

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN101123\  
 Data File : BN028235.D  
 Acq On : 11 Oct 2023 16:37  
 Operator : MA/JU  
 Sample : 04793-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-100-20231005

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/12/2023  
 Supervised By :mohammad ahmed 10/13/2023

Quant Time: Oct 12 04:04:46 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN100223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 12 04:03:12 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.922  | 152  | 2385     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.746 | 136  | 7828     | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10          | 14.566 | 164  | 5004     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.331 | 188  | 11546    | 0.400 | ng    | 0.01     |
| 29) Chrysene-d12              | 21.524 | 240  | 12912    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 24.001 | 264  | 14336    | 0.400 | ng    | 0.03     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.459  | 112  | 865      | 0.122 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.105  | 99   | 543      | 0.060 | ng    | 0.01     |
| 8) Nitrobenzene-d5            | 9.144  | 82   | 1938     | 0.291 | ng    | 0.02     |
| 11) 2-Methylnaphthalene-d10   | 12.332 | 152  | 3679     | 0.317 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 16.077 | 330  | 838      | 0.366 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.197 | 172  | 5723     | 0.317 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.360 | 212  | 13231    | 0.456 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.950 | 244  | 13631    | 0.453 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.335  | 88   | 11939    | 4.462 | ng    | 99       |
| 28) Fluoranthene              | 19.393 | 202  | 1376     | 0.038 | ng    | # 92     |
| 30) Pyrene                    | 19.760 | 202  | 1420     | 0.030 | ng    | 97       |
| 32) Benzo(a)anthracene        | 21.515 | 228  | 1635     | 0.037 | ng    | # 41     |
| 33) Chrysene                  | 21.569 | 228  | 1902     | 0.045 | ng    | # 55     |
| 34) Bis(2-ethylhexyl)phtha... | 21.372 | 149  | 2010     | 0.070 | ng    | 95       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.603 | 276  | 1224     | 0.025 | ng    | # 67     |
| 37) Benzo(b)fluoranthene      | 23.238 | 252  | 2600     | 0.056 | ng    | # 1      |
| 38) Benzo(k)fluoranthene      | 23.285 | 252  | 1188m    | 0.025 | ng    |          |
| 39) Benzo(a)pyrene            | 23.893 | 252  | 961      | 0.022 | ng    | # 1      |
| -----                         |        |      |          |       |       |          |

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

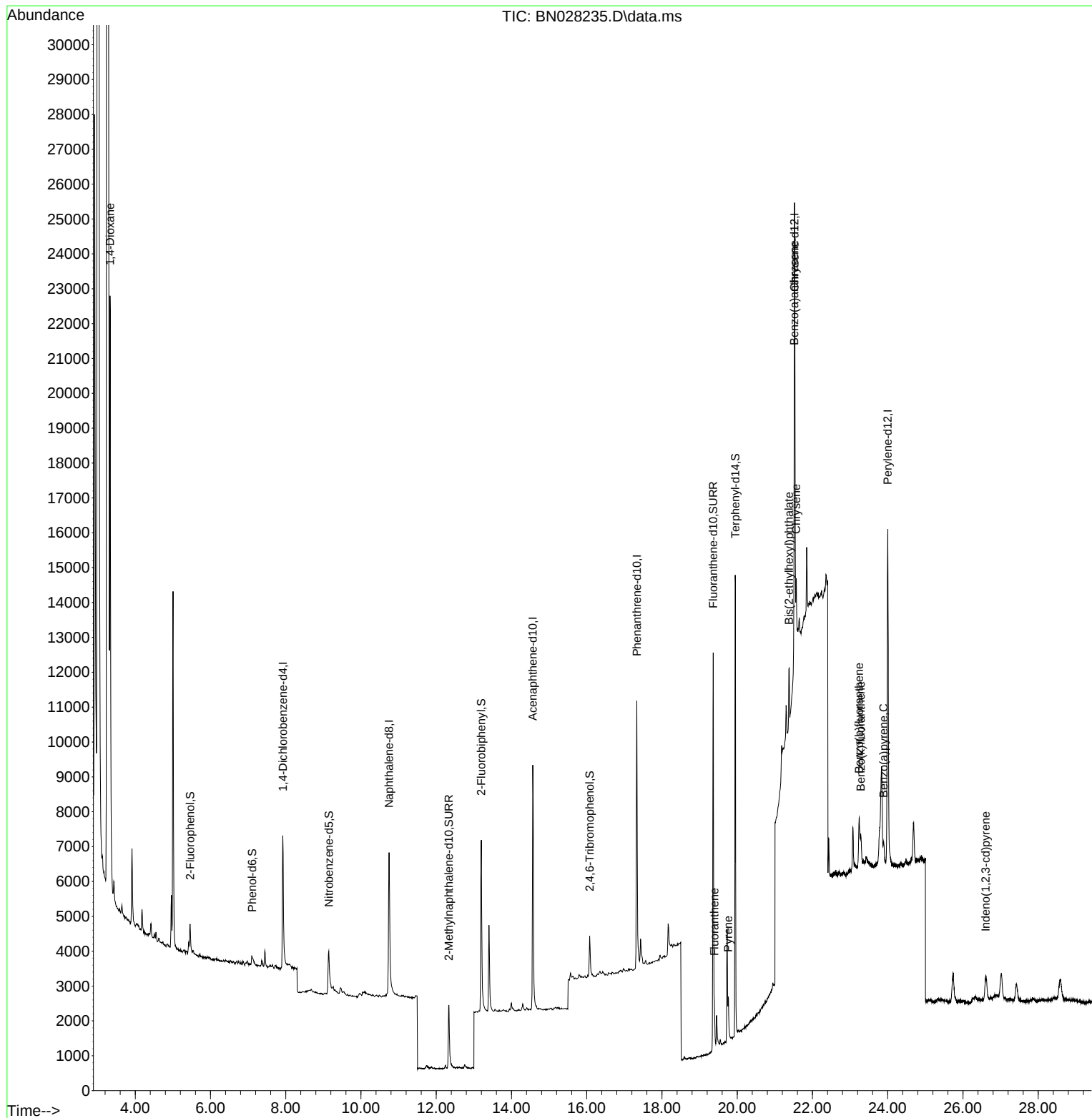
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN101123\  
Data File : BN028235.D  
Acq On : 11 Oct 2023 16:37  
Operator : MA/JU  
Sample : 04793-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
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SP-100-20231005

Quant Time: Oct 12 04:04:46 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN100223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 12 04:03:12 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

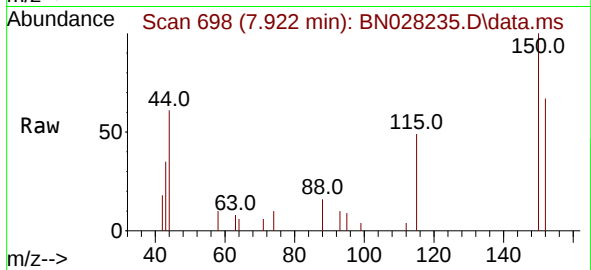
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023





#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.922 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN028235.D  
 Acq: 11 Oct 2023 16:37

