

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062625\  
 Data File : BN037395.D  
 Acq On : 26 Jun 2025 16:06  
 Operator : RC/JU  
 Sample : Q2345-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EB02-20250616

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 06/27/2025  
 Supervised By :Jagrut Upadhyay 06/27/2025

Quant Time: Jun 26 16:29:04 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN062625.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 26 16:06:33 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.568  | 152  | 1748     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.340 | 136  | 3967     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.213 | 164  | 2665     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.971 | 188  | 5237     | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12              | 21.162 | 240  | 4862     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.351 | 264  | 4950     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.170  | 112  | 395      | 0.117 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.759  | 99   | 216      | 0.062 | ng    | 0.01     |
| 8) Nitrobenzene-d5            | 8.717  | 82   | 949      | 0.299 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.940 | 152  | 2153     | 0.351 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.718 | 330  | 560      | 0.358 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.833 | 172  | 5087     | 0.442 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.003 | 212  | 5956     | 0.397 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.611 | 244  | 4896     | 0.472 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 9) Naphthalene                | 10.394 | 128  | 573      | 0.056 | ng    | # 74     |
| 10) Hexachlorobutadiene       | 10.682 | 225  | 181      | 0.045 | ng    | # 96     |
| 12) 2-Methylnaphthalene       | 12.016 | 142  | 396      | 0.056 | ng    | # 95     |
| 16) Acenaphthylene            | 13.935 | 152  | 288      | 0.026 | ng    | # 88     |
| 17) Acenaphthene              | 14.277 | 154  | 185      | 0.026 | ng    | 97       |
| 18) Fluorene                  | 15.271 | 166  | 329      | 0.032 | ng    | 98       |
| 21) 4-Bromophenyl-phenylether | 16.164 | 248  | 145      | 0.039 | ng    | # 86     |
| 22) Hexachlorobenzene         | 16.276 | 284  | 189      | 0.048 | ng    | # 87     |
| 24) Pentachlorophenol         | 16.624 | 266  | 59       | 0.028 | ng    | # 85     |
| 25) Phenanthrene              | 17.009 | 178  | 425      | 0.029 | ng    | 97       |
| 26) Anthracene                | 17.108 | 178  | 442m     | 0.033 | ng    |          |
| 34) Bis(2-ethylhexyl)phtha... | 21.090 | 149  | 706      | 0.117 | ng    | # 96     |
| -----                         |        |      |          |       |       |          |

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

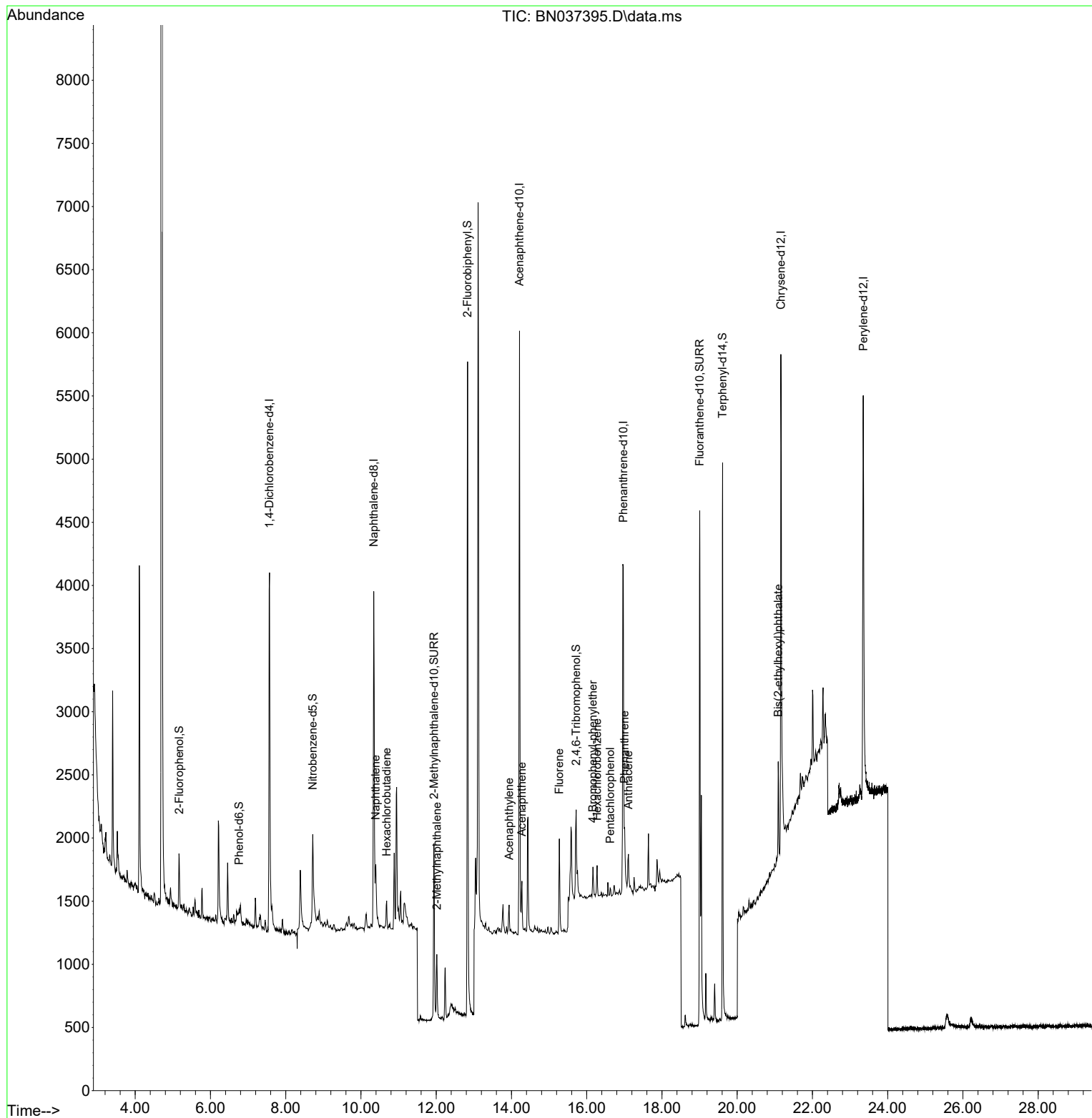
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062625\  
Data File : BN037395.D  
Acq On : 26 Jun 2025 16:06  
Operator : RC/JU  
Sample : Q2345-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_N  
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EB02-20250616

Manual Integrations  
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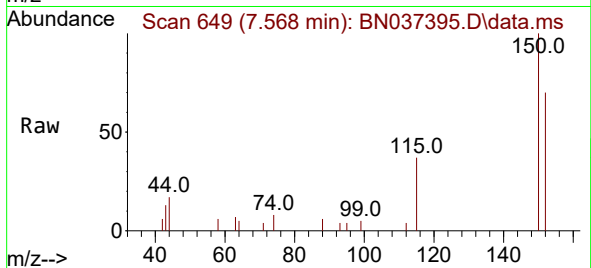
Quant Time: Jun 26 16:29:04 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN062625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 26 16:06:33 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.568 min Scan# 649  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

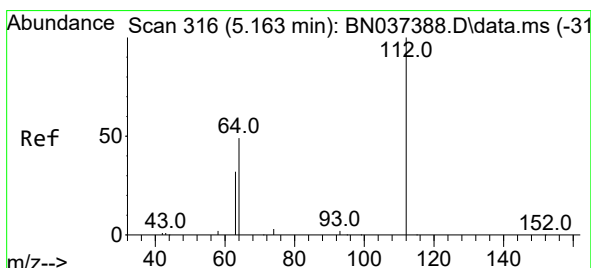
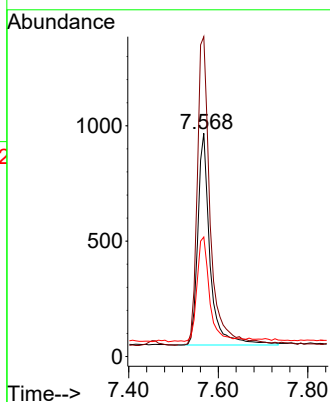
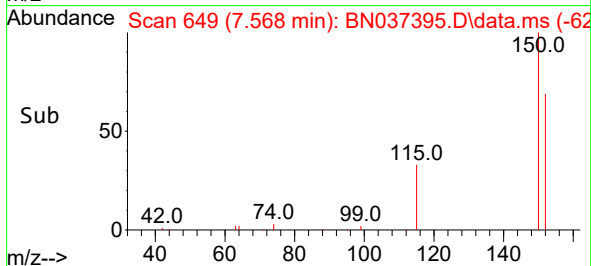
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



