

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN091622\  
 Data File : BN021786.D  
 Acq On : 16 Sep 2022 13:27  
 Operator : CG/JU  
 Sample : N4601-16  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A5757

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2022  
 Supervised By :mohammad ahmed 09/19/2022

Quant Time: Sep 17 00:20:44 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN081922.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Sep 17 00:17:38 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.046  | 152  | 244745   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.875 | 136  | 1072715  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.704 | 164  | 631415   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.457 | 188  | 1192369  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.651 | 240  | 689462   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.162 | 264  | 672356   | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.358  | 96   | 18518    | 2.841  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.805  | 84   | 23208    | 1.306  | ng/u1  | 0.02     |
| 7) Phenol-d5                  | 7.199  | 99   | 357722   | 16.115 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.369  | 67   | 245792   | 18.293 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.569  | 132  | 298345   | 18.474 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.763  | 113  | 257044   | 14.758 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.222  | 128  | 154434   | 21.131 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.951  | 143  | 156424   | 23.962 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.493 | 165  | 280261   | 19.385 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.022 | 131  | 72519    | 2.954  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.110 | 166  | 889604   | 20.613 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.398 | 160  | 1054843  | 20.966 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.904 | 143  | 61985    | 7.218  | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.698 | 176  | 760439   | 20.250 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.816 | 200  | 99968    | 20.961 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.557 | 188  | 1063545  | 20.240 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.851 | 212  | 926618   | 28.261 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.998 | 264  | 666305   | 20.908 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.928 | 128  | 650429   | 11.645 | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.540 | 142  | 603940   | 15.984 | ng/u1  | 100      |
| 37) 1-Methylnaphthalene       | 12.757 | 142  | 540981   | 14.246 | ng/u1  | 98       |
| 50) Acenaphthylene            | 14.428 | 152  | 413564   | 7.120  | ng/u1# | 97       |
| 52) Acenaphthene              | 14.769 | 153  | 40710    | 1.085  | ng/u1  | 96       |
| 72) Phenanthrene              | 17.498 | 178  | 1371407  | 21.775 | ng/u1  | 100      |
| 74) Anthracene                | 17.592 | 178  | 478755   | 7.634  | ng/u1  | 98       |
| 80) Fluoranthene              | 19.516 | 202  | 2165249  | 54.748 | ng/u1# | 94       |
| 82) Pyrene                    | 19.880 | 202  | 2053058  | 49.807 | ng/u1# | 91       |
| 85) Benzo(a)anthracene        | 21.633 | 228  | 831665   | 20.034 | ng/u1  | 95       |
| 87) Chrysene                  | 21.686 | 228  | 1196221m | 29.762 | ng/u1  |          |
| 90) Benzo(b)fluoranthene      | 23.392 | 252  | 1648513  | 40.301 | ng/u1# | 91       |
| 91) Benzo(k)fluoranthene      | 23.433 | 252  | 434431m  | 11.873 | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.051 | 252  | 685861   | 17.525 | ng/u1# | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.809 | 276  | 800184   | 16.654 | ng/u1  | 97       |
| 95) Dibenzo(a,h)anthracene    | 26.815 | 278  | 212514   | 5.241  | ng/u1# | 77       |
| 96) Benzo(g,h,i)perylene      | 27.627 | 276  | 631269   | 15.056 | ng/u1# | 90       |
| -----                         |        |      |          |        |        |          |

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

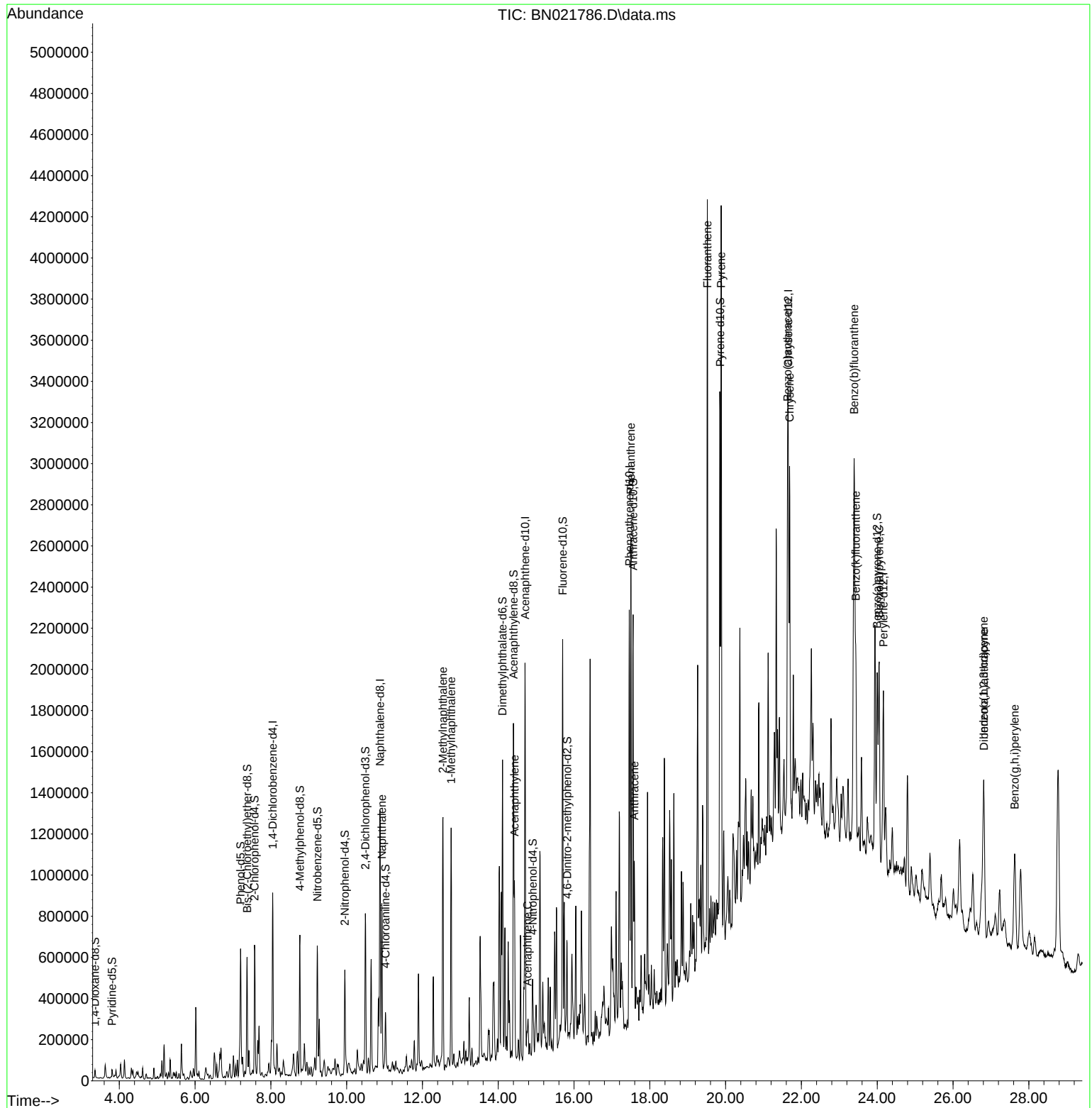
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Data File : BN021786.D  
Acq On : 16 Sep 2022 13:27  
Operator : CG/JU  
Sample : N4601-16  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