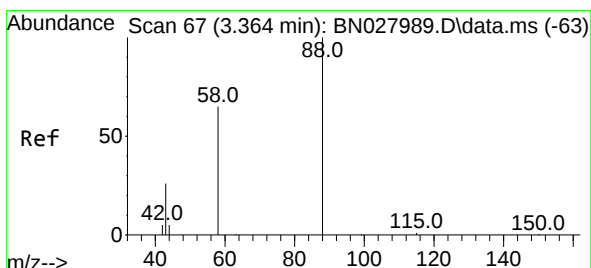
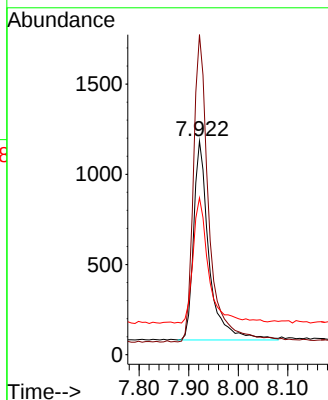
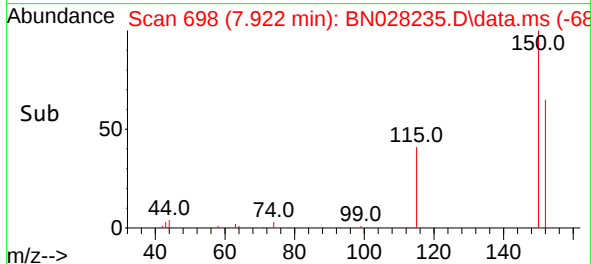
Instrument :  
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 SP-100-20231005



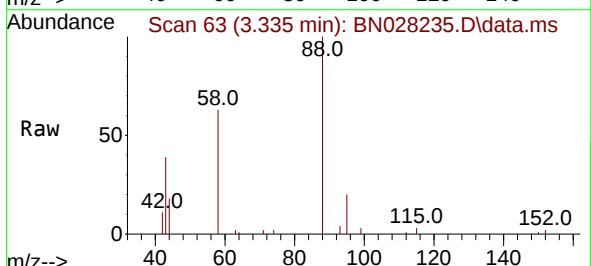
Tgt Ion:152 Resp: 238  
 Ion Ratio Lower Upper  
 152 100  
 150 149.8 125.6 188.4  
 115 73.4 54.8 82.2

Manual Integrations  
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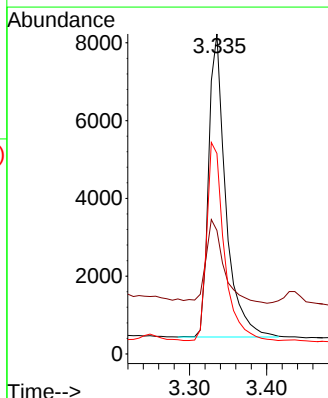
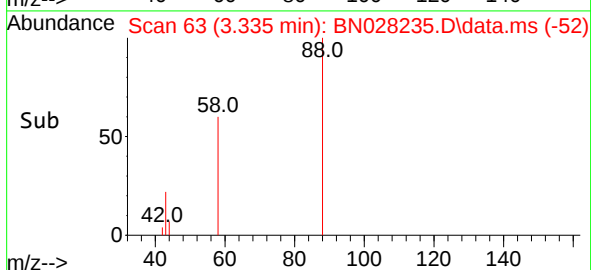
Reviewed By :Yogesh Patel 10/12/2023  
 Supervised By :mohammad ahmed 10/13/2023

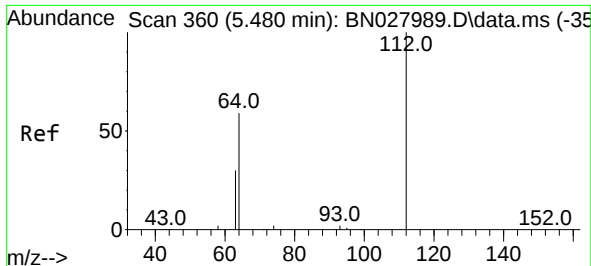


#2  
 1,4-Dioxane  
 Concen: 4.462 ng  
 RT: 3.335 min Scan# 63  
 Delta R.T. -0.022 min  
 Lab File: BN028235.D  
 Acq: 11 Oct 2023 16:37



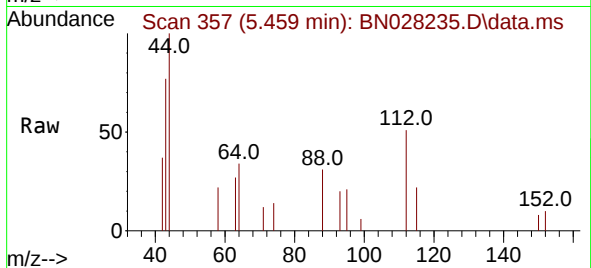
Tgt Ion: 88 Resp: 11939  
 Ion Ratio Lower Upper  
 88 100  
 43 28.9 24.6 36.8  
 58 66.8 53.8 80.6





#4  
2-Fluorophenol  
Concen: 0.122 ng  
RT: 5.459 min Scan# 311  
Delta R.T. -0.007 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

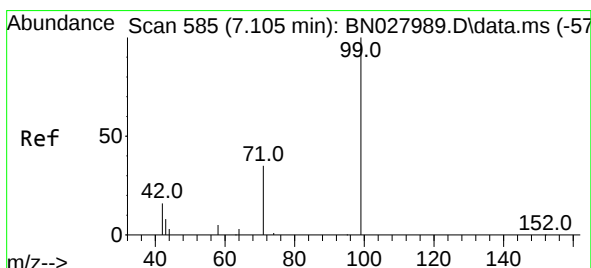
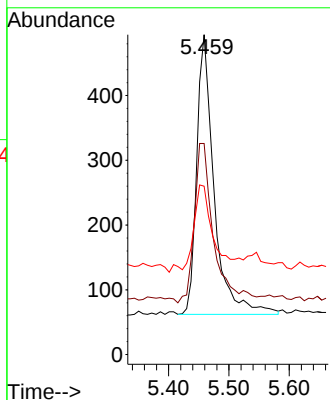
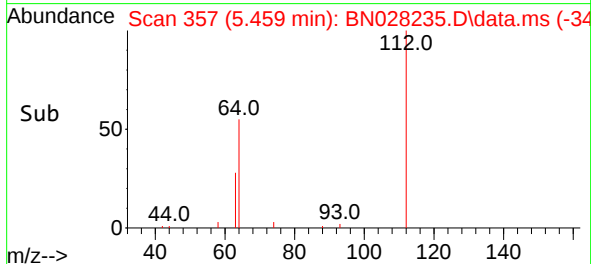
Instrument :  
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Tgt Ion: 112 Resp: 86  
Ion Ratio Lower Upper  
112 100  
64 63.1 45.0 67.6  
63 35.1 23.4 35.0

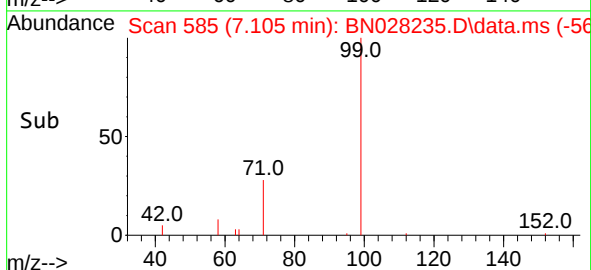
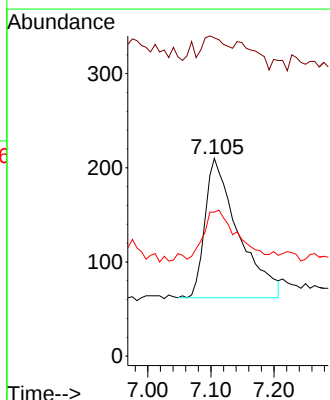
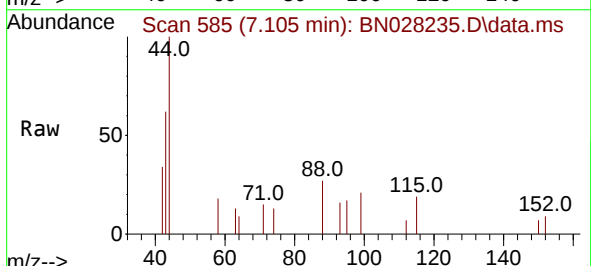
Manual Integrations  
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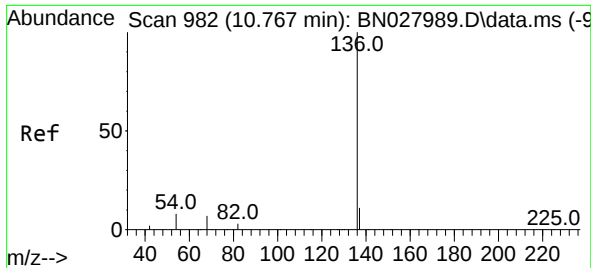
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023