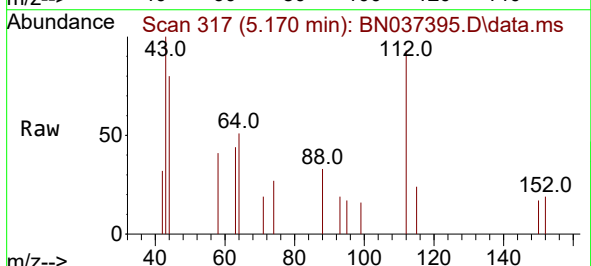
Tgt Ion:152 Resp: 1748  
Ion Ratio Lower Upper  
152 100  
150 143.3 116.2 174.2  
115 53.6 42.9 64.3

Manual Integrations  
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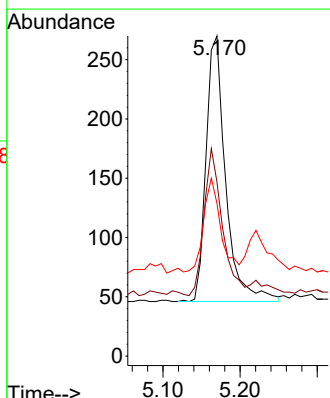
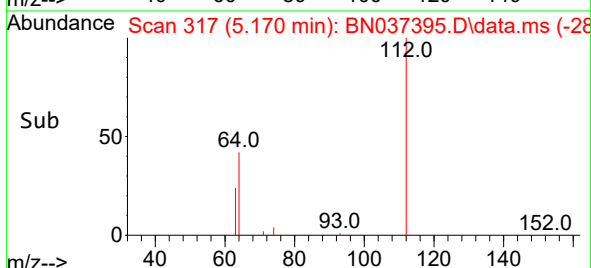
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025

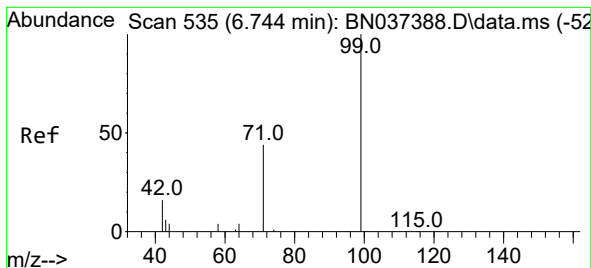


#4  
2-Fluorophenol  
Concen: 0.117 ng  
RT: 5.170 min Scan# 317  
Delta R.T. 0.007 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06



Tgt Ion:112 Resp: 395  
Ion Ratio Lower Upper  
112 100  
64 51.4 40.3 60.5  
63 33.7 26.1 39.1





#5

Phenol-d6

Concen: 0.062 ng

RT: 6.759 min Scan# 537

Delta R.T. 0.014 min

Lab File: BN037395.D

Acq: 26 Jun 2025 16:06

Instrument :

BNA\_N

ClientSampleId :

EB02-20250616

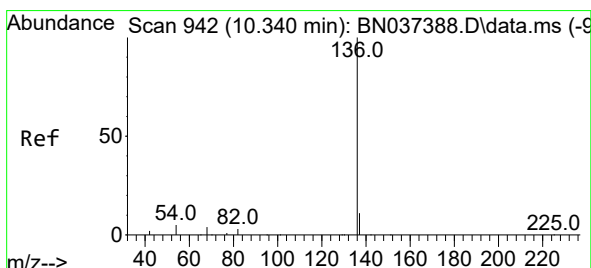
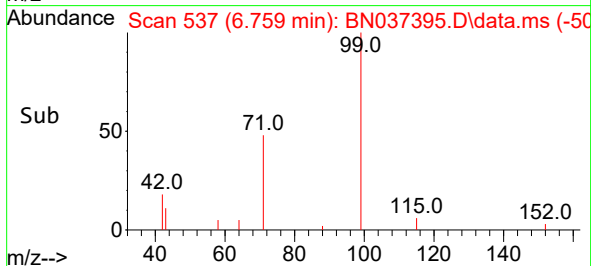
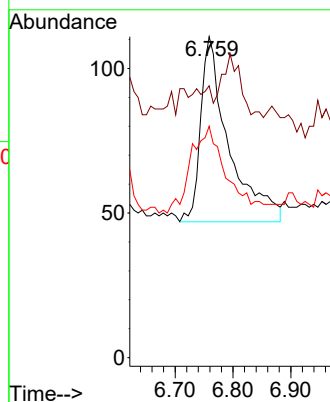
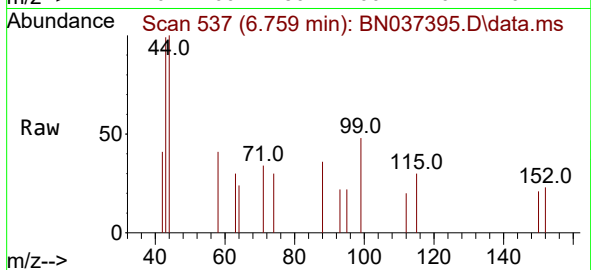
Tgt Ion: 99 Resp: 210  
 Ion Ratio Lower Upper  
 99 100  
 42 0.0 15.6 23.4  
 71 60.2 35.8 53.8

Manual Integrations

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#7

Naphthalene-d8

Concen: 0.400 ng

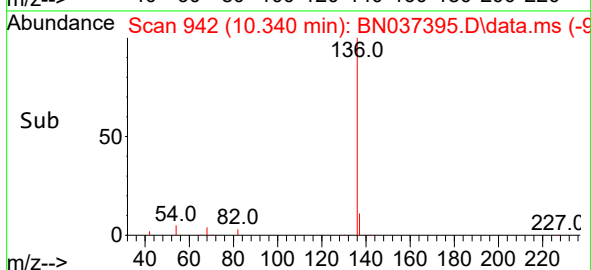
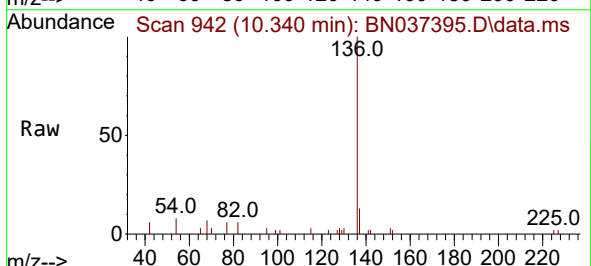
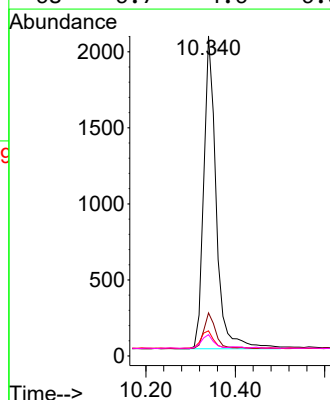
RT: 10.340 min Scan# 942

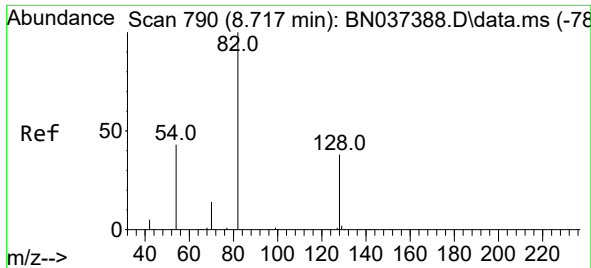
Delta R.T. -0.000 min

Lab File: BN037395.D

Acq: 26 Jun 2025 16:06

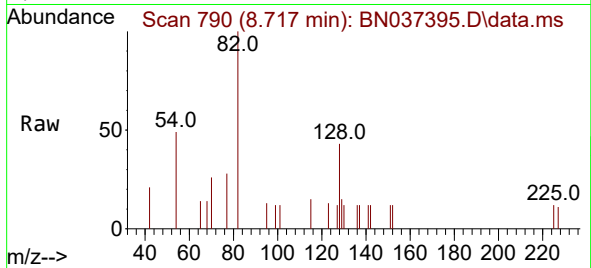
Tgt Ion:136 Resp: 3967  
 Ion Ratio Lower Upper  
 136 100  
 137 13.5 10.4 15.6  
 54 7.8 5.6 8.4  
 68 6.7 4.6 6.8





