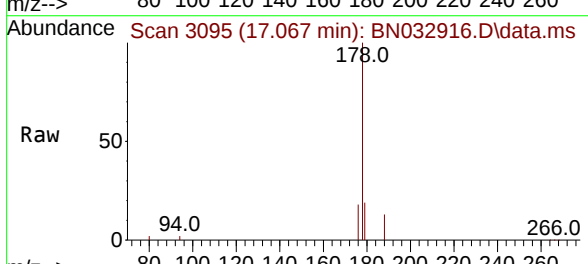
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|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 34226 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.3  | 13.0  | 19.4  |
| 176       | 19.1  | 15.6  | 23.4  |

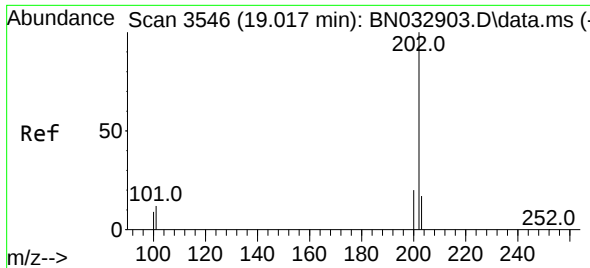
Manual Integrations  
**APPROVED**  
 Reviewed By :Jagrut Upadhyay 07/24/2024  
 Supervised By :mohammad ahmed 07/26/2024



#16  
 Anthracene  
 Concen: 1.586 ng/ul  
 RT: 17.067 min Scan# 3095  
 Delta R.T. -0.032 min  
 Lab File: BN032916.D  
 Acq: 23 Jul 2024 18:19

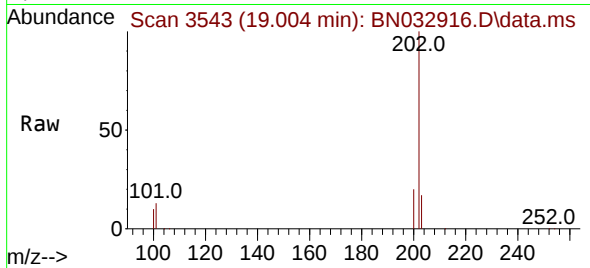
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|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 71036 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 18.7  | 13.4  | 20.2  |
| 176       | 18.5  | 15.4  | 23.0  |





#19  
Fluoranthene  
Concen: 5.410 ng/u1  
RT: 19.004 min Scan# 31962  
Delta R.T. -0.022 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

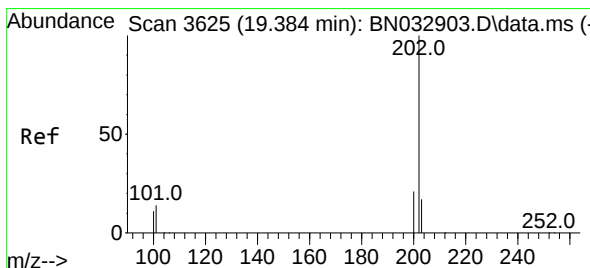
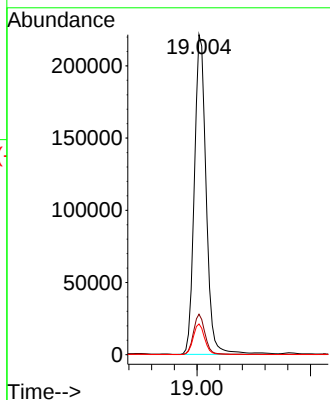
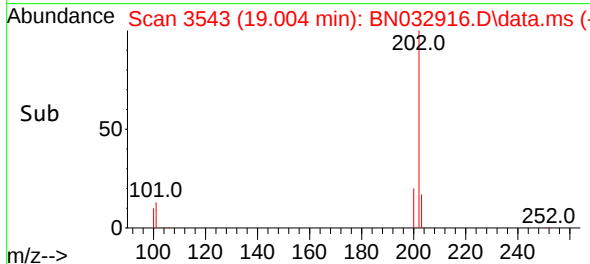
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL



