

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062424\  
 Data File : BN032209.D  
 Acq On : 24 Jun 2024 15:43  
 Operator : MA/JU  
 Sample : P2775-24DL 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4D56DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/25/2024  
 Supervised By :Jagrut Upadhyay 06/25/2024

Quant Time: Jun 25 00:37:06 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 20 10:49:40 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| -----                         |        |      |          |         |        |          |
| Internal Standards            |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.628  | 152  | 250247   | 20.000  | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.404 | 136  | 972592   | 20.000  | ng/u1  | -0.01    |
| 38) Acenaphthene-d10          | 14.275 | 164  | 580397   | 20.000  | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.028 | 188  | 1150468  | 20.000  | ng/u1  | # 0.00   |
| 79) Chrysene-d12              | 21.269 | 240  | 990637   | 20.000  | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.186 | 264  | 1270045  | 20.000  | ng/u1  | 0.00     |
|                               |        |      |          |         |        |          |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 3) 1,4-Dioxane-d8             | 3.170  | 96   | 2902     | 0.480   | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.587  | 84   | 17729    | 1.041   | ng/u1  | 0.02     |
| 7) Phenol-d5                  | 6.816  | 99   | 51866    | 2.418   | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.975  | 67   | 28428    | 2.265   | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.169  | 132  | 45554    | 2.783   | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.346  | 113  | 41698    | 2.384   | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.793  | 128  | 20428    | 2.747   | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.504  | 143  | 20312    | 2.644   | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.046 | 165  | 39046    | 2.723   | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.563 | 131  | 40093m   | 1.883   | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.692 | 166  | 122706   | 3.035   | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.969 | 160  | 138654   | 2.982   | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.528 | 143  | 14349m   | 1.772   | ng/u1  | 0.02     |
| 60) Fluorene-d10              | 15.275 | 176  | 109156   | 3.191   | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.422 | 200  | 7366     | 1.274   | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.128 | 188  | 167304   | 3.397   | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.433 | 212  | 161907   | 3.054   | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.986 | 264  | 138163   | 2.278   | ng/u1  | 0.00     |
|                               |        |      |          |         |        |          |
| Target Compounds              |        |      |          |         |        | Qvalue   |
| 30) Naphthalene               | 10.457 | 128  | 838681   | 16.662  | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.075 | 142  | 309036   | 8.982   | ng/u1  | 98       |
| 37) 1-Methylnaphthalene       | 12.298 | 142  | 200445   | 5.806   | ng/u1  | 95       |
| 43) 1,1'-Biphenyl             | 13.104 | 154  | 81963    | 2.008   | ng/u1  | 97       |
| 52) Acenaphthene              | 14.340 | 153  | 999252   | 28.742  | ng/u1  | 99       |
| 56) Dibenzofuran              | 14.675 | 168  | 995399   | 21.074  | ng/u1  | 97       |
| 61) Fluorene                  | 15.328 | 166  | 1180022  | 31.023  | ng/u1  | 97       |
| 72) Phenanthrene              | 17.075 | 178  | 9055897  | 154.521 | ng/u1  | 99       |
| 74) Anthracene                | 17.163 | 178  | 3012384  | 50.727  | ng/u1  | 98       |
| 77) Carbazole                 | 17.439 | 167  | 1215562  | 24.006  | ng/u1  | 98       |
| 80) Fluoranthene              | 19.104 | 202  | 8522333  | 134.520 | ng/u1  | 96       |
| 82) Pyrene                    | 19.463 | 202  | 6636270  | 102.096 | ng/u1  | 95       |
| 85) Benzo(a)anthracene        | 21.251 | 228  | 4517637  | 68.131  | ng/u1  | 99       |
| 87) Chrysene                  | 21.310 | 228  | 3899277  | 62.957  | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.268 | 252  | 4597827  | 60.567  | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 23.321 | 252  | 1887682m | 25.341  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.045 | 252  | 2085405  | 29.331  | ng/u1  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.456 | 276  | 1543255  | 18.836  | ng/u1  | 96       |
| 95) Dibenzo(a,h)anthracene    | 27.498 | 278  | 592820   | 8.863   | ng/u1# | 93       |
| 96) Benzo(g,h,i)perylene      | 28.480 | 276  | 180055   | 2.765   | ng/u1# | 92       |
| -----                         |        |      |          |         |        |          |

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

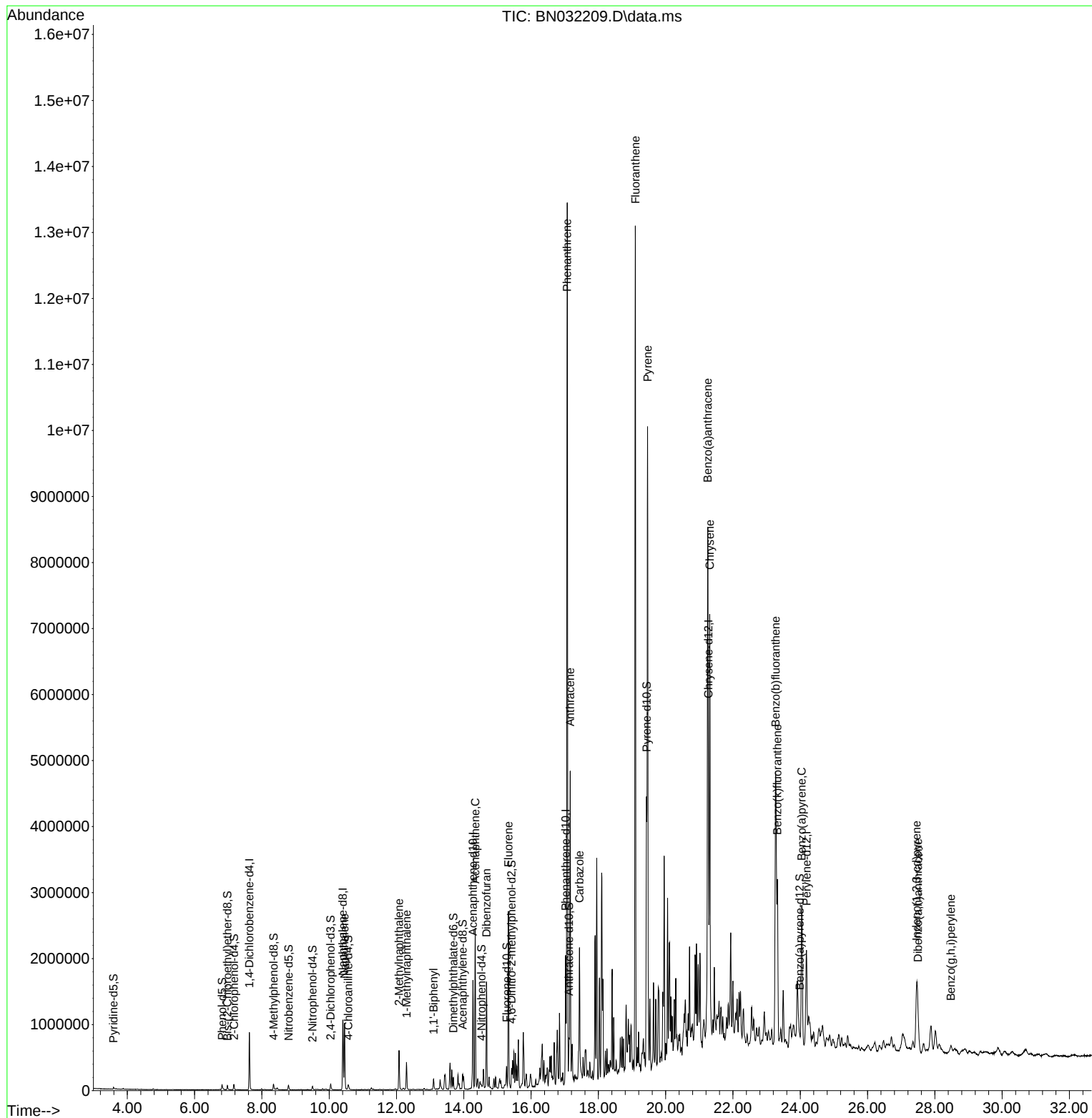
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062424\  
Data File : BN032209.D  
Acq On : 24 Jun 2024 15:43  
Operator : MA/JU  
Sample : P2775-24DL 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