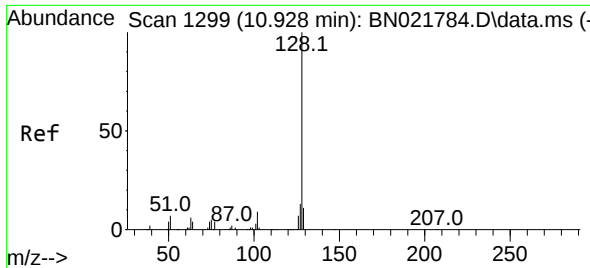
Instrument :  
BNA\_N  
ClientSampleId :  
A5757

Quant Time: Sep 17 00:20:44 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN081922.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Sep 17 00:17:38 2022  
Response via : Initial Calibration

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APPROVED

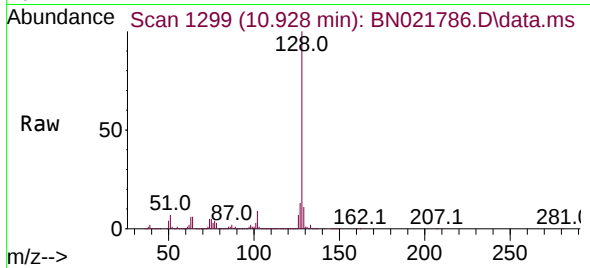
Reviewed By :Jagrut Upadhyay 09/19/2022  
Supervised By :mohammad ahmed 09/19/2022





#30  
Naphthalene  
Concen: 11.645 ng/ul  
RT: 10.928 min Scan# 1299  
Delta R.T. -0.000 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

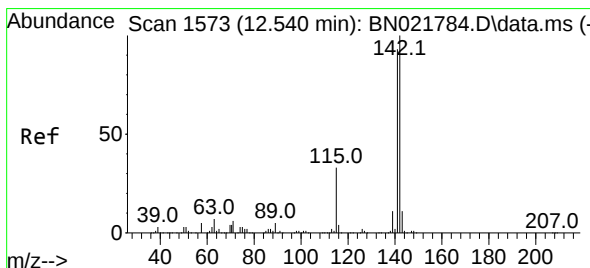
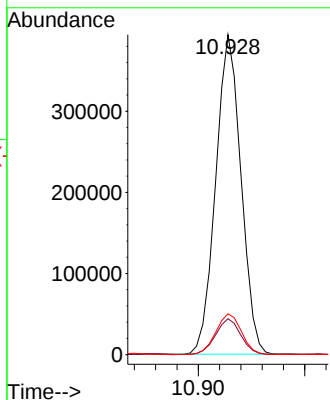
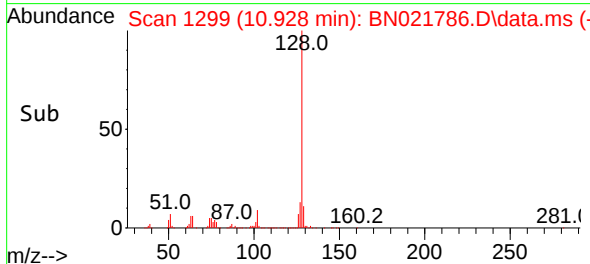
Instrument : BNA\_N  
ClientSampleId : A5757



Tgt Ion:128 Resp: 650429  
Ion Ratio Lower Upper  
128 100  
129 11.2 8.7 13.1  
127 12.8 10.6 16.0

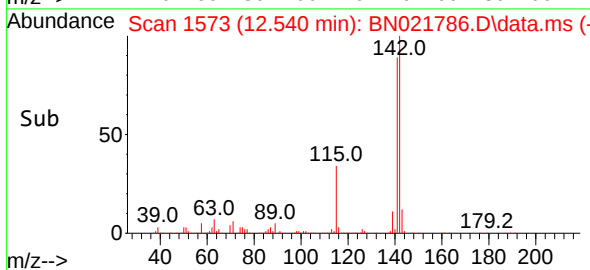
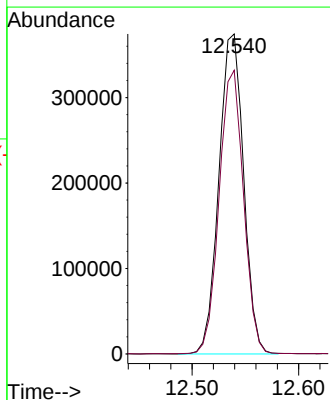
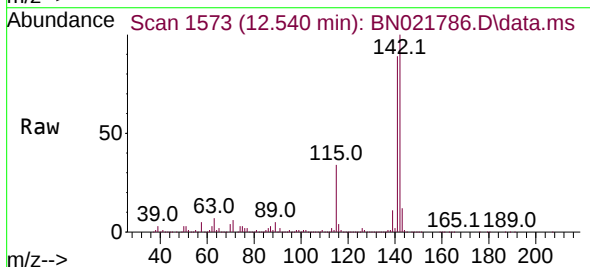
Manual Integrations  
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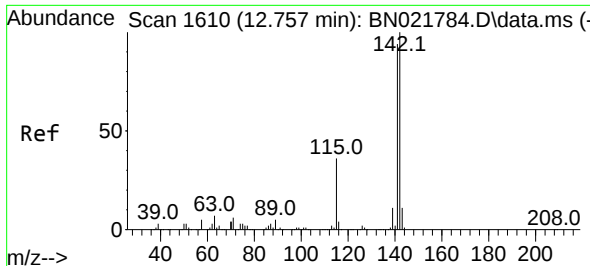
Reviewed By :Jagrut Upadhyay 09/19/2022  
Supervised By :mohammad ahmed 09/19/2022