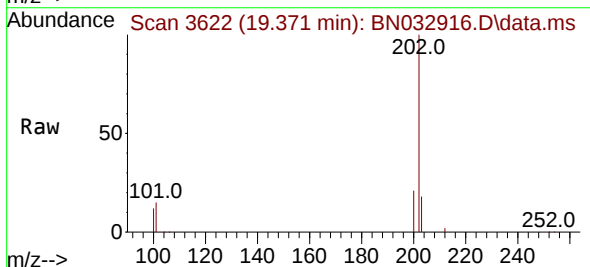
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Ion Ratio Lower Upper  
202 100  
101 12.6 9.8 14.8  
100 9.6 7.9 11.9

Manual Integrations  
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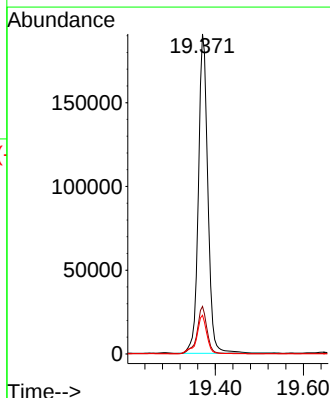
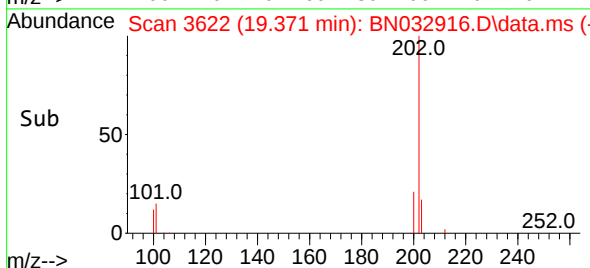
Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024

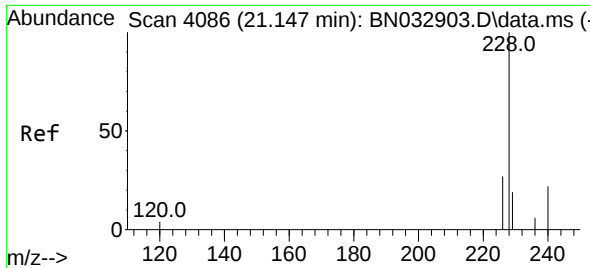


#20  
Pyrene  
Concen: 4.646 ng/u1  
RT: 19.371 min Scan# 3622  
Delta R.T. -0.022 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19



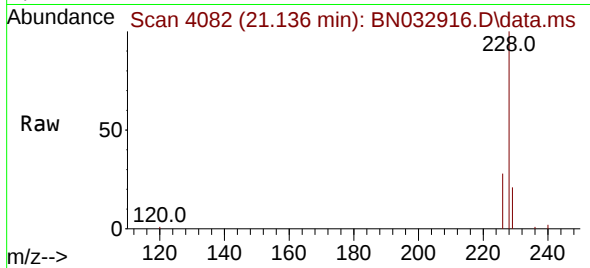
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Ion Ratio Lower Upper  
202 100  
101 14.9 11.8 17.6  
100 12.1 9.6 14.4





#21  
Benzo(a)anthracene  
Concen: 2.577 ng/ul  
RT: 21.136 min Scan# 4086  
Delta R.T. -0.015 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

