

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082224\  
 Data File : BN033569.D  
 Acq On : 23 Aug 2024 01:41  
 Operator : MA/JU  
 Sample : P3671-09  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S-928-K1-SO-0-0.5-081924

Quant Time: Aug 23 02:37:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 23 00:22:18 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/23/2024  
 Supervised By :mohammad ahmed 08/24/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.545  | 152  | 8106     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.304 | 136  | 21263    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.178 | 164  | 10490    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.929 | 188  | 20512    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.139 | 240  | 15408    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.300 | 264  | 17341    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.183  | 112  | 4125     | 0.160 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.729  | 99   | 5024     | 0.164 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.681  | 82   | 3434     | 0.195 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.903 | 152  | 4545     | 0.149 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.676 | 330  | 810      | 0.144 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.799 | 172  | 6379     | 0.149 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.970 | 212  | 6326     | 0.128 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.584 | 244  | 4283     | 0.122 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 16) Acenaphthylene            | 13.900 | 152  | 1331     | 0.029 | ng    | 98       |
| 25) Phenanthrene              | 16.967 | 178  | 10734m   | 0.188 | ng    |          |
| 26) Anthracene                | 17.066 | 178  | 1598     | 0.032 | ng    | # 91     |
| 28) Fluoranthene              | 19.003 | 202  | 26129    | 0.414 | ng    | 99       |
| 30) Pyrene                    | 19.365 | 202  | 22828    | 0.332 | ng    | # 95     |
| 32) Benzo(a)anthracene        | 21.122 | 228  | 10402    | 0.187 | ng    | 93       |
| 33) Chrysene                  | 21.175 | 228  | 13676    | 0.247 | ng    | 96       |
| 34) Bis(2-ethylhexyl)phtha... | 21.077 | 149  | 2334m    | 0.066 | ng    |          |
| 36) Indeno(1,2,3-cd)pyrene    | 25.446 | 276  | 9755     | 0.136 | ng    | 95       |
| 37) Benzo(b)fluoranthene      | 22.657 | 252  | 19653    | 0.303 | ng    | # 89     |
| 38) Benzo(k)fluoranthene      | 22.698 | 252  | 7351m    | 0.115 | ng    |          |
| 39) Benzo(a)pyrene            | 23.206 | 252  | 12177    | 0.227 | ng    | # 87     |
| 40) Dibenzo(a,h)anthracene    | 25.461 | 278  | 2251     | 0.039 | ng    | # 41     |
| 41) Benzo(g,h,i)perylene      | 26.104 | 276  | 10031    | 0.163 | ng    | 92       |

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

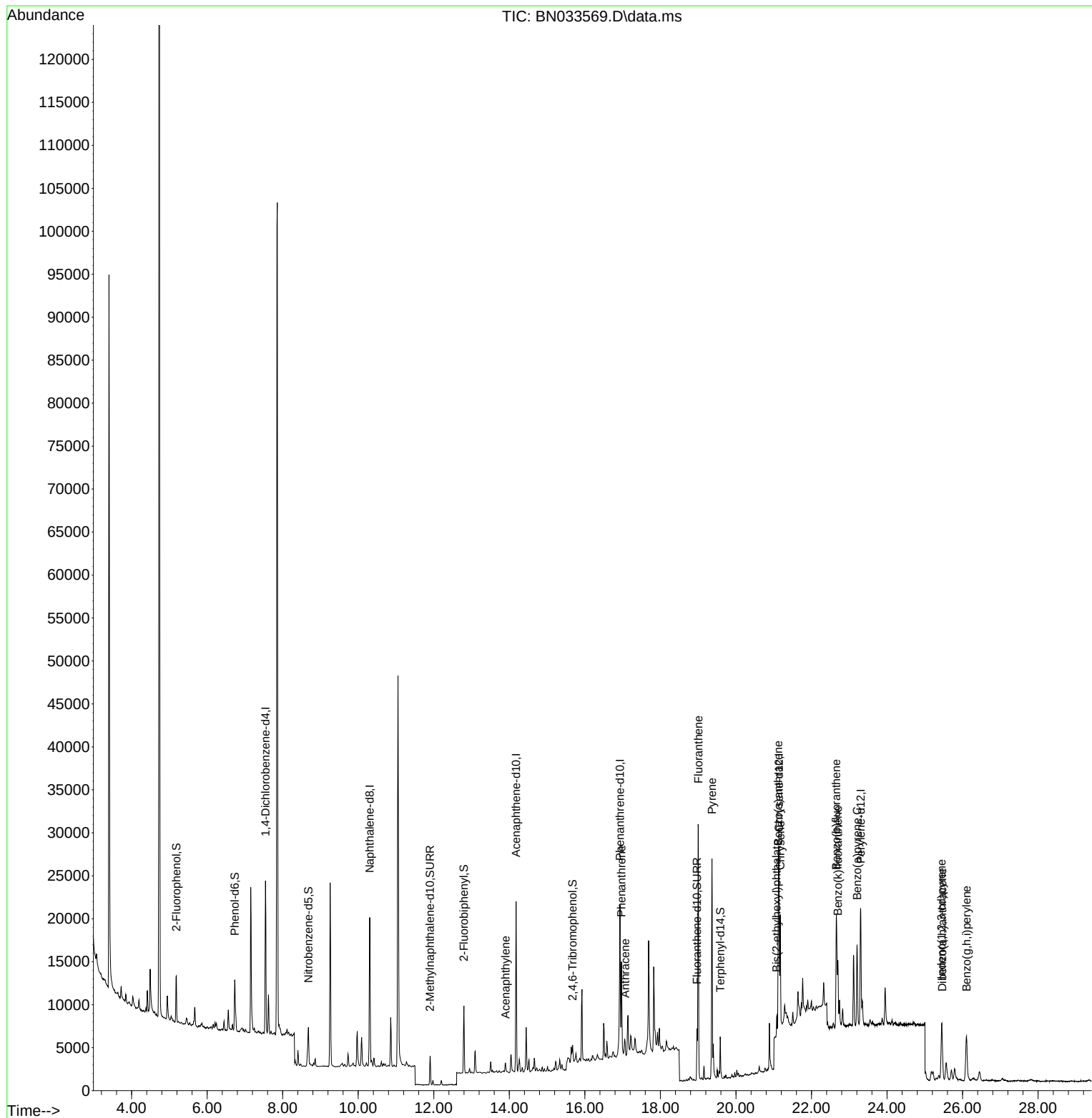
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082224\  
Data File : BN033569.D  
Acq On : 23 Aug 2024 01:41  
Operator : MA/JU  
Sample : P3671-09  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

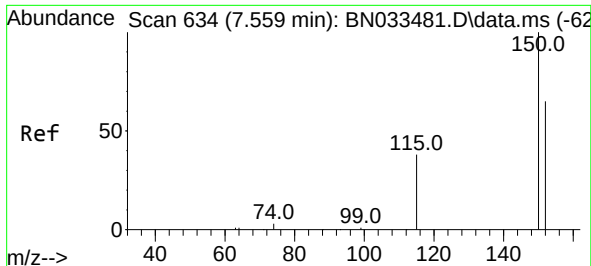
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924

Quant Time: Aug 23 02:37:20 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 23 00:22:18 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

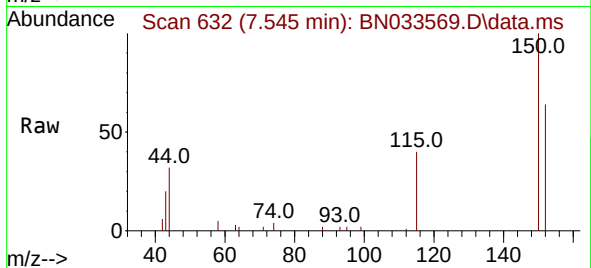
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.545 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

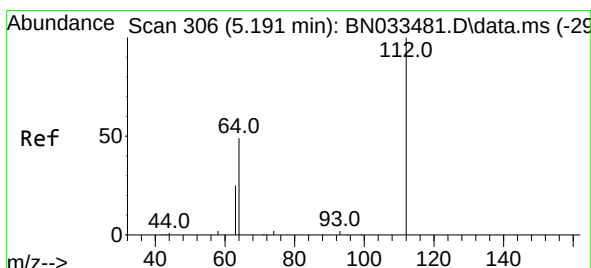
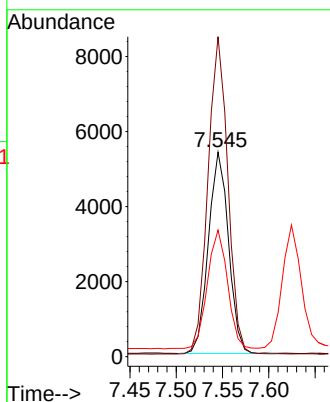
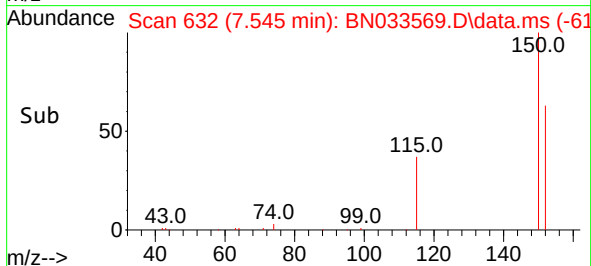
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:152 Resp: 8100  
Ion Ratio Lower Upper  
152 100  
150 156.4 122.2 183.2  
115 61.9 47.2 70.8