#36  
2-Methylnaphthalene  
Concen: 15.984 ng/ul  
RT: 12.540 min Scan# 1573  
Delta R.T. -0.000 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

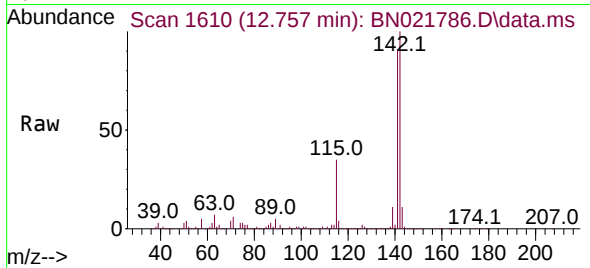
Tgt Ion:142 Resp: 603940  
Ion Ratio Lower Upper  
142 100  
141 88.6 70.6 105.8





#37  
1-Methylnaphthalene  
Concen: 14.246 ng/ul  
RT: 12.757 min Scan# 1610  
Delta R.T. -0.000 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

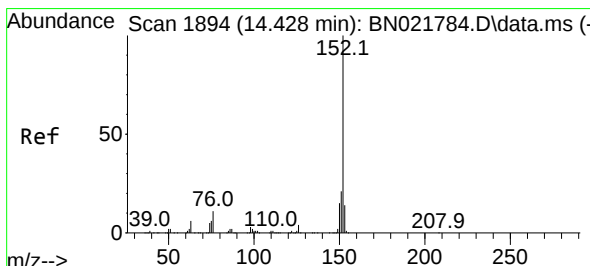
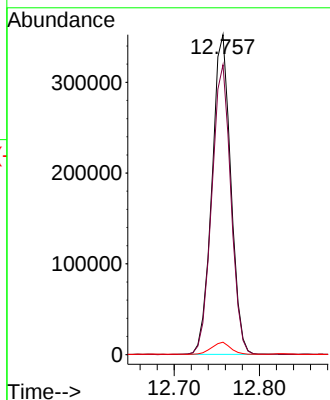
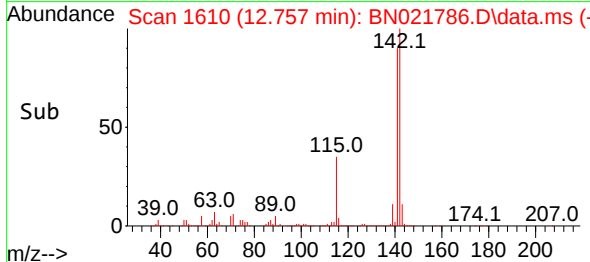
Instrument :  
BNA\_N  
ClientSampleId :  
A5757



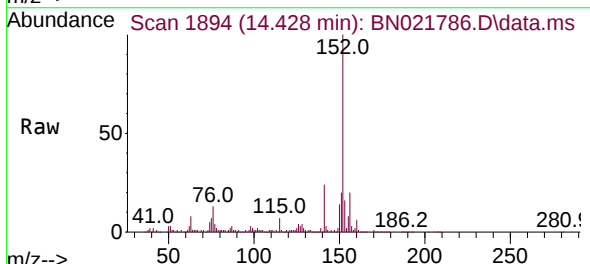
Tgt Ion:142 Resp: 540981  
Ion Ratio Lower Upper  
142 100  
141 90.6 70.9 106.3  
116 3.9 3.1 4.7

Manual Integrations  
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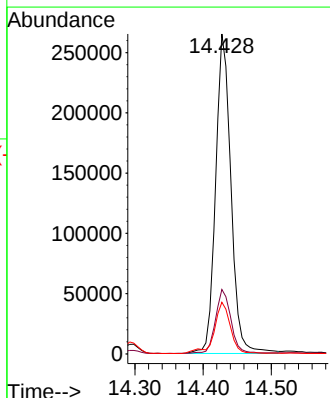
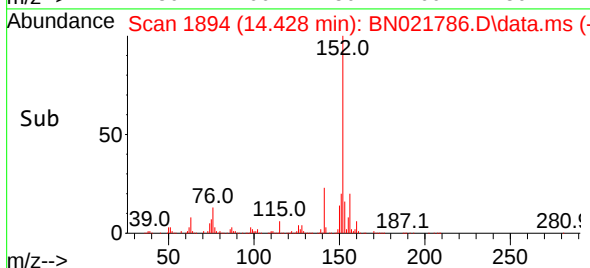
Reviewed By :Jagrut Upadhyay 09/19/2022  
Supervised By :mohammad ahmed 09/19/2022

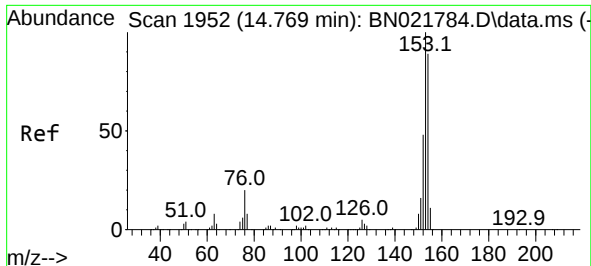


#50  
Acenaphthylene  
Concen: 7.120 ng/ul  
RT: 14.428 min Scan# 1894  
Delta R.T. -0.000 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27



Tgt Ion:152 Resp: 413564  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.0 24.0  
153 16.1 10.7 16.1#