#8  
Nitrobenzene-d5  
Concen: 0.299 ng  
RT: 8.717 min Scan# 790  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

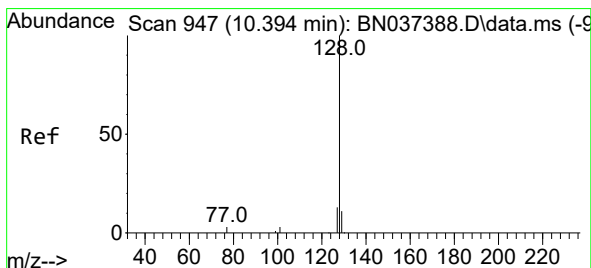
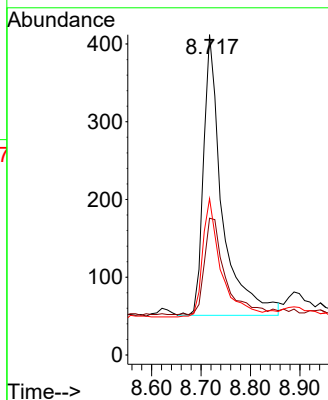
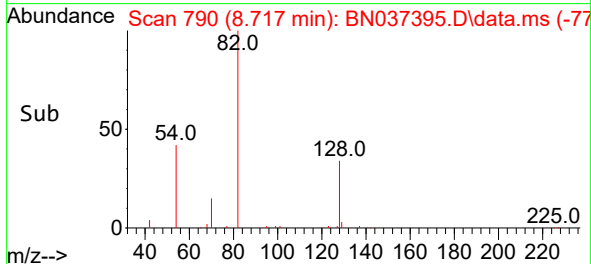
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



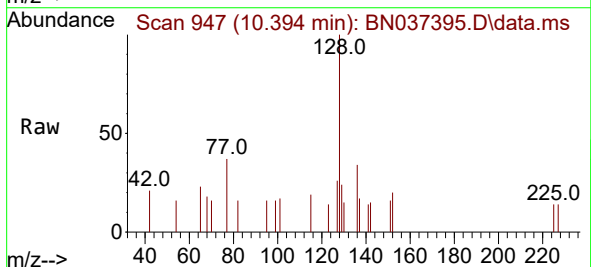
Tgt Ion: 82 Resp: 949  
Ion Ratio Lower Upper  
82 100  
128 42.7 34.0 51.0  
54 48.8 37.7 56.5

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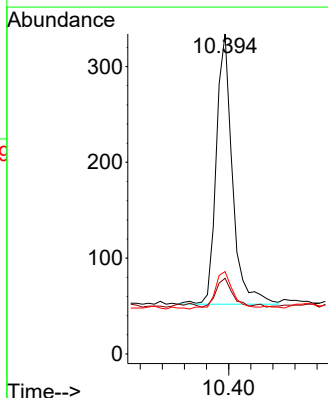
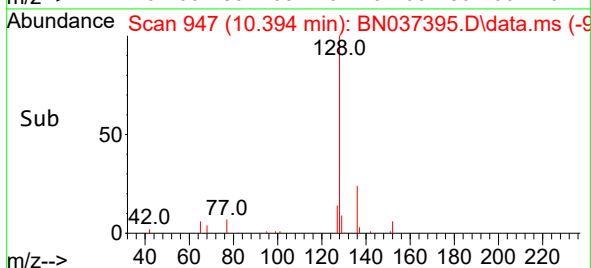
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025

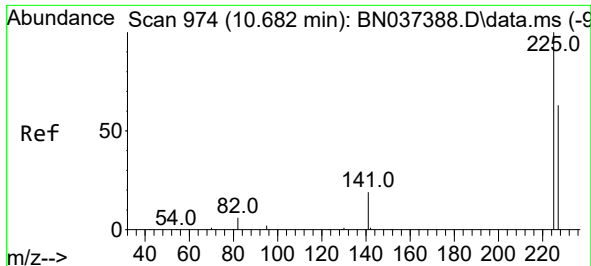


#9  
Naphthalene  
Concen: 0.056 ng  
RT: 10.394 min Scan# 947  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06



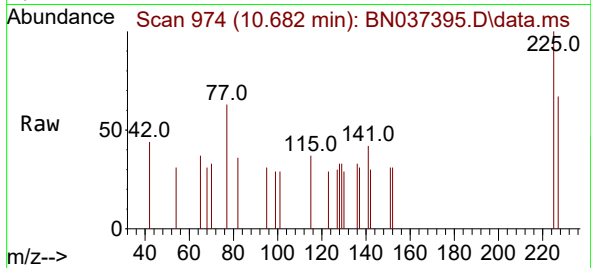
Tgt Ion:128 Resp: 573  
Ion Ratio Lower Upper  
128 100  
129 23.7 10.4 15.6#  
127 25.7 12.2 18.4#





#10  
Hexachlorobutadiene  
Concen: 0.045 ng  
RT: 10.682 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

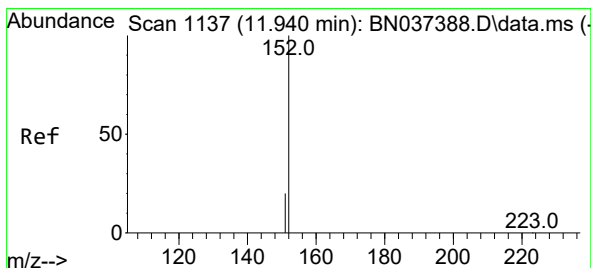
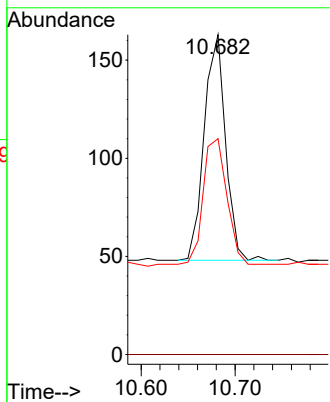
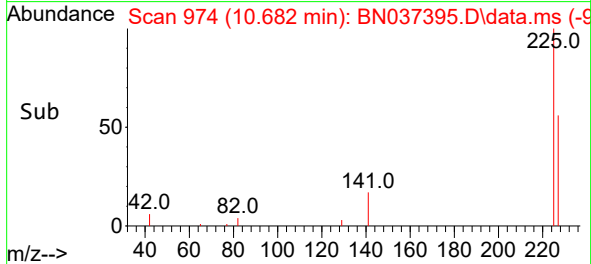
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



Tgt Ion:225 Resp: 18  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.7 49.9 74.9

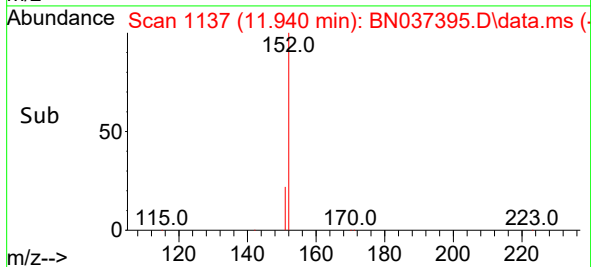
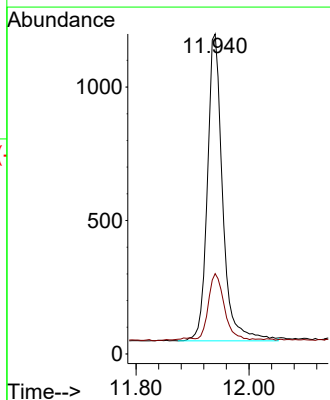
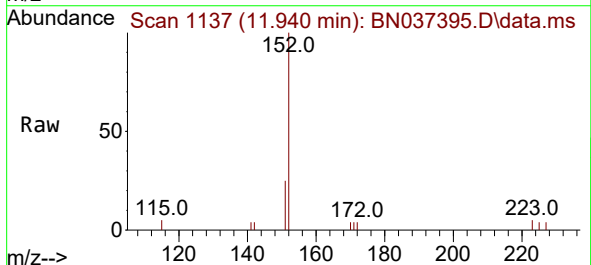
Manual Integrations  
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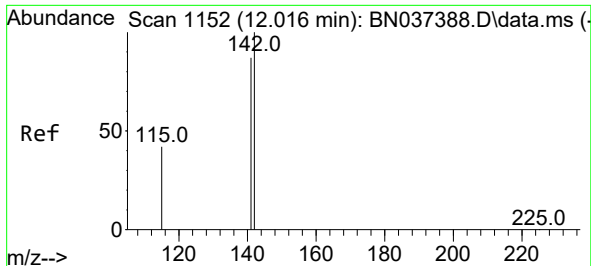
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025