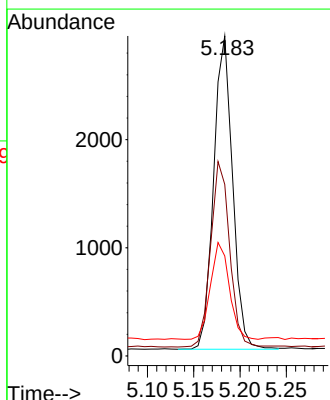
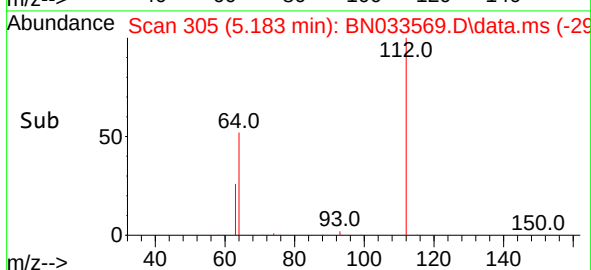
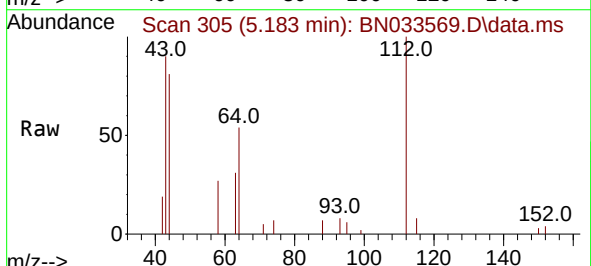
Manual Integrations  
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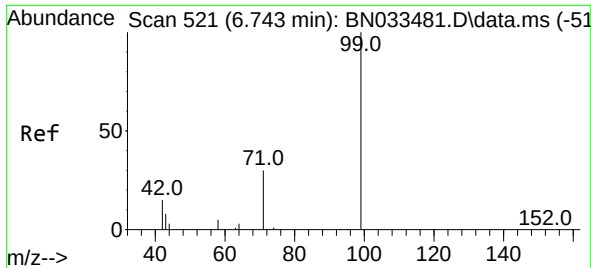
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#4  
2-Fluorophenol  
Concen: 0.160 ng  
RT: 5.183 min Scan# 305  
Delta R.T. 0.007 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

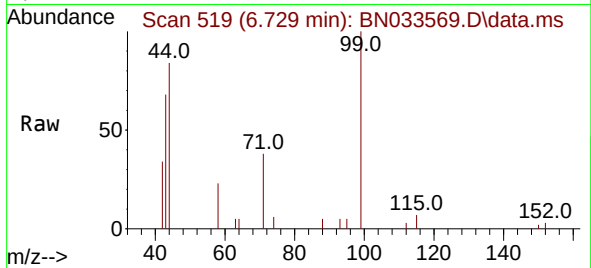
Tgt Ion:112 Resp: 4125  
Ion Ratio Lower Upper  
112 100  
64 59.8 47.1 70.7  
63 30.6 24.9 37.3





#5  
Phenol-d6  
Concen: 0.164 ng  
RT: 6.729 min Scan# 519  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

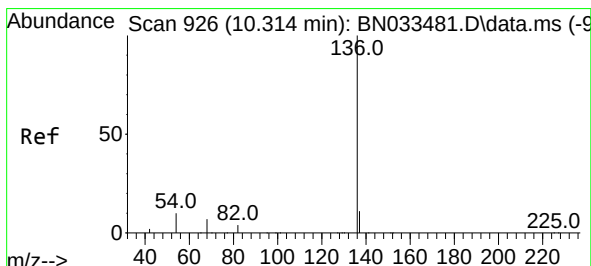
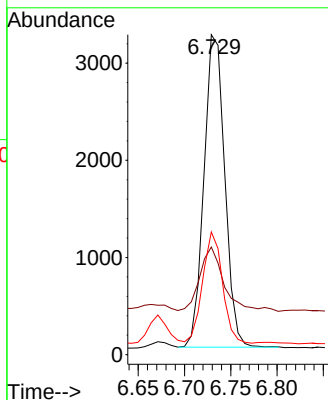
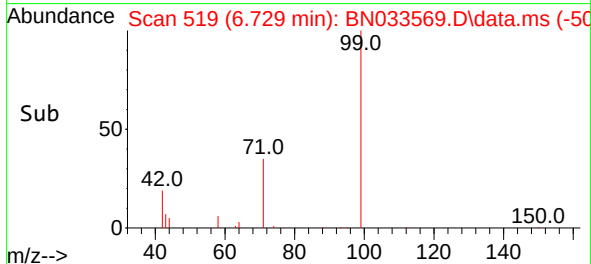
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



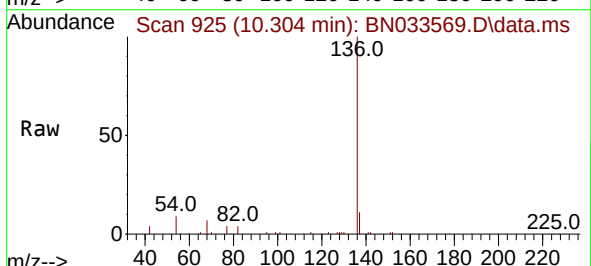
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Ion Ratio Lower Upper  
99 100  
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71 33.9 26.2 39.4

Manual Integrations  
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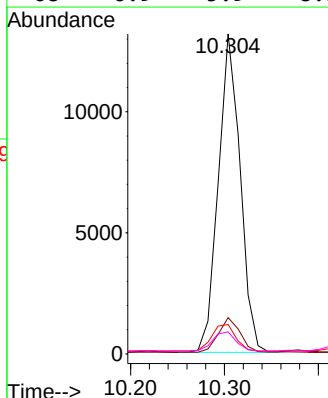
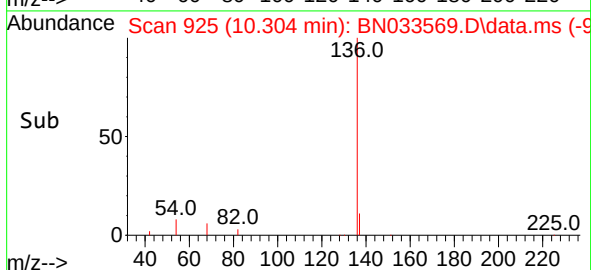
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024

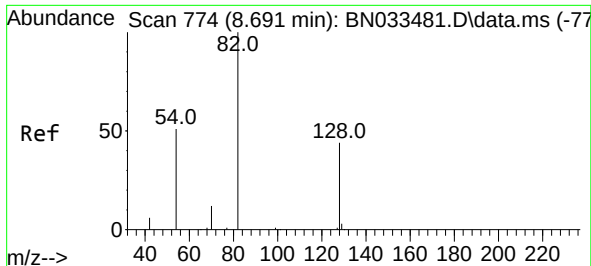


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.304 min Scan# 925  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41



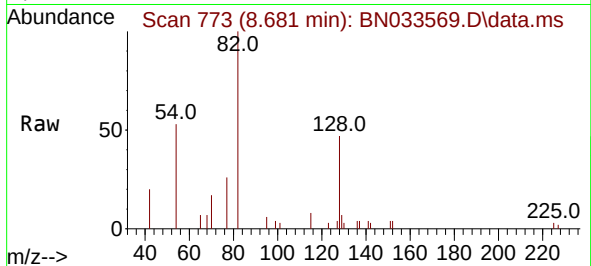
Tgt Ion:136 Resp: 21263  
Ion Ratio Lower Upper  
136 100  
137 11.4 9.0 13.6  
54 9.2 8.3 12.5  
68 6.9 5.9 8.9





#8  
Nitrobenzene-d5  
Concen: 0.195 ng  
RT: 8.681 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

