

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN011923\  
 Data File : BN023719.D  
 Acq On : 19 Jan 2023 15:31  
 Operator : CG/JU  
 Sample : 01221-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-12-0118

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023  
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 04:16:29 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN011823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 20 04:14:02 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.006  | 152  | 4946     | 0.400 | ng    | # 0.01   |
| 7) Naphthalene-d8             | 10.829 | 136  | 15992    | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10          | 14.666 | 164  | 14883    | 0.400 | ng    | # 0.02   |
| 19) Phenanthrene-d10          | 17.414 | 188  | 17921    | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12              | 21.611 | 240  | 13815    | 0.400 | ng    | 0.02     |
| 35) Perylene-d12              | 24.098 | 264  | 11320    | 0.400 | ng    | 0.02     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.543  | 112  | 2428     | 0.233 | ng    | 0.02     |
| 5) Phenol-d6                  | 7.168  | 99   | 2043m    | 0.165 | ng    | 0.02     |
| 8) Nitrobenzene-d5            | 9.174  | 82   | 2956m    | 0.234 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 12.423 | 152  | 4498     | 0.203 | ng    | 0.02     |
| 14) 2,4,6-Tribromophenol      | 16.161 | 330  | 1470     | 0.232 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 13.298 | 172  | 8249     | 0.130 | ng    | 0.02     |
| 27) Fluoranthene-d10          | 19.448 | 212  | 11873    | 0.282 | ng    | 0.01     |
| 31) Terphenyl-d14             | 20.044 | 244  | 8224     | 0.377 | ng    | 0.01     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.362  | 88   | 2849     | 0.543 | ng    | # 17     |
| 9) Naphthalene                | 10.882 | 128  | 386161   | 9.332 | ng    | 99       |
| 12) 2-Methylnaphthalene       | 12.495 | 142  | 39406    | 1.354 | ng    | 99       |
| 17) Acenaphthene              | 14.730 | 154  | 5751     | 0.136 | ng    | 91       |
| 18) Fluorene                  | 15.714 | 166  | 4494     | 0.075 | ng    | # 93     |
| 25) Phenanthrene              | 17.452 | 178  | 4294     | 0.082 | ng    | # 82     |
| 26) Anthracene                | 17.551 | 178  | 2887     | 0.068 | ng    | # 39     |
| 34) Bis(2-ethylhexyl)phtha... | 21.513 | 149  | 21849    | 1.115 | ng    | 96       |
| -----                         |        |      |          |       |       |          |

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

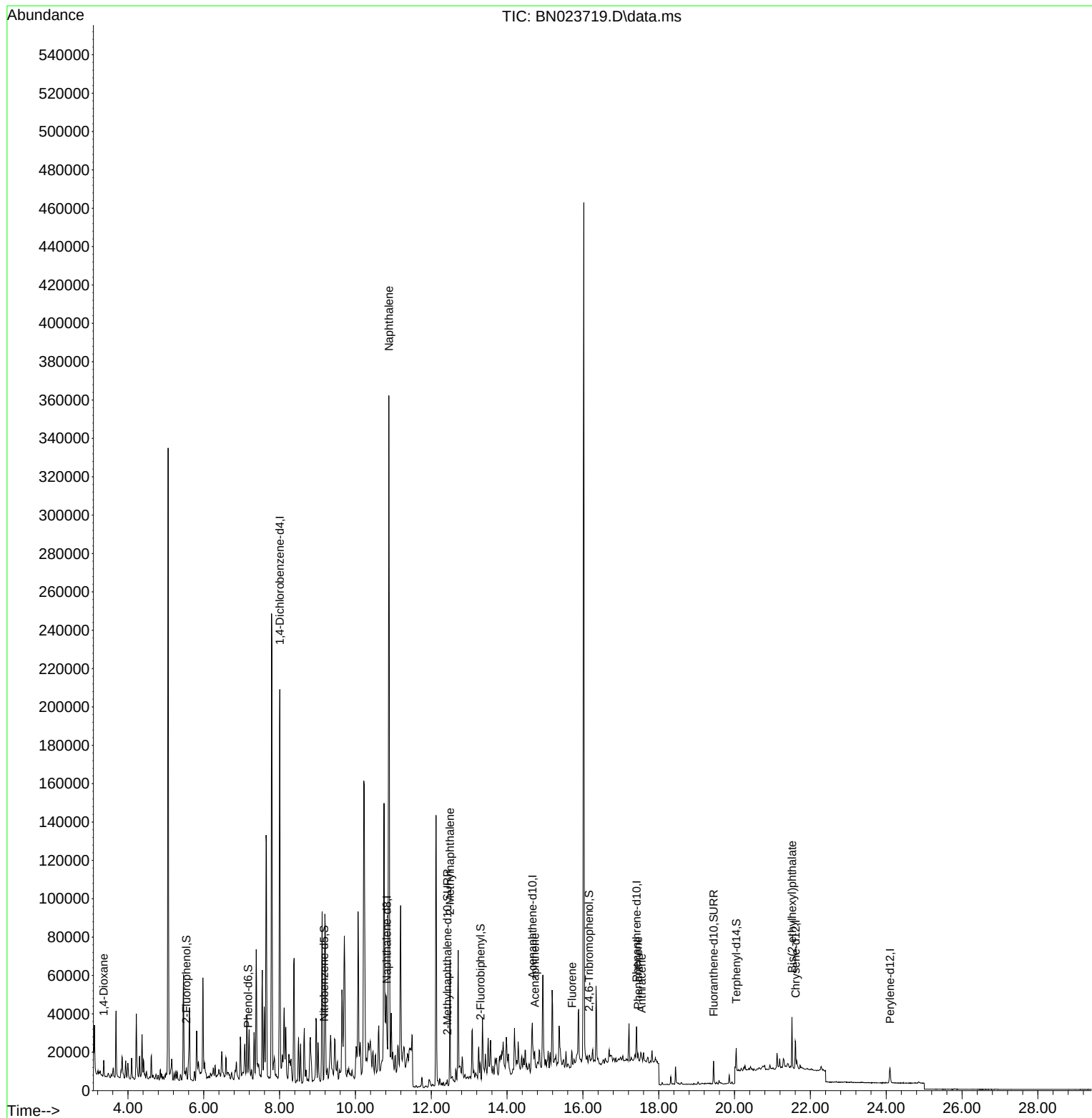
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN011923\  
Data File : BN023719.D  
Acq On : 19 Jan 2023 15:31  
Operator : CG/JU  
Sample : 01221-03  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

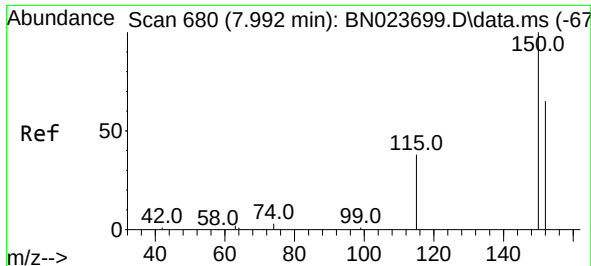
Instrument :  
BNA\_N  
ClientSampleId :  
MW-12-0118

Quant Time: Jan 20 04:16:29 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN011823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 20 04:14:02 2023  
Response via : Initial Calibration

