

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121121\  
 Data File : BN017954.D  
 Acq On : 13 Dec 2021 01:06  
 Operator : CG/JU  
 Sample : M4988-09  
 Misc :  
 ALS Vial : 80 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE126D3-20211207

Quant Time: Dec 13 01:46:20 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN121121.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 11 00:01:30 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Christian Giraldo 12/13/2021  
 Supervised By :Jagrut Upadhyay 12/13/2021

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.715  | 152  | 29492    | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.494 | 136  | 114684   | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.334 | 164  | 78763    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.092 | 188  | 150134   | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.282 | 240  | 110339   | 0.400 | ng    | #-0.01   |
| 35) Perylene-d12              | 23.582 | 264  | 79236    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.336  | 112  | 7104     | 0.117 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.903  | 99   | 3730     | 0.062 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.859  | 82   | 19814    | 0.265 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.089 | 152  | 48591    | 0.241 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.844 | 330  | 2640     | 0.394 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.964 | 172  | 80122    | 0.289 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.124 | 212  | 160868   | 0.331 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.730 | 244  | 140196   | 0.515 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.270  | 88   | 1988m    | 0.222 | ng    |          |
| 9) Naphthalene                | 10.544 | 128  | 6593     | 0.023 | ng    | # 94     |
| 32) Benzo(a)anthracene        | 21.272 | 228  | 18666    | 0.103 | ng    | # 91     |
| 33) Chrysene                  | 21.325 | 228  | 20485    | 0.057 | ng    | # 94     |
| 34) Bis(2-ethylhexyl)phtha... | 21.208 | 149  | 835204   | 7.051 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.971 | 276  | 5935m    | 0.124 | ng    |          |
| 37) Benzo(b)fluoranthene      | 22.891 | 252  | 14731    | 0.056 | ng    | # 1      |
| 38) Benzo(k)fluoranthene      | 22.935 | 252  | 12048    | 0.047 | ng    | # 11     |
| 39) Benzo(a)pyrene            | 23.486 | 252  | 11514    | 0.049 | ng    | # 1      |
| 40) Dibenzo(a,h)anthracene    | 26.005 | 278  | 3724m    | 0.134 | ng    |          |
| 41) Benzo(g,h,i)perylene      | 26.680 | 276  | 6592     | 0.052 | ng    | # 69     |
| -----                         |        |      |          |       |       |          |

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

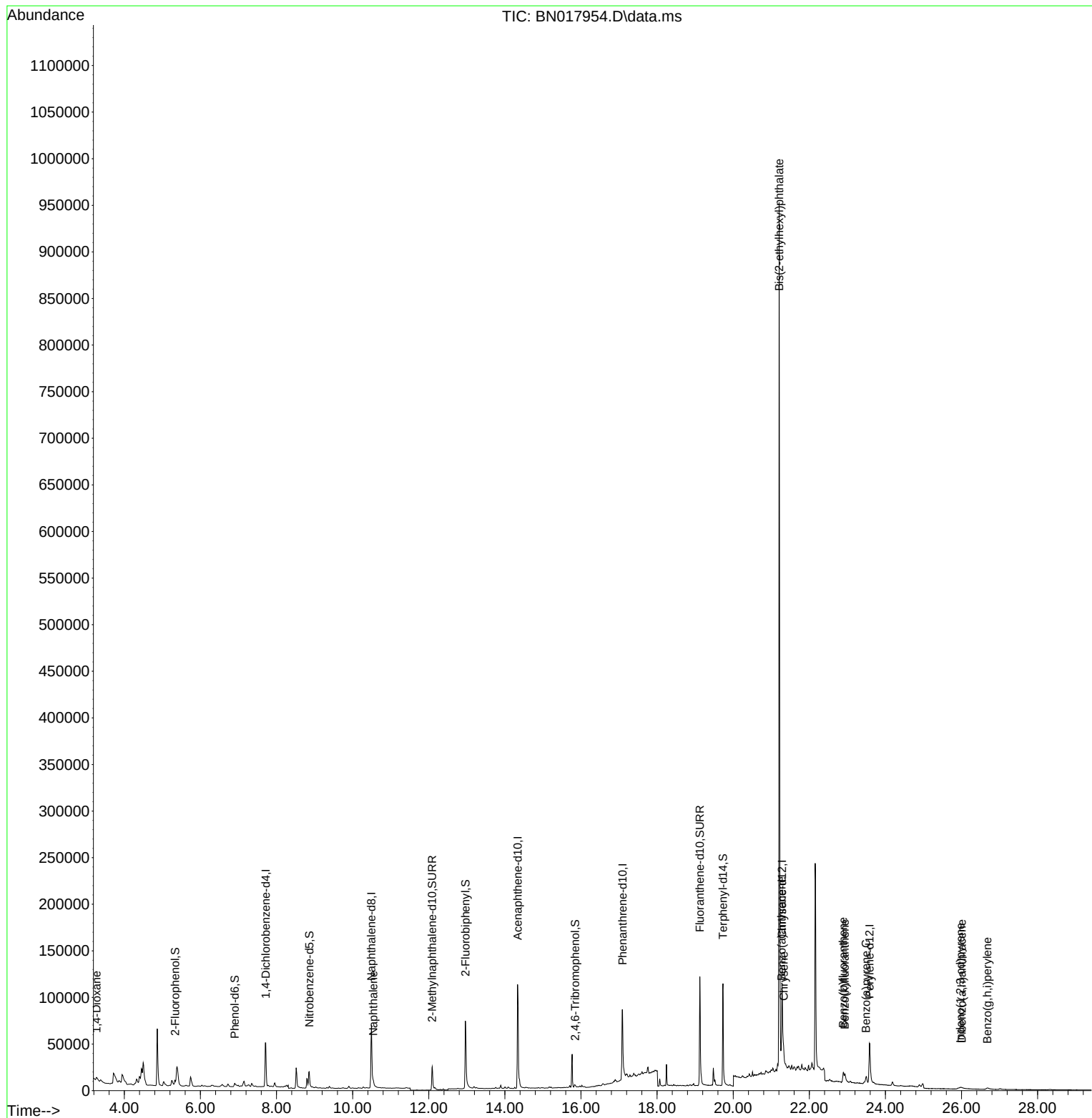
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121121\  
Data File : BN017954.D  
Acq On : 13 Dec 2021 01:06  
Operator : CG/JU  
Sample : M4988-09  
Misc :  
ALS Vial : 80 Sample Multiplier: 1

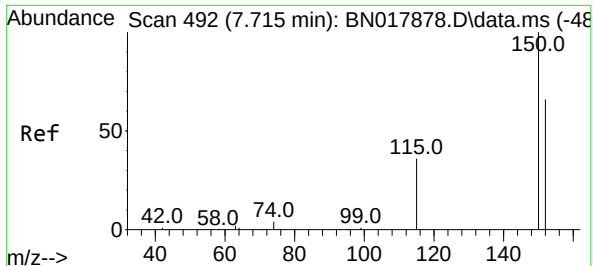
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207