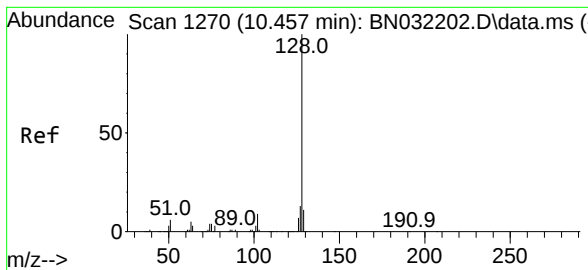
Instrument :  
BNA\_N  
ClientSampleId :  
A4D56DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/25/2024  
Supervised By :Jagrut Upadhyay 06/25/2024

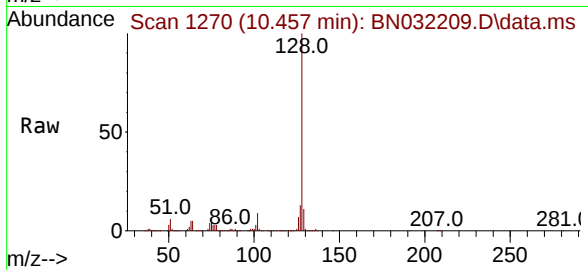
Quant Time: Jun 25 00:37:06 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 20 10:49:40 2024  
Response via : Initial Calibration





#30  
Naphthalene  
Concen: 16.662 ng/ul  
RT: 10.457 min Scan# 1270  
Delta R.T. -0.012 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

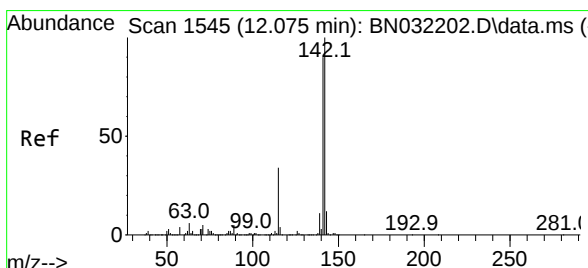
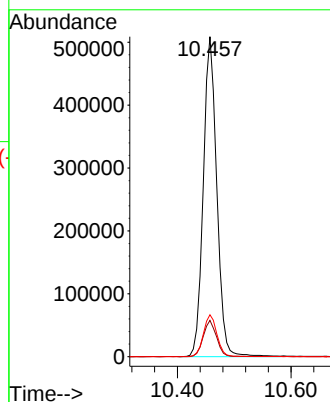
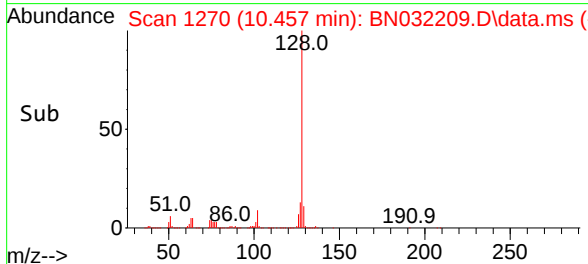
Instrument :  
BNA\_N  
ClientSampleId :  
A4D56DL



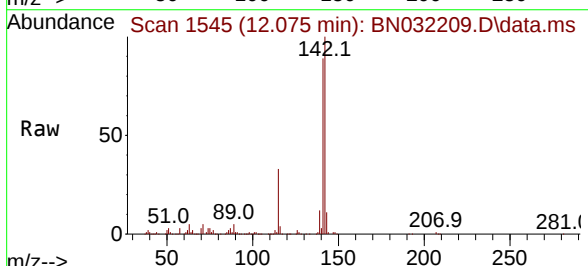
Tgt Ion:128 Resp: 83868  
Ion Ratio Lower Upper  
128 100  
129 11.3 8.5 12.7  
127 13.1 10.3 15.5

Manual Integrations  
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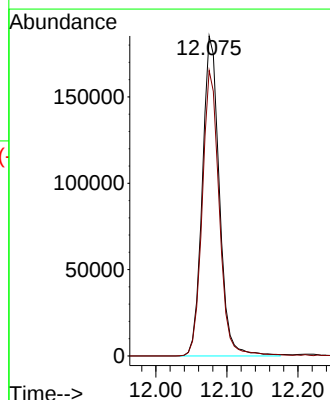
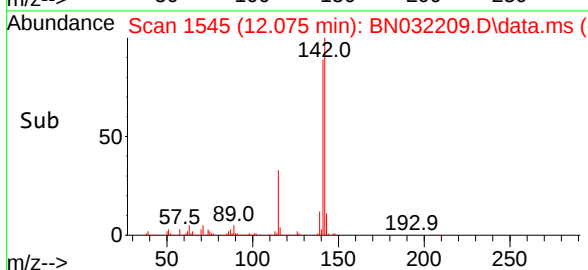
Reviewed By :Yogesh Patel 06/25/2024  
Supervised By :Jagrut Upadhyay 06/25/2024

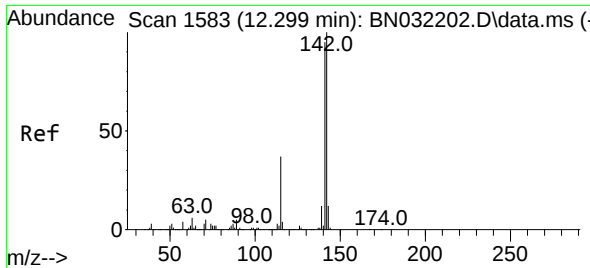


#36  
2-Methylnaphthalene  
Concen: 8.982 ng/ul  
RT: 12.075 min Scan# 1545  
Delta R.T. -0.012 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43



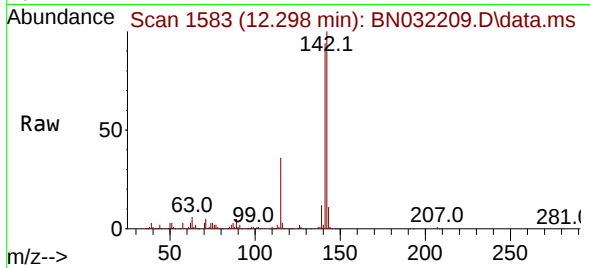
Tgt Ion:142 Resp: 309036  
Ion Ratio Lower Upper  
142 100  
141 89.2 70.1 105.1