#5  
Phenol-d6  
Concen: 0.060 ng  
RT: 7.105 min Scan# 585  
Delta R.T. 0.014 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

Tgt Ion: 99 Resp: 543  
Ion Ratio Lower Upper  
99 100  
42 10.1 14.6 22.0#  
71 35.0 28.3 42.5





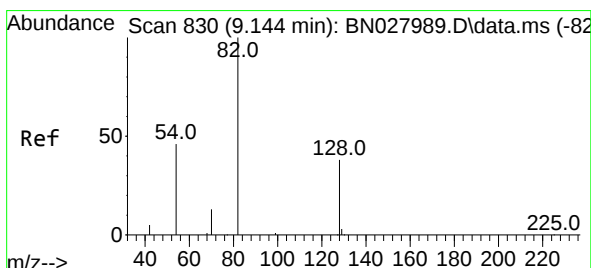
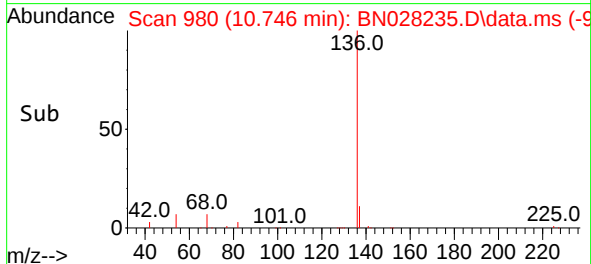
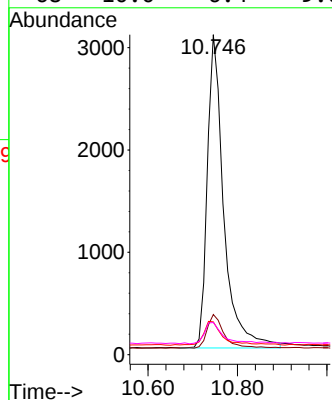
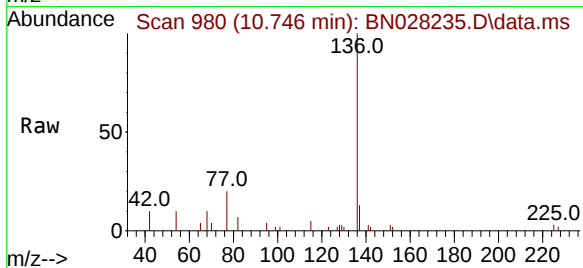
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.746 min Scan# 982  
Delta R.T. 0.011 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

Instrument :  
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Tgt Ion:136 Resp: 7828  
Ion Ratio Lower Upper  
136 100  
137 12.5 9.4 14.0  
54 10.3 7.0 10.6  
68 10.0 6.4 9.6#

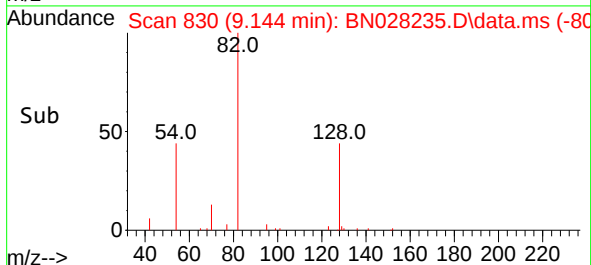
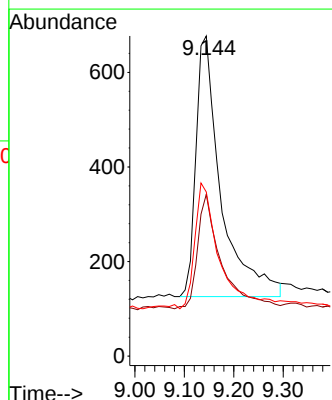
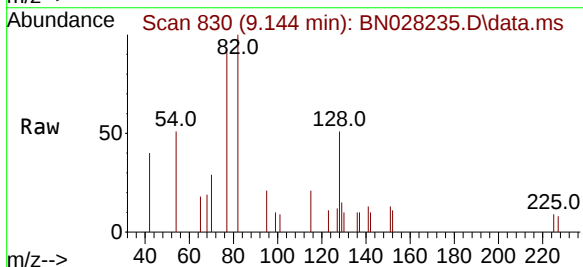
Manual Integrations  
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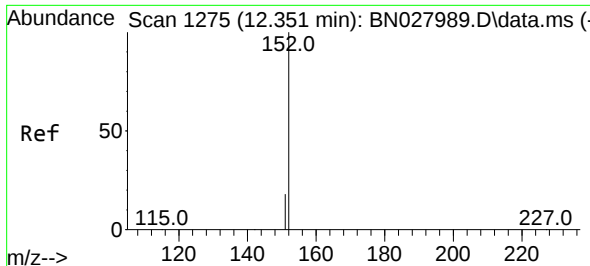
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023



#8  
Nitrobenzene-d5  
Concen: 0.291 ng  
RT: 9.144 min Scan# 830  
Delta R.T. 0.021 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

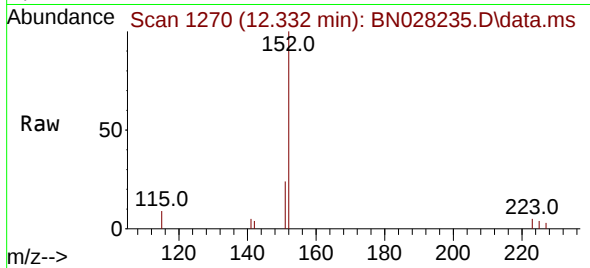
Tgt Ion: 82 Resp: 1938  
Ion Ratio Lower Upper  
82 100  
128 50.5 32.7 49.1#  
54 51.3 38.7 58.1





#11  
2-Methylnaphthalene-d10  
Concen: 0.317 ng  
RT: 12.332 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

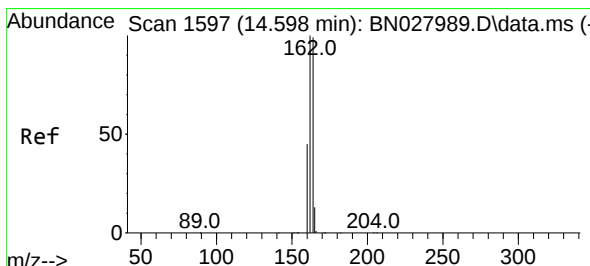
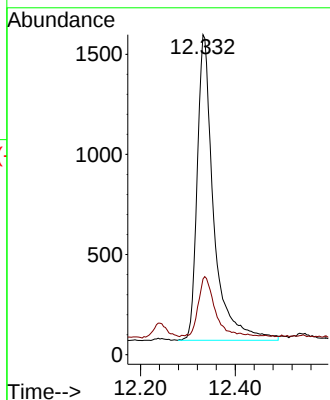
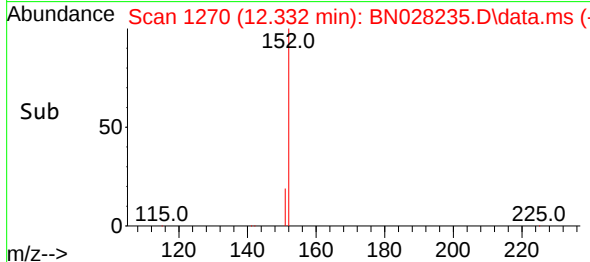
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20231005



Tgt Ion:152 Resp: 3679  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.5 24.7