Quant Time: Dec 13 01:46:20 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN121121.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 11 00:01:30 2021  
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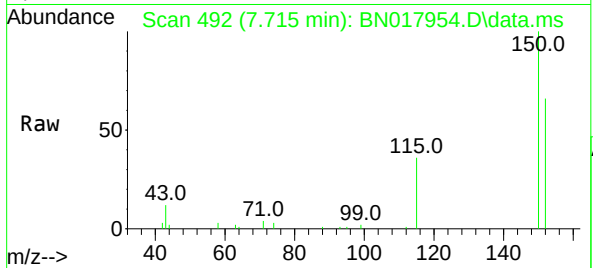
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.715 min Scan# 492  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

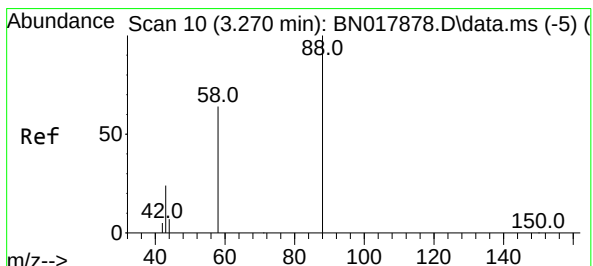
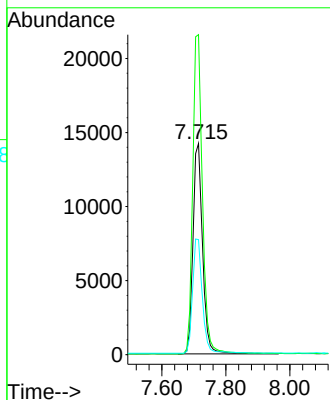
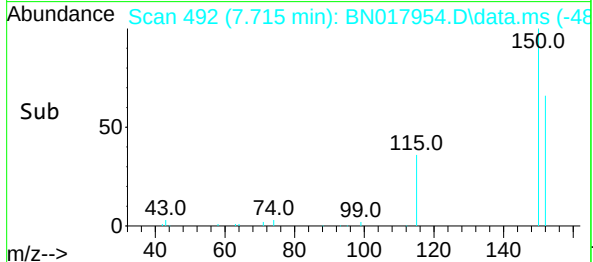
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BNA\_N  
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RE126D3-20211207



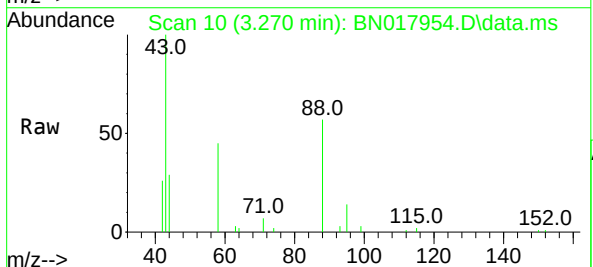
Tgt Ion: 152 Resp: 29492  
Ion Ratio Lower Upper  
152 100  
150 151.5 121.9 182.9  
115 54.5 44.1 66.1

Manual Integrations  
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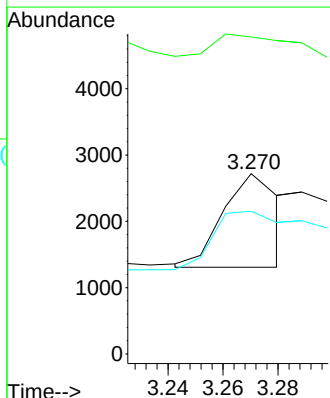
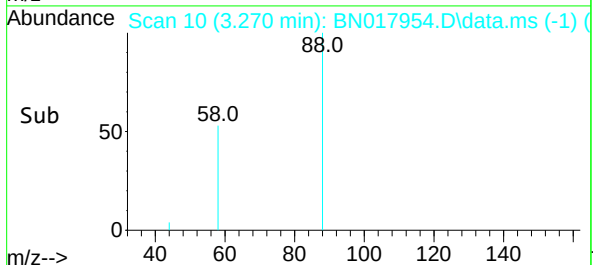
Reviewed By : Christian Giraldo 12/13/2021  
Supervised By : Jagrut Upadhyay 12/13/2021

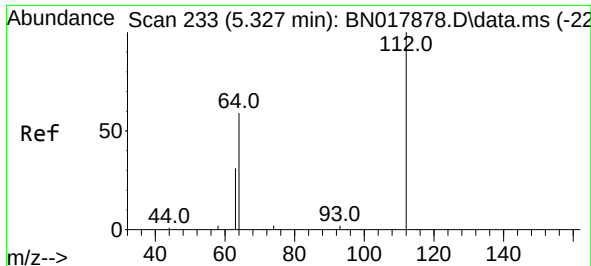


#2  
1,4-Dioxane  
Concen: 0.222 ng m  
RT: 3.270 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06



Tgt Ion: 88 Resp: 1988  
Ion Ratio Lower Upper  
88 100  
43 32.9 28.0 42.0  
58 111.7 65.4 98.0





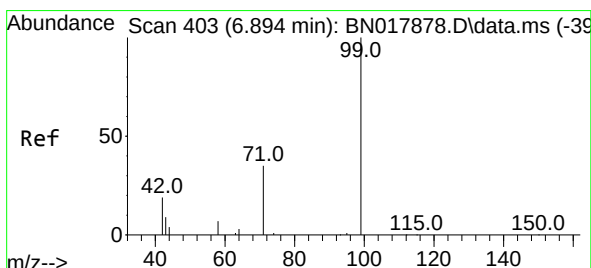
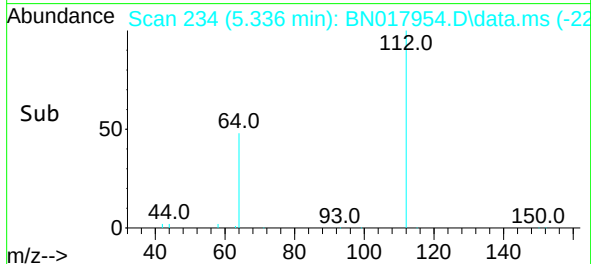
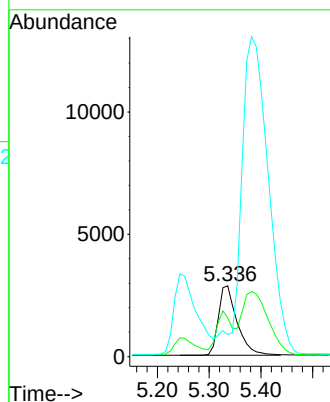
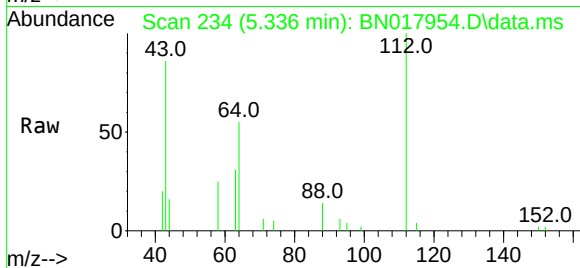
#4  
2-Fluorophenol  
Concen: 0.117 ng  
RT: 5.336 min Scan# 211  
Delta R.T. 0.009 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

Instrument :  
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RE126D3-20211207

Tgt Ion:112 Resp: 7104  
Ion Ratio Lower Upper  
112 100  
64 39.7 49.0 73.4#  
63 0.0 26.2 39.2#