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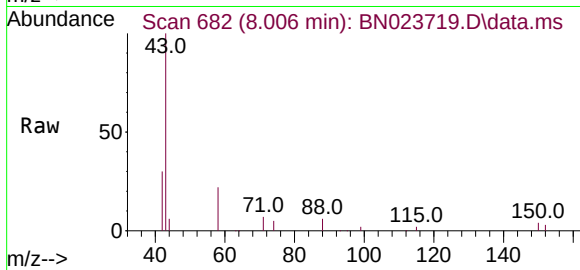
Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.006 min Scan# 68  
Delta R.T. 0.014 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

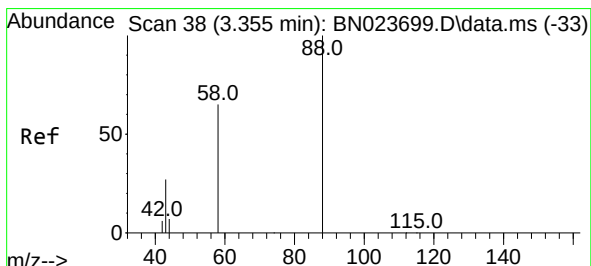
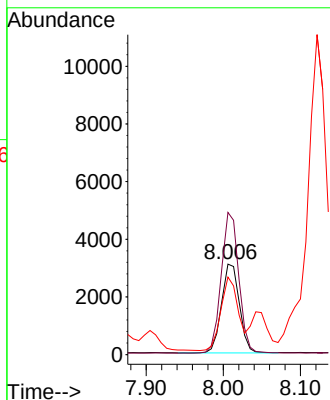
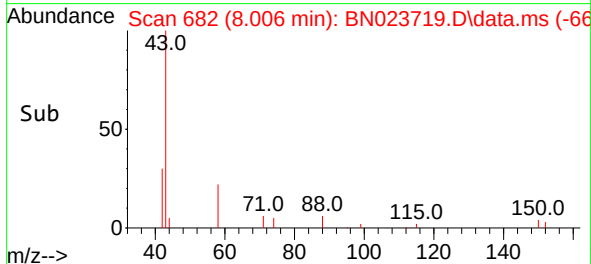
Instrument :  
BNA\_N  
ClientSampleId :  
MW-12-0118



Tgt Ion: 152 Resp: 4946  
Ion Ratio Lower Upper  
152 100  
150 157.1 122.4 183.6  
115 85.7 48.2 72.4

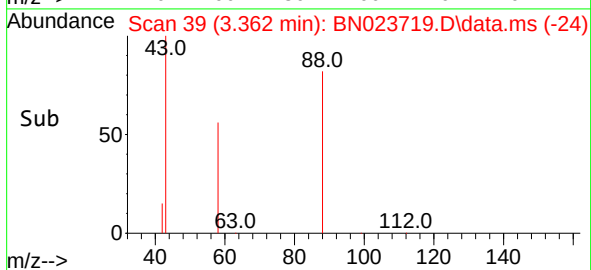
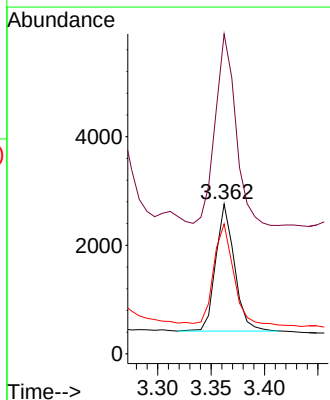
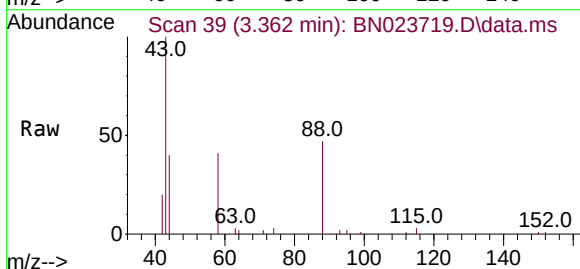
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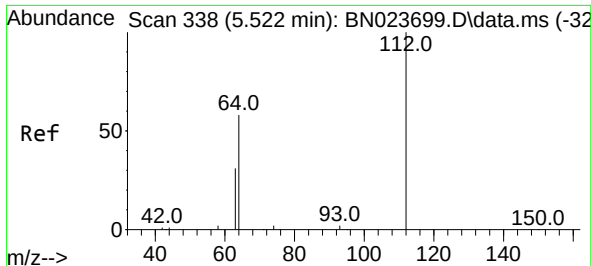
Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023



#2  
1,4-Dioxane  
Concen: 0.543 ng  
RT: 3.362 min Scan# 39  
Delta R.T. 0.007 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

Tgt Ion: 88 Resp: 2849  
Ion Ratio Lower Upper  
88 100  
43 166.8 26.8 40.2  
58 84.2 58.5 87.7





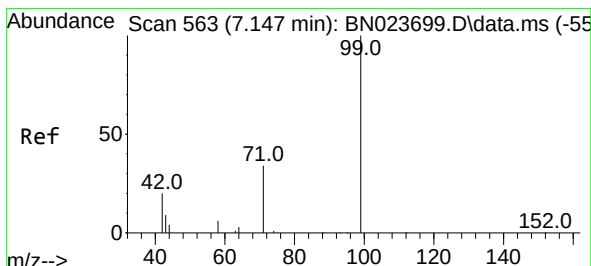
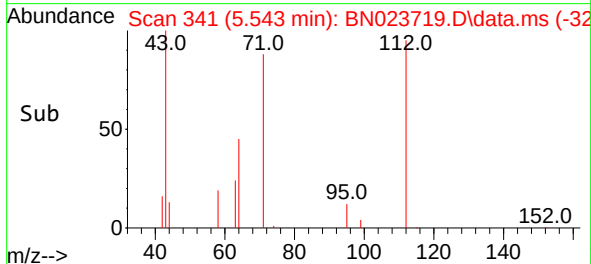
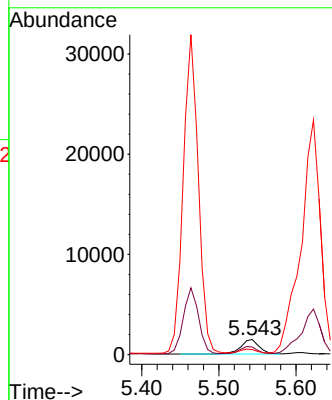
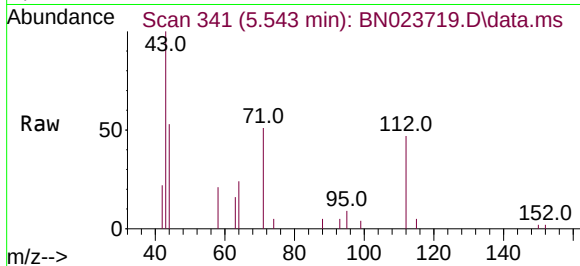
#4  
2-Fluorophenol  
Concen: 0.233 ng  
RT: 5.543 min Scan# 341  
Delta R.T. 0.021 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion: 112 Resp: 2428  
Ion Ratio Lower Upper  
112 100  
64 43.0 45.8 68.8#  
63 0.0 25.3 37.9#