#37  
1-Methylnaphthalene  
Concen: 5.806 ng/ul  
RT: 12.298 min Scan# 1583  
Delta R.T. -0.006 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

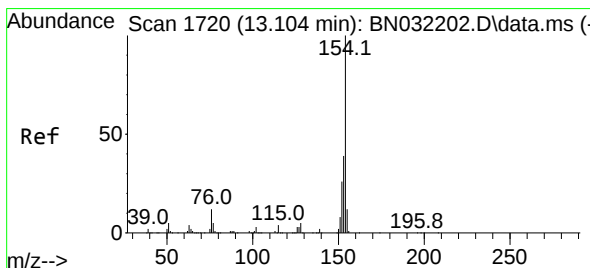
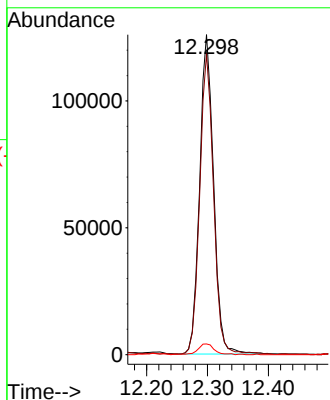
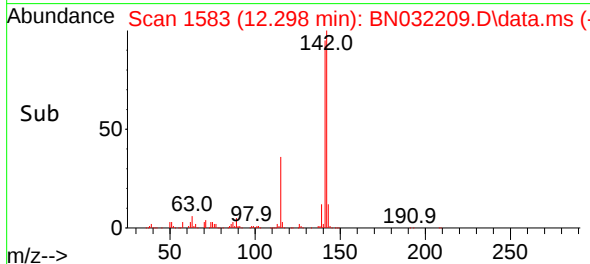
Instrument :  
BNA\_N  
ClientSampleId :  
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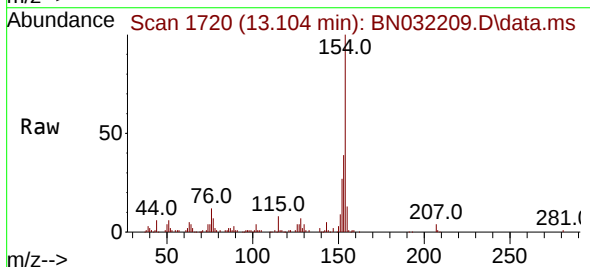
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Ion Ratio Lower Upper  
142 100  
141 94.1 71.7 107.5  
116 3.4 3.0 4.4

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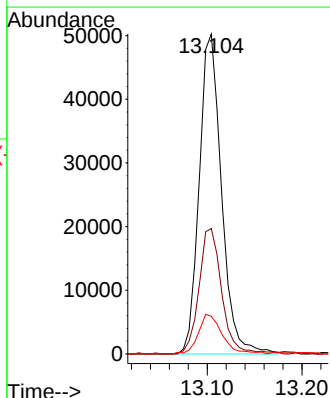
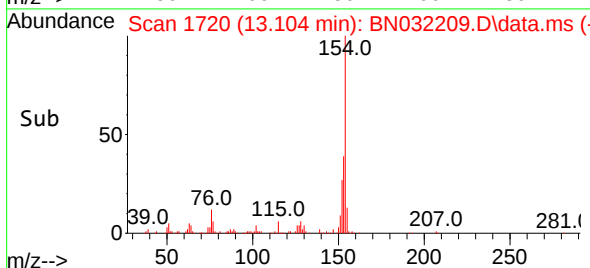
Reviewed By :Yogesh Patel 06/25/2024  
Supervised By :Jagrut Upadhyay 06/25/2024

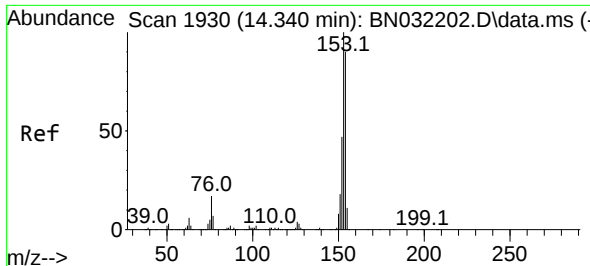


#43  
1,1'-Biphenyl  
Concen: 2.008 ng/ul  
RT: 13.104 min Scan# 1720  
Delta R.T. -0.006 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43



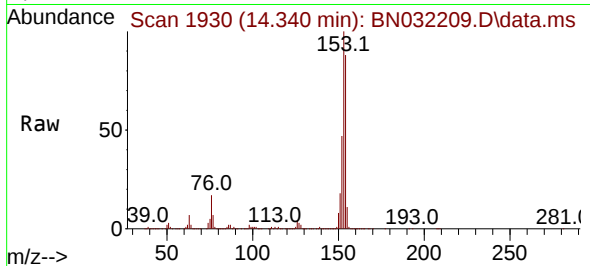
Tgt Ion:154 Resp: 81963  
Ion Ratio Lower Upper  
154 100  
153 39.2 30.6 46.0  
76 11.8 11.1 16.7





#52  
Acenaphthene  
Concen: 28.742 ng/u1  
RT: 14.340 min Scan# 1930  
Delta R.T. -0.006 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

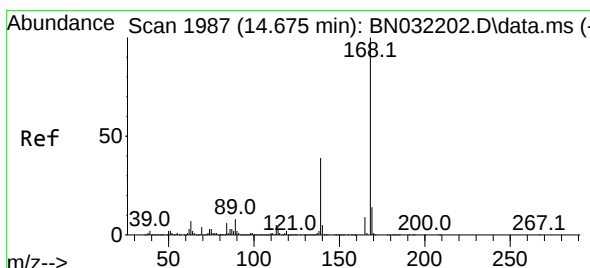
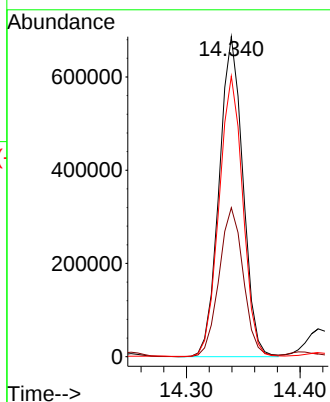
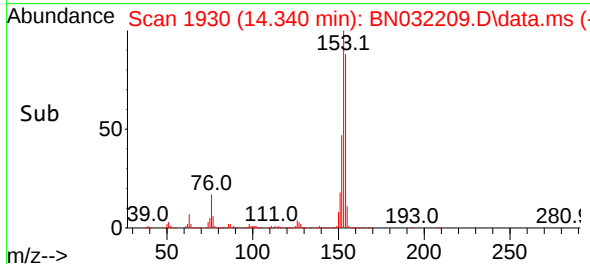
Instrument :  
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ClientSampleId :  
A4D56DL