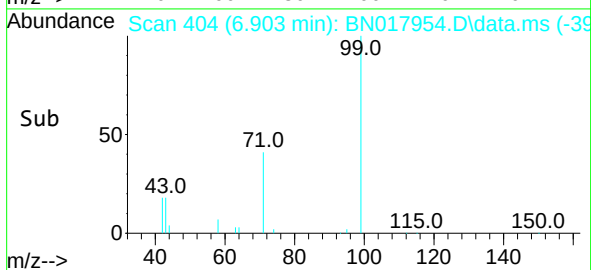
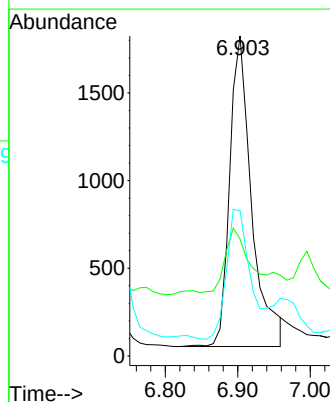
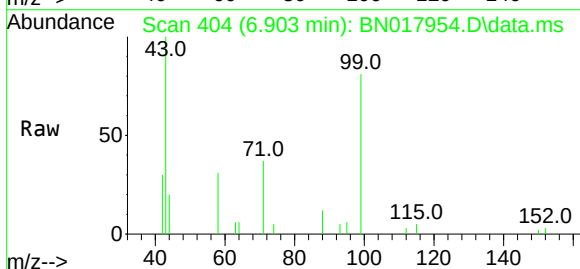
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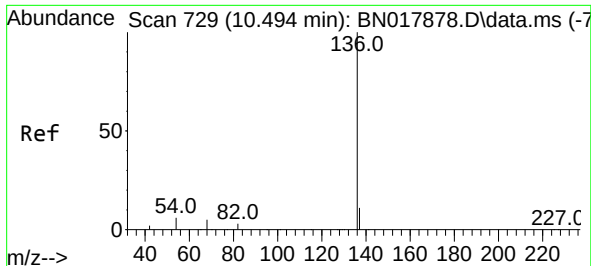
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021



#5  
Phenol-d6  
Concen: 0.062 ng  
RT: 6.903 min Scan# 404  
Delta R.T. 0.009 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

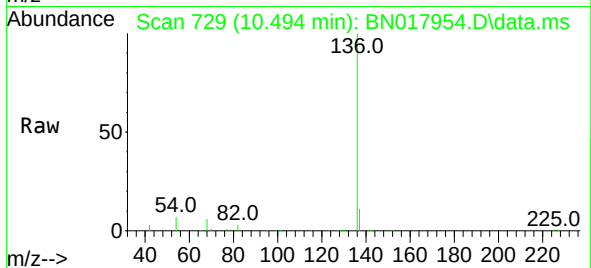
Tgt Ion: 99 Resp: 3730  
Ion Ratio Lower Upper  
99 100  
42 26.1 17.0 25.4#  
71 46.2 28.0 42.0#





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.494 min Scan# 729  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

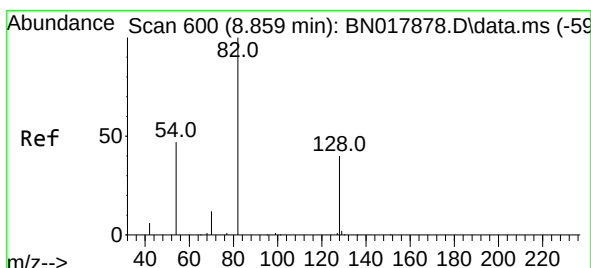
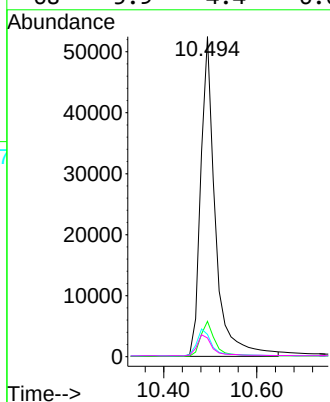
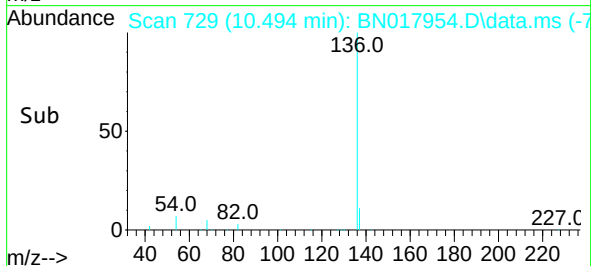
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



Tgt Ion:136 Resp: 114684  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.8 13.2  
54 7.0 5.1 7.7  
68 5.9 4.4 6.6

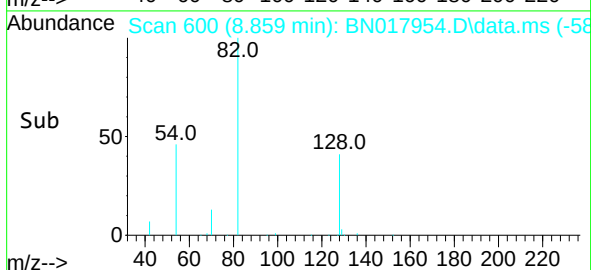
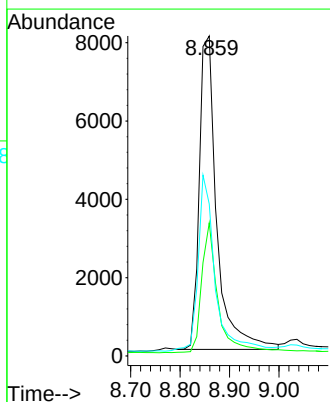
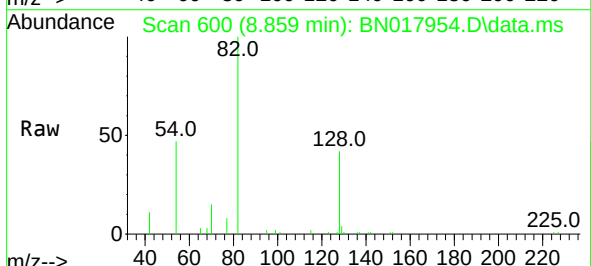
Manual Integrations  
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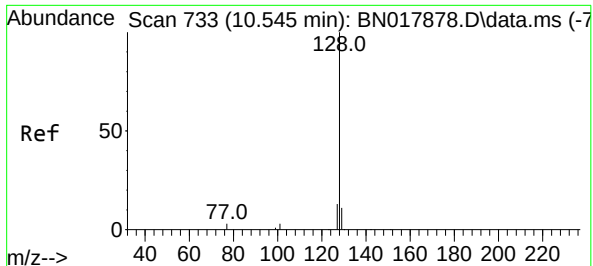
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021



#8  
Nitrobenzene-d5  
Concen: 0.265 ng  
RT: 8.859 min Scan# 600  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

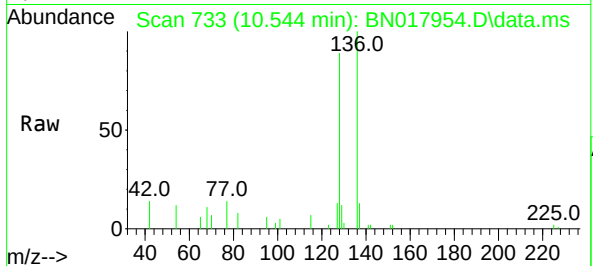
Tgt Ion: 82 Resp: 19814  
Ion Ratio Lower Upper  
82 100  
128 41.6 32.2 48.4  
54 47.5 37.6 56.4