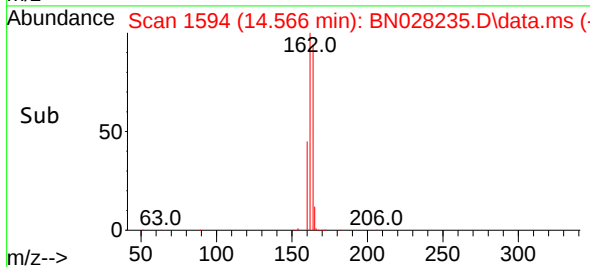
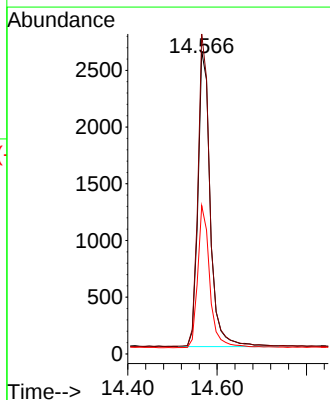
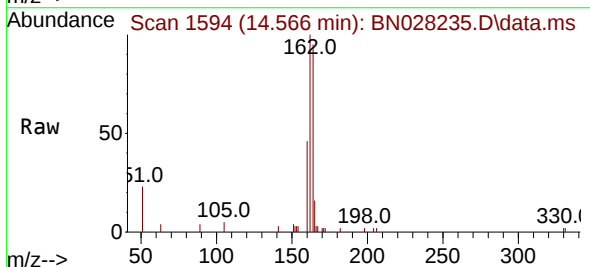
Manual Integrations  
APPROVED

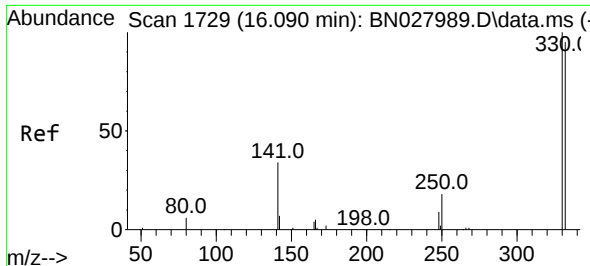
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.566 min Scan# 1594  
Delta R.T. -0.000 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

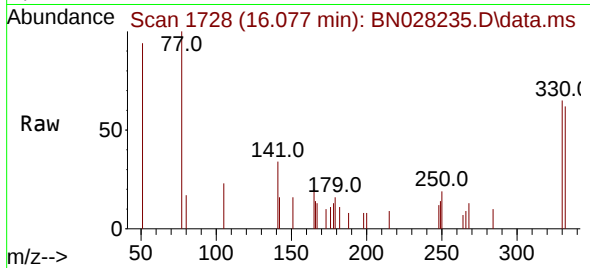
Tgt Ion:164 Resp: 5004  
Ion Ratio Lower Upper  
164 100  
162 105.7 80.8 121.2  
160 49.0 36.4 54.6





#14  
2,4,6-Tribromophenol  
Concen: 0.366 ng  
RT: 16.077 min Scan# 1729  
Delta R.T. -0.000 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

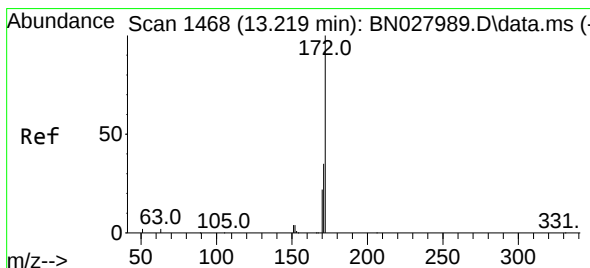
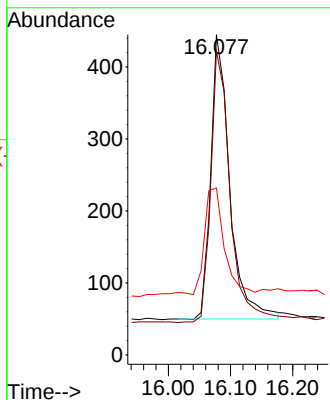
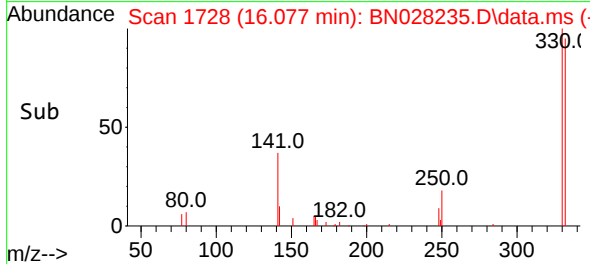
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20231005



Tgt Ion:330 Resp: 838  
Ion Ratio Lower Upper  
330 100  
332 97.7 78.1 117.1  
141 38.3 33.4 50.2

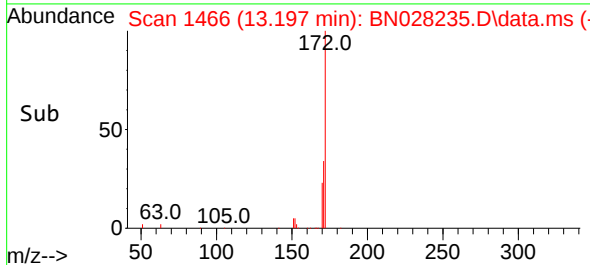
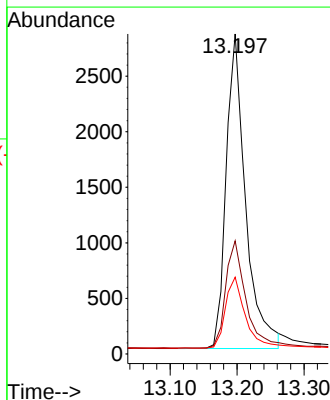
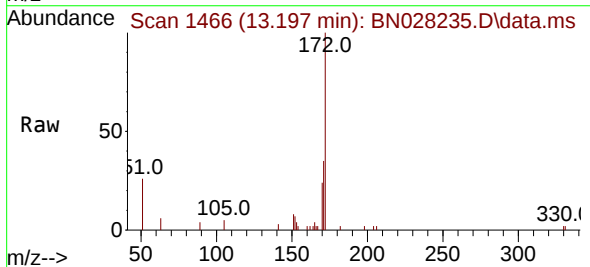
Manual Integrations  
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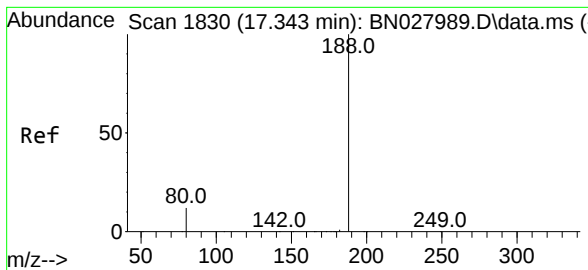
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023



#15  
2-Fluorobiphenyl  
Concen: 0.317 ng  
RT: 13.197 min Scan# 1466  
Delta R.T. 0.011 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

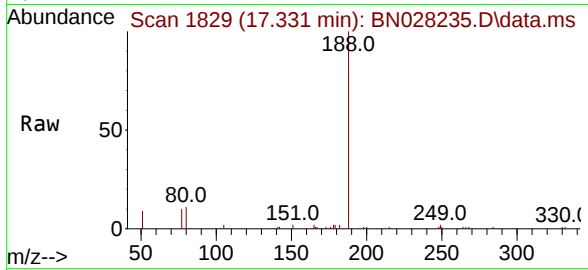
Tgt Ion:172 Resp: 5723  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.1 42.1  
170 24.0 18.4 27.6





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.331 min Scan# 11540  
Delta R.T. 0.012 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