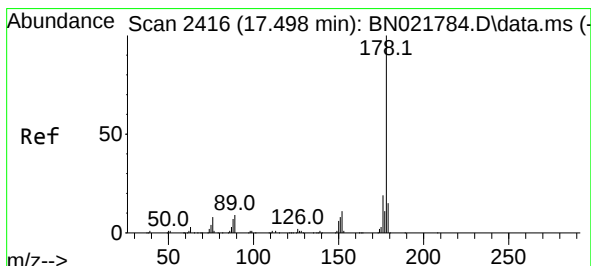
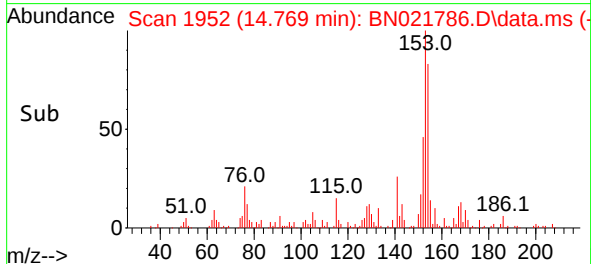
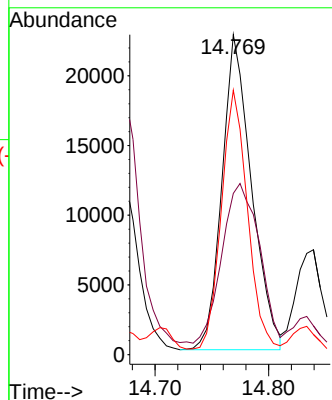
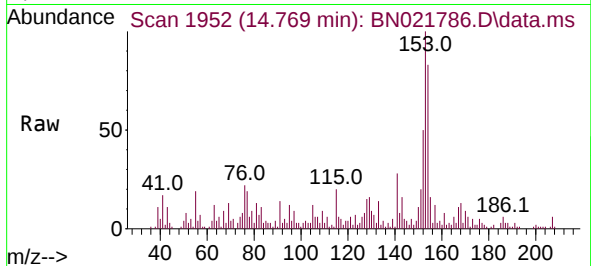
#52  
Acenaphthene  
Concen: 1.085 ng/u1  
RT: 14.769 min Scan# 1952  
Delta R.T. -0.000 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

Instrument :  
BNA\_N  
ClientSampleId :  
A5757

Tgt Ion:153 Resp: 40710  
Ion Ratio Lower Upper  
153 100  
152 50.4 38.4 57.6  
154 82.6 69.7 104.5

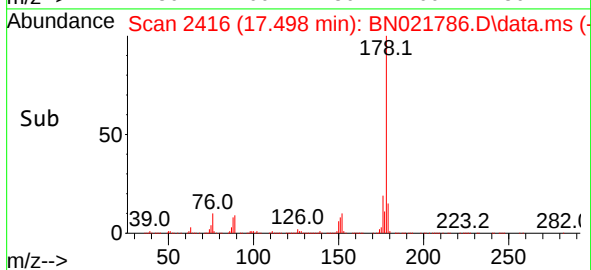
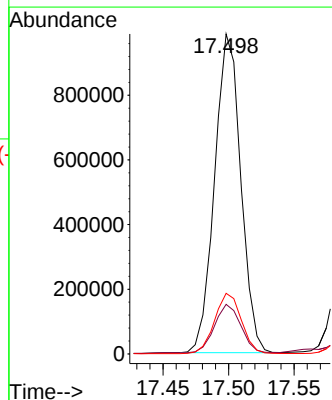
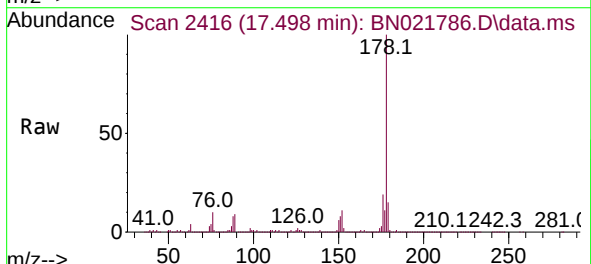
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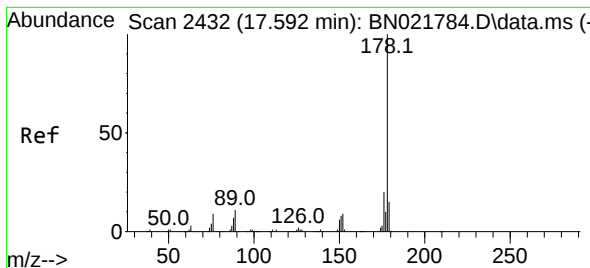
Reviewed By :Jagrut Upadhyay 09/19/2022  
Supervised By :mohammad ahmed 09/19/2022



#72  
Phenanthrene  
Concen: 21.775 ng/u1  
RT: 17.498 min Scan# 2416  
Delta R.T. -0.000 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

Tgt Ion:178 Resp: 1371407  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.2 18.4  
176 18.9 15.2 22.8





#74

Anthracene

Concen: 7.634 ng/ul

RT: 17.592 min Scan# 2432

Delta R.T. -0.000 min

Lab File: BN021786.D

Acq: 16 Sep 2022 13:27

Instrument :

BNA\_N

ClientSampleId :

A5757

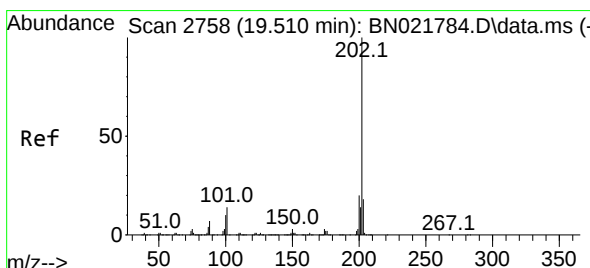
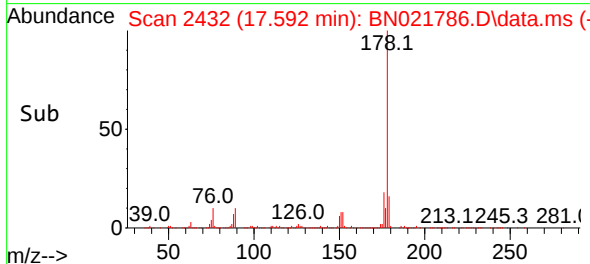
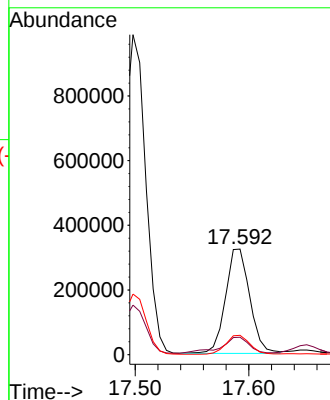
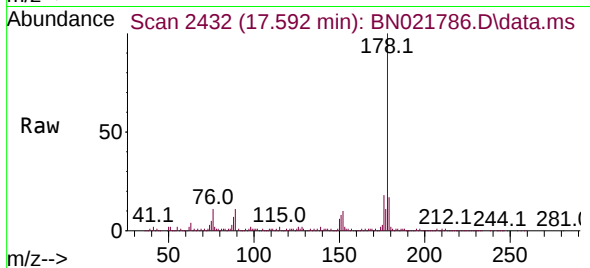
Tgt Ion:178 Resp: 478755