#9  
Naphthalene  
Concen: 0.023 ng  
RT: 10.544 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

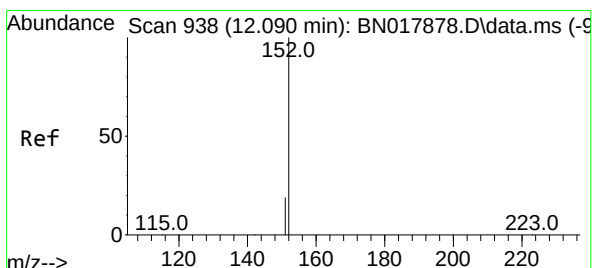
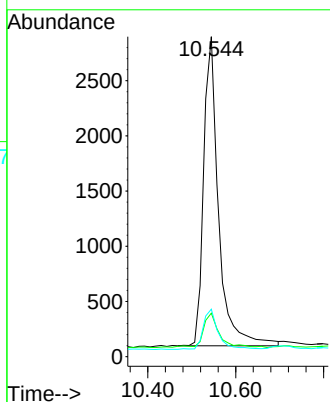
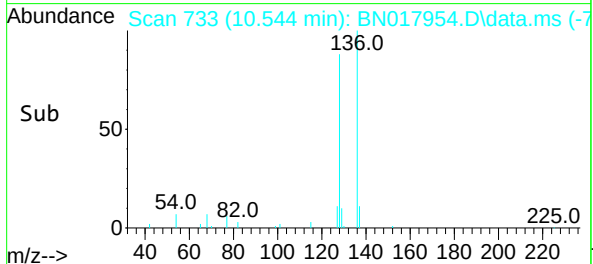
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



Tgt Ion:128 Resp: 659  
Ion Ratio Lower Upper  
128 100  
129 13.6 8.8 13.2  
127 14.9 10.5 15.7

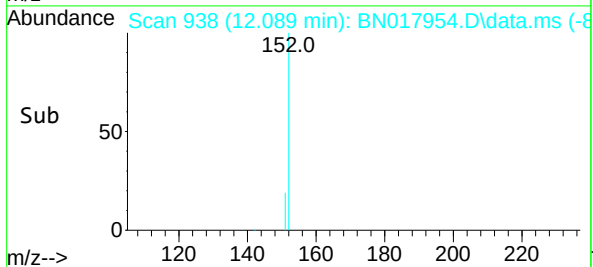
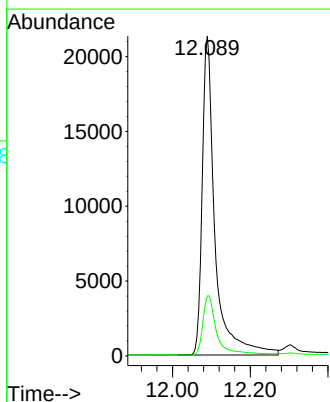
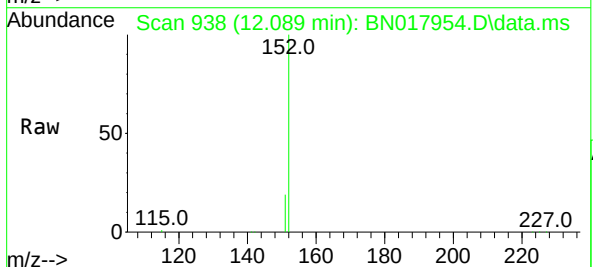
Manual Integrations  
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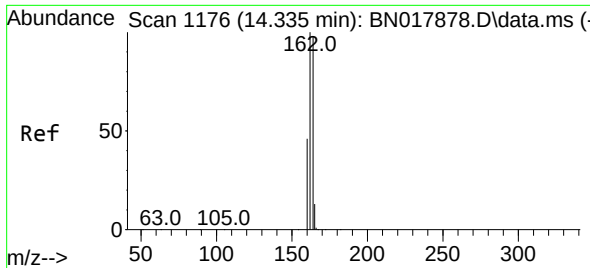
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021



#11  
2-Methylnaphthalene-d10  
Concen: 0.241 ng  
RT: 12.089 min Scan# 938  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

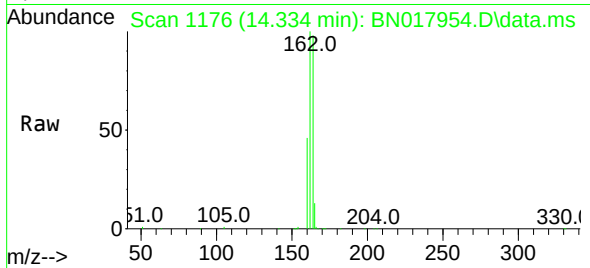
Tgt Ion:152 Resp: 48591  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.4 24.6





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.334 min Scan# 1176  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

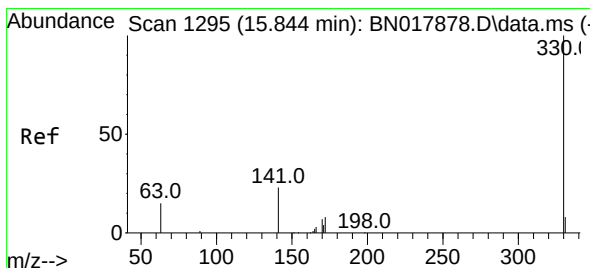
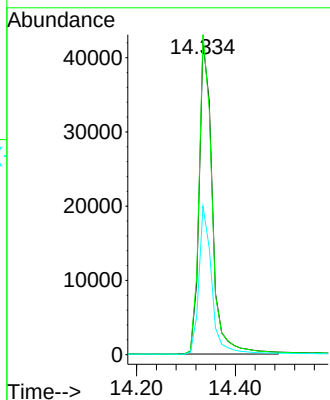
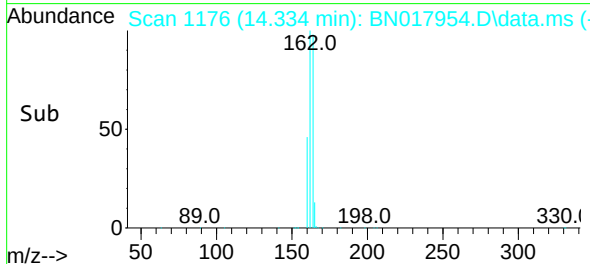
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



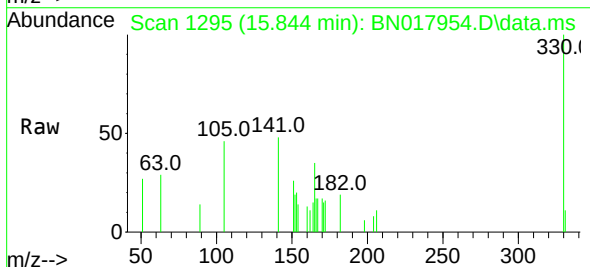
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Ion Ratio Lower Upper  
164 100  
162 102.1 82.1 123.1  
160 47.4 38.2 57.2