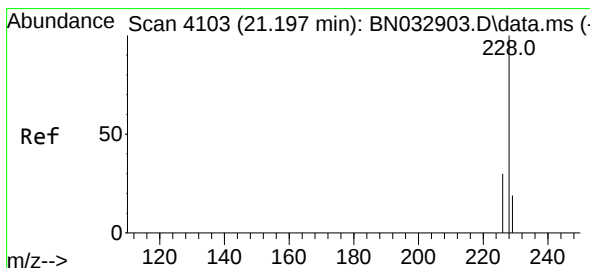
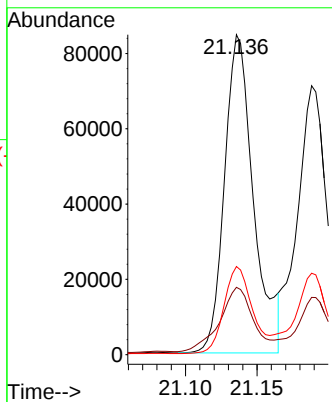
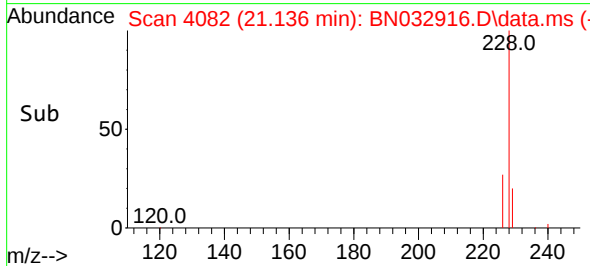
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL



Tgt Ion:228 Resp: 119218  
Ion Ratio Lower Upper  
228 100  
229 21.1 16.1 24.1  
226 27.6 21.9 32.9

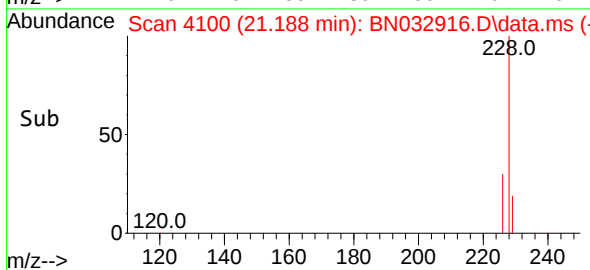
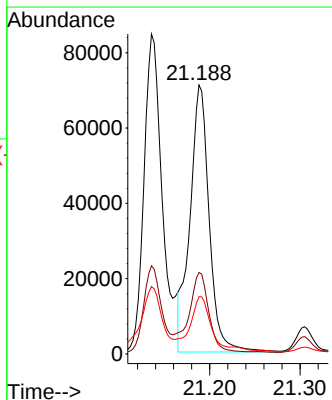
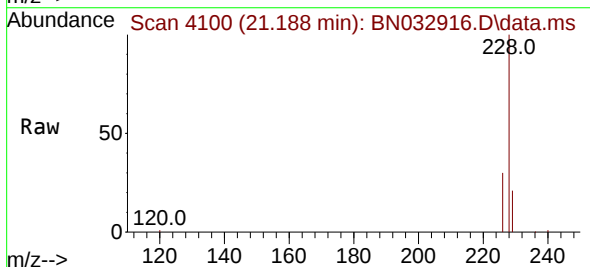
Manual Integrations  
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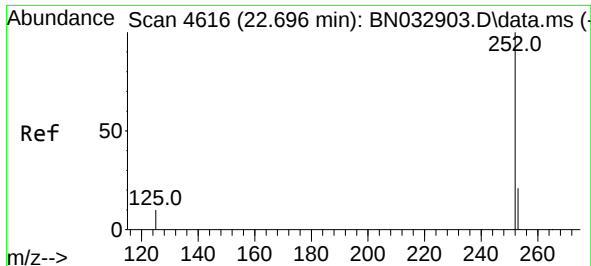
Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024



#22  
Chrysene  
Concen: 1.570 ng/ul  
RT: 21.188 min Scan# 4100  
Delta R.T. -0.015 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

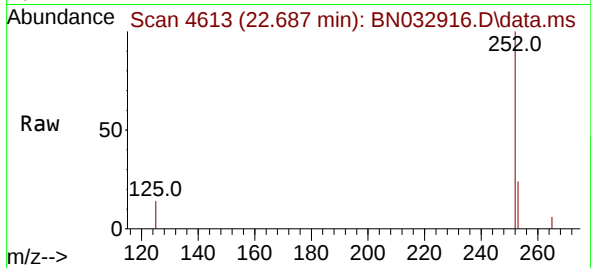
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Ion Ratio Lower Upper  
228 100  
226 30.3 24.0 36.0  
229 21.3 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 1.962 ng/ul m  
RT: 22.687 min Scan# 4613  
Delta R.T. -0.012 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