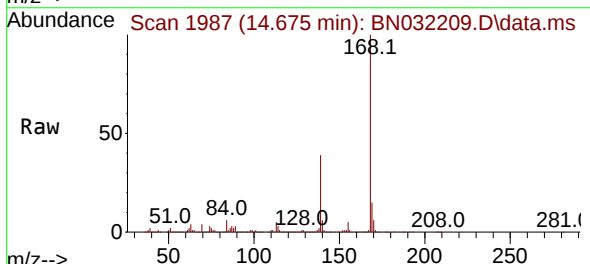
Tgt Ion:153 Resp: 999252  
Ion Ratio Lower Upper  
153 100  
152 46.6 37.8 56.6  
154 87.7 69.8 104.8

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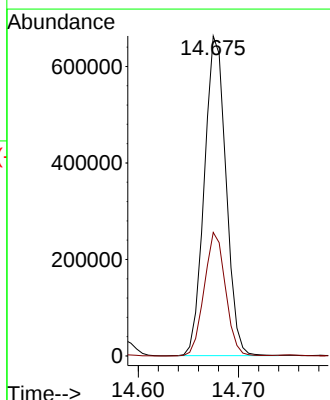
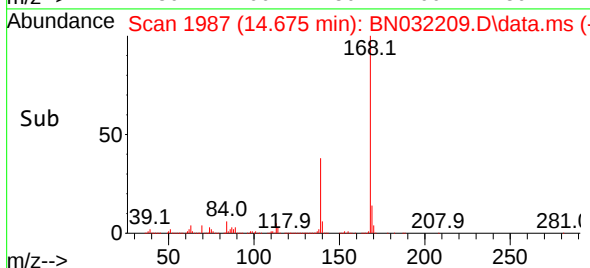
Reviewed By :Yogesh Patel 06/25/2024  
Supervised By :Jagrut Upadhyay 06/25/2024

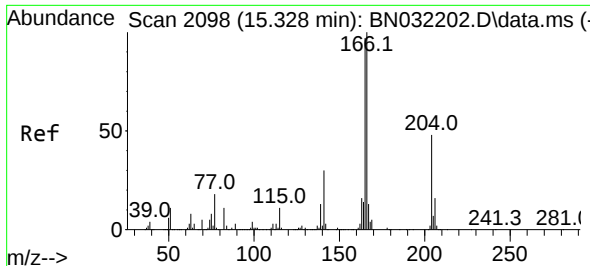


#56  
Dibenzofuran  
Concen: 21.074 ng/u1  
RT: 14.675 min Scan# 1987  
Delta R.T. -0.006 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43



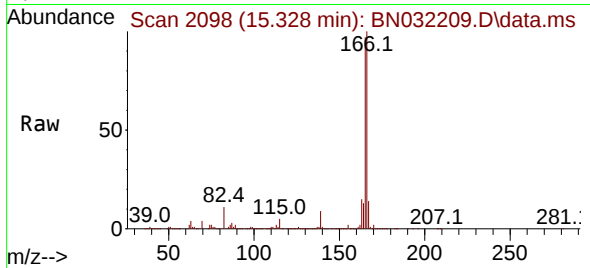
Tgt Ion:168 Resp: 995399  
Ion Ratio Lower Upper  
168 100  
139 38.6 29.4 44.0





#61  
Fluorene  
Concen: 31.023 ng/u1  
RT: 15.328 min Scan# 2098  
Delta R.T. -0.006 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

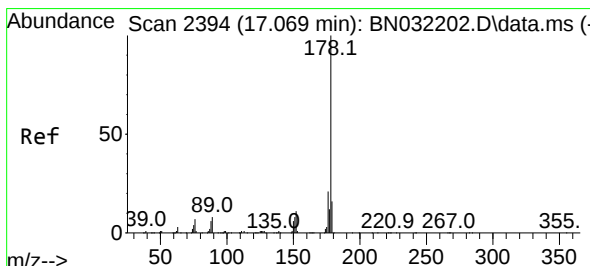
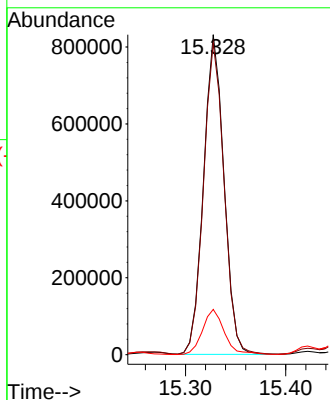
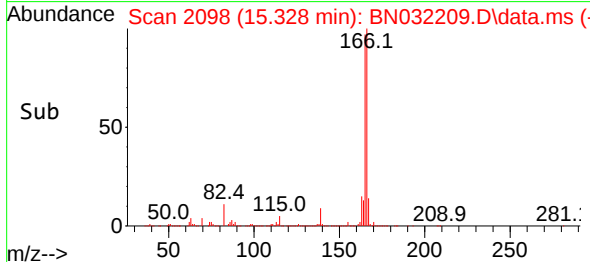
Instrument :  
BNA\_N  
ClientSampleId :  
A4D56DL



Tgt Ion:166 Resp: 118002  
Ion Ratio Lower Upper  
166 100  
165 97.4 80.3 120.5  
167 14.1 11.3 16.9

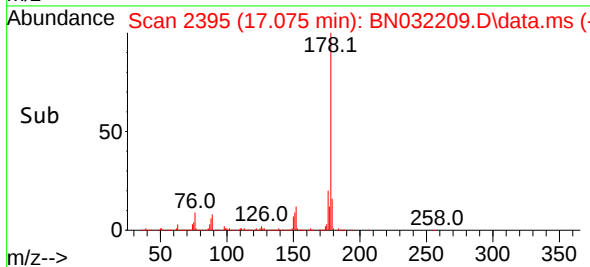
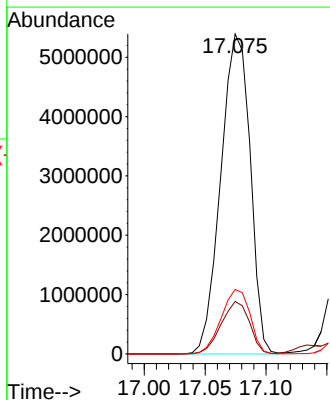
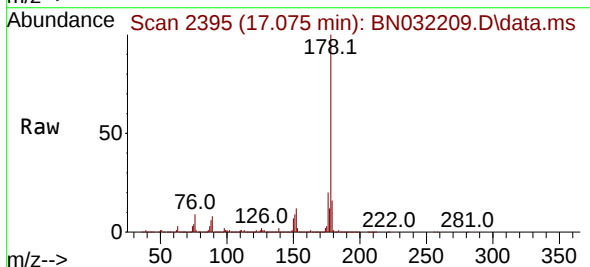
Manual Integrations  
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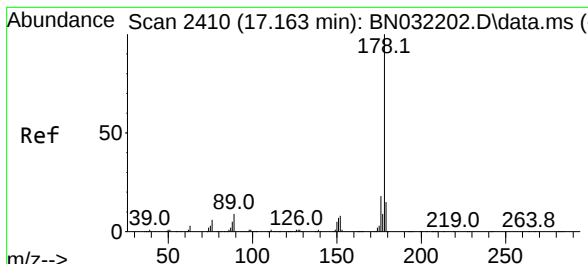
Reviewed By :Yogesh Patel 06/25/2024  
Supervised By :Jagrut Upadhyay 06/25/2024