Manual Integrations  
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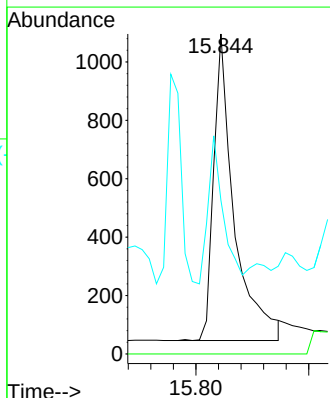
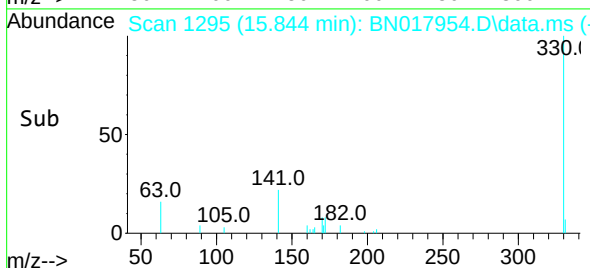
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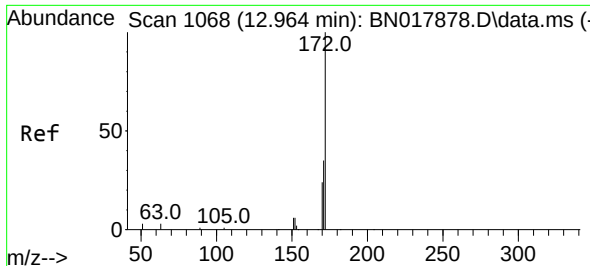


#14  
2,4,6-Tribromophenol  
Concen: 0.394 ng  
RT: 15.844 min Scan# 1295  
Delta R.T. 0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06



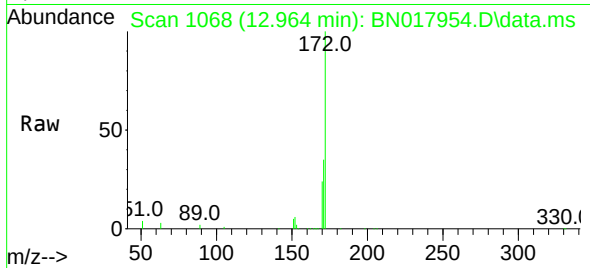
Tgt Ion:330 Resp: 2640  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 36.0 19.7 29.5#





#15  
2-Fluorobiphenyl  
Concen: 0.289 ng  
RT: 12.964 min Scan# 1068  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

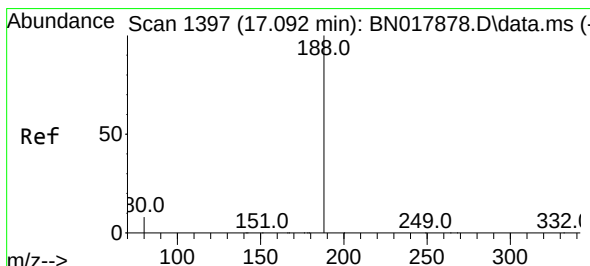
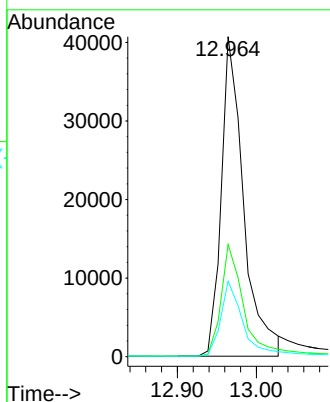
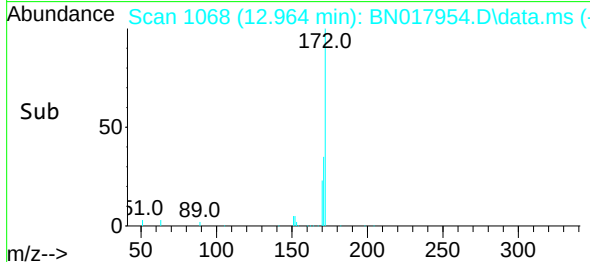
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



Tgt Ion:172 Resp: 8012  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.3 42.5  
170 23.6 19.1 28.7

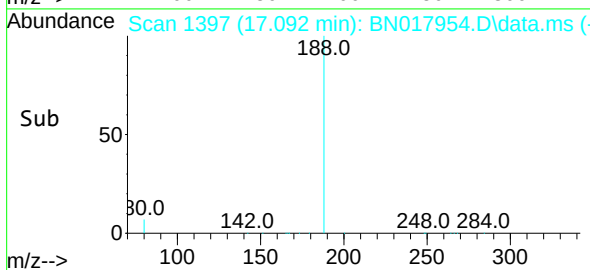
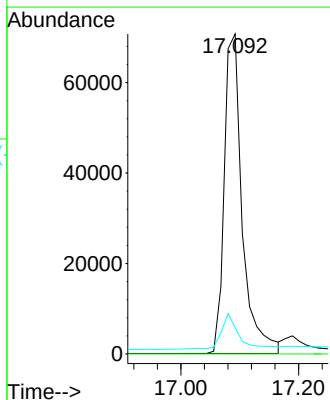
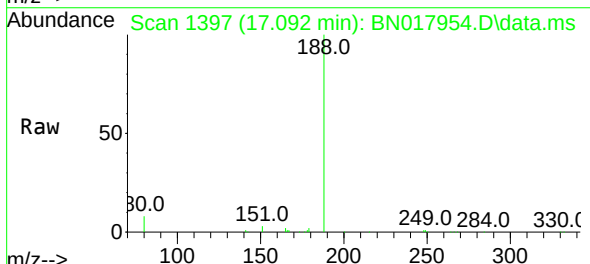
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Supervised By :Jagrut Upadhyay 12/13/2021

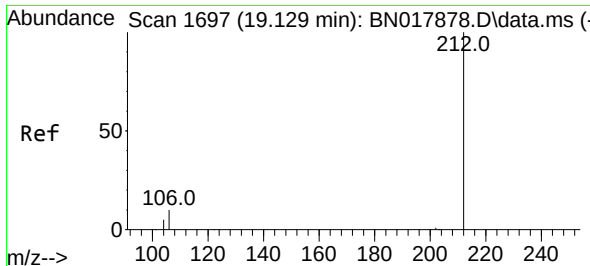


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.092 min Scan# 1397  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

Tgt Ion:188 Resp: 150134  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 8.2 6.2 9.2

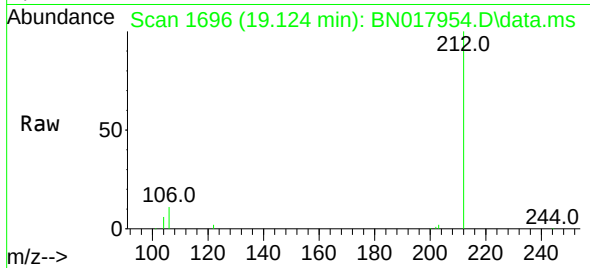






#27  
Fluoranthene-d10  
Concen: 0.331 ng  
RT: 19.124 min Scan# 1696  
Delta R.T. -0.005 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