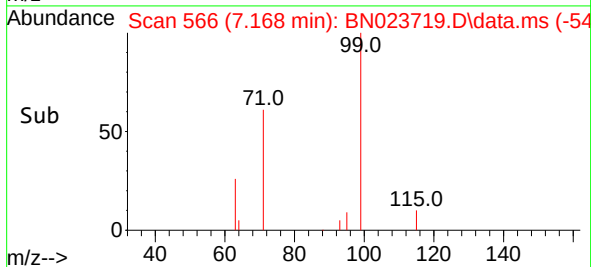
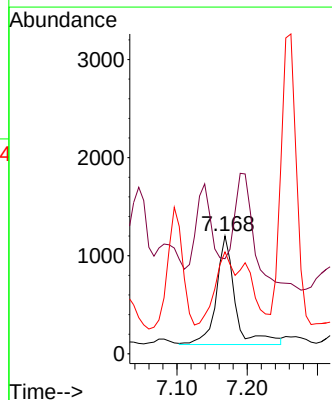
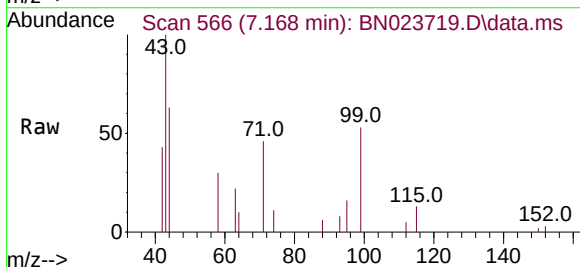
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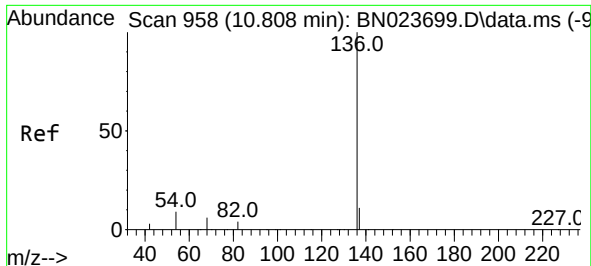
Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023



#5  
Phenol-d6  
Concen: 0.165 ng m  
RT: 7.168 min Scan# 566  
Delta R.T. 0.021 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

Tgt Ion: 99 Resp: 2043  
Ion Ratio Lower Upper  
99 100  
42 0.0 19.4 29.0#  
71 67.0 28.7 43.1#





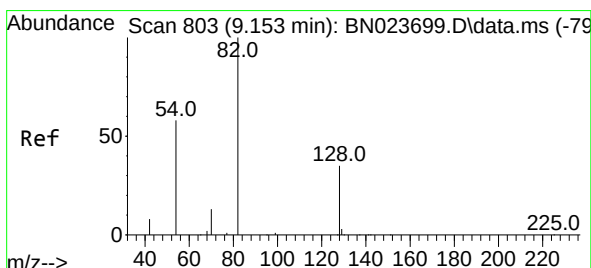
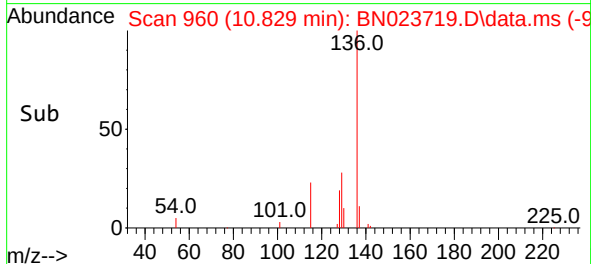
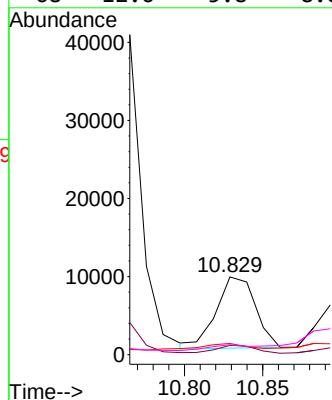
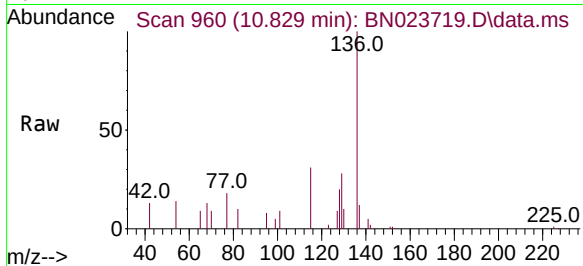
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.829 min Scan# 90  
Delta R.T. 0.010 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
MW-12-0118

Tgt Ion:136 Resp: 15992  
Ion Ratio Lower Upper  
136 100  
137 11.8 9.2 13.8  
54 14.4 7.5 11.3  
68 12.6 5.8 8.8#

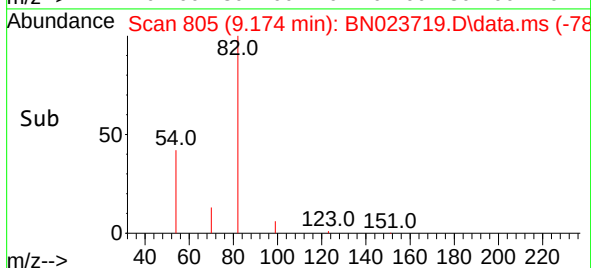
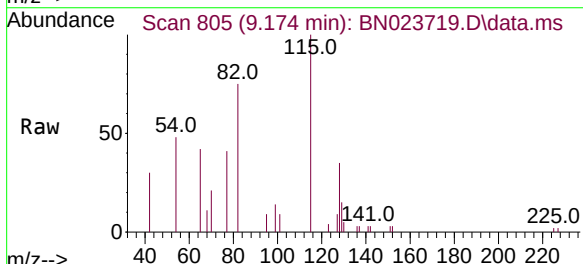
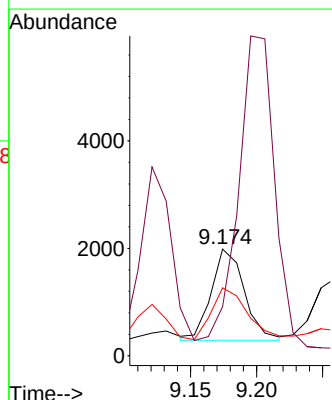
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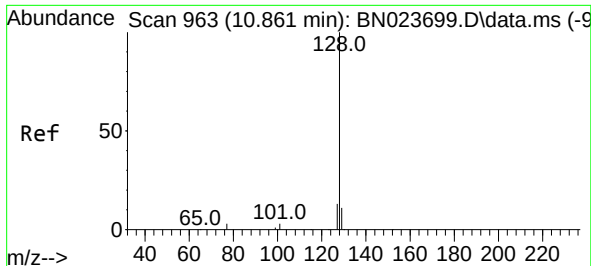
Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023



#8  
Nitrobenzene-d5  
Concen: 0.234 ng m  
RT: 9.174 min Scan# 805  
Delta R.T. 0.010 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

Tgt Ion: 82 Resp: 2956  
Ion Ratio Lower Upper  
82 100  
128 46.0 30.2 45.2#  
54 63.7 47.3 70.9