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.5  | 13.0  | 19.4  |
| 176 | 18.4  | 15.5  | 23.3  |

Manual Integrations

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#80

Fluoranthene

Concen: 54.748 ng/ul

RT: 19.516 min Scan# 2759

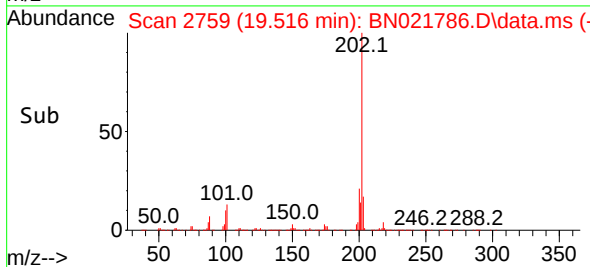
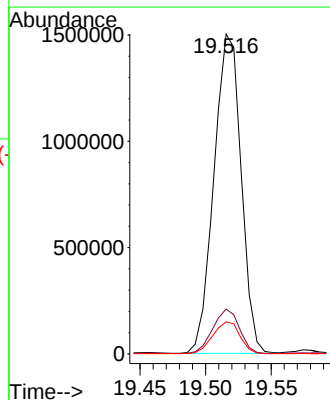
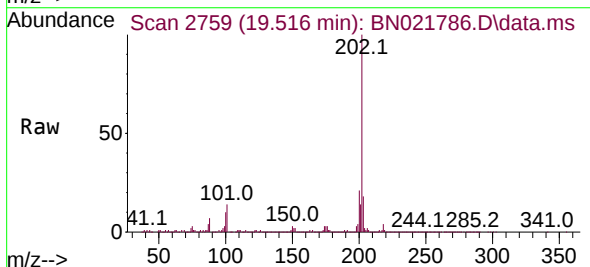
Delta R.T. 0.006 min

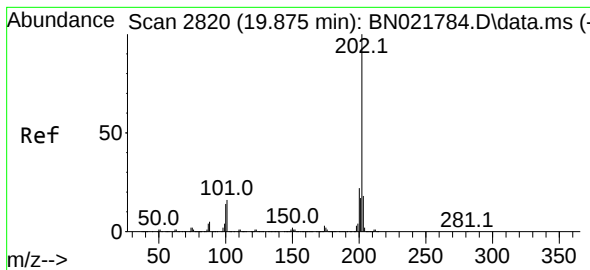
Lab File: BN021786.D

Acq: 16 Sep 2022 13:27

Tgt Ion:202 Resp: 2165249

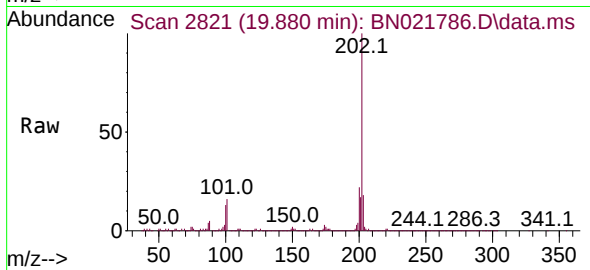
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 14.0  | 8.9   | 13.3  |
| 100 | 10.0  | 6.7   | 10.1  |





#82  
Pyrene  
Concen: 49.807 ng/ul  
RT: 19.880 min Scan# 2820  
Delta R.T. 0.006 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

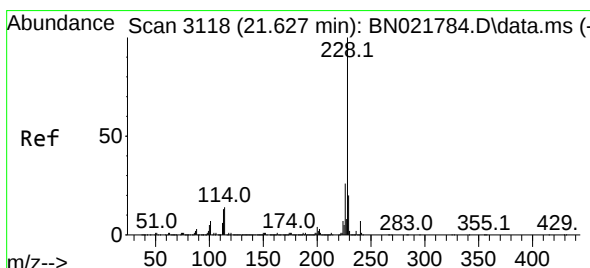
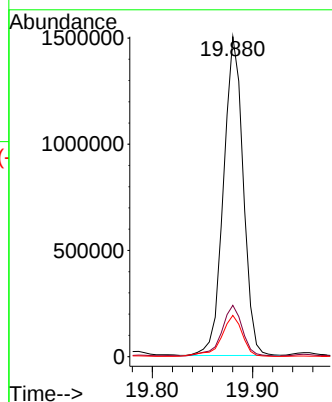
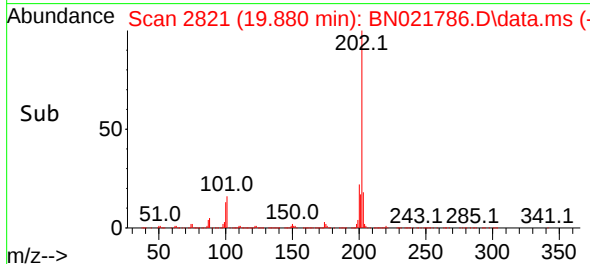
Instrument :  
BNA\_N  
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A5757



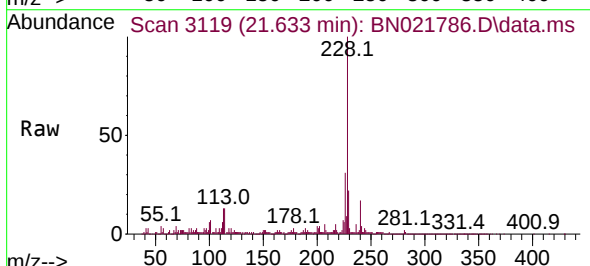
Tgt Ion:202 Resp: 2053058  
Ion Ratio Lower Upper  
202 100  
101 16.0 9.7 14.5  
100 12.9 8.0 12.0