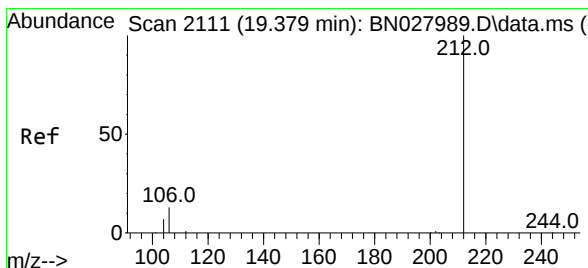
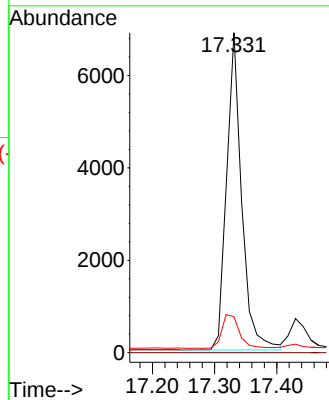
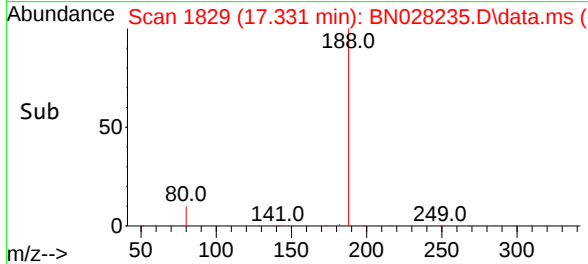
Instrument :  
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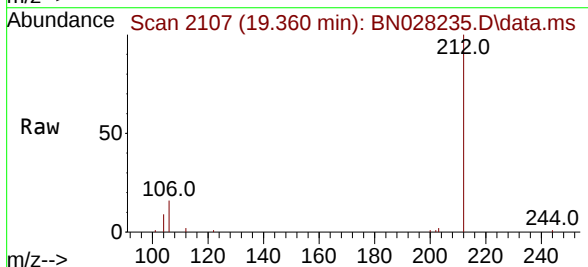
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94 0.0 0.0 0.0  
80 11.2 10.2 15.4

Manual Integrations  
APPROVED

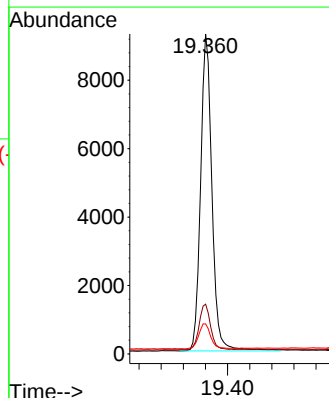
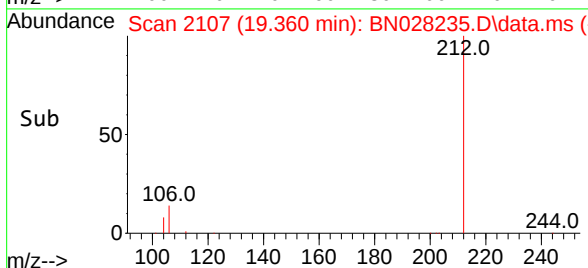
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023

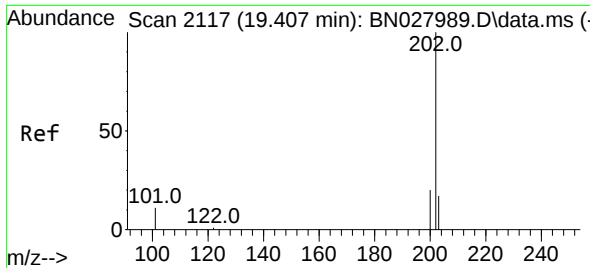


#27  
Fluoranthene-d10  
Concen: 0.456 ng  
RT: 19.360 min Scan# 2107  
Delta R.T. 0.005 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37



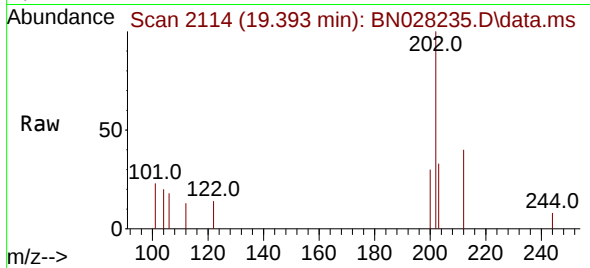
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106 14.5 11.3 16.9  
104 8.2 6.4 9.6





#28  
Fluoranthene  
Concen: 0.038 ng  
RT: 19.393 min Scan# 2117  
Delta R.T. 0.009 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

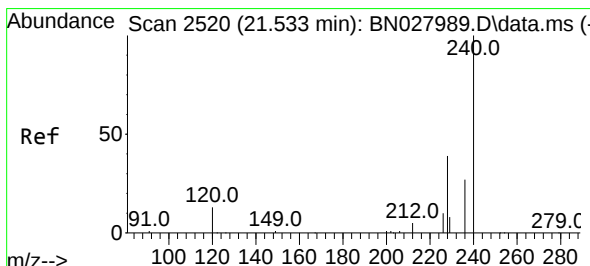
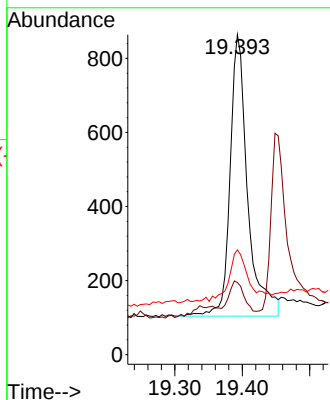
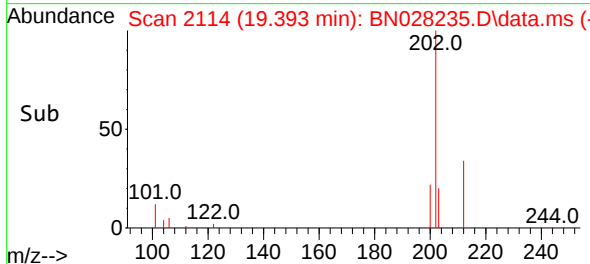
Instrument :  
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ClientSampleId :  
SP-100-20231005



Tgt Ion:202 Resp: 1370  
Ion Ratio Lower Upper  
202 100  
101 9.2 9.8 14.6  
203 20.5 13.8 20.8

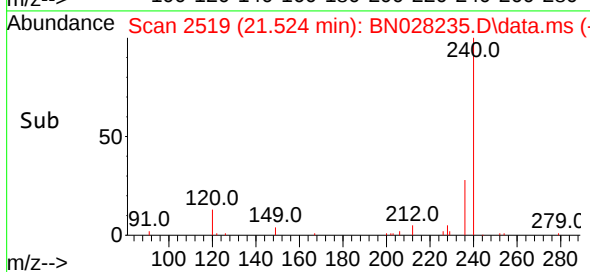
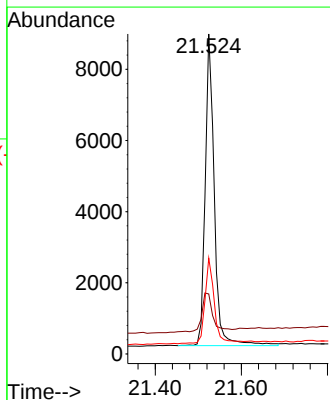
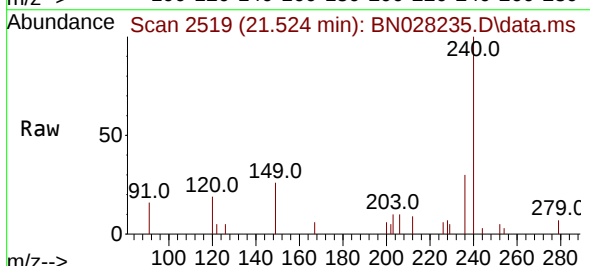
Manual Integrations  
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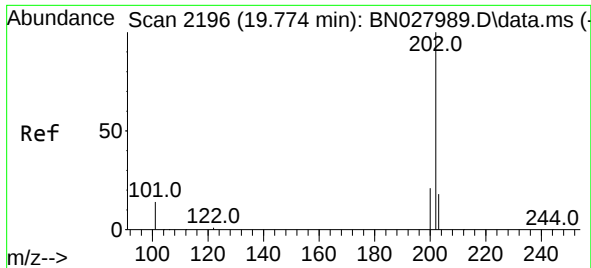
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.524 min Scan# 2519  
Delta R.T. 0.009 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