#72  
Phenanthrene  
Concen: 154.521 ng/u1  
RT: 17.075 min Scan# 2395  
Delta R.T. 0.000 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

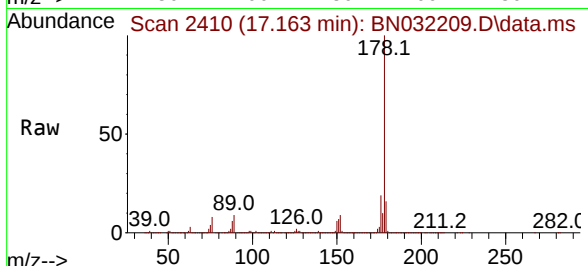
Tgt Ion:178 Resp: 9055897  
Ion Ratio Lower Upper  
178 100  
179 16.4 12.6 19.0  
176 20.2 15.8 23.6





#74  
 Anthracene  
 Concen: 50.727 ng/u1  
 RT: 17.163 min Scan# 2410  
 Delta R.T. 0.000 min  
 Lab File: BN032209.D  
 Acq: 24 Jun 2024 15:43

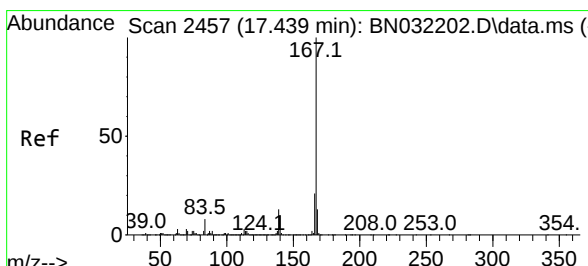
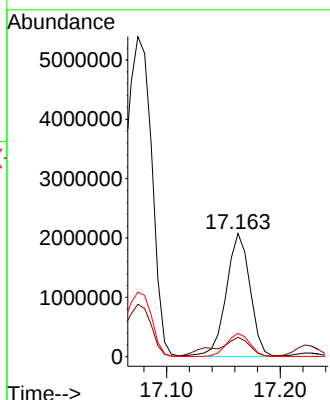
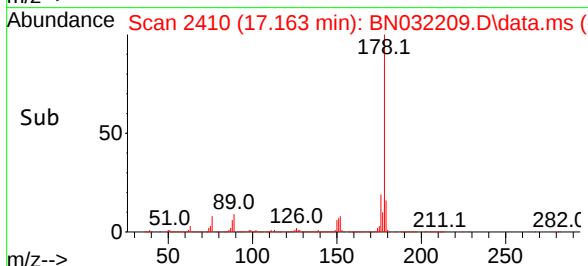
Instrument :  
 BNA\_N  
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 A4D56DL



Tgt Ion:178 Resp: 3012384  
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 176 19.0 14.8 22.2

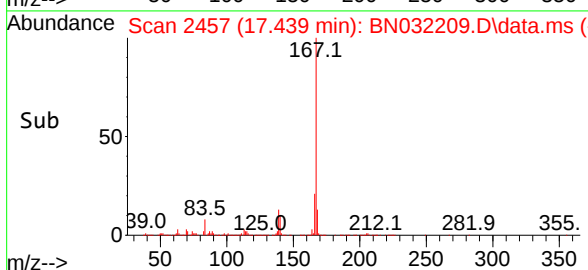
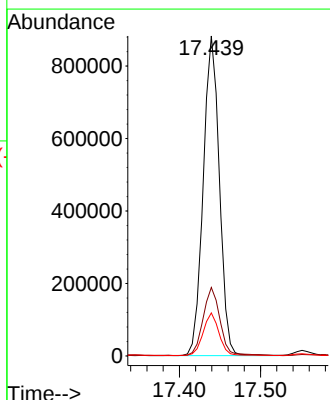
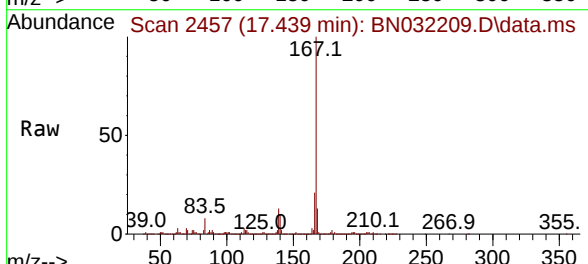
Manual Integrations  
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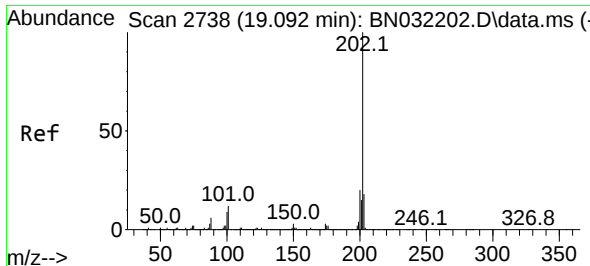
Reviewed By :Yogesh Patel 06/25/2024  
 Supervised By :Jagrut Upadhyay 06/25/2024



#77  
 Carbazole  
 Concen: 24.006 ng/u1  
 RT: 17.439 min Scan# 2457  
 Delta R.T. 0.000 min  
 Lab File: BN032209.D  
 Acq: 24 Jun 2024 15:43

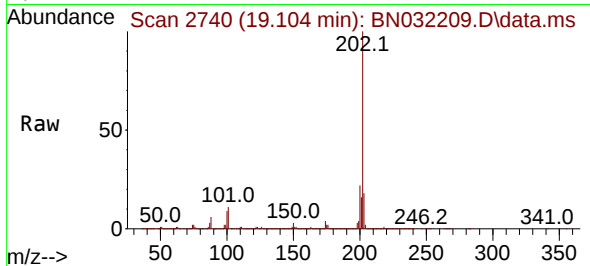
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 139 13.5 10.5 15.7





#80  
Fluoranthene  
Concen: 134.520 ng/u1  
RT: 19.104 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

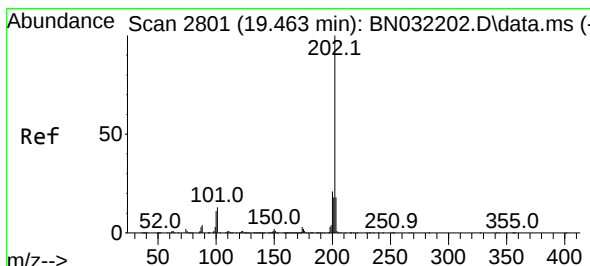
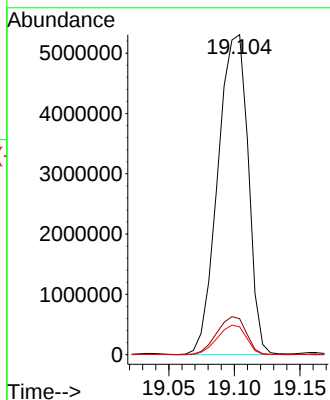
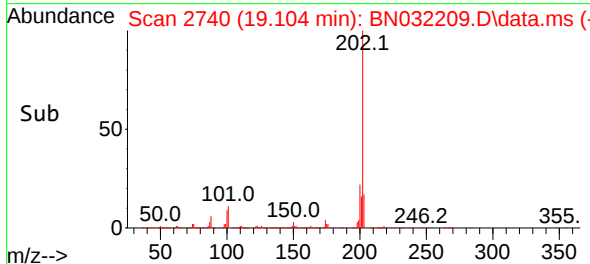
Instrument :  
BNA\_N  
ClientSampleId :  
A4D56DL