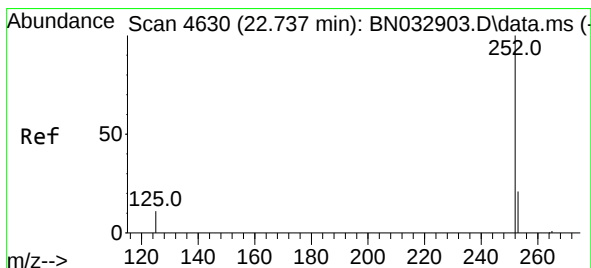
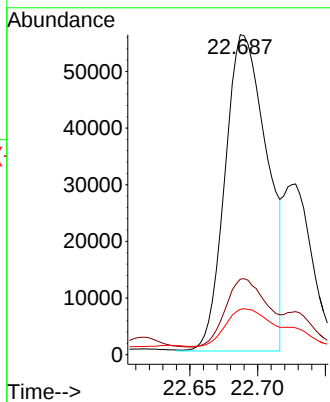
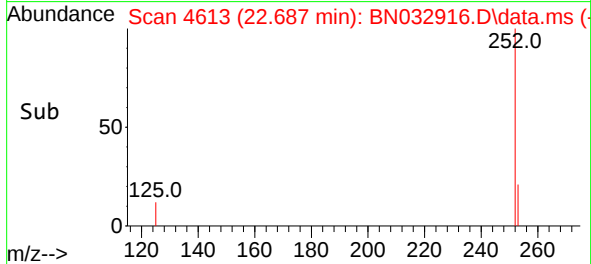
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL



Tgt Ion:252 Resp: 120590  
Ion Ratio Lower Upper  
252 100  
253 23.6 0.0 54.0  
125 14.2 0.0 36.0

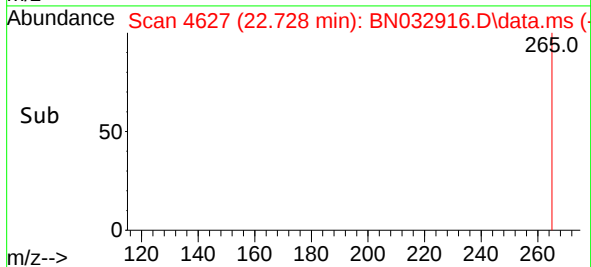
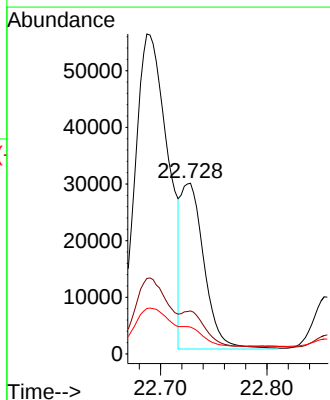
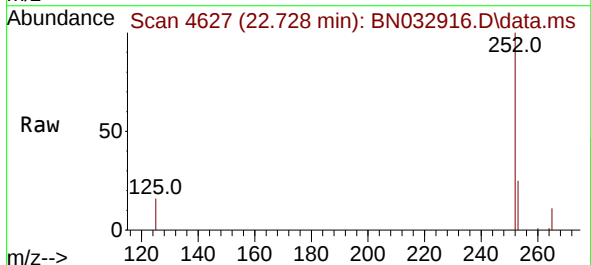
Manual Integrations  
APPROVED

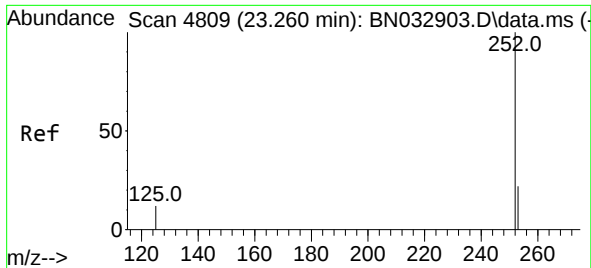
Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024



#25  
Benzo(k)fluoranthene  
Concen: 0.594 ng/ul m  
RT: 22.728 min Scan# 4627  
Delta R.T. -0.012 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