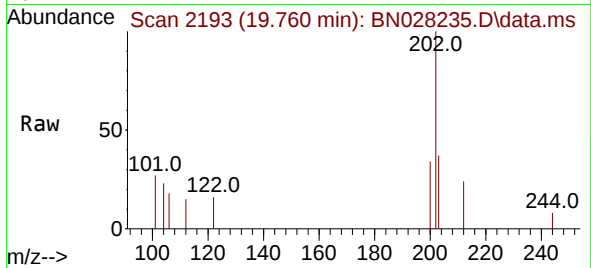
Tgt Ion:240 Resp: 12912  
Ion Ratio Lower Upper  
240 100  
120 18.8 13.8 20.6  
236 29.9 22.6 33.8





#30  
Pyrene  
Concen: 0.030 ng  
RT: 19.760 min Scan# 2196  
Delta R.T. 0.009 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

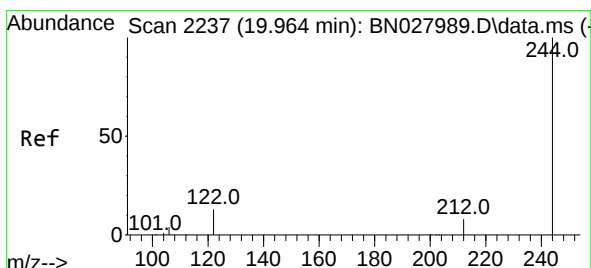
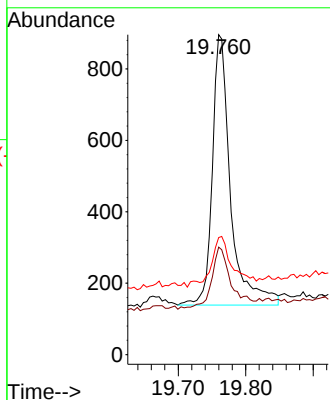
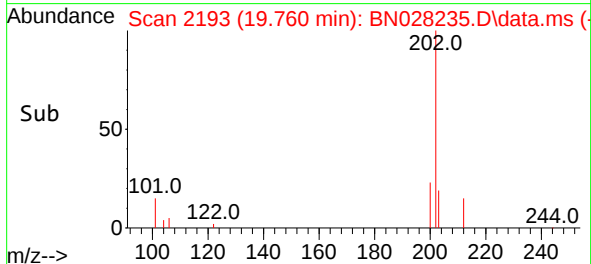
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20231005



Tgt Ion:202 Resp: 1420  
Ion Ratio Lower Upper  
202 100  
200 22.6 16.5 24.7  
203 17.7 14.7 22.1

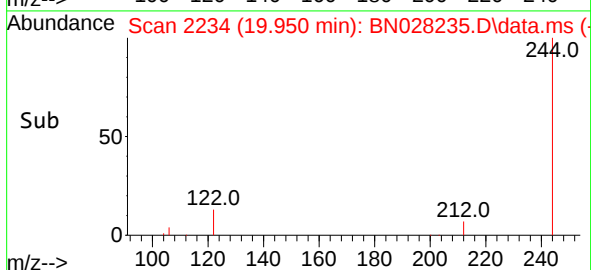
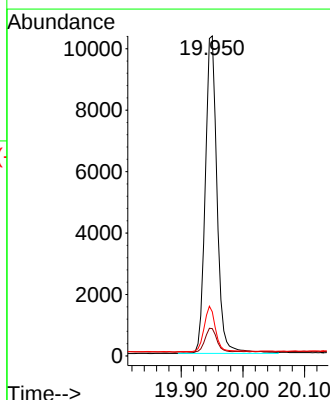
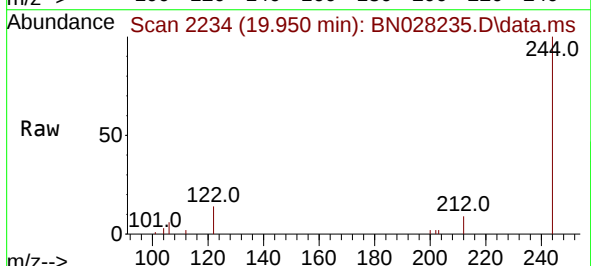
Manual Integrations  
APPROVED

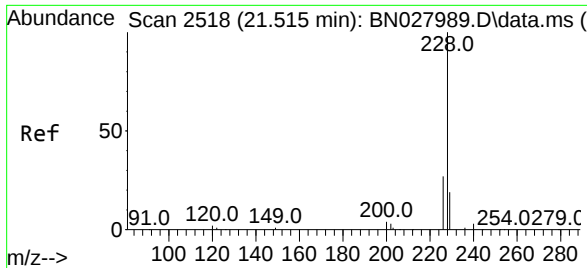
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023



#31  
Terphenyl-d14  
Concen: 0.453 ng  
RT: 19.950 min Scan# 2234  
Delta R.T. 0.009 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

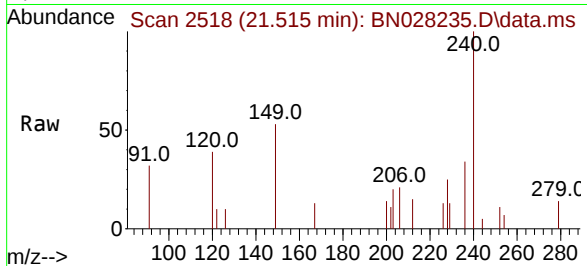
Tgt Ion:244 Resp: 13631  
Ion Ratio Lower Upper  
244 100  
212 8.6 6.6 9.8  
122 13.8 11.4 17.0





#32  
Benzo(a)anthracene  
Concen: 0.037 ng  
RT: 21.515 min Scan# 2151  
Delta R.T. 0.018 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37

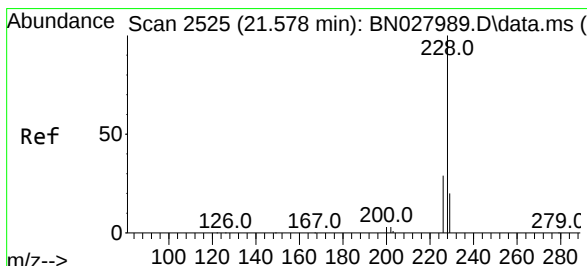
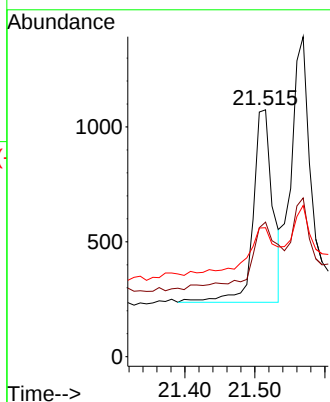
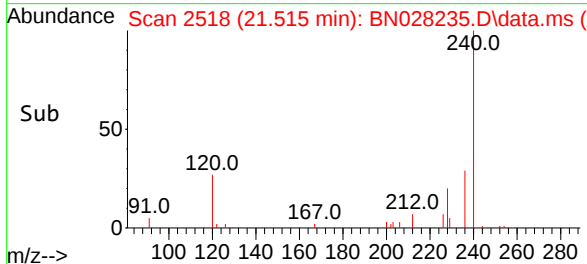
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20231005