#11  
2-Methylnaphthalene-d10  
Concen: 0.351 ng  
RT: 11.940 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

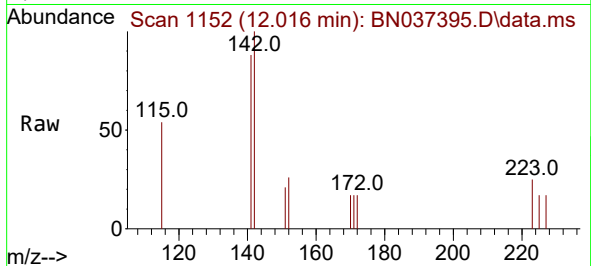
Tgt Ion:152 Resp: 2153  
Ion Ratio Lower Upper  
152 100  
151 22.2 18.4 27.6





#12  
2-Methylnaphthalene  
Concen: 0.056 ng  
RT: 12.016 min Scan# 1152  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

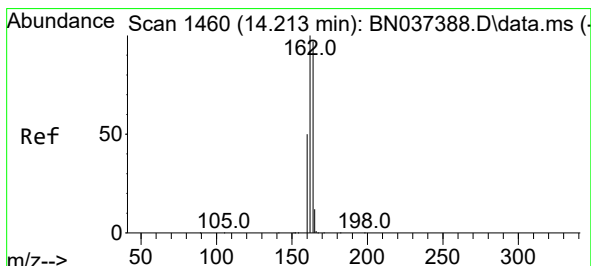
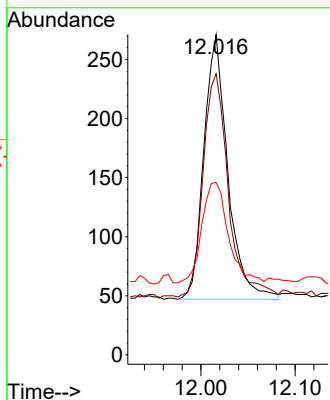
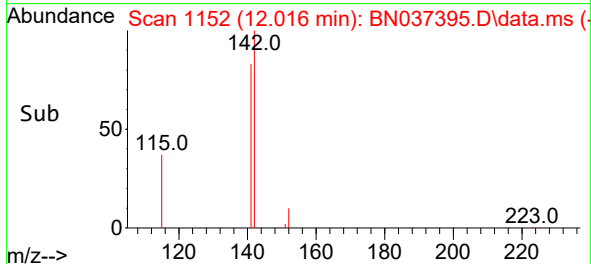
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



Tgt Ion:142 Resp: 390  
Ion Ratio Lower Upper  
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141 87.8 70.1 105.1  
115 53.9 35.8 53.6

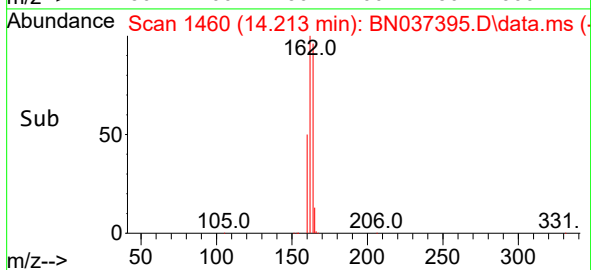
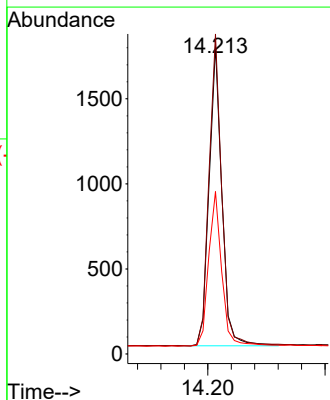
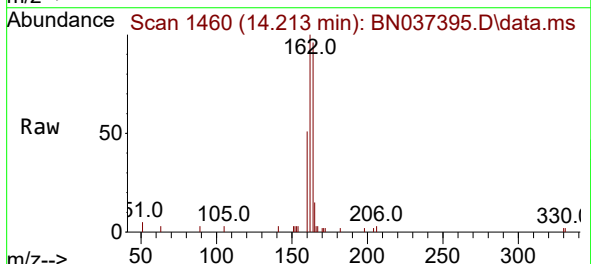
Manual Integrations  
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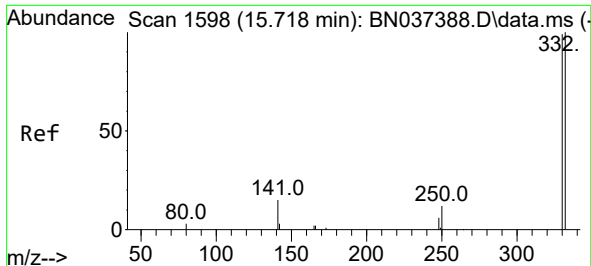
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.213 min Scan# 1460  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

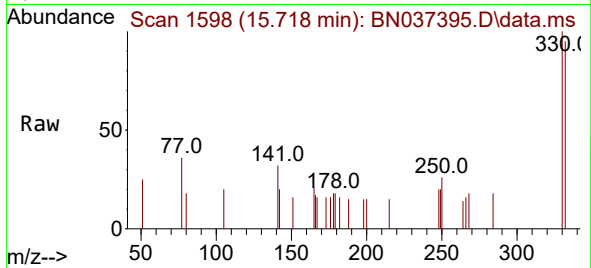
Tgt Ion:164 Resp: 2665  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.6 123.8  
160 52.8 42.2 63.2





#14  
2,4,6-Tribromophenol  
Concen: 0.358 ng  
RT: 15.718 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

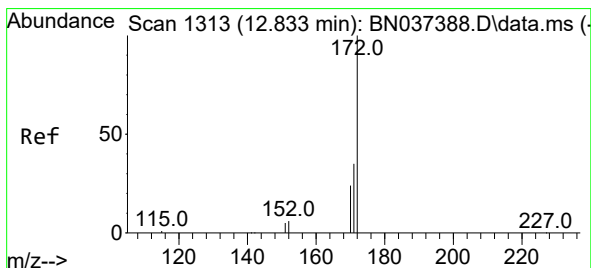
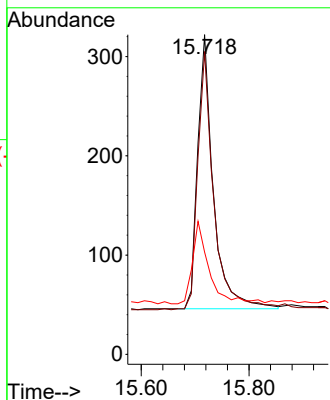
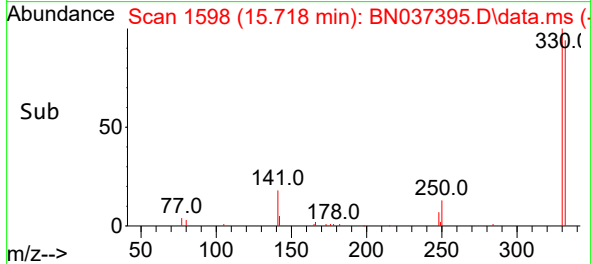
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



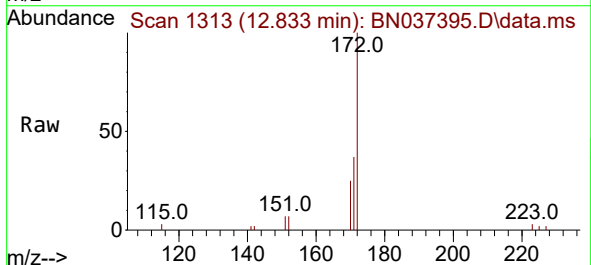
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Ion Ratio Lower Upper  
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141 31.6 24.0 36.0