Manual Integrations  
APPROVED

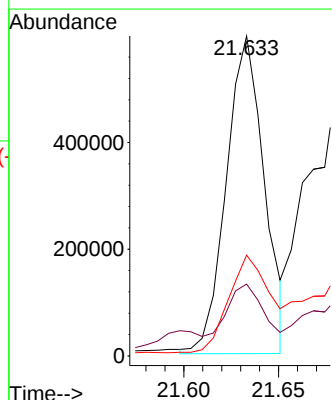
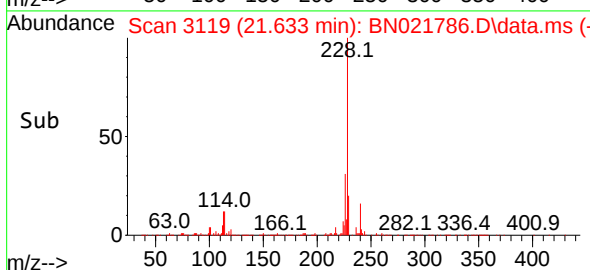
Reviewed By :Jagrut Upadhyay 09/19/2022  
Supervised By :mohammad ahmed 09/19/2022

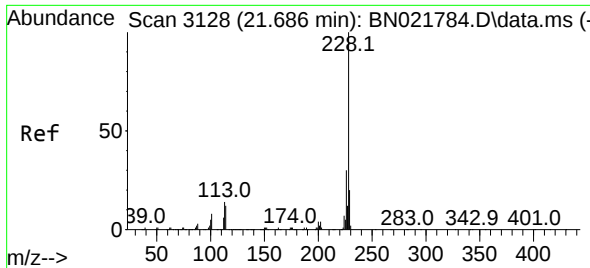


#85  
Benzo(a)anthracene  
Concen: 20.034 ng/ul  
RT: 21.633 min Scan# 3119  
Delta R.T. 0.006 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27



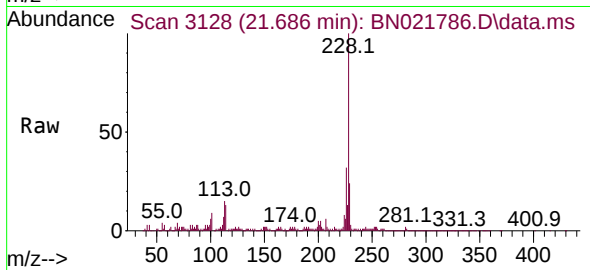
Tgt Ion:228 Resp: 831665  
Ion Ratio Lower Upper  
228 100  
229 22.4 16.3 24.5  
226 31.5 23.2 34.8





#87  
Chrysene  
Concen: 29.762 ng/ul m  
RT: 21.686 min Scan# 3128  
Delta R.T. -0.000 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

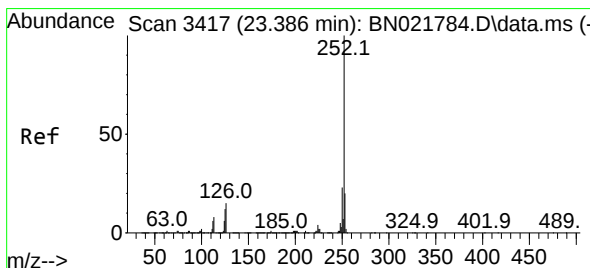
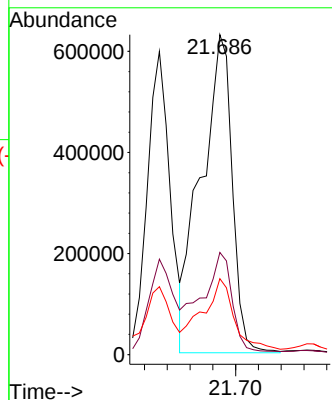
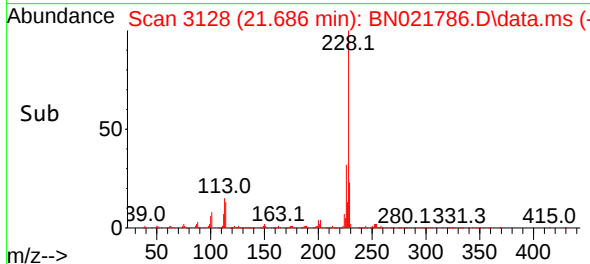
Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion:228 Resp: 1196221  
Ion Ratio Lower Upper  
228 100  
226 31.9 24.2 36.2  
229 23.7 16.2 24.2

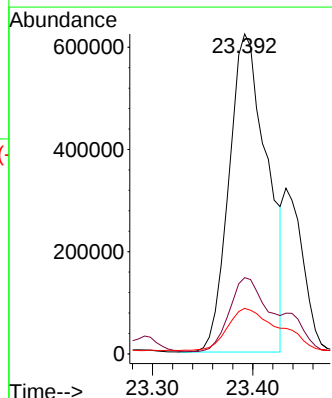
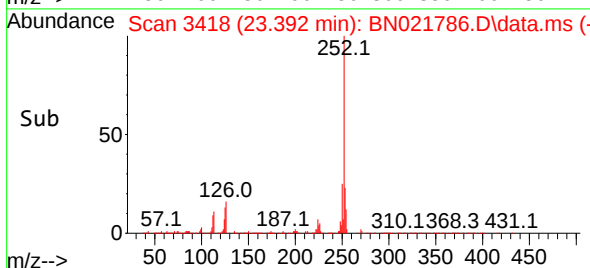
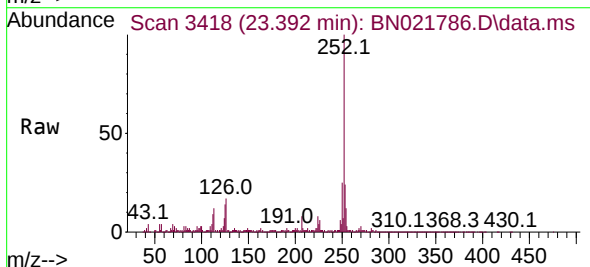
Manual Integrations  
APPROVED