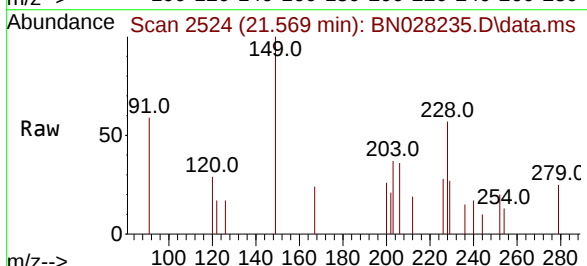
Tgt Ion:228 Resp: 1638  
Ion Ratio Lower Upper  
228 100  
226 54.5 22.0 33.0#  
229 52.2 16.0 24.0#

Manual Integrations  
APPROVED

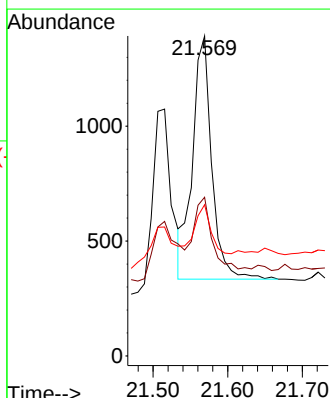
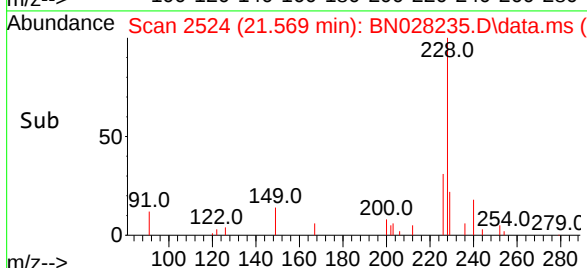
Reviewed By :Yogesh Patel 10/12/2023  
Supervised By :mohammad ahmed 10/13/2023

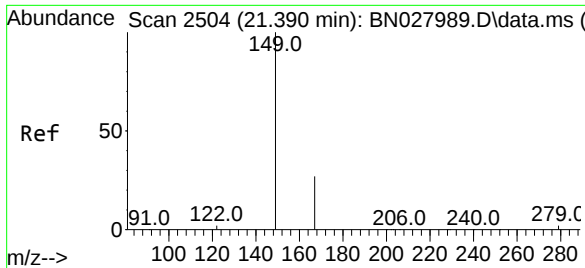


#33  
Chrysene  
Concen: 0.045 ng  
RT: 21.569 min Scan# 2524  
Delta R.T. 0.018 min  
Lab File: BN028235.D  
Acq: 11 Oct 2023 16:37



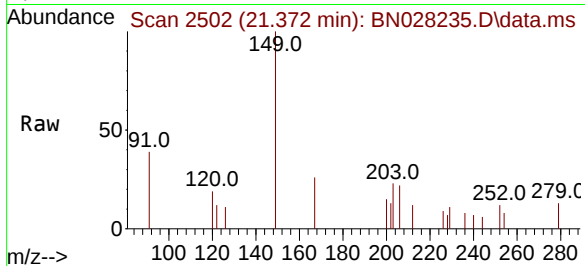
Tgt Ion:228 Resp: 1902  
Ion Ratio Lower Upper  
228 100  
226 49.6 23.8 35.8#  
229 47.2 16.6 25.0#





#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.070 ng  
 RT: 21.372 min Scan# 2136  
 Delta R.T. 0.009 min  
 Lab File: BN028235.D  
 Acq: 11 Oct 2023 16:37

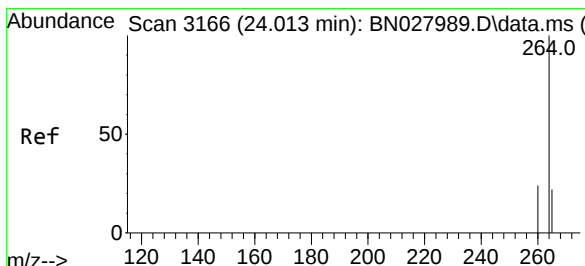
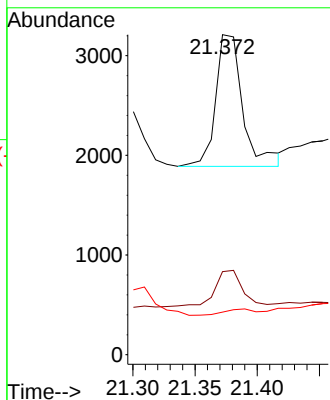
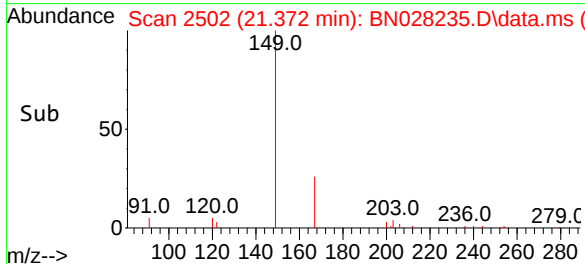
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-100-20231005



Tgt Ion:149 Resp: 2010  
 Ion Ratio Lower Upper  
 149 100  
 167 30.1 22.1 33.1  
 279 5.0 3.4 5.0

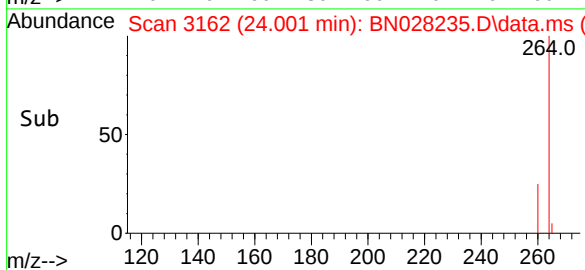
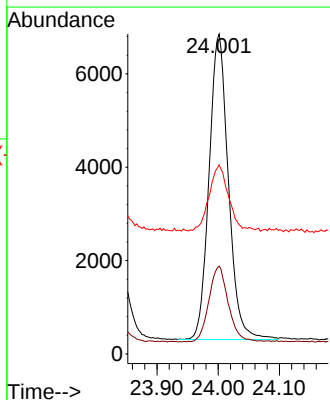
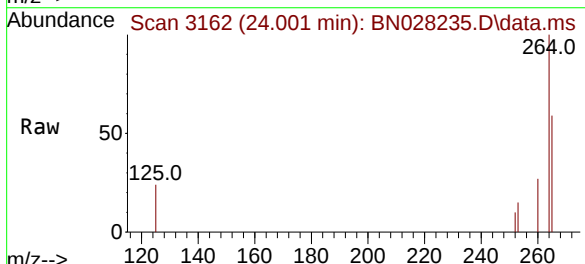
Manual Integrations  
 APPROVED

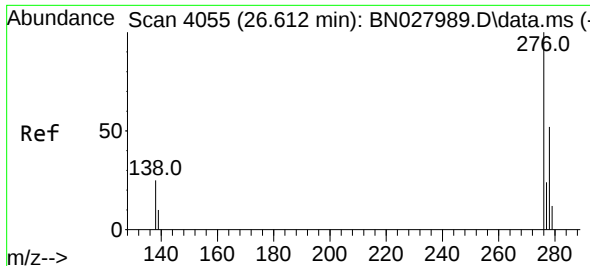
Reviewed By :Yogesh Patel 10/12/2023  
 Supervised By :mohammad ahmed 10/13/2023



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.001 min Scan# 3162  
 Delta R.T. 0.026 min  
 Lab File: BN028235.D  
 Acq: 11 Oct 2023 16:37

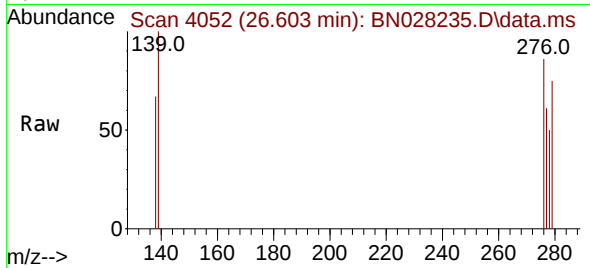
Tgt Ion:264 Resp: 14336  
 Ion Ratio Lower Upper  
 264 100  
 260 27.4 20.2 30.4  
 265 59.1 54.8 82.2