Manual Integrations  
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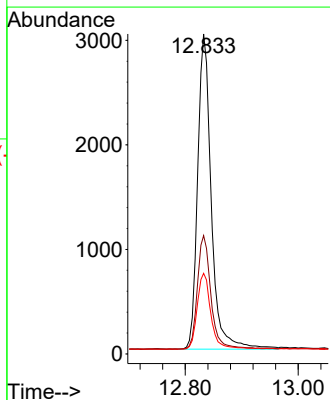
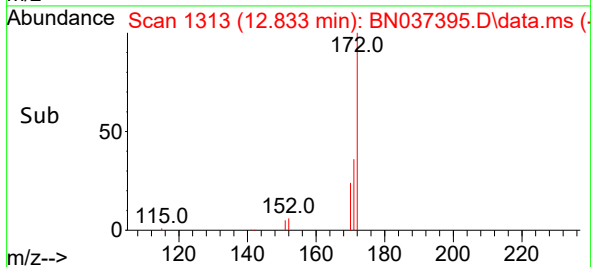
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025

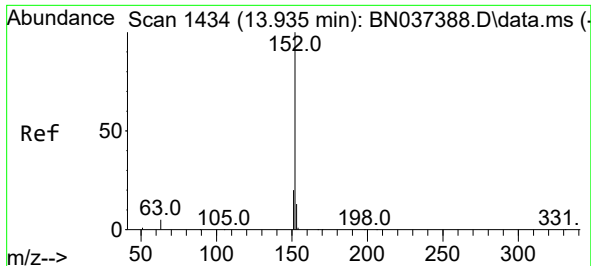


#15  
2-Fluorobiphenyl  
Concen: 0.442 ng  
RT: 12.833 min Scan# 1313  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06



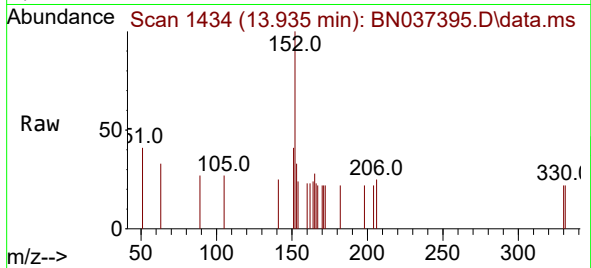
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Ion Ratio Lower Upper  
172 100  
171 37.0 28.8 43.2  
170 25.2 20.3 30.5





#16  
Acenaphthylene  
Concen: 0.026 ng  
RT: 13.935 min Scan# 1434  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

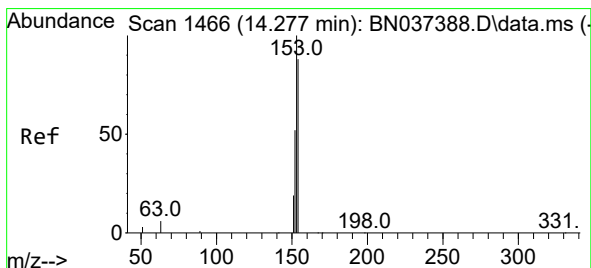
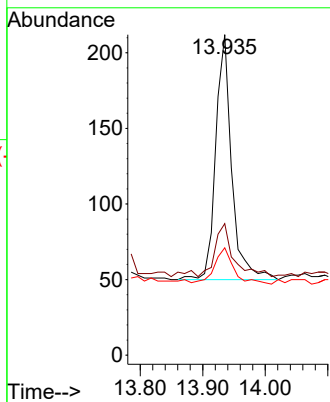
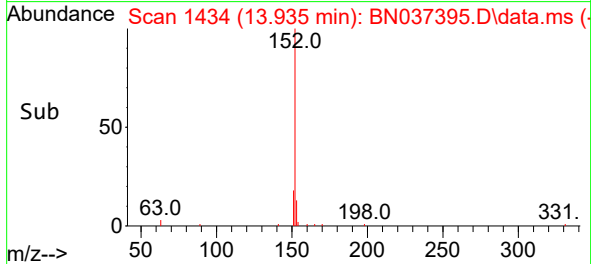
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



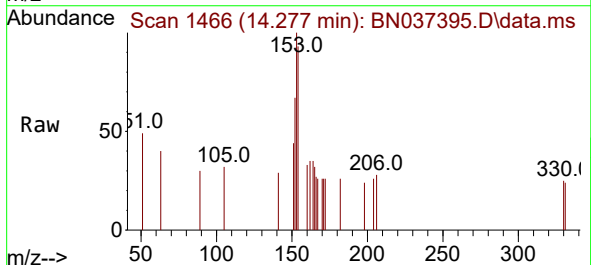
Tgt Ion:152 Resp: 288  
Ion Ratio Lower Upper  
152 100  
151 24.7 15.8 23.6  
153 18.1 10.3 15.5

Manual Integrations  
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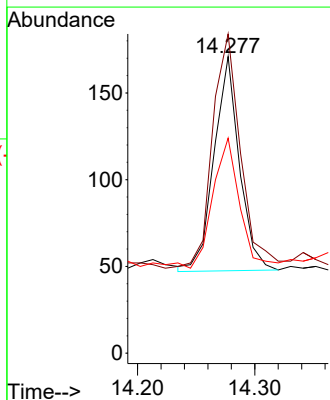
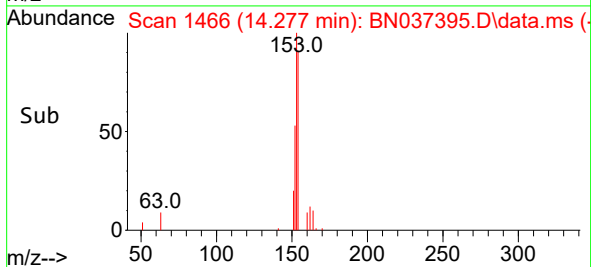
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025

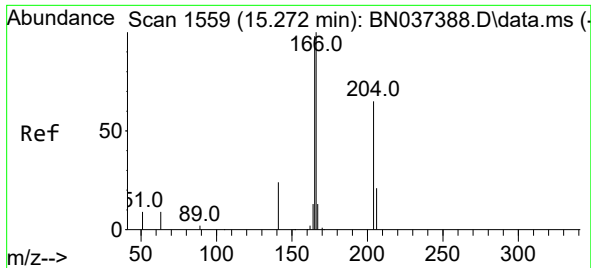


#17  
Acenaphthene  
Concen: 0.026 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06



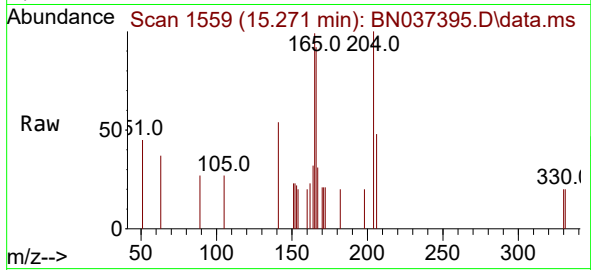
Tgt Ion:154 Resp: 185  
Ion Ratio Lower Upper  
154 100  
153 122.2 94.6 141.8  
152 63.8 50.2 75.2





#18  
Fluorene  
Concen: 0.032 ng  
RT: 15.271 min Scan# 1559  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

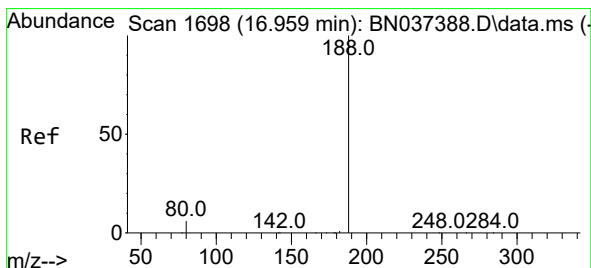
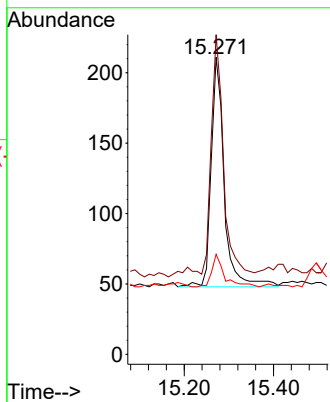
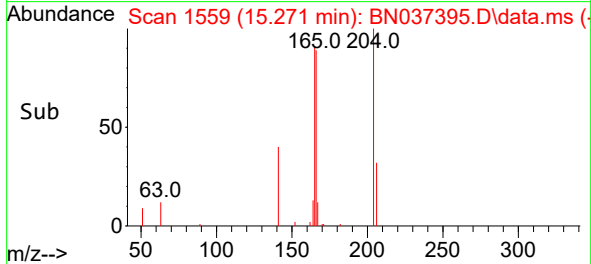
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