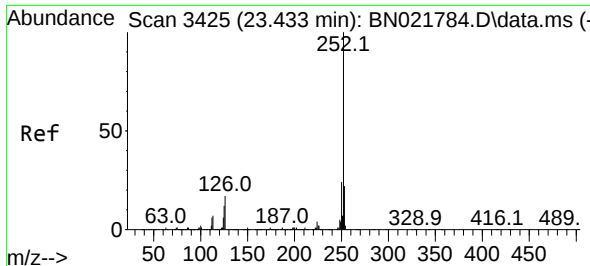
Reviewed By :Jagrut Upadhyay 09/19/2022  
Supervised By :mohammad ahmed 09/19/2022



#90  
Benzo(b)fluoranthene  
Concen: 40.301 ng/ul  
RT: 23.392 min Scan# 3418  
Delta R.T. 0.006 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

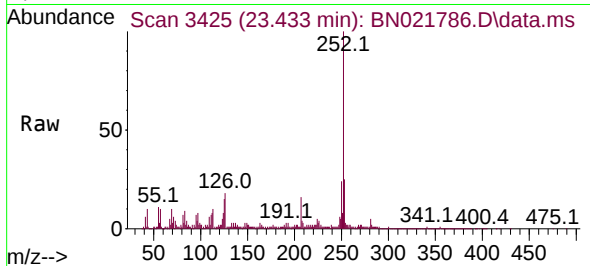
Tgt Ion:252 Resp: 1648513  
Ion Ratio Lower Upper  
252 100  
253 23.8 16.5 24.7  
125 14.2 7.8 11.8#





#91  
Benzo(k)fluoranthene  
Concen: 11.873 ng/ul m  
RT: 23.433 min Scan# 3425  
Delta R.T. -0.000 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

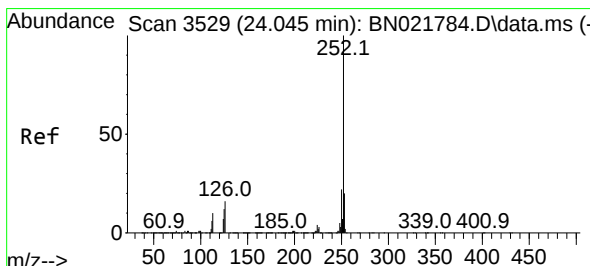
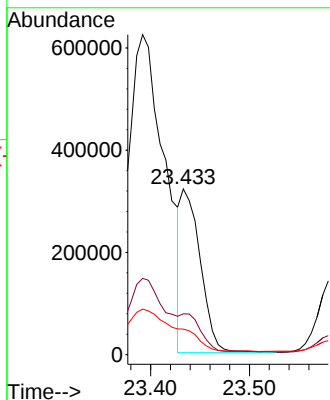
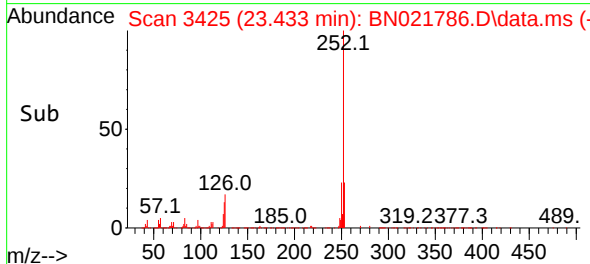
Instrument : BNA\_N  
ClientSampleId : A5757



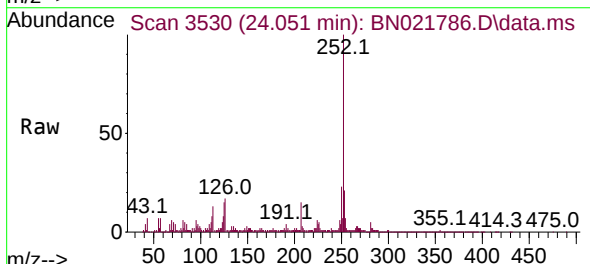
Tgt Ion:252 Resp: 434431  
Ion Ratio Lower Upper  
252 100  
253 24.6 18.2 27.4  
125 15.4 8.2 12.4

Manual Integrations  
APPROVED

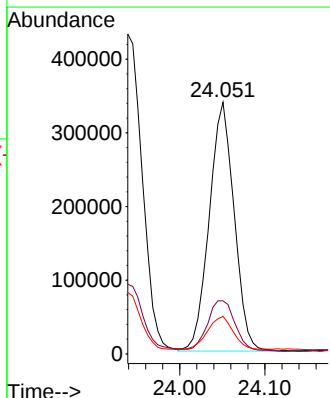
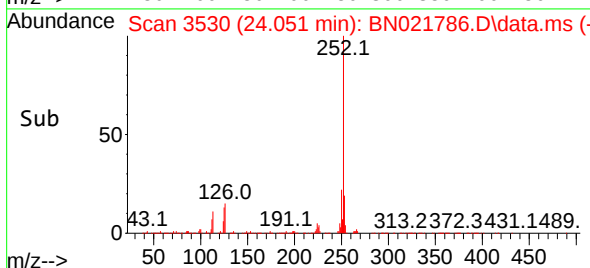
Reviewed By :Jagrut Upadhyay 09/19/2022  
Supervised By :mohammad ahmed 09/19/2022

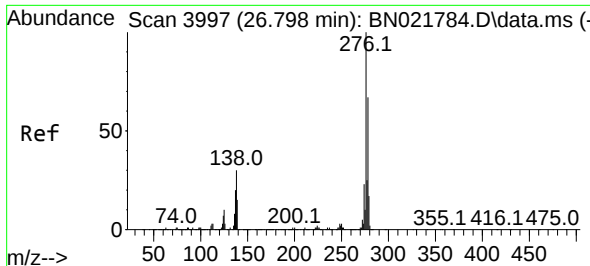


#93  
Benzo(a)pyrene  
Concen: 17.525 ng/ul  
RT: 24.051 min Scan# 3530  
Delta R.T. 0.006 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27