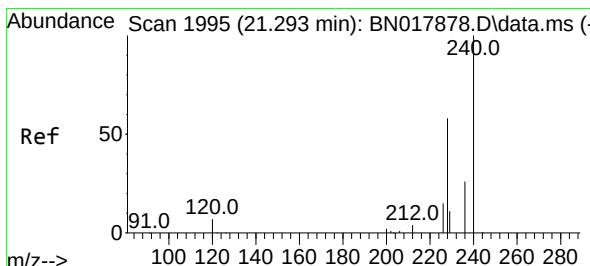
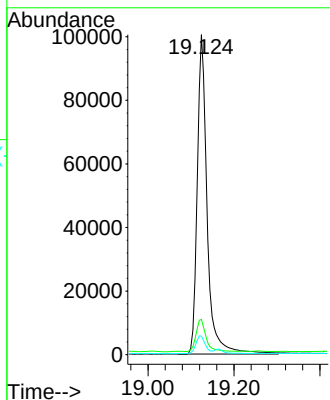
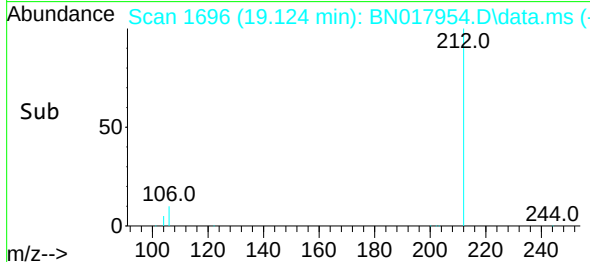
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BNA\_N  
ClientSampleId :  
RE126D3-20211207



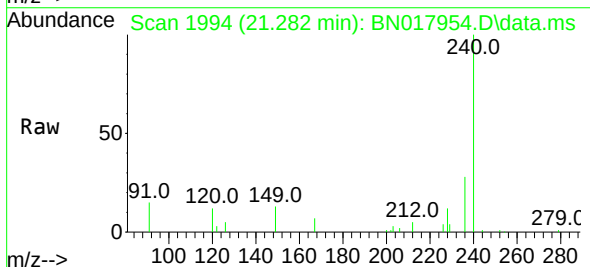
Tgt Ion:212 Resp: 16086  
Ion Ratio Lower Upper  
212 100  
106 10.1 8.3 12.5  
104 5.4 4.6 6.8

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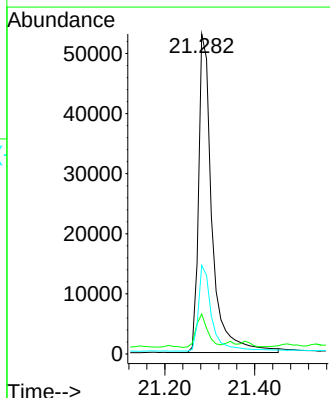
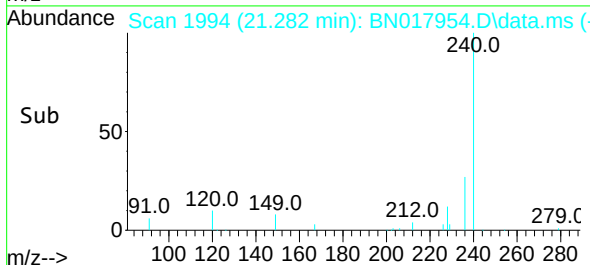
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021

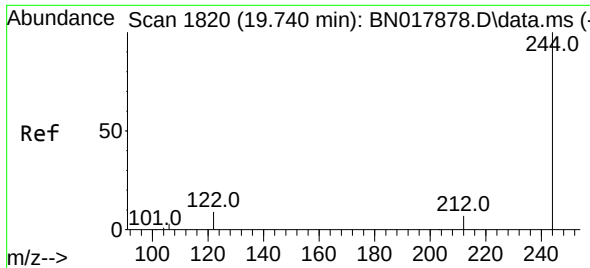


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.282 min Scan# 1994  
Delta R.T. -0.011 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06



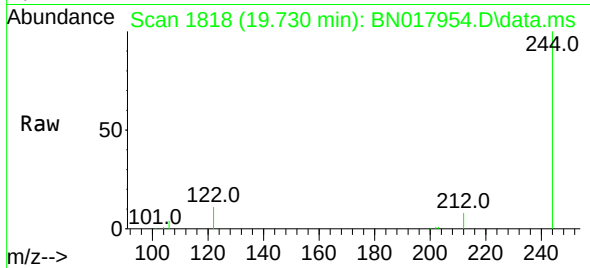
Tgt Ion:240 Resp: 110339  
Ion Ratio Lower Upper  
240 100  
120 12.5 5.8 8.8#  
236 27.6 21.0 31.6





#31  
Terphenyl-d14  
Concen: 0.515 ng  
RT: 19.730 min Scan# 1818  
Delta R.T. -0.010 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

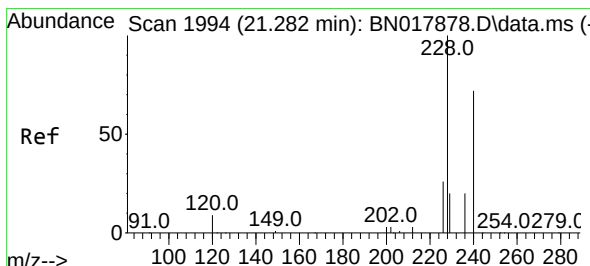
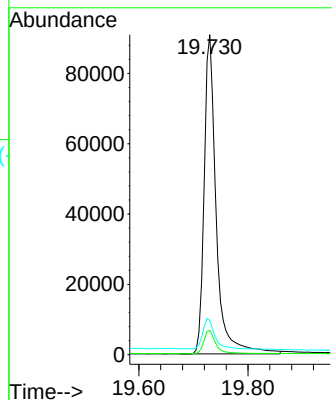
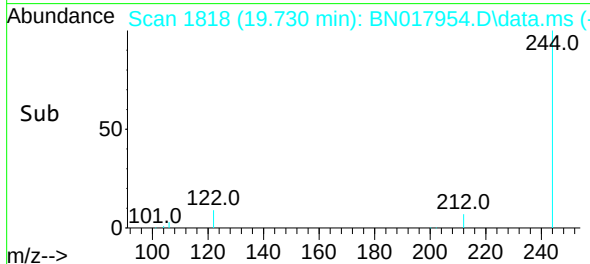
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



Tgt Ion:244 Resp: 140190  
Ion Ratio Lower Upper  
244 100  
212 7.6 6.2 9.2  
122 10.7 7.5 11.3

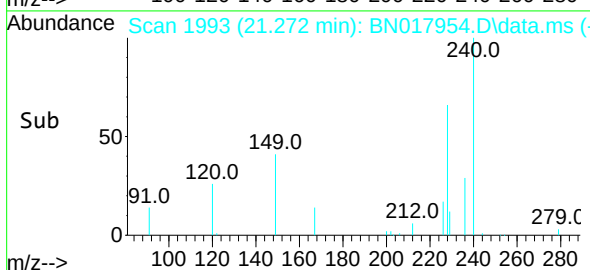
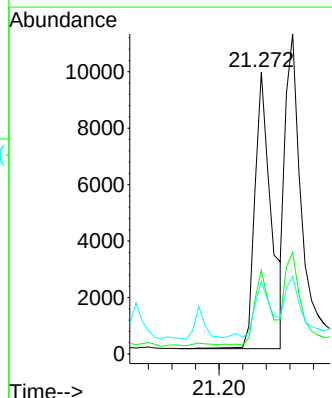
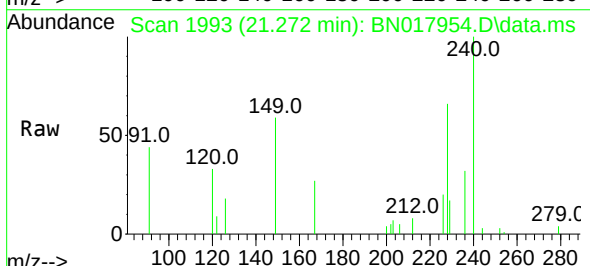
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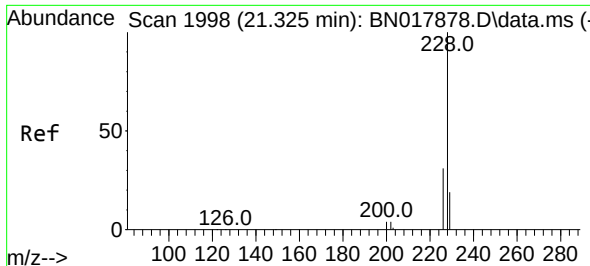
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021