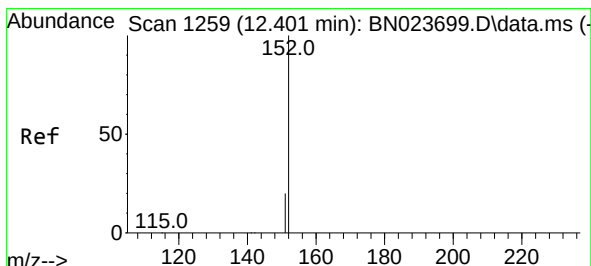
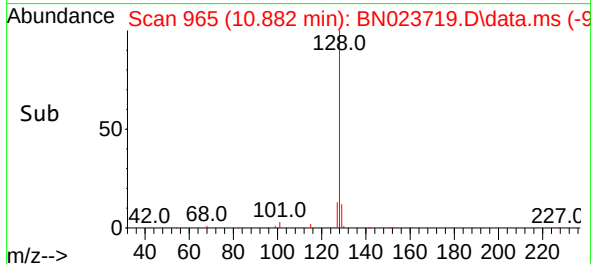
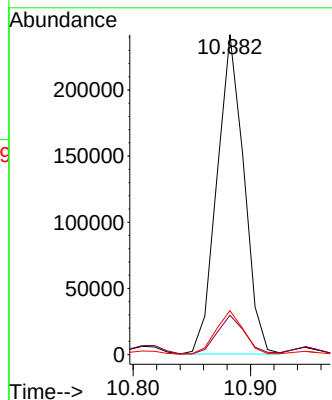
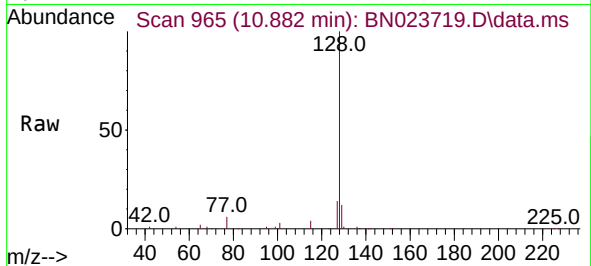
#9  
Naphthalene  
Concen: 9.332 ng  
RT: 10.882 min Scan# 90  
Delta R.T. 0.021 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
MW-12-0118

Tgt Ion:128 Resp: 38616  
Ion Ratio Lower Upper  
128 100  
129 12.3 9.2 13.8  
127 13.7 10.9 16.3

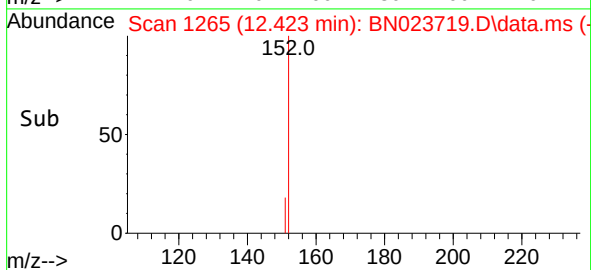
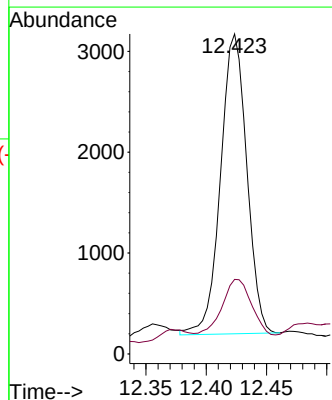
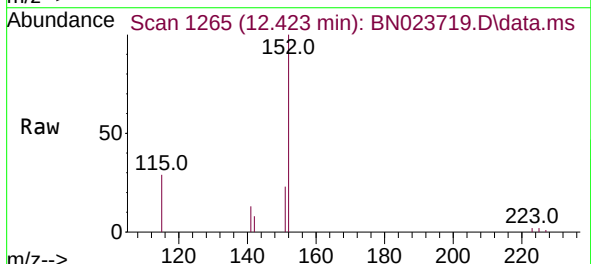
Manual Integrations  
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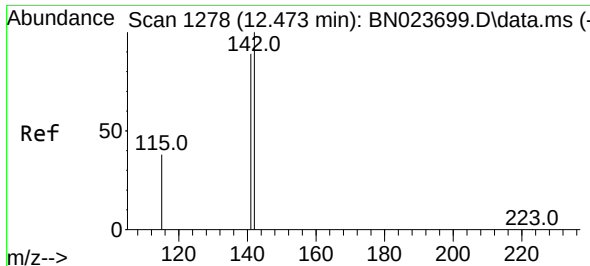
Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023



#11  
2-Methylnaphthalene-d10  
Concen: 0.203 ng  
RT: 12.423 min Scan# 1265  
Delta R.T. 0.019 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

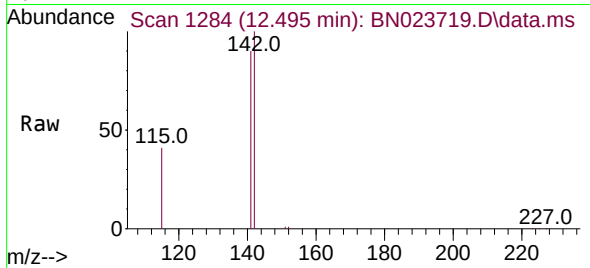
Tgt Ion:152 Resp: 4498  
Ion Ratio Lower Upper  
152 100  
151 21.1 17.1 25.7





#12  
2-Methylnaphthalene  
Concen: 1.354 ng  
RT: 12.495 min Scan# 1284  
Delta R.T. 0.015 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

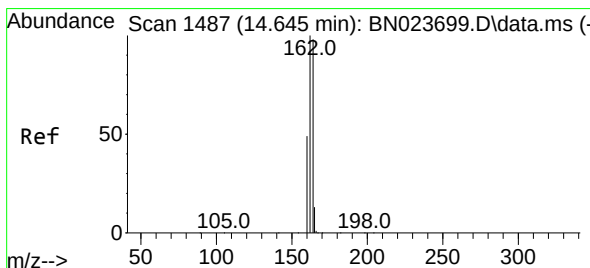
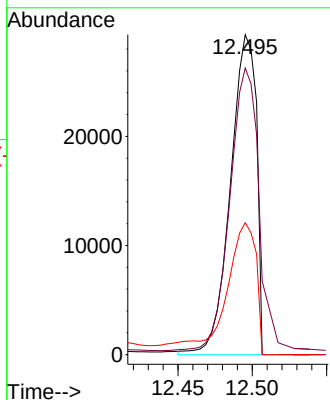
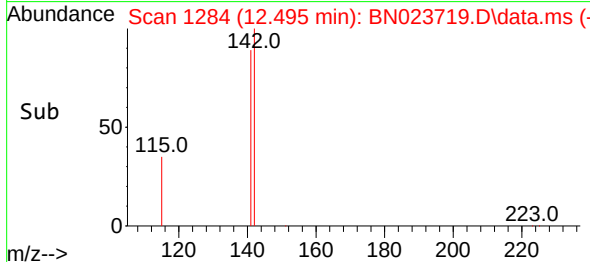
Instrument :  
BNA\_N  
ClientSampleId :  
MW-12-0118



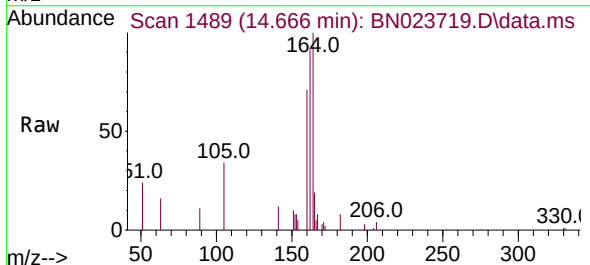
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Ion Ratio Lower Upper  
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141 89.5 71.4 107.0  
115 41.2 31.2 46.8