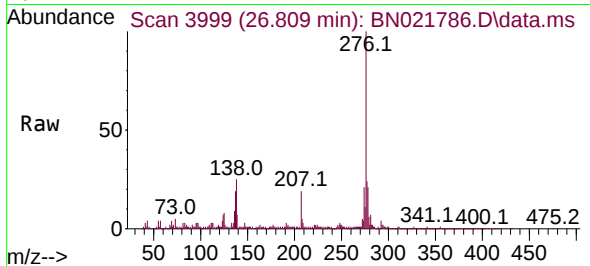
Tgt Ion:252 Resp: 685861  
Ion Ratio Lower Upper  
252 100  
253 21.1 18.7 28.1  
125 14.9 9.2 13.8





#94  
Indeno(1,2,3-cd)pyrene  
Concen: 16.654 ng/ul  
RT: 26.809 min Scan# 3999  
Delta R.T. 0.012 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

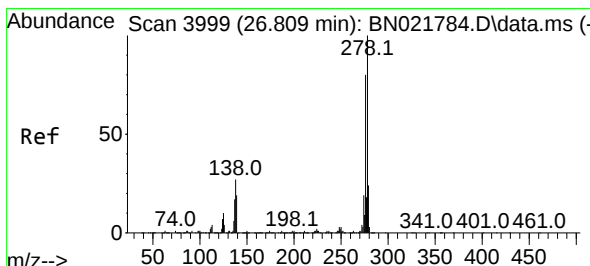
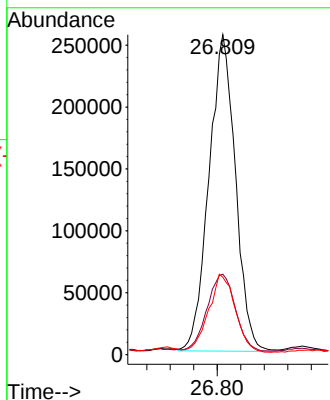
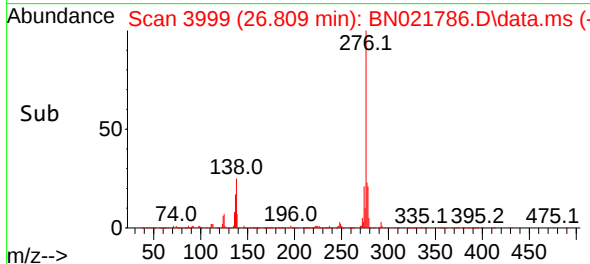
Instrument :  
BNA\_N  
ClientSampleId :  
A5757



Tgt Ion:276 Resp: 800184  
Ion Ratio Lower Upper  
276 100  
138 25.1 19.5 29.3  
277 24.2 21.4 32.0

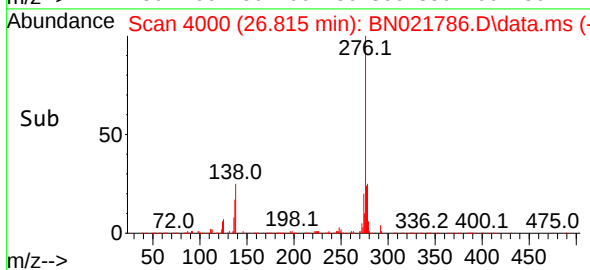
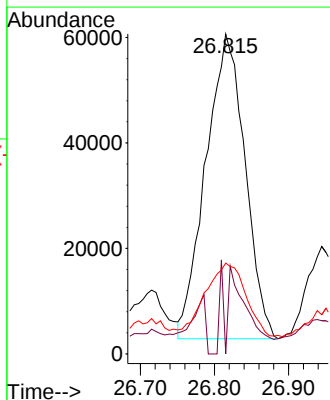
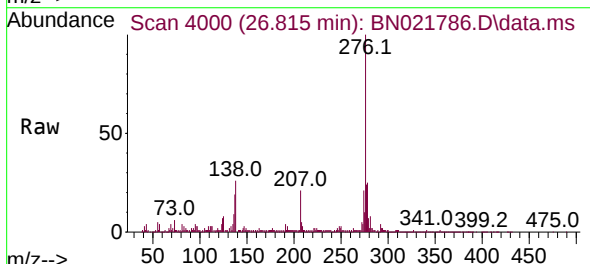
Manual Integrations  
APPROVED

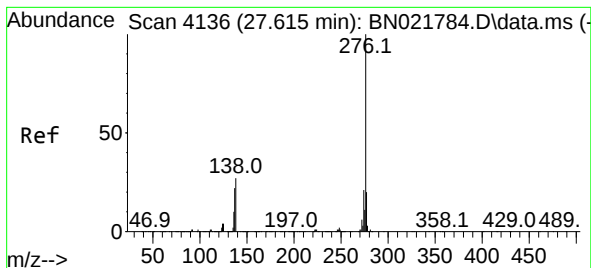
Reviewed By :Jagrut Upadhyay 09/19/2022  
Supervised By :mohammad ahmed 09/19/2022



#95  
Dibenzo(a,h)anthracene  
Concen: 5.241 ng/ul  
RT: 26.815 min Scan# 4000  
Delta R.T. 0.006 min  
Lab File: BN021786.D  
Acq: 16 Sep 2022 13:27

Tgt Ion:278 Resp: 212514  
Ion Ratio Lower Upper  
278 100  
139 0.0 13.8 20.8#  
279 28.4 18.3 27.5#





#96

Benzo(g,h,i)perylene

Concen: 15.056 ng/ul

RT: 27.627 min Scan# 4138

Delta R.T. 0.012 min

Lab File: BN021786.D

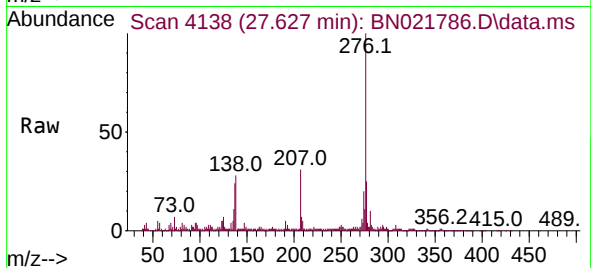
Acq: 16 Sep 2022 13:27

Instrument :

BNA\_N

ClientSampleId :

A5757



Tgt Ion:276 Resp: 631269

Ion Ratio Lower Upper

276 100

138 27.9 17.0 25.6

277 25.0 17.8 26.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/19/2022

Supervised By :mohammad ahmed 09/19/2022