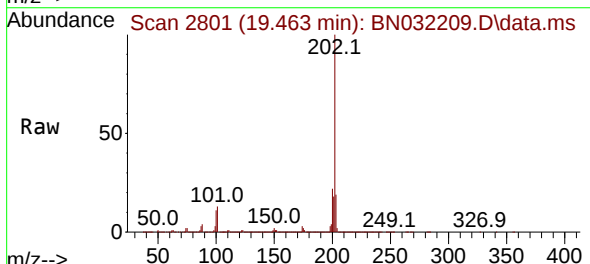
Tgt Ion:202 Resp: 852233  
Ion Ratio Lower Upper  
202 100  
101 11.2 10.3 15.5  
100 8.7 8.0 12.0

Manual Integrations  
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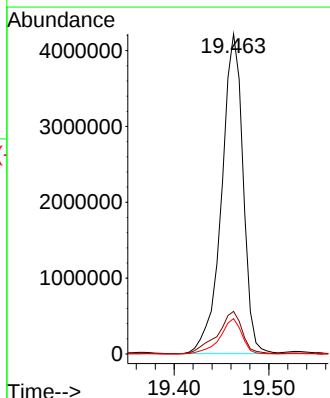
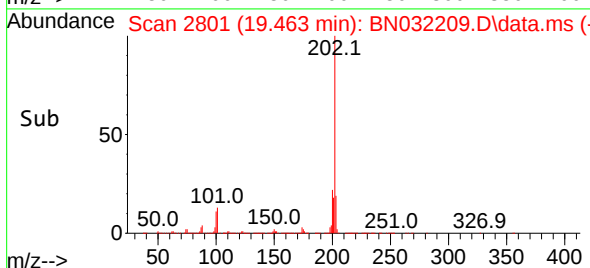
Reviewed By :Yogesh Patel 06/25/2024  
Supervised By :Jagrut Upadhyay 06/25/2024

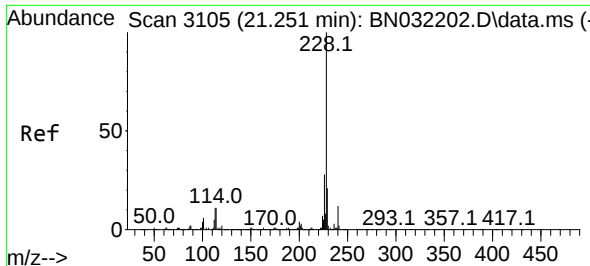


#82  
Pyrene  
Concen: 102.096 ng/u1  
RT: 19.463 min Scan# 2801  
Delta R.T. 0.000 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43



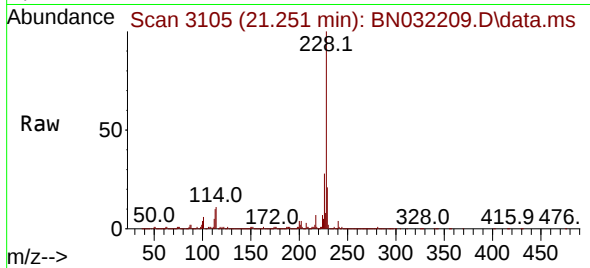
Tgt Ion:202 Resp: 6636270  
Ion Ratio Lower Upper  
202 100  
101 13.3 12.6 18.8  
100 11.1 10.2 15.2





#85  
Benzo(a)anthracene  
Concen: 68.131 ng/uI  
RT: 21.251 min Scan# 3105  
Delta R.T. 0.000 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

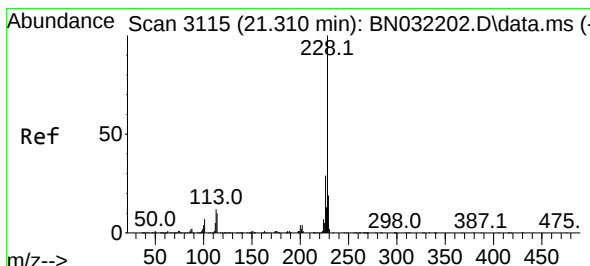
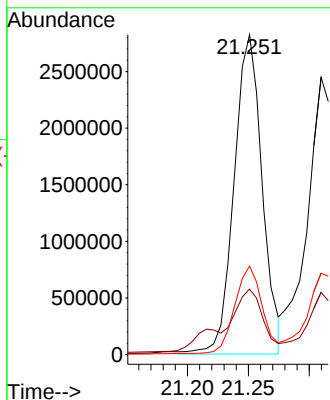
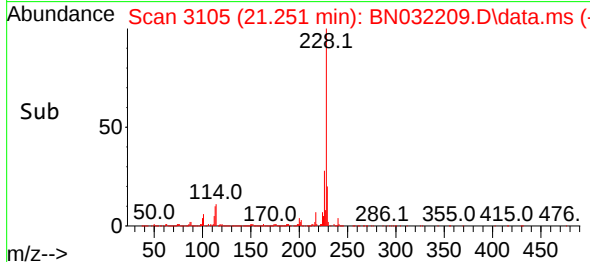
Instrument :  
BNA\_N  
ClientSampleId :  
A4D56DL



Tgt Ion:228 Resp: 451763  
Ion Ratio Lower Upper  
228 100  
229 20.5 16.7 25.1  
226 27.7 22.8 34.2

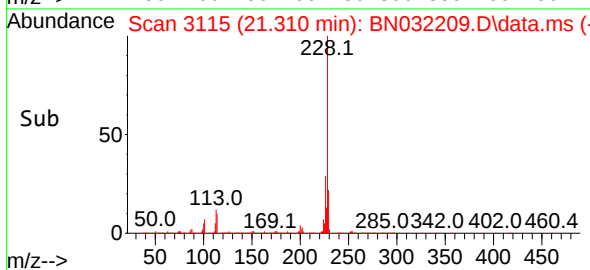
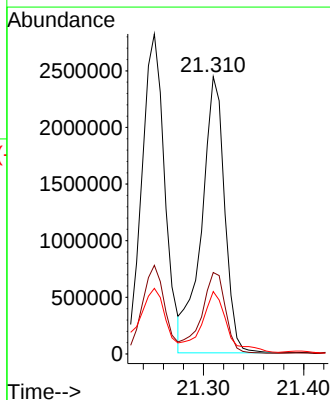
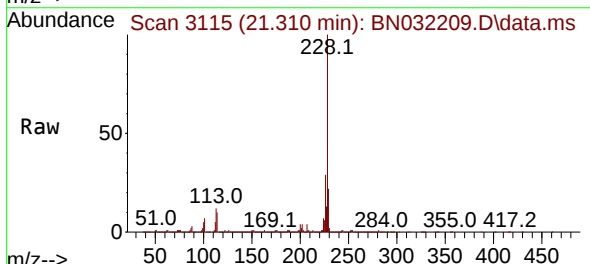
Manual Integrations  
APPROVED