Manual Integrations  
APPROVED

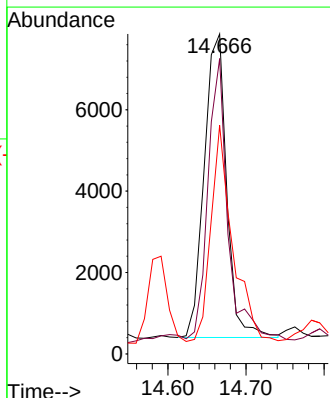
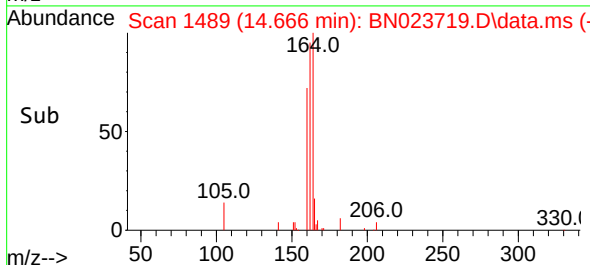
Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023

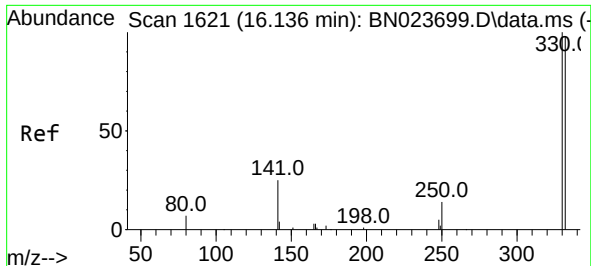


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.666 min Scan# 1489  
Delta R.T. 0.021 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31



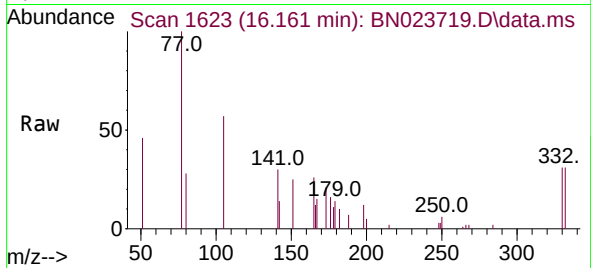
Tgt Ion:164 Resp: 14883  
Ion Ratio Lower Upper  
164 100  
162 92.3 81.8 122.6  
160 71.4 40.3 60.5





#14  
2,4,6-Tribromophenol  
Concen: 0.232 ng  
RT: 16.161 min Scan# 1623  
Delta R.T. 0.012 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

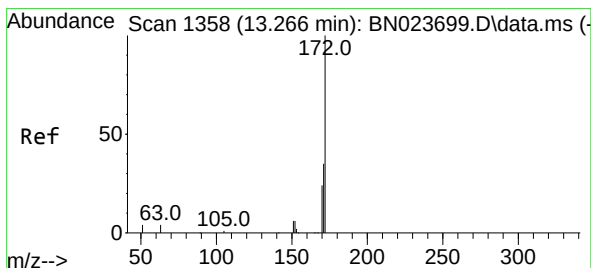
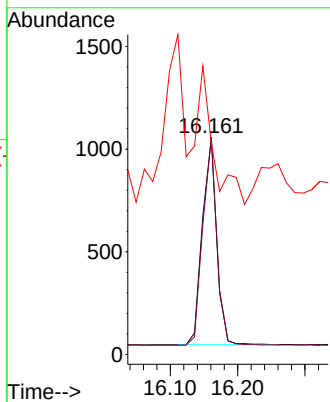
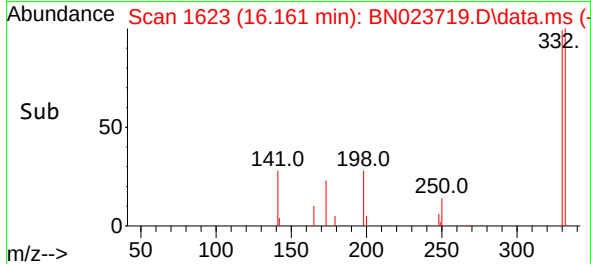
Instrument :  
BNA\_N  
ClientSampleId :  
MW-12-0118



Tgt Ion: 330 Resp: 1470  
Ion Ratio Lower Upper  
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332 99.3 77.6 116.4  
141 66.4 35.0 52.4

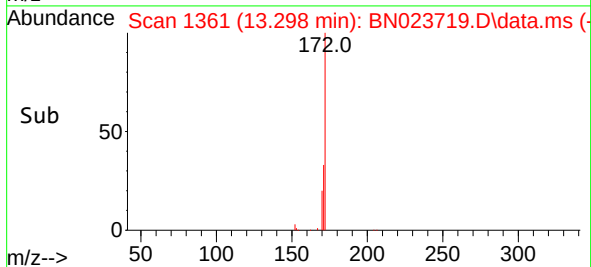
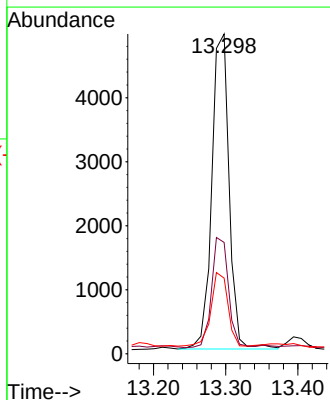
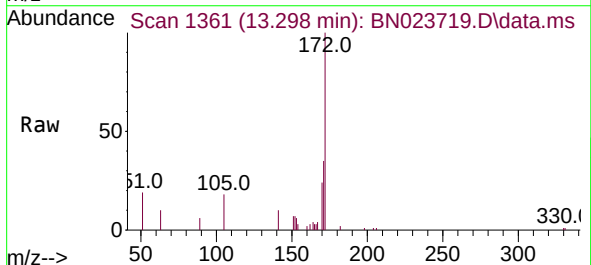
Manual Integrations  
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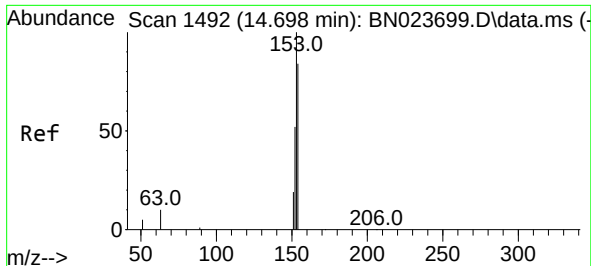


#15  
2-Fluorobiphenyl  
Concen: 0.130 ng  
RT: 13.298 min Scan# 1361  
Delta R.T. 0.021 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

Tgt Ion: 172 Resp: 8249  
Ion Ratio Lower Upper  
172 100  
171 34.8 28.6 42.8  
170 23.7 20.0 30.0

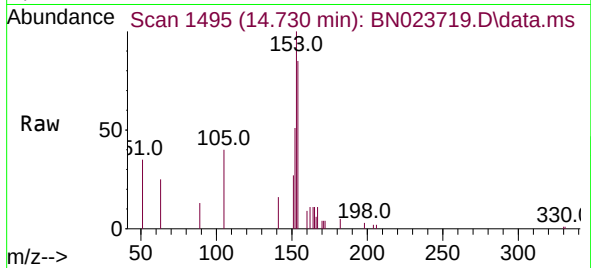






#17  
Acenaphthene  
Concen: 0.136 ng  
RT: 14.730 min Scan# 1492  
Delta R.T. 0.021 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31