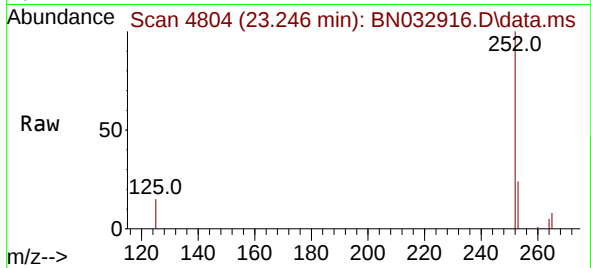
Tgt Ion:252 Resp: 44452  
Ion Ratio Lower Upper  
252 100  
253 25.2 21.2 31.8  
125 15.8 14.8 22.2





#26  
Benzo(a)pyrene  
Concen: 1.752 ng/ul  
RT: 23.246 min Scan# 4809  
Delta R.T. -0.018 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

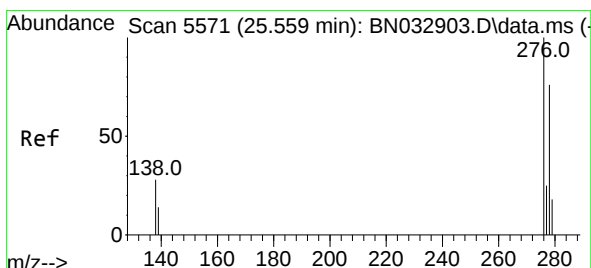
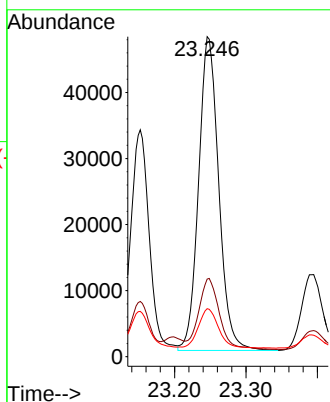
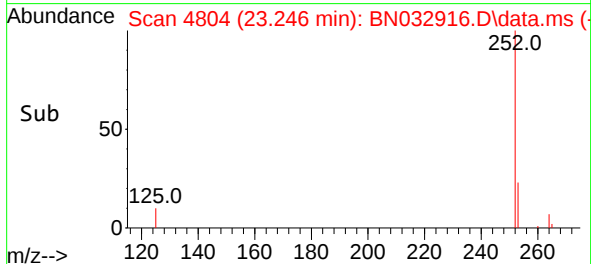
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL



Tgt Ion:252 Resp: 93170  
Ion Ratio Lower Upper  
252 100  
253 24.3 25.4 38.0  
125 15.0 20.6 30.8

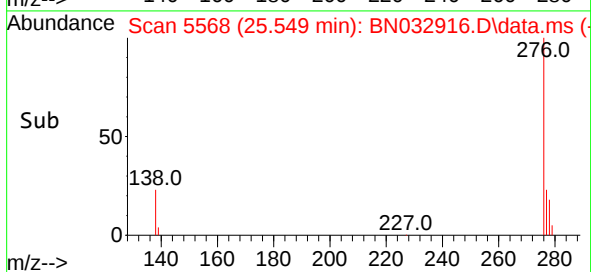
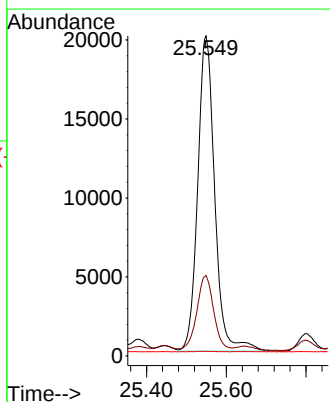
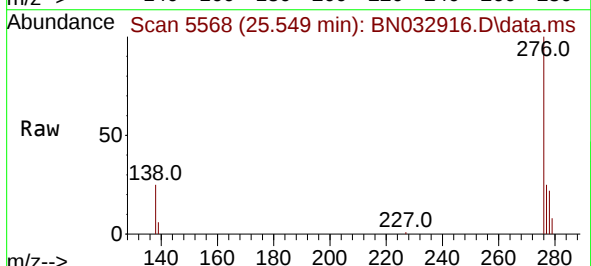
Manual Integrations  
APPROVED