#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.025 ng  
 RT: 26.603 min Scan# 4055  
 Delta R.T. 0.047 min  
 Lab File: BN028235.D  
 Acq: 11 Oct 2023 16:37

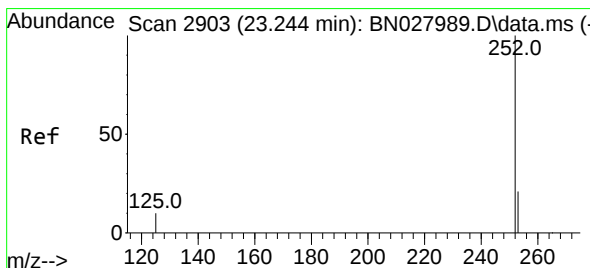
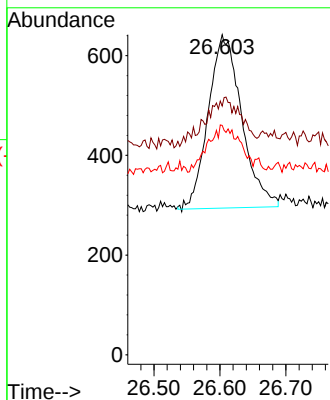
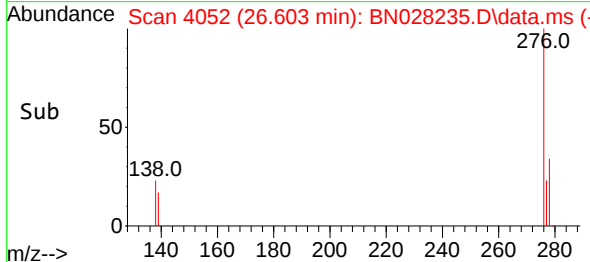
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-100-20231005



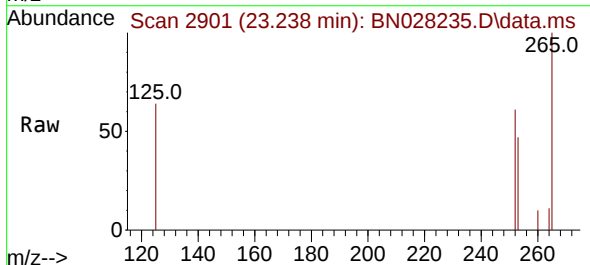
Tgt Ion: 276 Resp: 1224  
 Ion Ratio Lower Upper  
 276 100  
 138 2.8 20.9 31.3#  
 277 14.8 19.8 29.6#

Manual Integrations  
 APPROVED

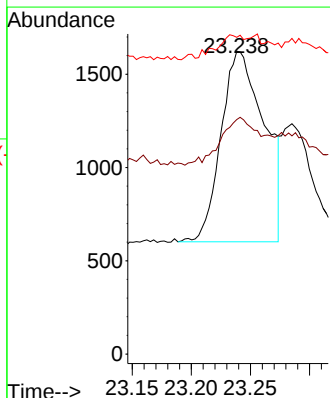
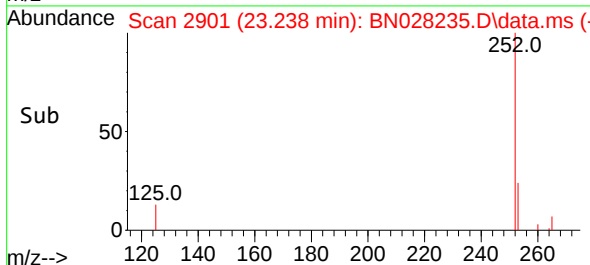
Reviewed By :Yogesh Patel 10/12/2023  
 Supervised By :mohammad ahmed 10/13/2023

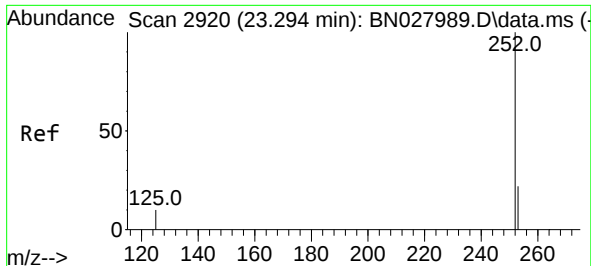


#37  
 Benzo(b)fluoranthene  
 Concen: 0.056 ng  
 RT: 23.238 min Scan# 2901  
 Delta R.T. 0.026 min  
 Lab File: BN028235.D  
 Acq: 11 Oct 2023 16:37



Tgt Ion: 252 Resp: 2600  
 Ion Ratio Lower Upper  
 252 100  
 253 77.4 22.9 34.3#  
 125 104.6 13.8 20.8#





#38

Benzo(k)fluoranthene

Concen: 0.025 ng m

RT: 23.285 min Scan# 2917

Delta R.T. 0.023 min

Lab File: BN028235.D

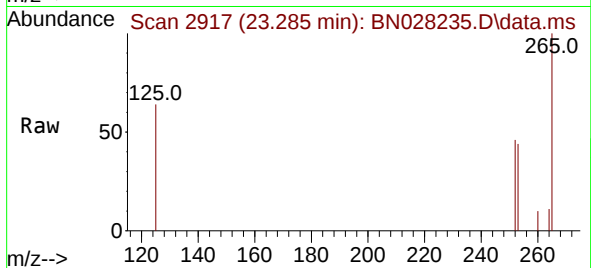
Acq: 11 Oct 2023 16:37

Instrument :

BNA\_N

ClientSampleId :

SP-100-20231005



Tgt Ion:252 Resp: 1188

Ion Ratio Lower Upper

252 100

253 94.7 23.1 34.7

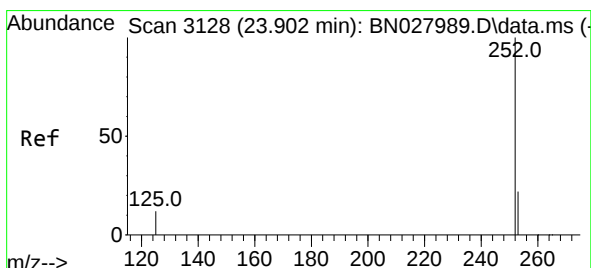
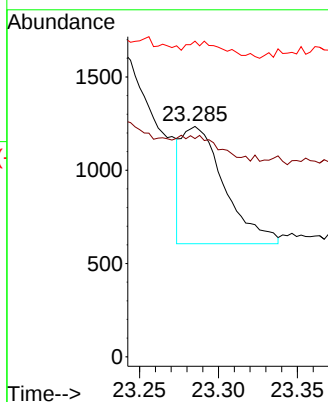
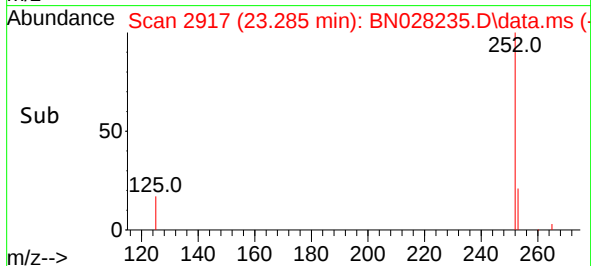
125 137.0 13.8 20.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/12/2023

Supervised By :mohammad ahmed 10/13/2023



#39

Benzo(a)pyrene

Concen: 0.022 ng

RT: 23.893 min Scan# 3125

Delta R.T. 0.029 min

Lab File: BN028235.D

Acq: 11 Oct 2023 16:37

Tgt Ion:252 Resp: 961

Ion Ratio Lower Upper

252 100

253 105.7 25.0 37.4#

125 157.0 16.6 24.8#