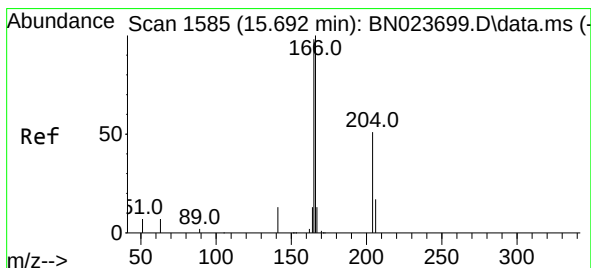
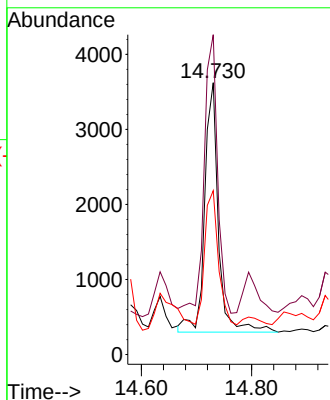
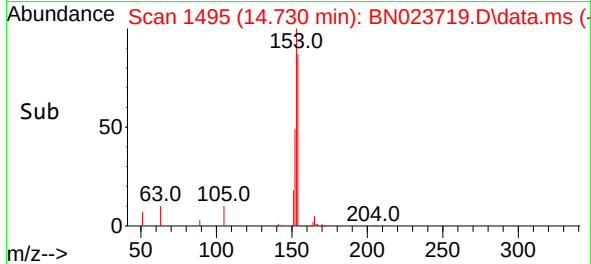
Instrument :  
BNA\_N  
ClientSampleId :  
MW-12-0118



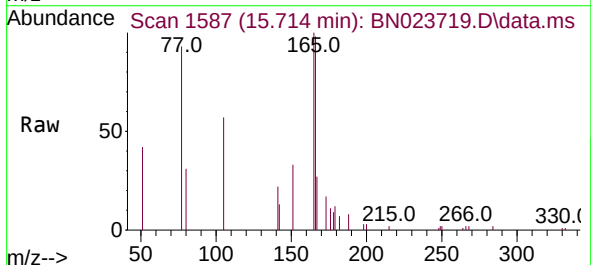
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Ion Ratio Lower Upper  
154 100  
153 107.5 93.3 139.9  
152 52.6 48.1 72.1

Manual Integrations  
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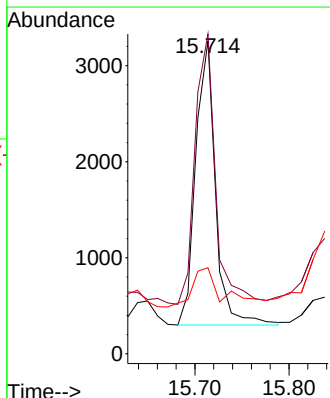
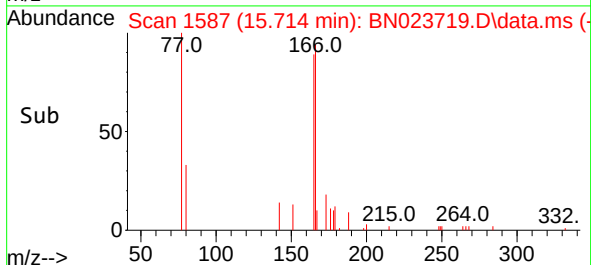
Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023

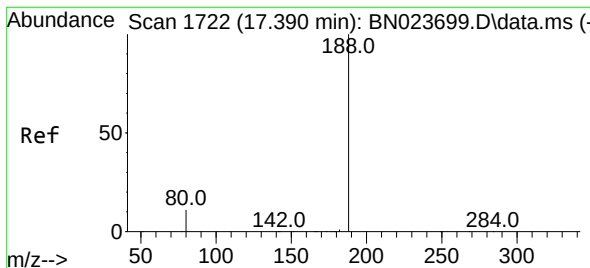


#18  
Fluorene  
Concen: 0.075 ng  
RT: 15.714 min Scan# 1587  
Delta R.T. 0.021 min  
Lab File: BN023719.D  
Acq: 19 Jan 2023 15:31



Tgt Ion:166 Resp: 4494  
Ion Ratio Lower Upper  
166 100  
165 95.3 80.6 121.0  
167 21.2 10.8 16.2#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.414 min Scan# 1722

Delta R.T. 0.012 min

Lab File: BN023719.D

Acq: 19 Jan 2023 15:31

Instrument :

BNA\_N

ClientSampleId :

MW-12-0118

Tgt Ion:188 Resp: 1792

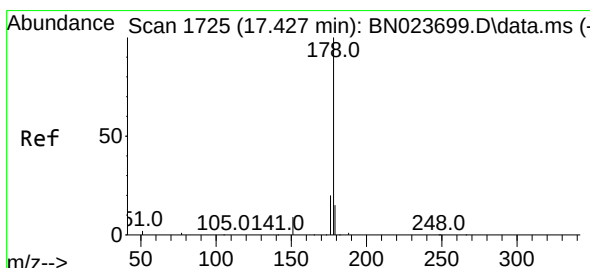
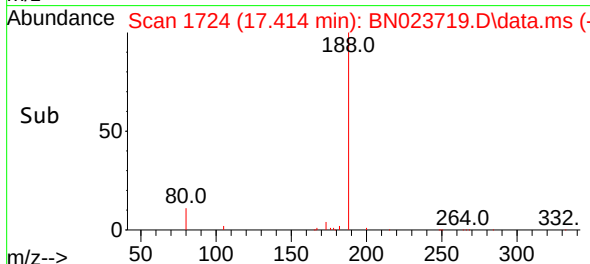
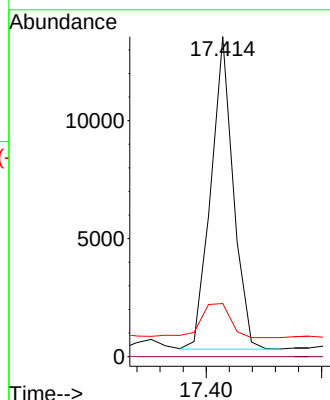
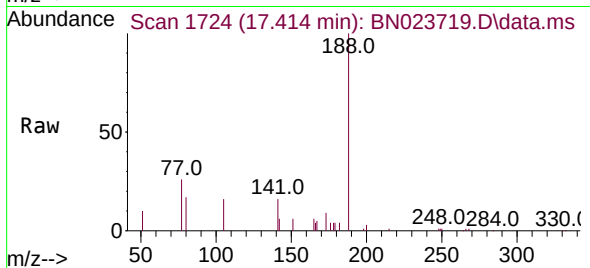
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 0.0   | 0.0   | 0.0   |
| 80  | 16.6  | 9.5   | 14.3  |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/20/2023