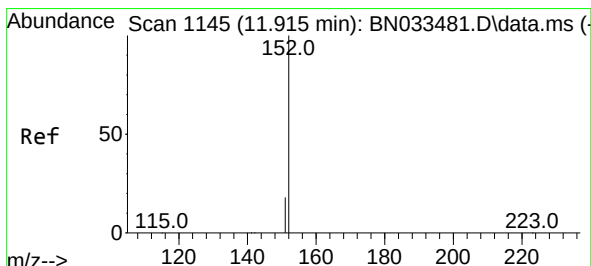
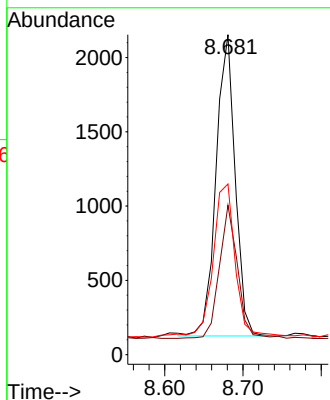
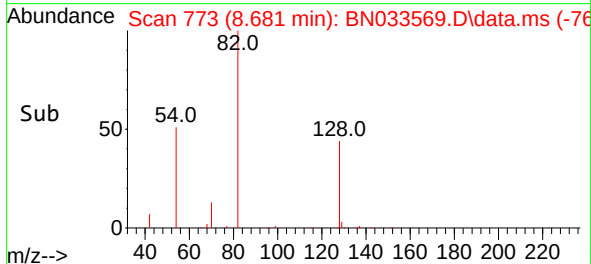
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion: 82 Resp: 3434  
Ion Ratio Lower Upper  
82 100  
128 46.7 36.0 54.0  
54 53.3 42.0 63.0

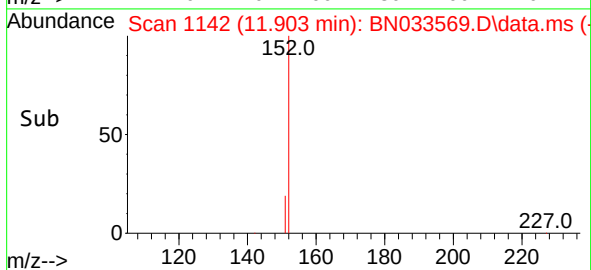
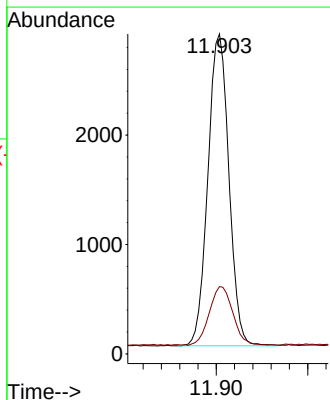
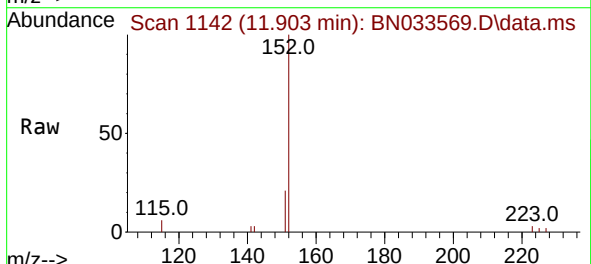
Manual Integrations  
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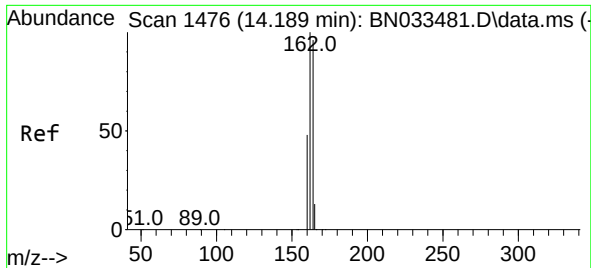
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#11  
2-Methylnaphthalene-d10  
Concen: 0.149 ng  
RT: 11.903 min Scan# 1142  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

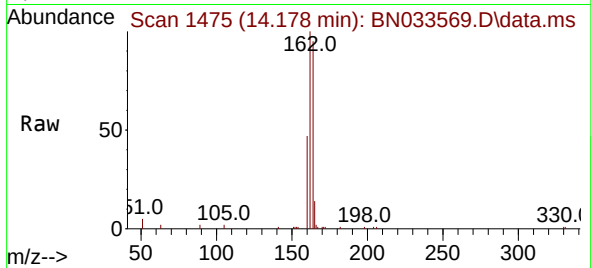
Tgt Ion:152 Resp: 4545  
Ion Ratio Lower Upper  
152 100  
151 21.3 16.6 25.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.178 min Scan# 1475  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

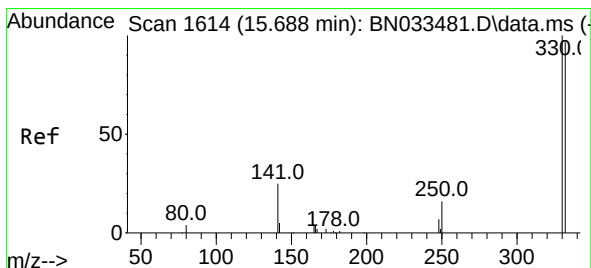
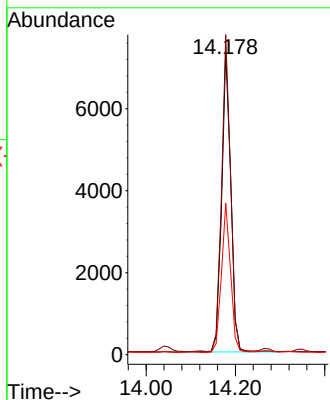
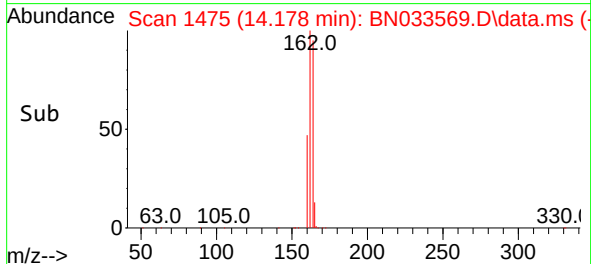
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



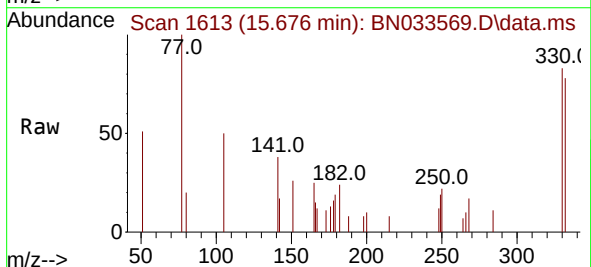
Tgt Ion:164 Resp: 10490  
Ion Ratio Lower Upper  
164 100  
162 105.6 83.5 125.3  
160 50.1 40.2 60.4

Manual Integrations  
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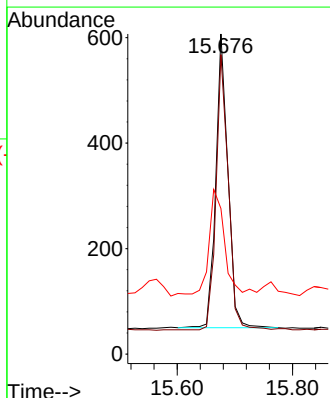
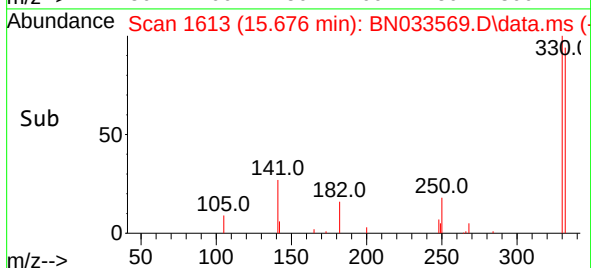
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024

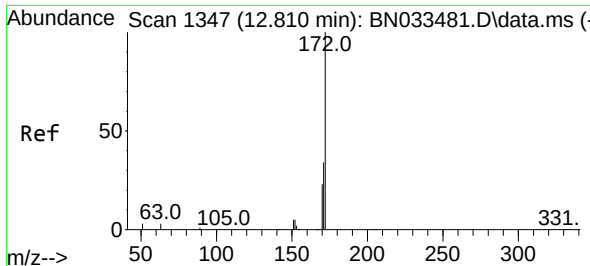


#14  
2,4,6-Tribromophenol  
Concen: 0.144 ng  
RT: 15.676 min Scan# 1613  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41



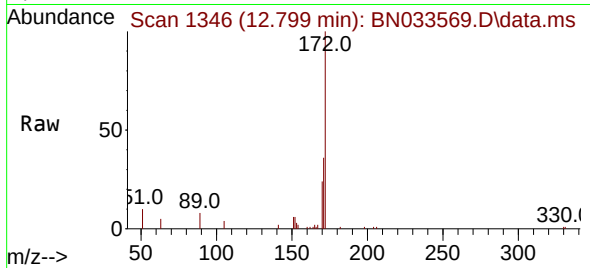
Tgt Ion:330 Resp: 810  
Ion Ratio Lower Upper  
330 100  
332 94.6 77.5 116.3  
141 44.2 33.9 50.9





#15  
2-Fluorobiphenyl  
Concen: 0.149 ng  
RT: 12.799 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