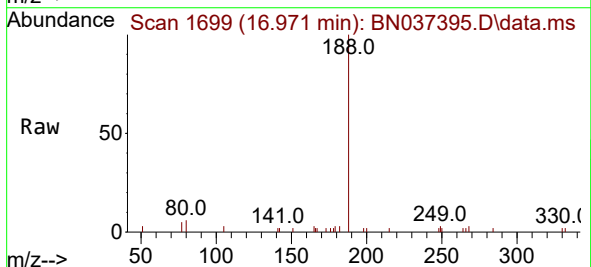
Tgt Ion:166 Resp: 329  
Ion Ratio Lower Upper  
166 100  
165 97.3 79.4 119.2  
167 13.4 10.6 15.8

Manual Integrations  
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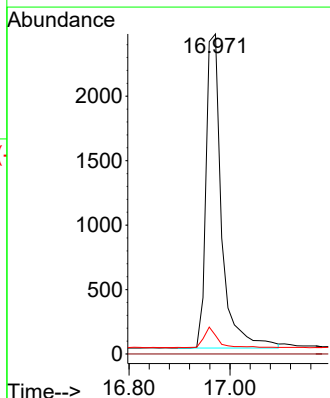
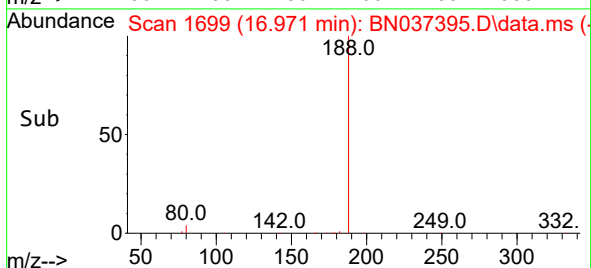
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025

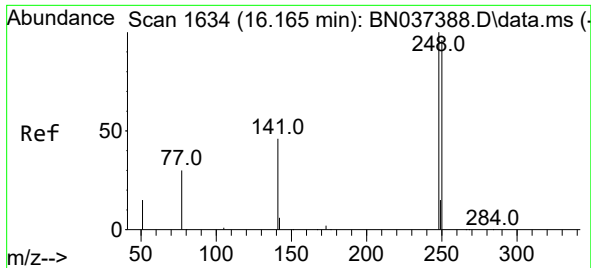


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.971 min Scan# 1699  
Delta R.T. 0.012 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06



Tgt Ion:188 Resp: 5237  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 5.8 6.2 9.4





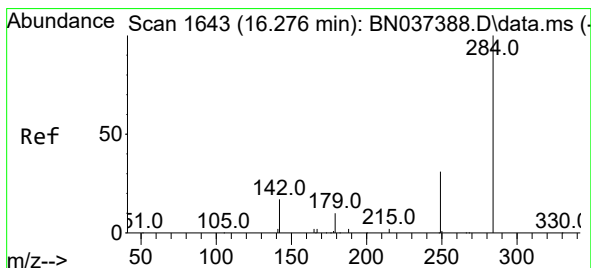
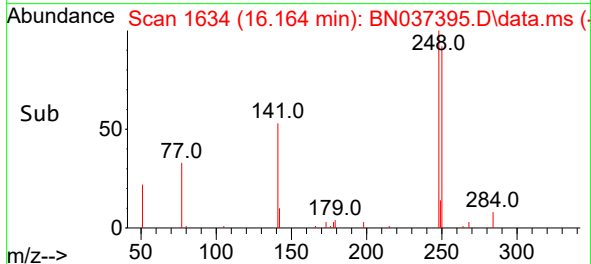
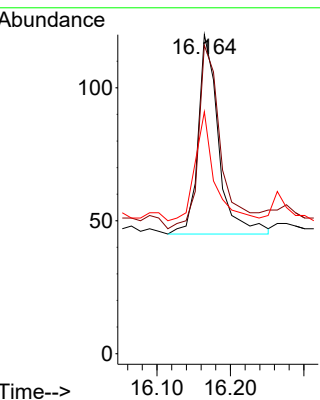
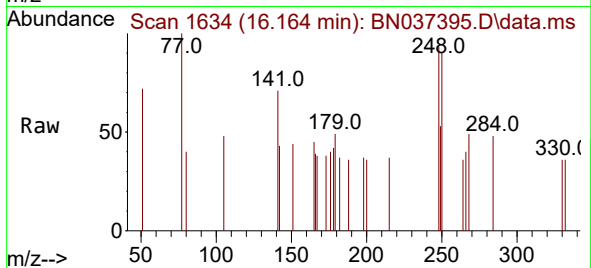
#21  
4-Bromophenyl-phenylether  
Concen: 0.039 ng  
RT: 16.164 min Scan# 1634  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616

Tgt Ion:248 Resp: 145  
Ion Ratio Lower Upper  
248 100  
250 96.7 77.0 115.4  
141 75.8 38.7 58.1

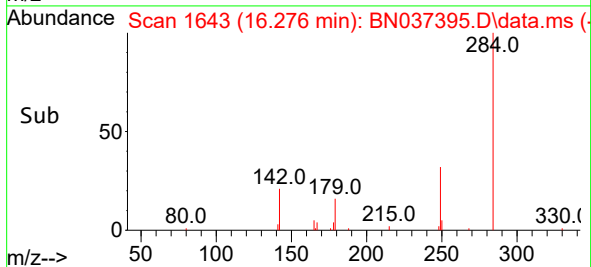
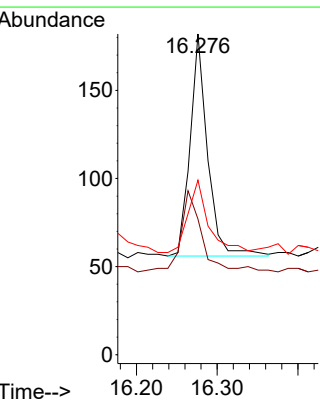
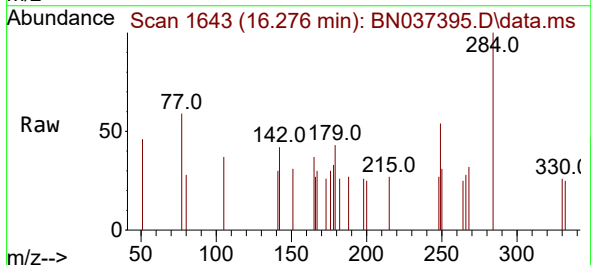
Manual Integrations  
APPROVED

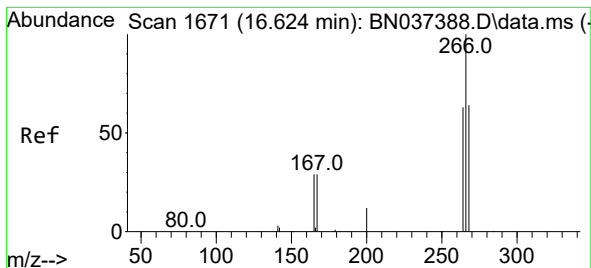
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025



#22  
Hexachlorobenzene  
Concen: 0.048 ng  
RT: 16.276 min Scan# 1643  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

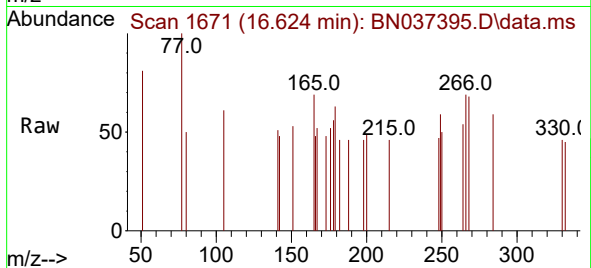
Tgt Ion:284 Resp: 189  
Ion Ratio Lower Upper  
284 100  
142 44.4 27.2 40.8#  
249 38.1 26.7 40.1





#24  
Pentachlorophenol  
Concen: 0.028 ng  
RT: 16.624 min Scan# 1671  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