Supervised By :Jagrut Upadhyay 01/20/2023



#25

Phenanthrene

Concen: 0.082 ng

RT: 17.452 min Scan# 1727

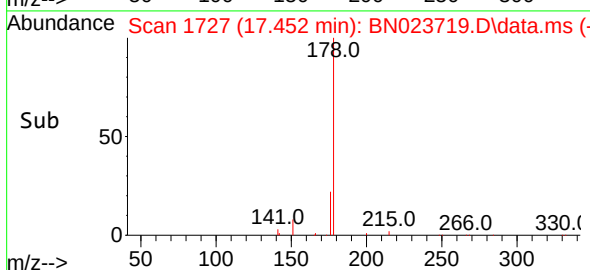
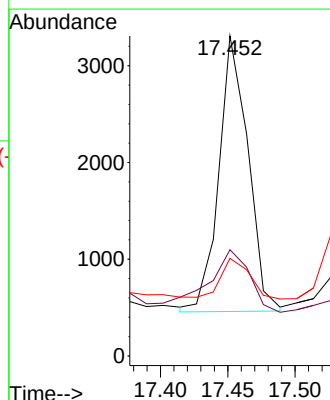
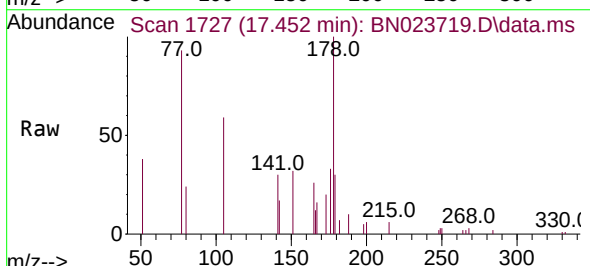
Delta R.T. 0.012 min

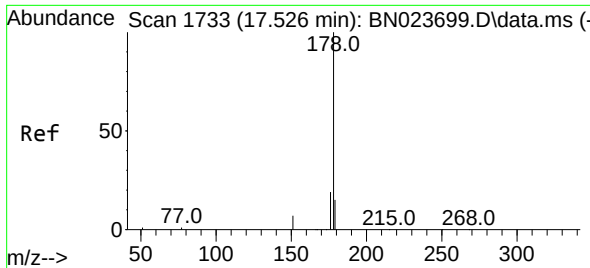
Lab File: BN023719.D

Acq: 19 Jan 2023 15:31

Tgt Ion:178 Resp: 4294

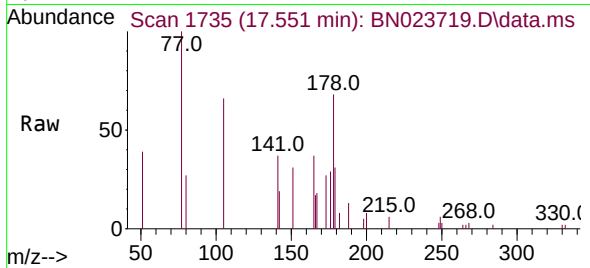
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 33.0  | 15.5  | 23.3  |
| 179 | 16.4  | 12.2  | 18.4  |





#26  
 Anthracene  
 Concen: 0.068 ng  
 RT: 17.551 min Scan# 1113  
 Delta R.T. 0.025 min  
 Lab File: BN023719.D  
 Acq: 19 Jan 2023 15:31

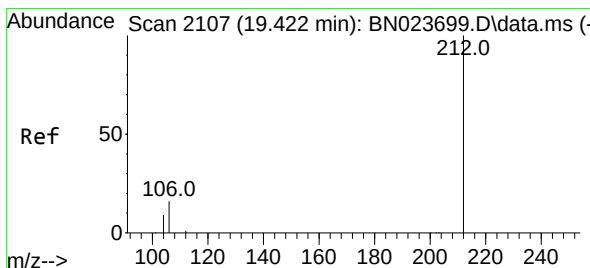
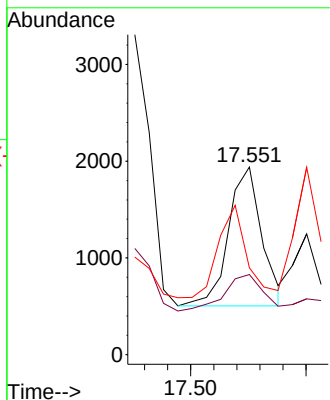
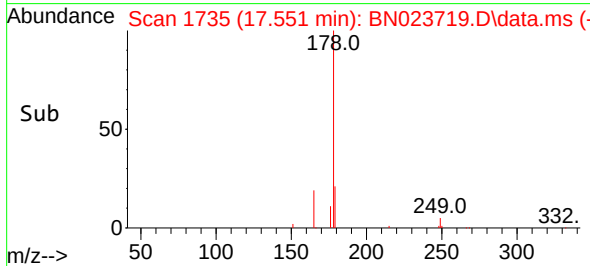
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-12-0118



Tgt Ion:178 Resp: 2887  
 Ion Ratio Lower Upper  
 178 100  
 176 32.0 15.2 22.8  
 179 57.0 12.0 18.0

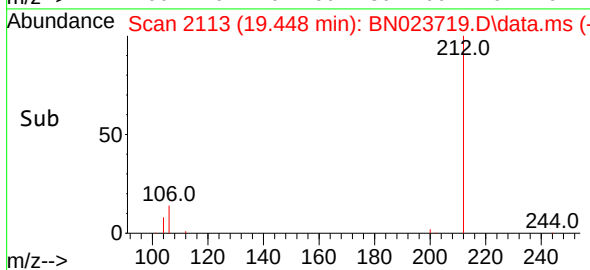
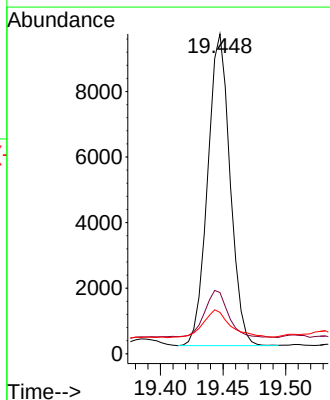
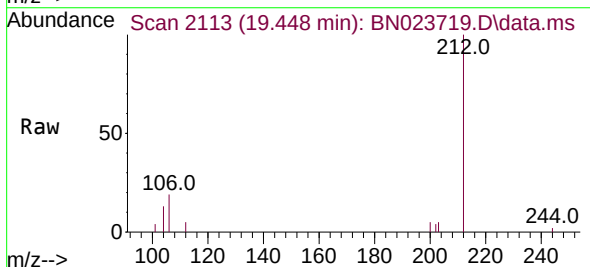
Manual Integrations  
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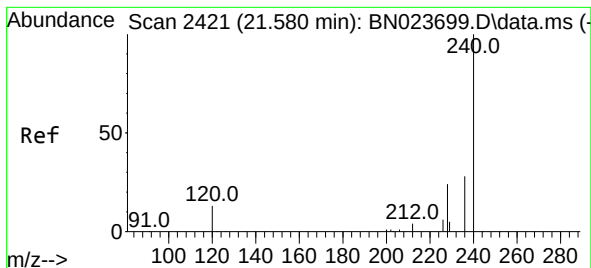
Reviewed By :Christian Giraldo 01/20/2023  
 Supervised By :Jagrut Upadhyay 01/20/2023



#27  
 Fluoranthene-d10  
 Concen: 0.282 ng  
 RT: 19.448 min Scan# 2113  
 Delta R.T. 0.012 min  
 Lab File: BN023719.D  
 Acq: 19 Jan 2023 15:31

Tgt Ion:212 Resp: 11873  
 Ion Ratio Lower Upper  
 212 100  
 106 17.8 12.4 18.6  
 104 11.0 7.1 10.7





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.611 min Scan# 2425

Delta R.T. 0.022 min

Lab File: BN023719.D

Acq: 19 Jan 2023 15:31

Instrument :

BNA\_N

ClientSampleId :