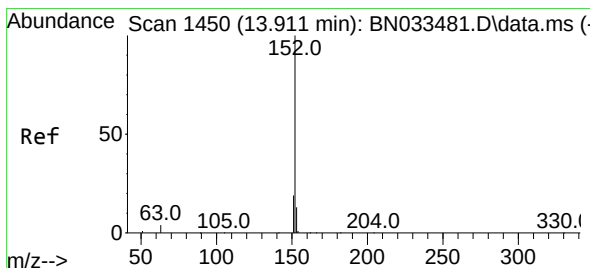
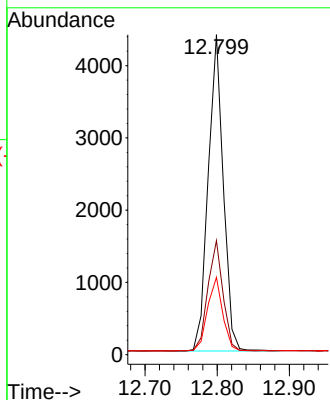
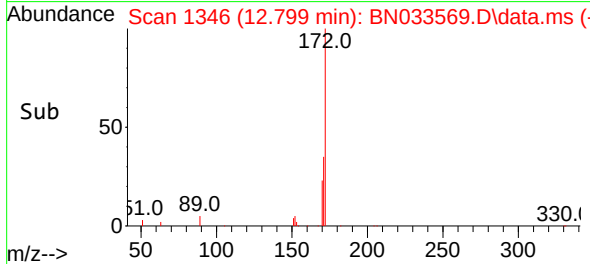
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:172 Resp: 6379  
Ion Ratio Lower Upper  
172 100  
171 35.7 27.7 41.5  
170 24.2 18.3 27.5

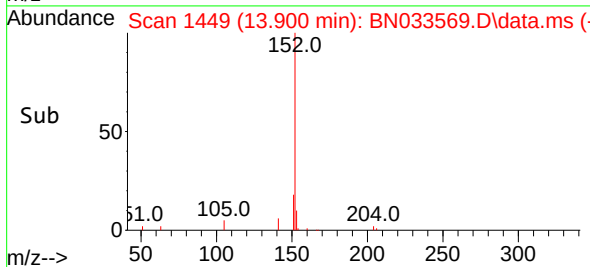
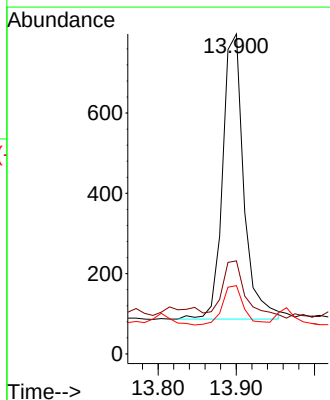
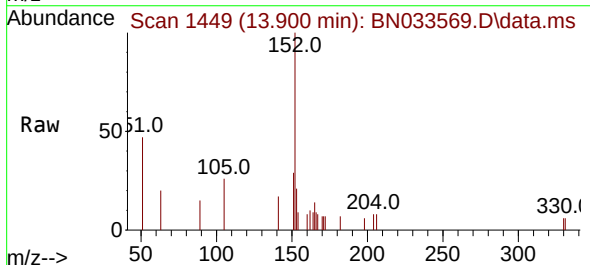
Manual Integrations  
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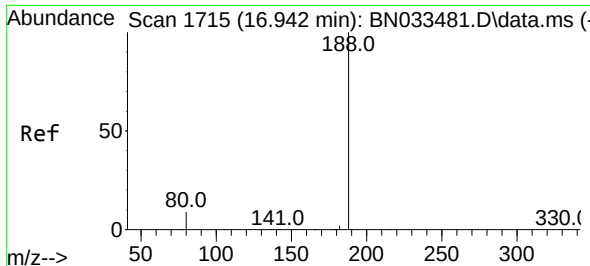
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#16  
Acenaphthylene  
Concen: 0.029 ng  
RT: 13.900 min Scan# 1449  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

Tgt Ion:152 Resp: 1331  
Ion Ratio Lower Upper  
152 100  
151 18.8 15.7 23.5  
153 14.2 10.3 15.5





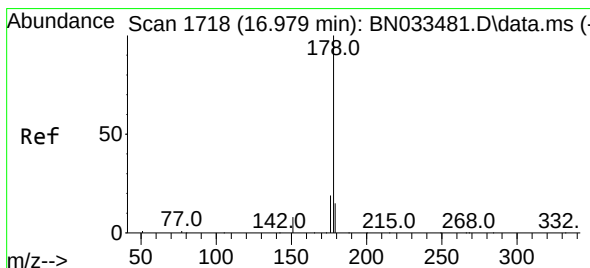
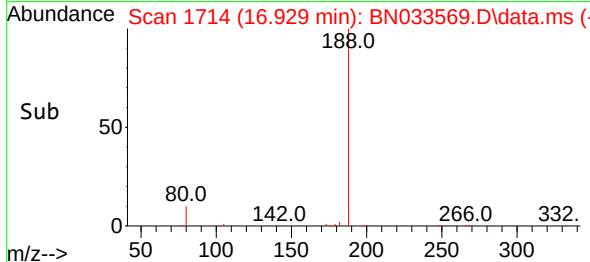
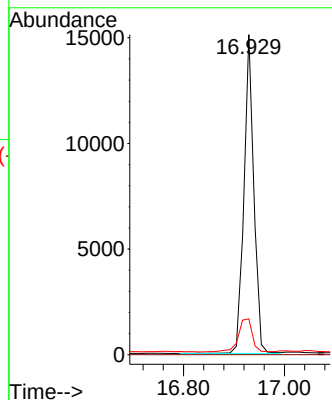
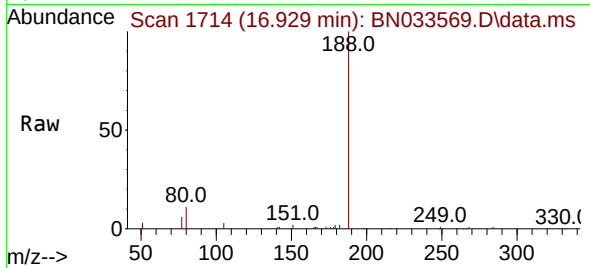
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Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.929 min Scan# 1715  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924

Tgt Ion:188 Resp: 20512  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.2 7.8 11.8

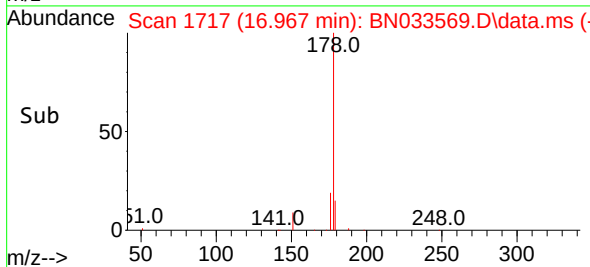
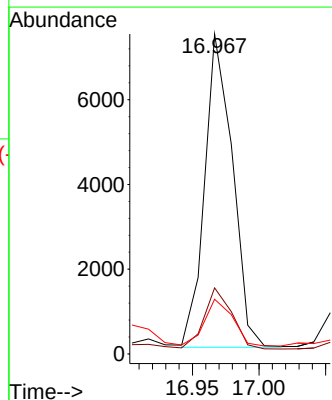
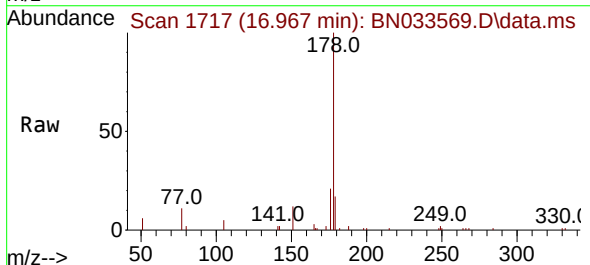
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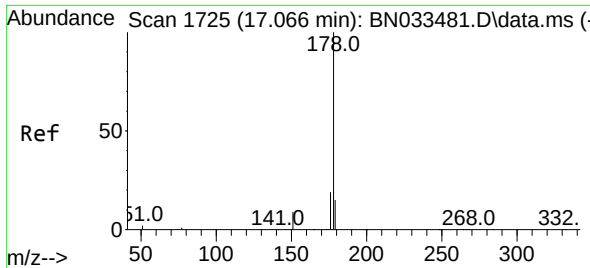


#25  
Phenanthrene  
Concen: 0.188 ng m  
RT: 16.967 min Scan# 1717  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

Tgt Ion:178 Resp: 10734  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.3 22.9  
179 15.0 12.3 18.5

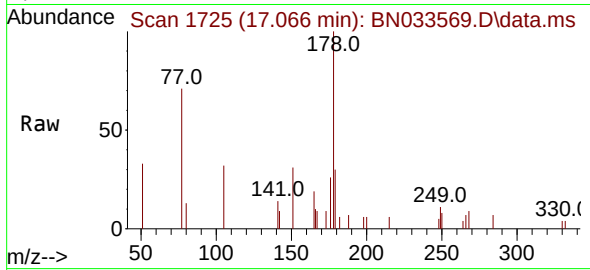






#26  
 Anthracene  
 Concen: 0.032 ng  
 RT: 17.066 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: BN033569.D  
 Acq: 23 Aug 2024 01:41