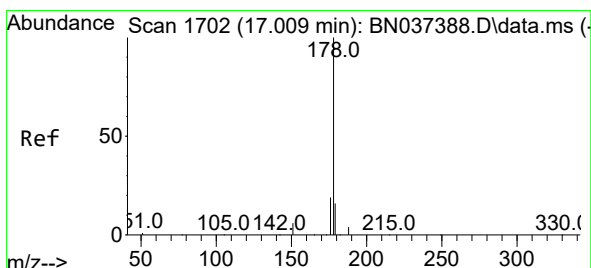
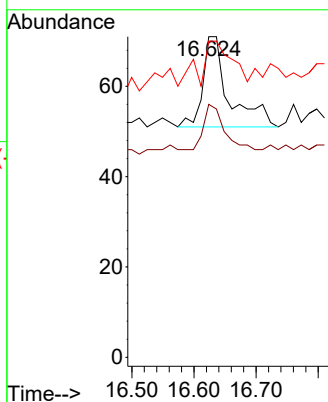
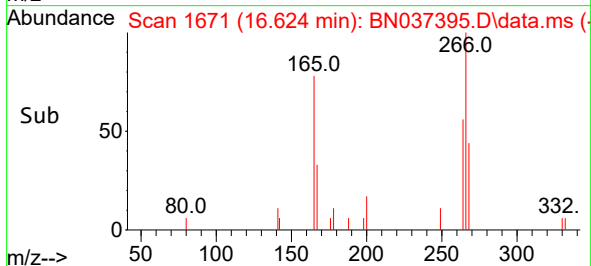
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



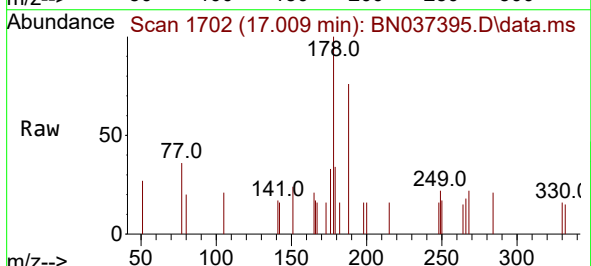
Tgt Ion:266 Resp: 59  
Ion Ratio Lower Upper  
266 100  
264 44.1 49.2 73.8  
268 61.0 54.2 81.4

Manual Integrations  
APPROVED

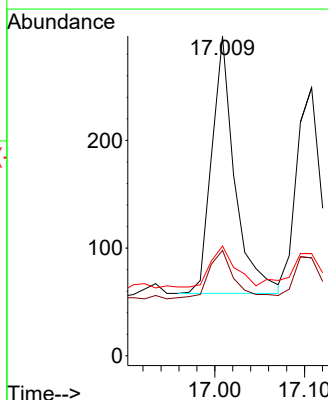
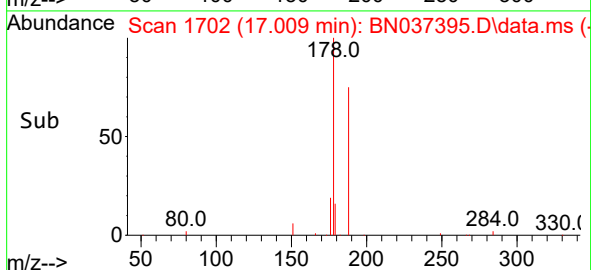
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025

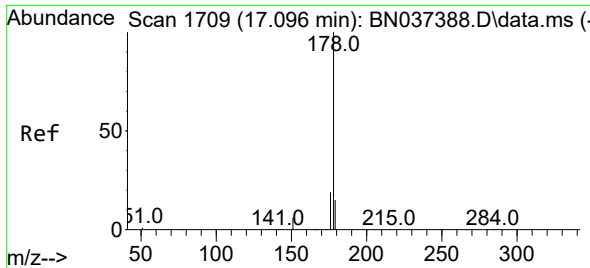


#25  
Phenanthrene  
Concen: 0.029 ng  
RT: 17.009 min Scan# 1702  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06



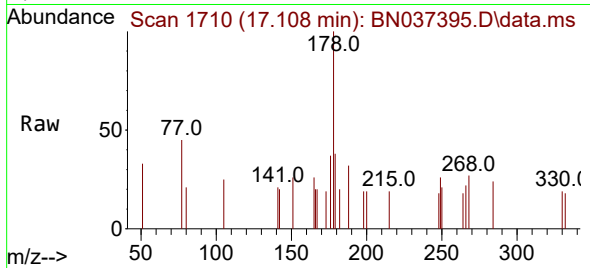
Tgt Ion:178 Resp: 425  
Ion Ratio Lower Upper  
178 100  
176 21.4 15.6 23.4  
179 16.7 12.8 19.2





#26  
 Anthracene  
 Concen: 0.033 ng m  
 RT: 17.108 min Scan# 1710  
 Delta R.T. 0.012 min  
 Lab File: BN037395.D  
 Acq: 26 Jun 2025 16:06

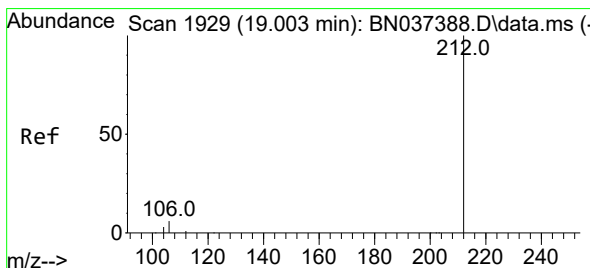
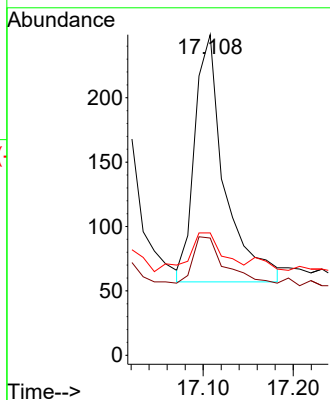
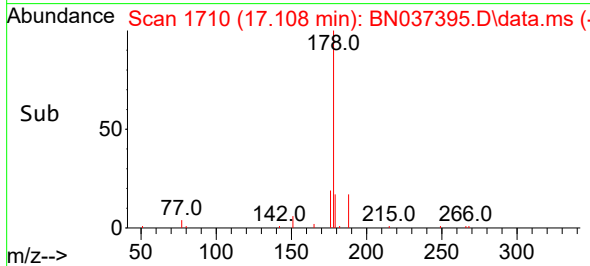
Instrument :  
 BNA\_N  
 ClientSampleId :  
 EB02-20250616



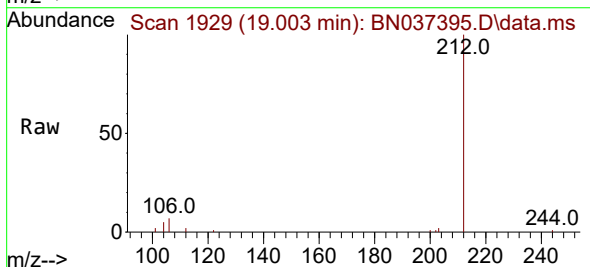
Tgt Ion:178 Resp: 442  
 Ion Ratio Lower Upper  
 178 100  
 176 20.6 14.9 22.3  
 179 16.1 12.4 18.6

Manual Integrations  
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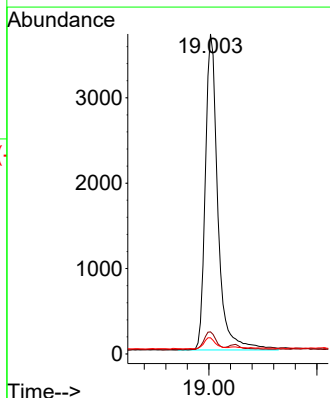
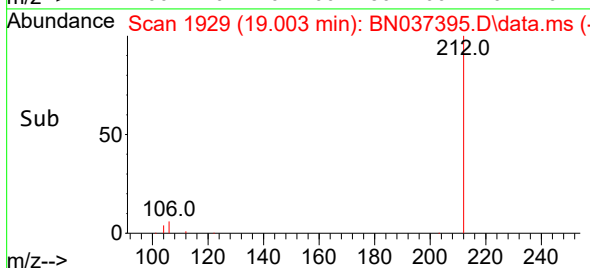
Reviewed By :Rahul Chavli 06/27/2025  
 Supervised By :Jagrut Upadhyay 06/27/2025

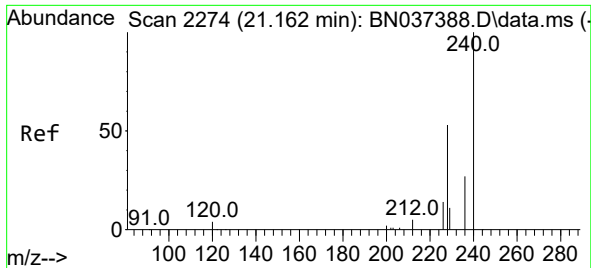


#27  
 Fluoranthene-d10  
 Concen: 0.397 ng  
 RT: 19.003 min Scan# 1929  
 Delta R.T. -0.000 min  
 Lab File: BN037395.D  
 Acq: 26 Jun 2025 16:06