#32  
Benzo(a)anthracene  
Concen: 0.103 ng  
RT: 21.272 min Scan# 1993  
Delta R.T. -0.010 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

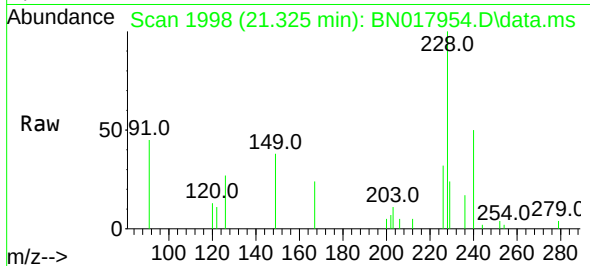
Tgt Ion:228 Resp: 18666  
Ion Ratio Lower Upper  
228 100  
226 29.7 21.0 31.4  
229 25.7 15.8 23.8#





#33  
Chrysene  
Concen: 0.057 ng  
RT: 21.325 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

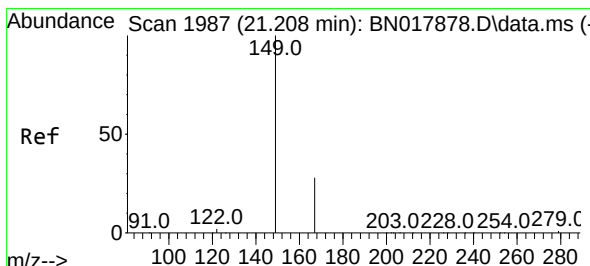
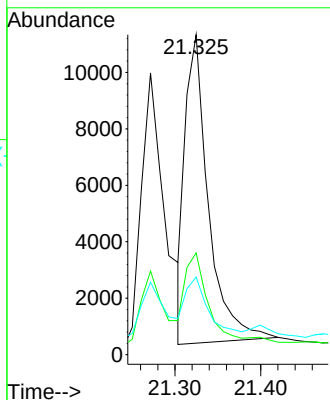
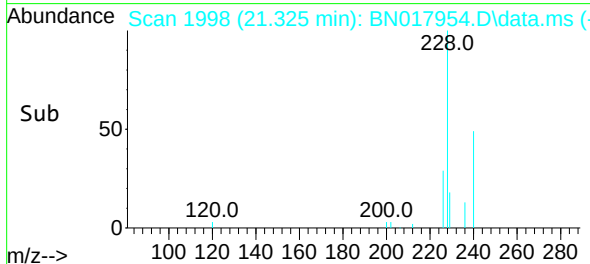
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



Tgt Ion:228 Resp: 20485  
Ion Ratio Lower Upper  
228 100  
226 31.8 23.8 35.8  
229 24.3 15.6 23.4

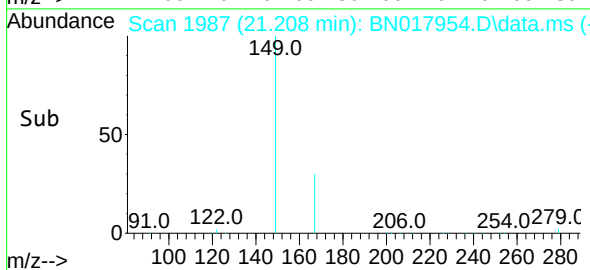
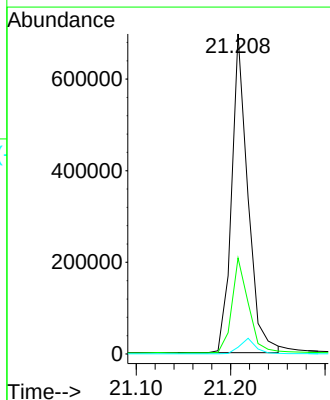
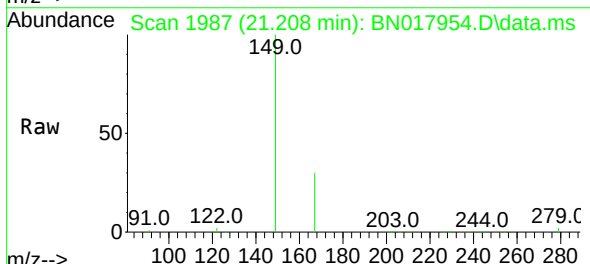
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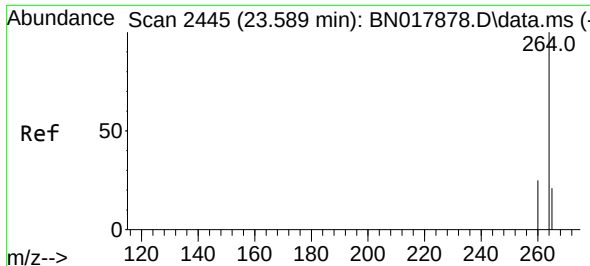
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 7.051 ng  
RT: 21.208 min Scan# 1987  
Delta R.T. -0.000 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

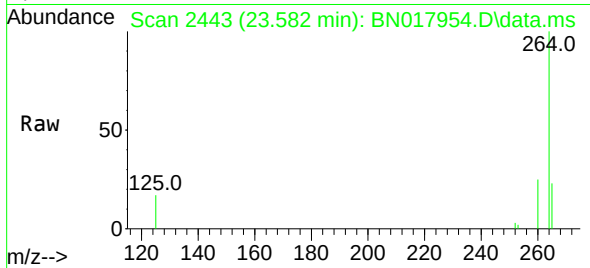
Tgt Ion:149 Resp: 835204  
Ion Ratio Lower Upper  
149 100  
167 30.3 23.4 35.0  
279 4.8 3.6 5.4





#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.582 min Scan# 2443  
 Delta R.T. -0.007 min  
 Lab File: BN017954.D  
 Acq: 13 Dec 2021 01:06