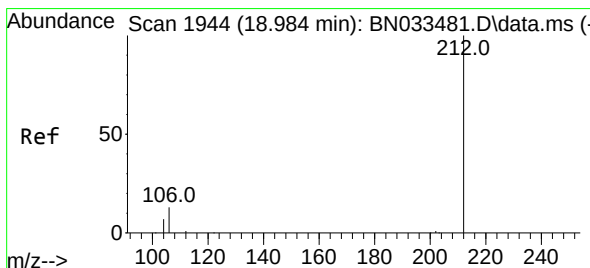
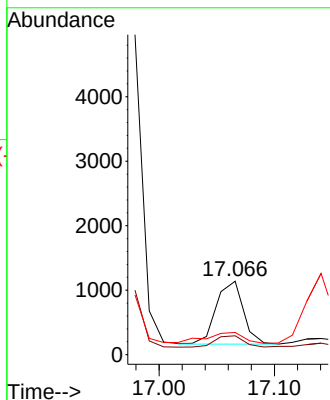
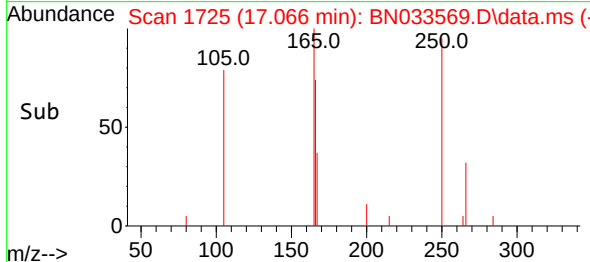
Instrument :  
 BNA\_N  
 ClientSampleId :  
 S-928-K1-SO-0-0.5-081924



Tgt Ion:178 Resp: 1598  
 Ion Ratio Lower Upper  
 178 100  
 176 19.1 15.0 22.6  
 179 23.8 12.4 18.6

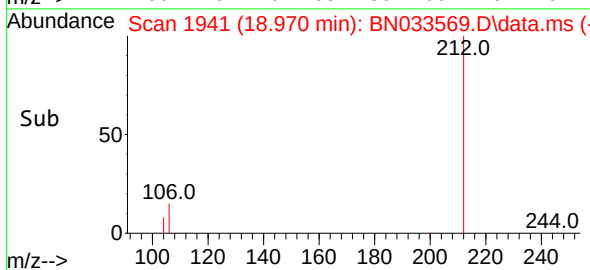
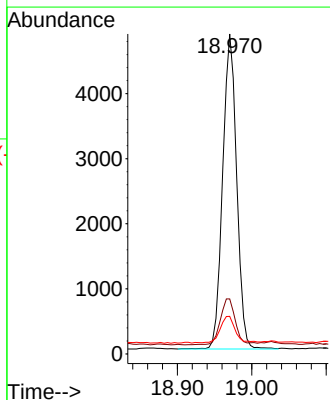
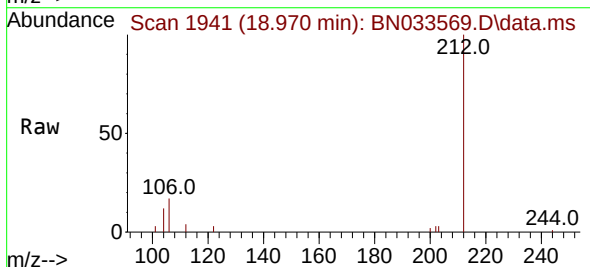
Manual Integrations  
 APPROVED

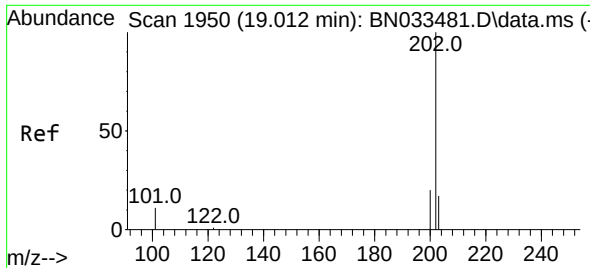
Reviewed By :Yogesh Patel 08/23/2024  
 Supervised By :mohammad ahmed 08/24/2024



#27  
 Fluoranthene-d10  
 Concen: 0.128 ng  
 RT: 18.970 min Scan# 1941  
 Delta R.T. 0.000 min  
 Lab File: BN033569.D  
 Acq: 23 Aug 2024 01:41

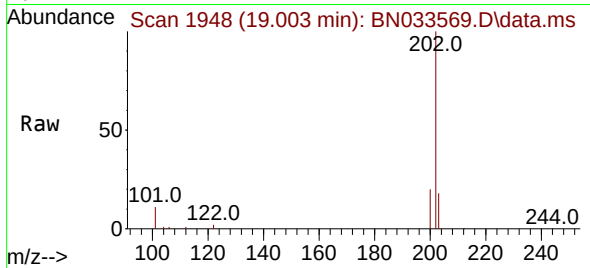
Tgt Ion:212 Resp: 6326  
 Ion Ratio Lower Upper  
 212 100  
 106 15.9 12.3 18.5  
 104 9.4 7.0 10.4





#28  
Fluoranthene  
Concen: 0.414 ng  
RT: 19.003 min Scan# 1948  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

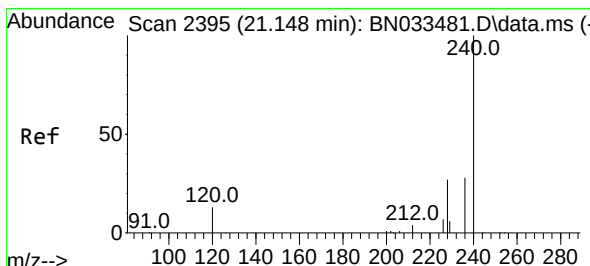
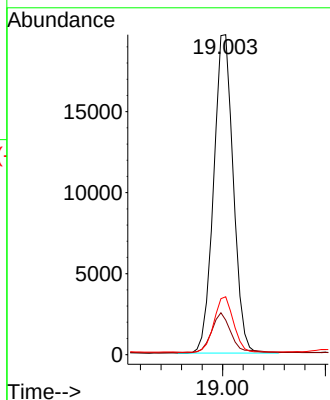
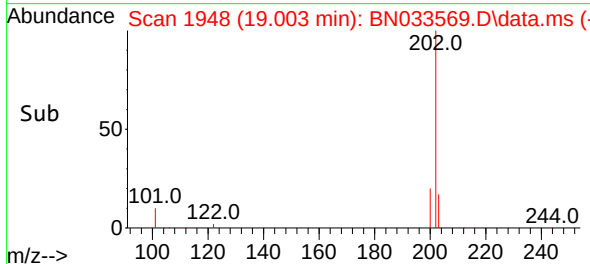
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:202 Resp: 26129  
Ion Ratio Lower Upper  
202 100  
101 13.0 9.5 14.3  
203 17.3 13.8 20.6

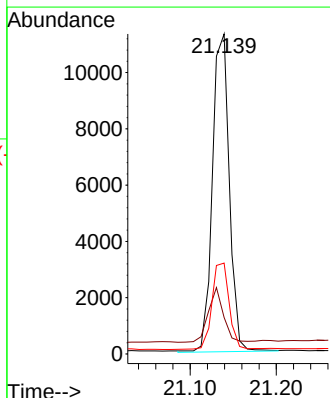
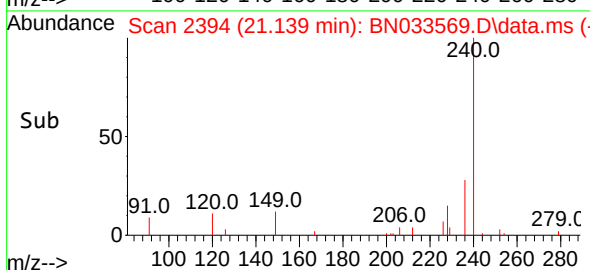
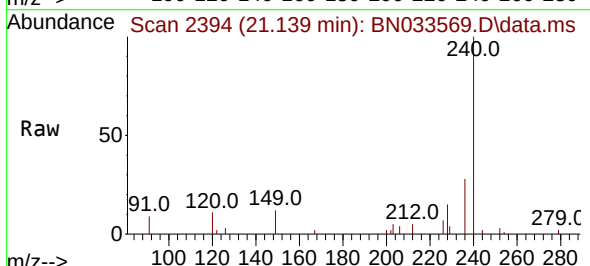
Manual Integrations  
APPROVED

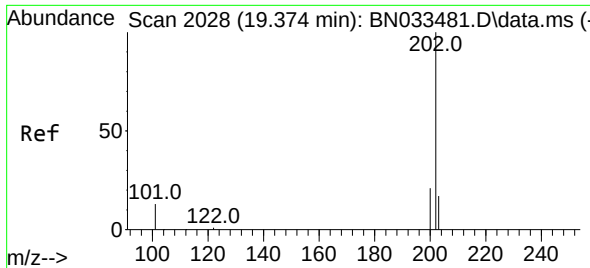
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.139 min Scan# 2394  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