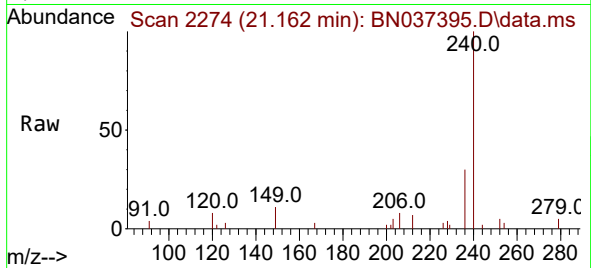
Tgt Ion:212 Resp: 5956  
 Ion Ratio Lower Upper  
 212 100  
 106 5.5 4.5 6.7  
 104 3.3 2.7 4.1





#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.162 min Scan# 2117  
Delta R.T. -0.000 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06

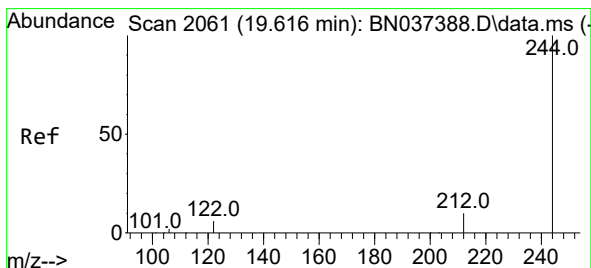
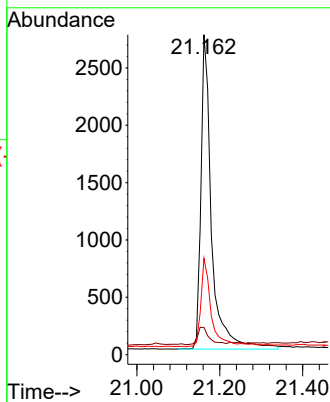
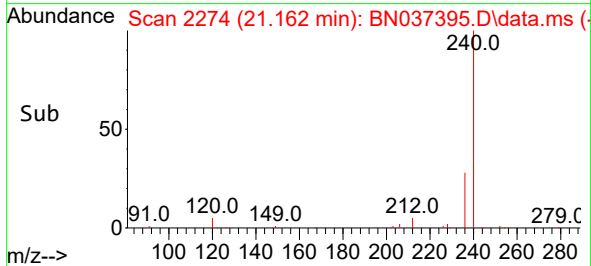
Instrument :  
BNA\_N  
ClientSampleId :  
EB02-20250616



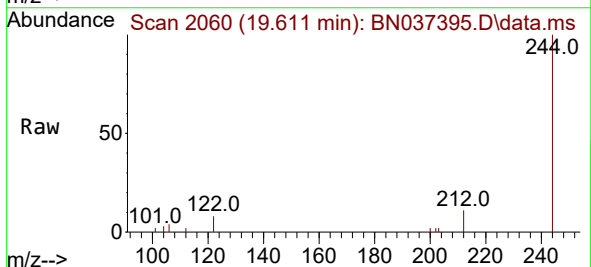
Tgt Ion:240 Resp: 4862  
Ion Ratio Lower Upper  
240 100  
120 8.5 5.3 7.9  
236 30.1 22.7 34.1

Manual Integrations  
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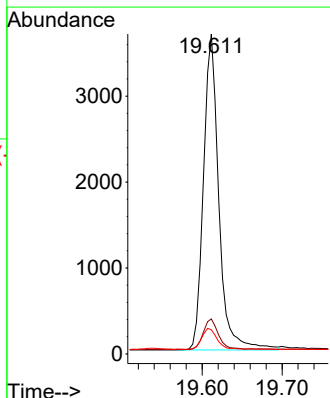
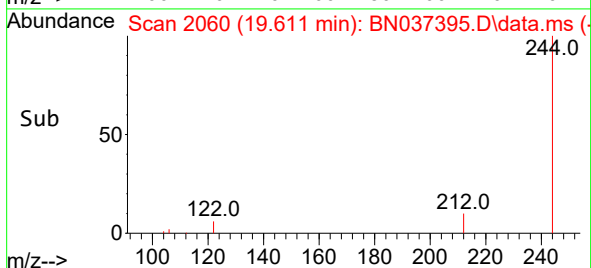
Reviewed By :Rahul Chavli 06/27/2025  
Supervised By :Jagrut Upadhyay 06/27/2025

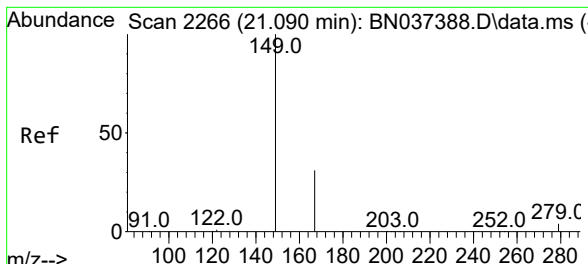


#31  
Terphenyl-d14  
Concen: 0.472 ng  
RT: 19.611 min Scan# 2060  
Delta R.T. -0.005 min  
Lab File: BN037395.D  
Acq: 26 Jun 2025 16:06



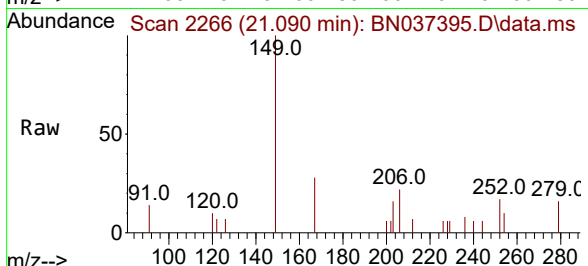
Tgt Ion:244 Resp: 4896  
Ion Ratio Lower Upper  
244 100  
212 10.9 9.1 13.7  
122 7.5 6.3 9.5





#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.117 ng  
 RT: 21.090 min Scan# 2109  
 Delta R.T. -0.000 min  
 Lab File: BN037395.D  
 Acq: 26 Jun 2025 16:06

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EB02-20250616

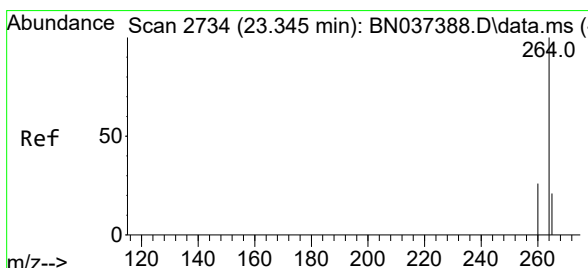
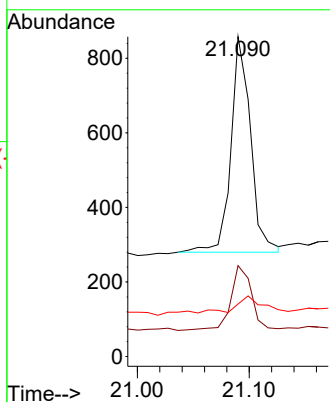
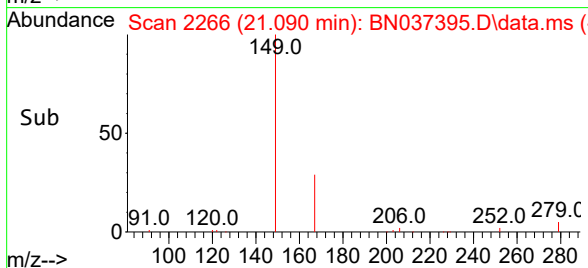


Tgt Ion: 149 Resp: 700

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 32.2  | 24.8  | 37.2  |
| 279 | 10.8  | 5.0   | 7.6   |

Manual Integrations  
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Reviewed By :Rahul Chavli 06/27/2025  
 Supervised By :Jagrut Upadhyay 06/27/2025



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.351 min Scan# 2736  
 Delta R.T. 0.006 min  
 Lab File: BN037395.D  
 Acq: 26 Jun 2025 16:06

Tgt Ion: 264 Resp: 4950

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 27.0  | 21.4  | 32.0  |
| 265 | 83.6  | 56.2  | 84.4  |