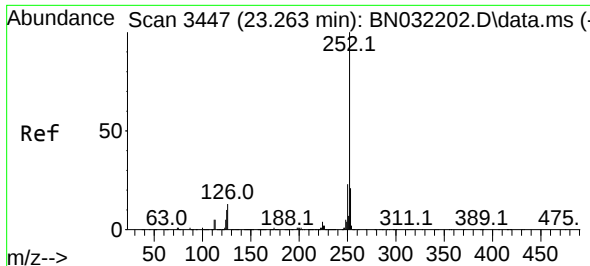
Reviewed By :Yogesh Patel 06/25/2024  
Supervised By :Jagrut Upadhyay 06/25/2024



#87  
Chrysene  
Concen: 62.957 ng/uI  
RT: 21.310 min Scan# 3115  
Delta R.T. 0.000 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

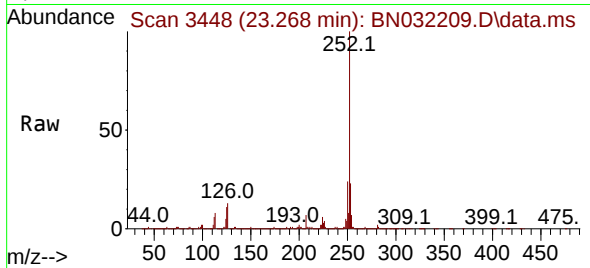
Tgt Ion:228 Resp: 3899277  
Ion Ratio Lower Upper  
228 100  
226 29.4 23.7 35.5  
229 22.5 15.1 22.7





#90  
Benzo(b)fluoranthene  
Concen: 60.567 ng/ul  
RT: 23.268 min Scan# 3447  
Delta R.T. 0.006 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

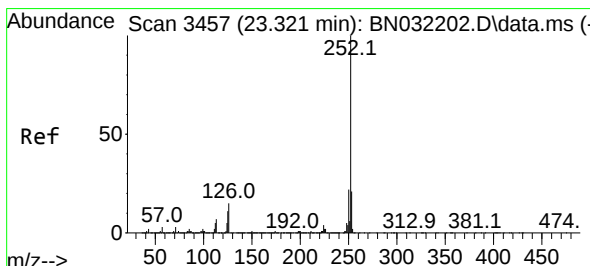
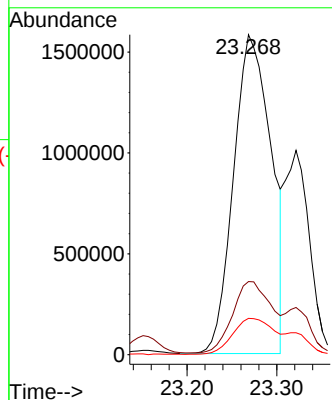
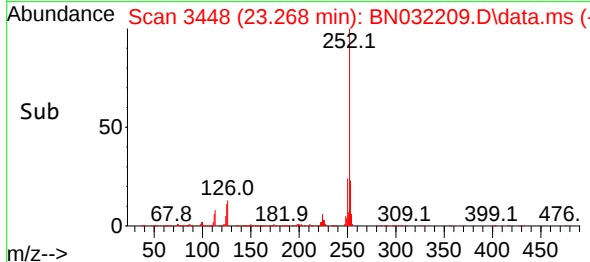
Instrument :  
BNA\_N  
ClientSampleId :  
A4D56DL



Tgt Ion:252 Resp: 459782  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.0 25.6  
125 11.4 9.2 13.8

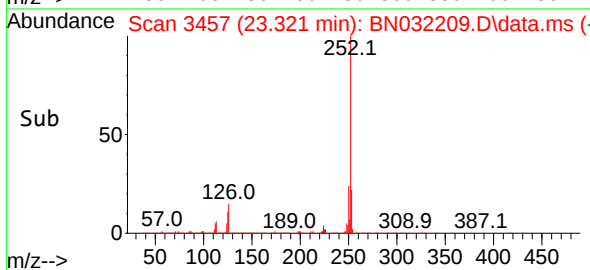
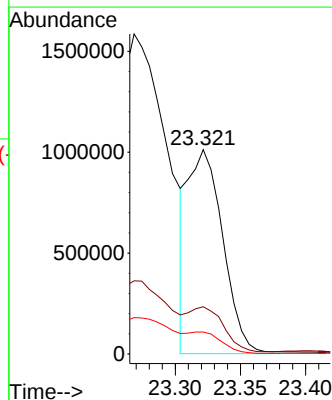
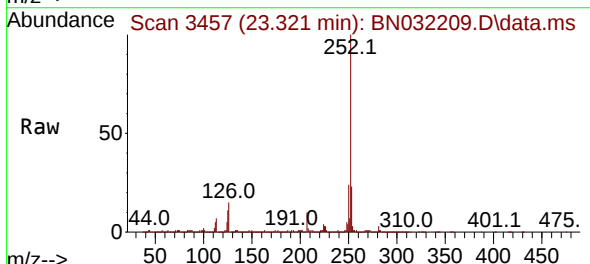
Manual Integrations  
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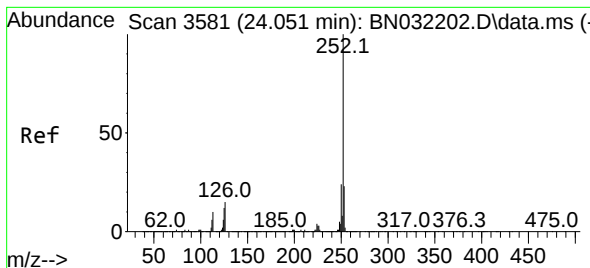
Reviewed By :Yogesh Patel 06/25/2024  
Supervised By :Jagrut Upadhyay 06/25/2024



#91  
Benzo(k)fluoranthene  
Concen: 25.341 ng/ul m  
RT: 23.321 min Scan# 3457  
Delta R.T. 0.000 min  
Lab File: BN032209.D  
Acq: 24 Jun 2024 15:43

Tgt Ion:252 Resp: 1887682  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.6 26.4  
125 10.7 9.4 14.2





#93

Benzo(a)pyrene

Concen: 29.331 ng/ul

RT: 24.045 min Scan# 3581

Delta R.T. 0.006 min

Lab File: BN032209.D

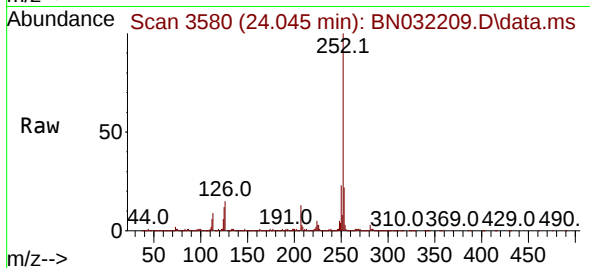
Acq: 24 Jun 2024 15:43

Instrument :

BNA\_N

ClientSampleId :