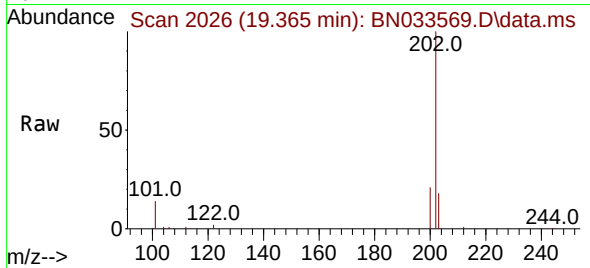
Tgt Ion:240 Resp: 15408  
Ion Ratio Lower Upper  
240 100  
120 11.4 12.4 18.6#  
236 28.4 23.0 34.6





#30  
Pyrene  
Concen: 0.332 ng  
RT: 19.365 min Scan# 2028  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

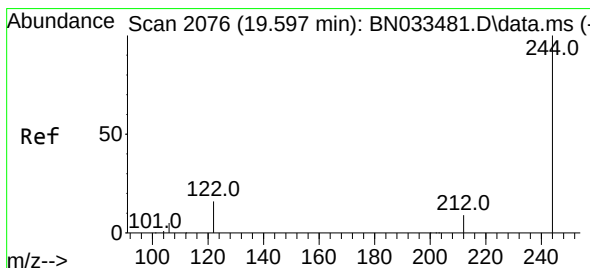
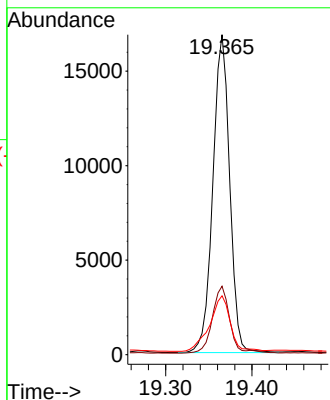
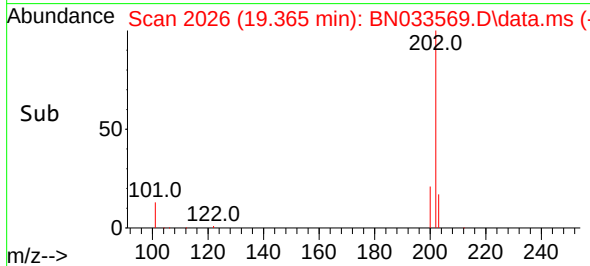
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:202 Resp: 2282  
Ion Ratio Lower Upper  
202 100  
200 21.6 16.6 24.8  
203 21.4 14.2 21.4

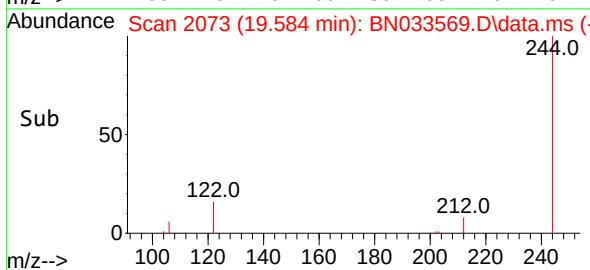
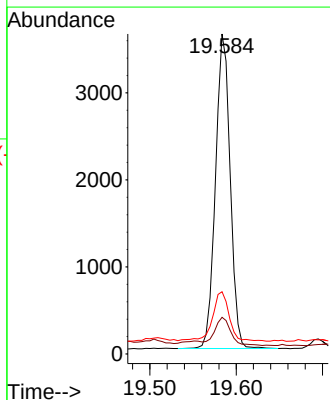
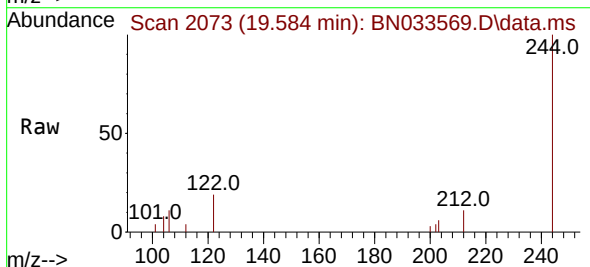
Manual Integrations  
APPROVED

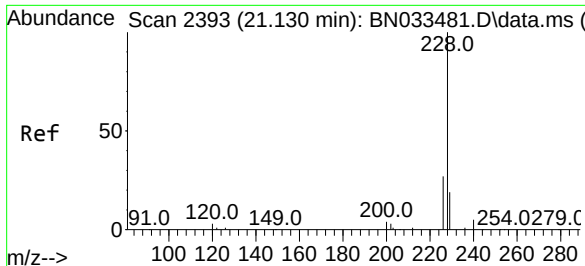
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#31  
Terphenyl-d14  
Concen: 0.122 ng  
RT: 19.584 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

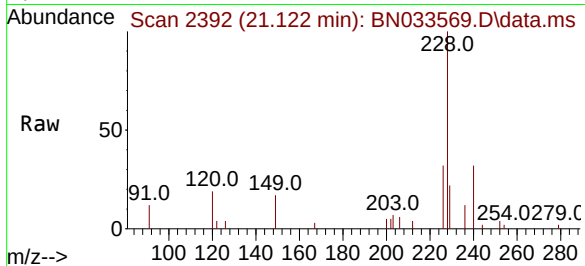
Tgt Ion:244 Resp: 4283  
Ion Ratio Lower Upper  
244 100  
212 11.5 7.8 11.6  
122 19.4 13.3 19.9





#32  
Benzo(a)anthracene  
Concen: 0.187 ng  
RT: 21.122 min Scan# 2112  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

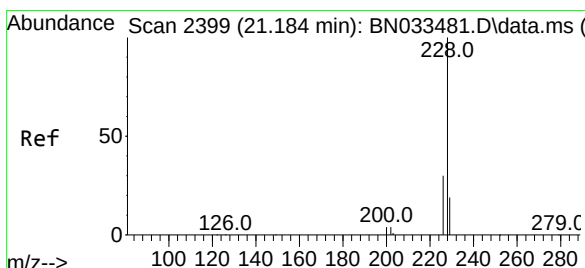
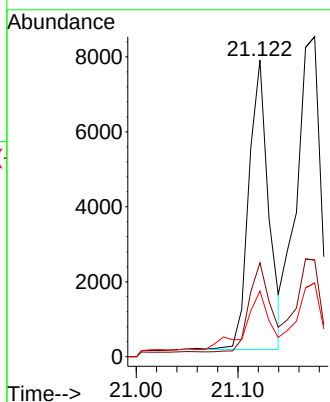
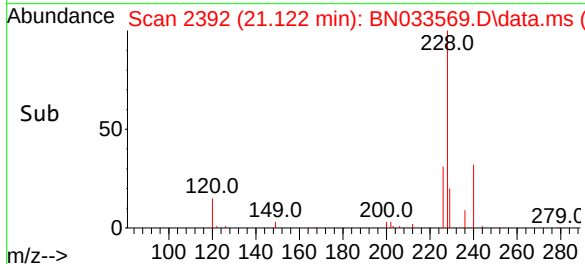
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:228 Resp: 1040  
Ion Ratio Lower Upper  
228 100  
226 31.7 21.8 32.6  
229 22.1 15.8 23.6

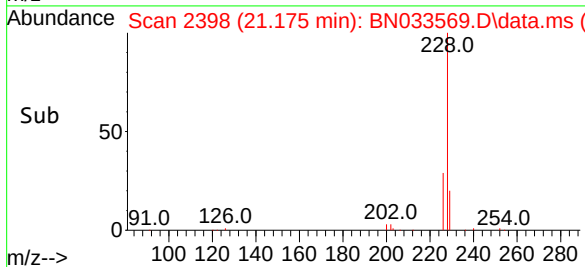
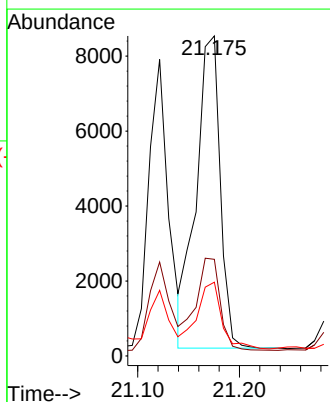
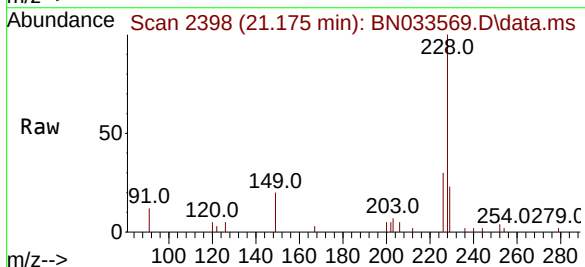
Manual Integrations  
APPROVED