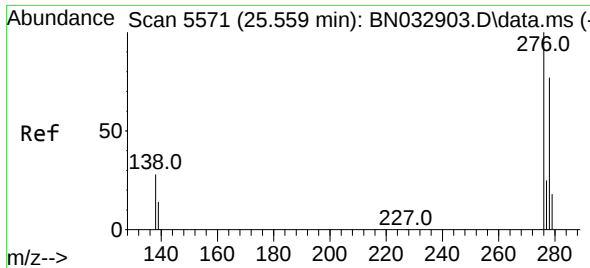
Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.823 ng/ul  
RT: 25.549 min Scan# 5568  
Delta R.T. -0.020 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

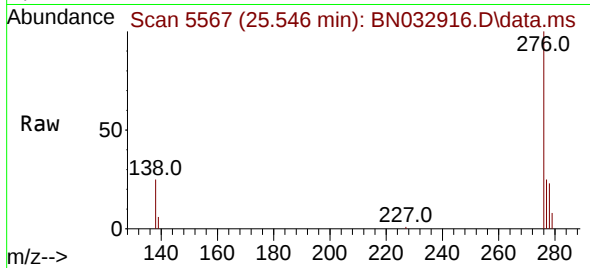
Tgt Ion:276 Resp: 59277  
Ion Ratio Lower Upper  
276 100  
138 22.8 21.6 32.4  
227 0.0 0.0 0.0





#28  
Dibenzo(a,h)anthracene  
Concen: 0.253 ng/ul  
RT: 25.546 min Scan# 5567  
Delta R.T. -0.024 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

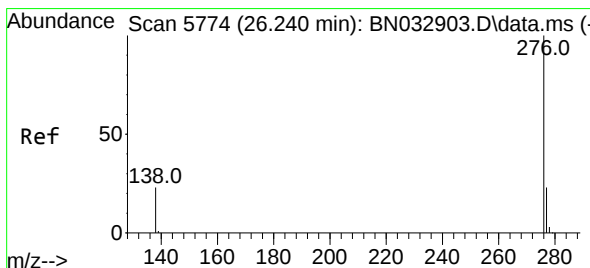
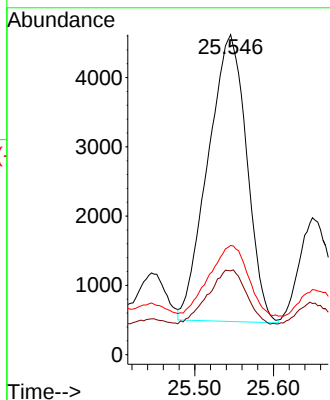
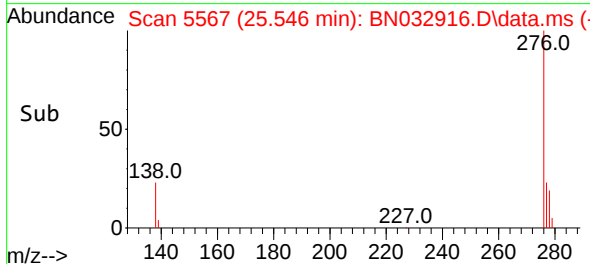
Instrument :  
BNA\_N  
ClientSampleId :  
A4BY5DL



Tgt Ion:278 Resp: 14132  
Ion Ratio Lower Upper  
278 100  
139 26.2 16.6 24.8  
279 34.2 23.7 35.5

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 07/24/2024  
Supervised By :mohammad ahmed 07/26/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.933 ng/ul  
RT: 26.223 min Scan# 5769  
Delta R.T. -0.027 min  
Lab File: BN032916.D  
Acq: 23 Jul 2024 18:19

Tgt Ion:276 Resp: 56151  
Ion Ratio Lower Upper  
276 100  
138 25.9 21.0 31.4  
277 25.5 20.6 31.0