A4D56DL



Tgt Ion:252 Resp: 208540

Ion Ratio Lower Upper

252 100

253 21.8 16.6 24.8

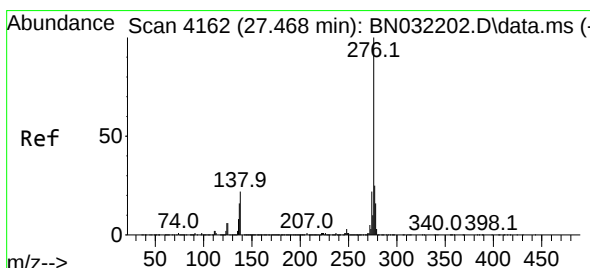
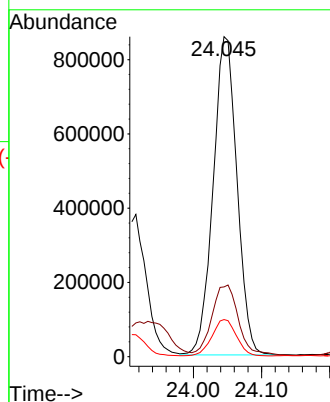
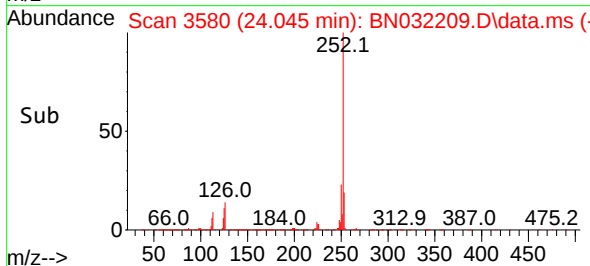
125 11.6 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/25/2024

Supervised By :Jagrut Upadhyay 06/25/2024



#94

Indeno(1,2,3-cd)pyrene

Concen: 18.836 ng/ul

RT: 27.456 min Scan# 4160

Delta R.T. 0.012 min

Lab File: BN032209.D

Acq: 24 Jun 2024 15:43

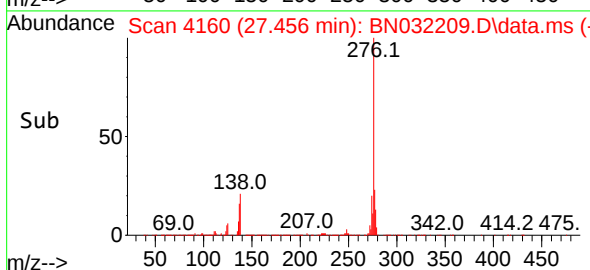
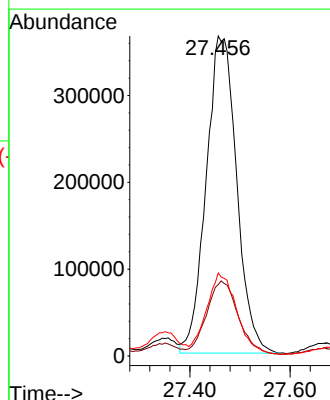
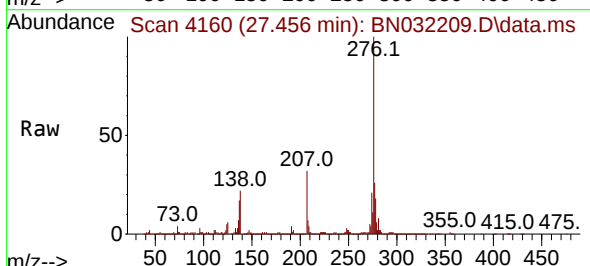
Tgt Ion:276 Resp: 1543255

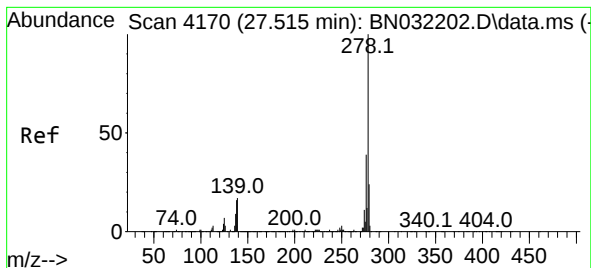
Ion Ratio Lower Upper

276 100

138 22.3 18.1 27.1

277 26.0 18.2 27.2





#95

Dibenzo(a,h)anthracene

Concen: 8.863 ng/ul

RT: 27.498 min Scan# 4167

Delta R.T. -0.006 min

Lab File: BN032209.D

Acq: 24 Jun 2024 15:43

Instrument :

BNA\_N

ClientSampleId :

A4D56DL

Tgt Ion:278 Resp: 592820

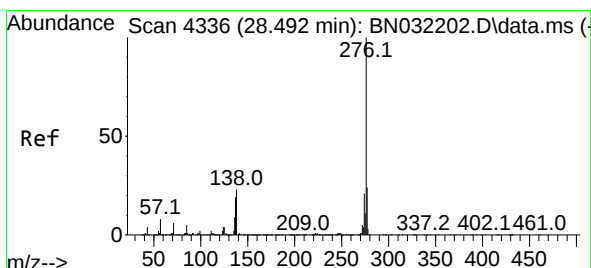
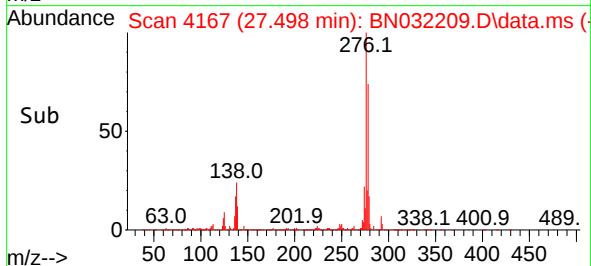
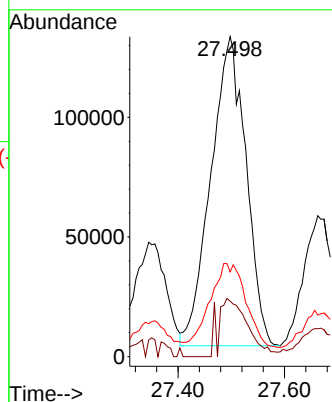
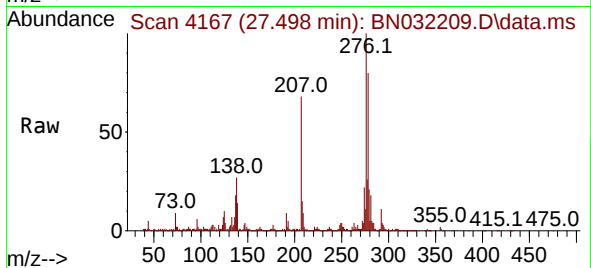
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 17.4  | 15.0  | 22.6  |
| 279 | 26.5  | 17.4  | 26.0  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/25/2024

Supervised By :Jagrut Upadhyay 06/25/2024



#96

Benzo(g,h,i)perylene

Concen: 2.765 ng/ul

RT: 28.480 min Scan# 4334

Delta R.T. 0.012 min

Lab File: BN032209.D

Acq: 24 Jun 2024 15:43

Tgt Ion:276 Resp: 180055

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 24.5  | 20.9  | 31.3  |
| 277 | 29.0  | 18.0  | 27.0  |