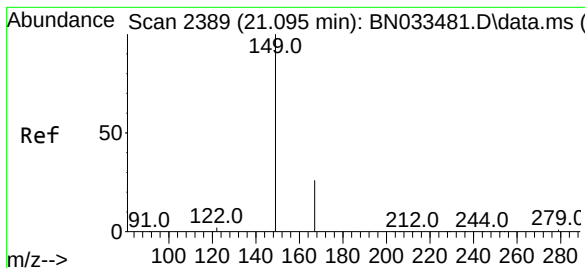
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#33  
Chrysene  
Concen: 0.247 ng  
RT: 21.175 min Scan# 2398  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

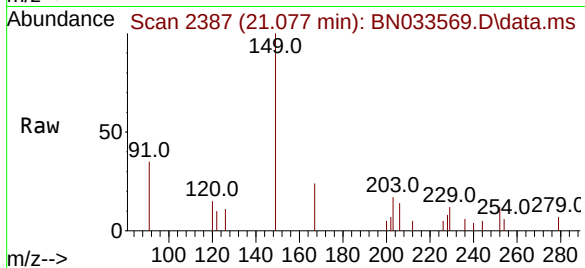
Tgt Ion:228 Resp: 13676  
Ion Ratio Lower Upper  
228 100  
226 30.2 23.8 35.8  
229 23.0 15.6 23.4





#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.066 ng m  
RT: 21.077 min Scan# 2107  
Delta R.T. -0.009 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

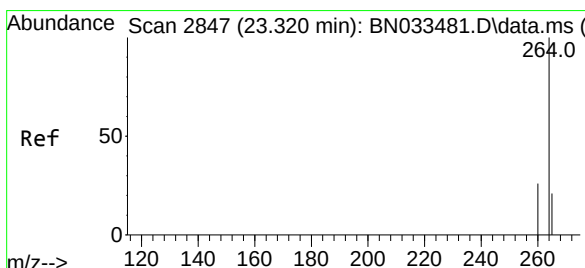
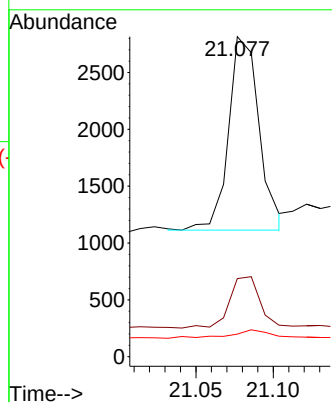
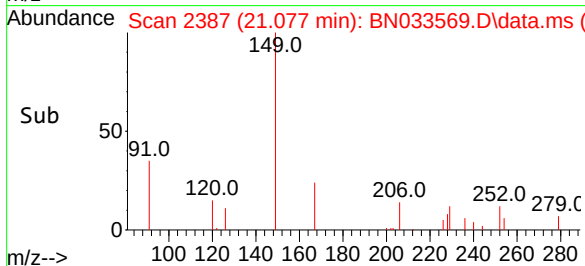
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:149 Resp: 2334  
Ion Ratio Lower Upper  
149 100  
167 35.2 21.5 32.3  
279 60.5 2.2 3.2

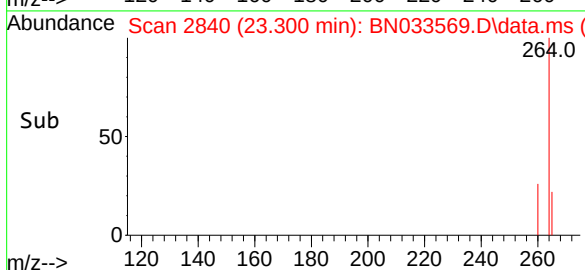
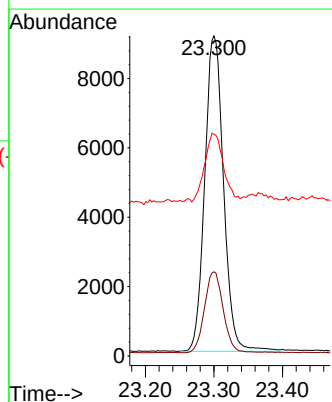
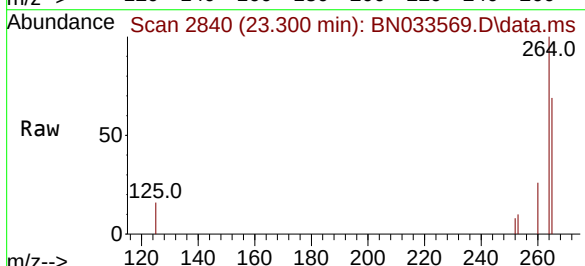
Manual Integrations  
APPROVED

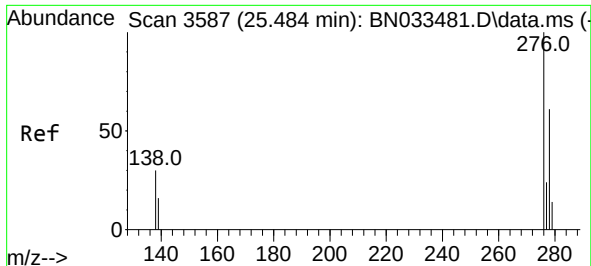
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.300 min Scan# 2840  
Delta R.T. -0.003 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

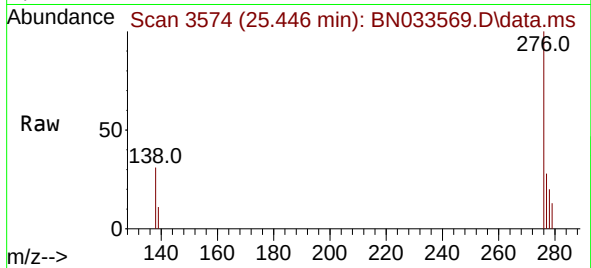
Tgt Ion:264 Resp: 17341  
Ion Ratio Lower Upper  
264 100  
260 26.3 20.8 31.2  
265 69.3 52.2 78.2





#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.136 ng  
RT: 25.446 min Scan# 3587  
Delta R.T. -0.003 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

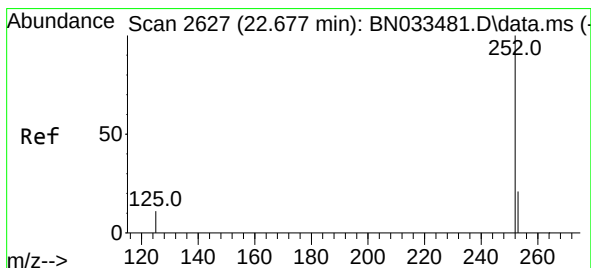
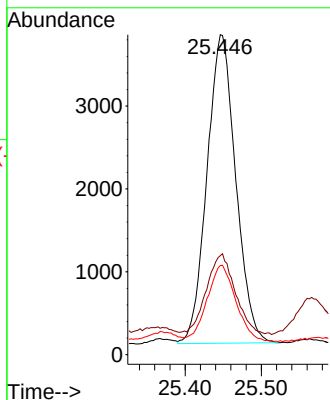
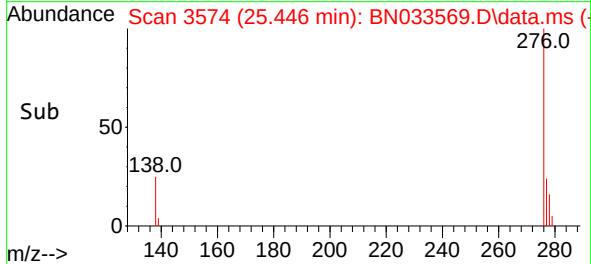
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:276 Resp: 9758  
Ion Ratio Lower Upper  
276 100  
138 25.7 24.4 36.6  
277 24.7 19.8 29.6

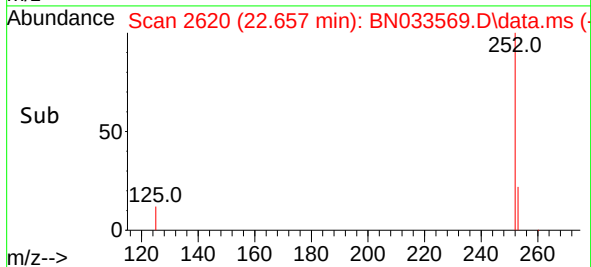
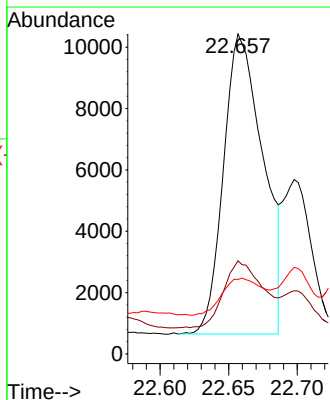
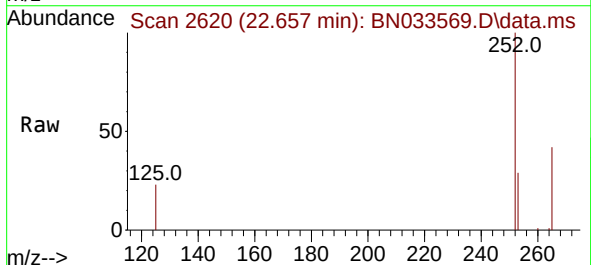
Manual Integrations  
APPROVED