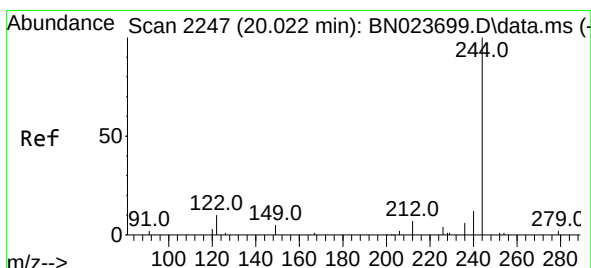
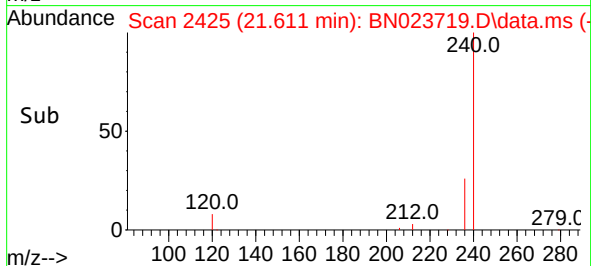
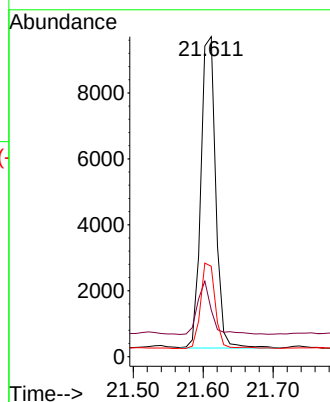
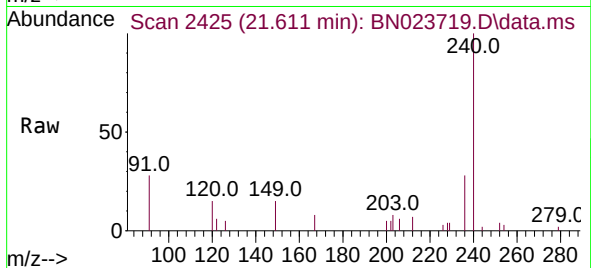
MW-12-0118

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 13815     |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 14.6  | 12.0 18.0 |
| 236         | 28.2  | 22.8 34.2 |

Manual Integrations

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Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023



#31

Terphenyl-d14

Concen: 0.377 ng

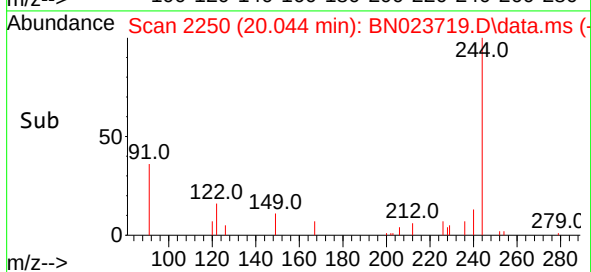
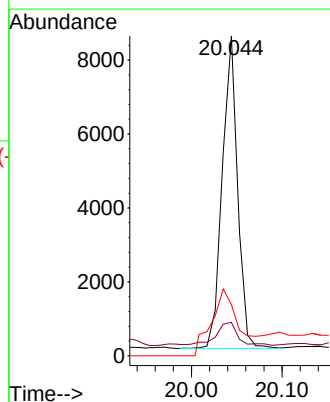
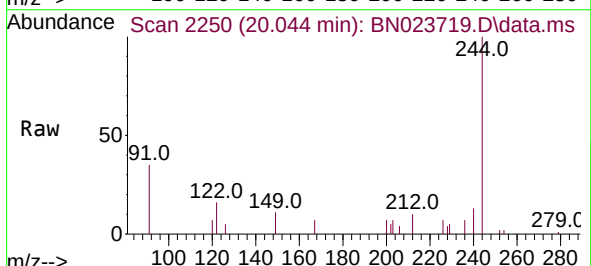
RT: 20.044 min Scan# 2250

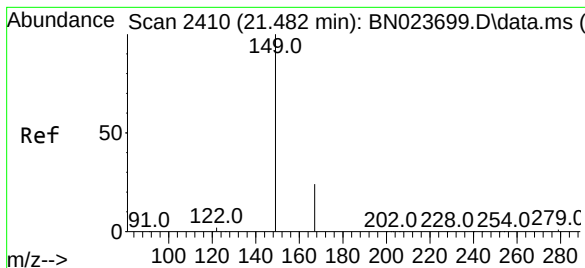
Delta R.T. 0.013 min

Lab File: BN023719.D

Acq: 19 Jan 2023 15:31

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:244 | Resp: | 8224      |
| Ion Ratio   | Lower | Upper     |
| 244         | 100   |           |
| 212         | 10.5  | 6.5 9.7#  |
| 122         | 16.0  | 7.6 11.4# |





#34

Bis(2-ethylhexyl)phthalate

Concen: 1.115 ng

RT: 21.513 min Scan# 2414

Delta R.T. 0.013 min

Lab File: BN023719.D

Acq: 19 Jan 2023 15:31

Instrument :

BNA\_N

ClientSampleId :

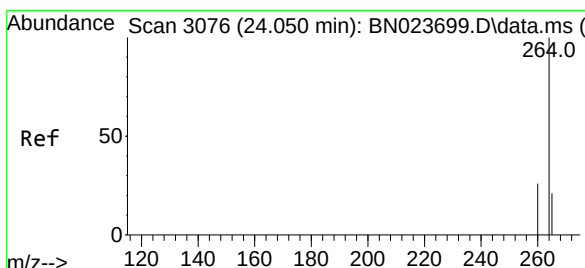
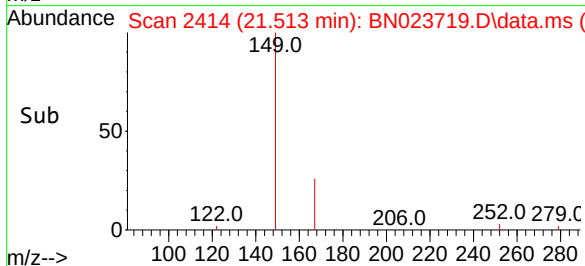
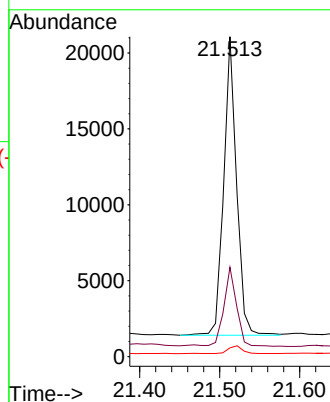
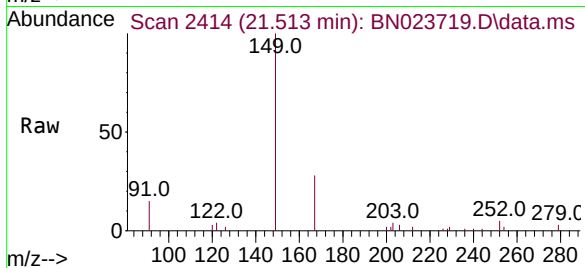
MW-12-0118

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 21849 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 26.8  | 19.8  | 29.8  |
| 279       | 2.8   | 2.5   | 3.7   |

Manual Integrations

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Reviewed By :Christian Giraldo 01/20/2023  
Supervised By :Jagrut Upadhyay 01/20/2023



#35

Perylene-d12

Concen: 0.400 ng

RT: 24.098 min Scan# 3092

Delta R.T. 0.024 min

Lab File: BN023719.D

Acq: 19 Jan 2023 15:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 11320 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 27.2  | 21.0  | 31.6  |
| 265       | 61.4  | 49.9  | 74.9  |