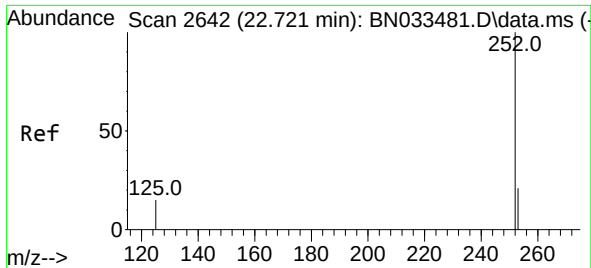
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#37  
Benzo(b)fluoranthene  
Concen: 0.303 ng  
RT: 22.657 min Scan# 2620  
Delta R.T. -0.003 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

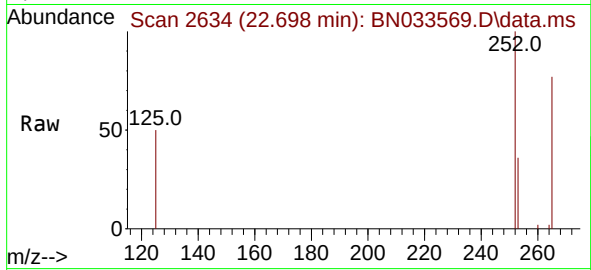
Tgt Ion:252 Resp: 19653  
Ion Ratio Lower Upper  
252 100  
253 29.1 19.8 29.8  
125 23.3 13.9 20.9#





#38  
Benzo(k)fluoranthene  
Concen: 0.115 ng m  
RT: 22.698 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

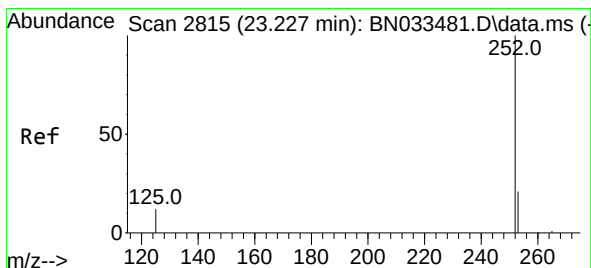
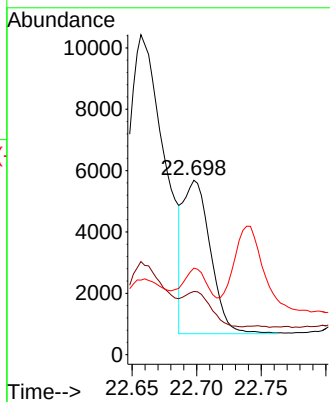
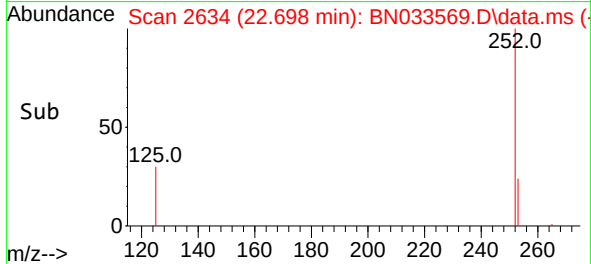
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:252 Resp: 735  
Ion Ratio Lower Upper  
252 100  
253 36.3 19.8 29.8  
125 49.6 15.8 23.8

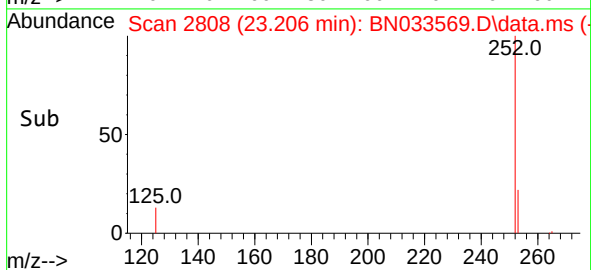
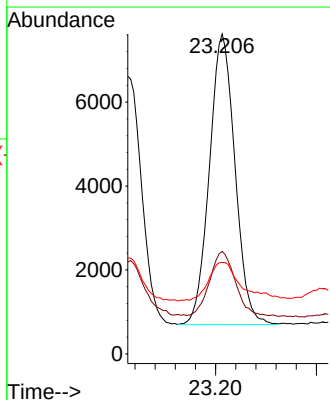
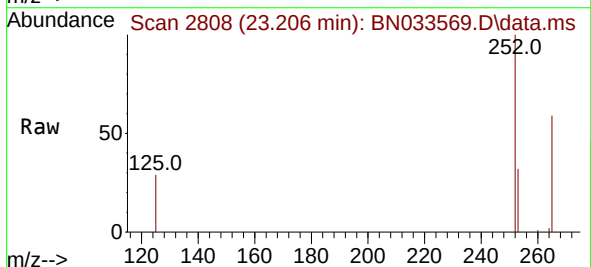
Manual Integrations  
APPROVED

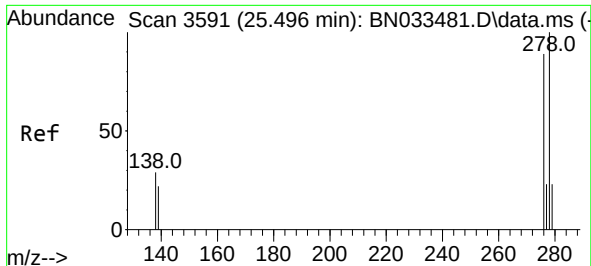
Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#39  
Benzo(a)pyrene  
Concen: 0.227 ng  
RT: 23.206 min Scan# 2808  
Delta R.T. -0.003 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

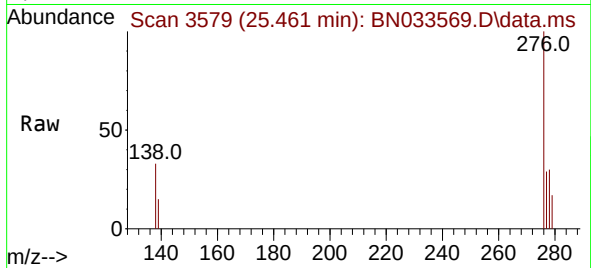
Tgt Ion:252 Resp: 12177  
Ion Ratio Lower Upper  
252 100  
253 32.1 21.5 32.3  
125 28.6 17.0 25.4





#40  
Dibenzo(a,h)anthracene  
Concen: 0.039 ng  
RT: 25.461 min Scan# 31  
Delta R.T. -0.009 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

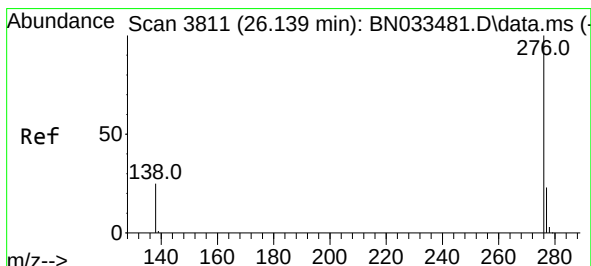
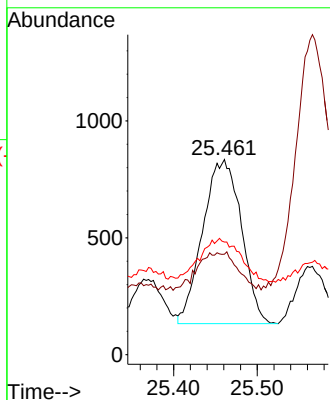
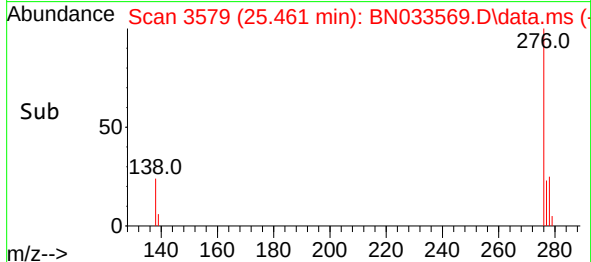
Instrument :  
BNA\_N  
ClientSampleId :  
S-928-K1-SO-0-0.5-081924



Tgt Ion:278 Resp: 225  
Ion Ratio Lower Upper  
278 100  
139 51.5 19.1 28.7  
279 57.7 21.0 31.4

Manual Integrations  
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Reviewed By :Yogesh Patel 08/23/2024  
Supervised By :mohammad ahmed 08/24/2024



#41  
Benzo(g,h,i)perylene  
Concen: 0.163 ng  
RT: 26.104 min Scan# 3799  
Delta R.T. 0.000 min  
Lab File: BN033569.D  
Acq: 23 Aug 2024 01:41

Tgt Ion:276 Resp: 10031  
Ion Ratio Lower Upper  
276 100  
277 27.4 19.7 29.5  
138 32.1 21.8 32.6