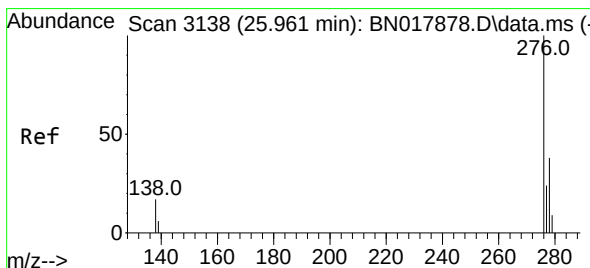
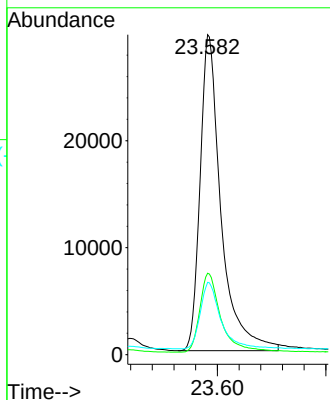
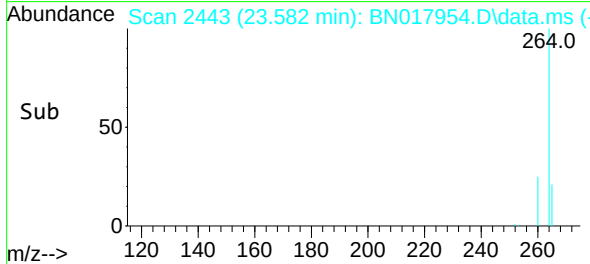
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE126D3-20211207



Tgt Ion:264 Resp: 79230  
 Ion Ratio Lower Upper  
 264 100  
 260 25.5 20.2 30.4  
 265 22.6 18.2 27.4

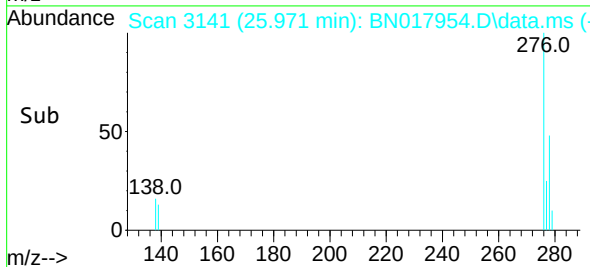
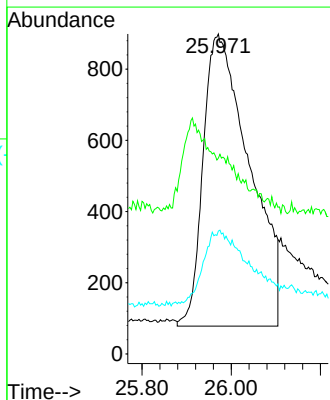
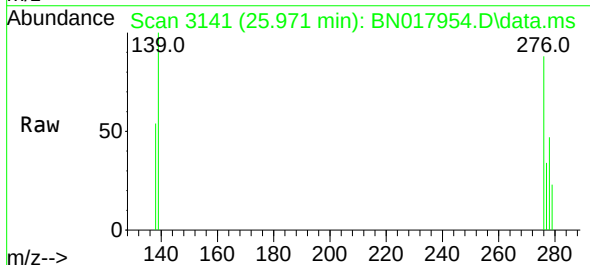
Manual Integrations  
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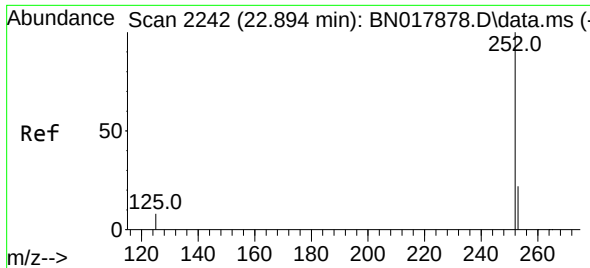
Reviewed By :Christian Giraldo 12/13/2021  
 Supervised By :Jagrut Upadhyay 12/13/2021



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.124 ng m  
 RT: 25.971 min Scan# 3141  
 Delta R.T. 0.010 min  
 Lab File: BN017954.D  
 Acq: 13 Dec 2021 01:06

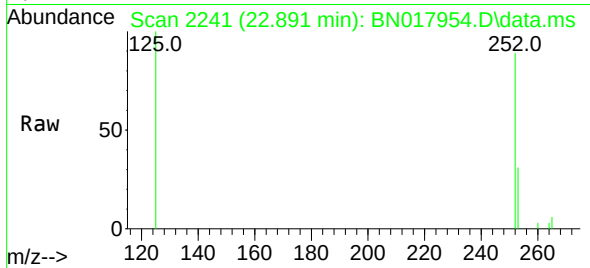
Tgt Ion:276 Resp: 5935  
 Ion Ratio Lower Upper  
 276 100  
 138 0.0 15.2 22.8#  
 277 6.1 19.8 29.6#





#37  
Benzo(b)fluoranthene  
Concen: 0.056 ng  
RT: 22.891 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

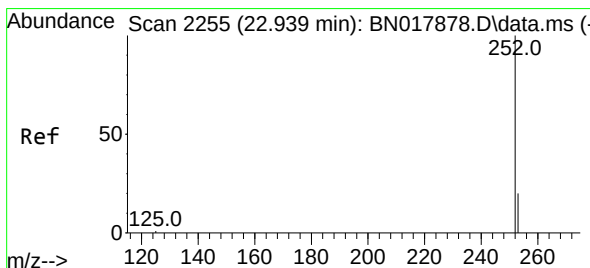
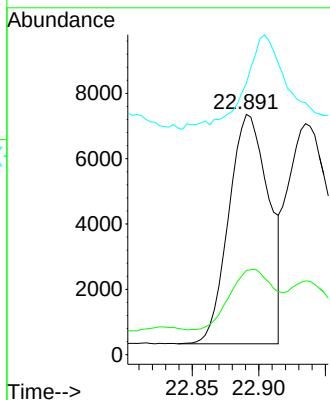
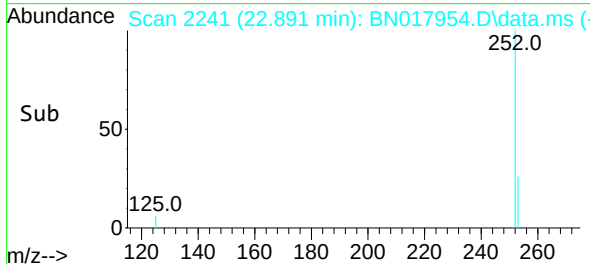
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



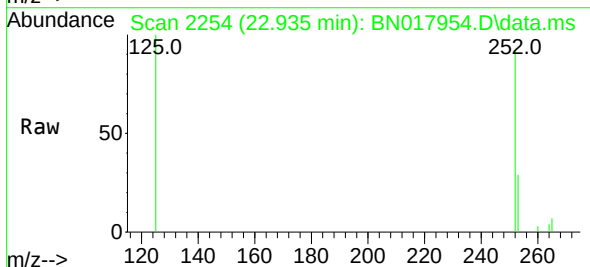
Tgt Ion:252 Resp: 1473  
Ion Ratio Lower Upper  
252 100  
253 35.1 17.9 26.9#  
125 113.0 6.8 10.2#

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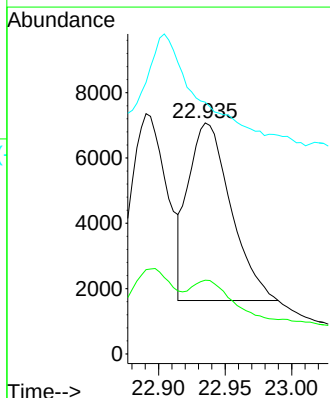
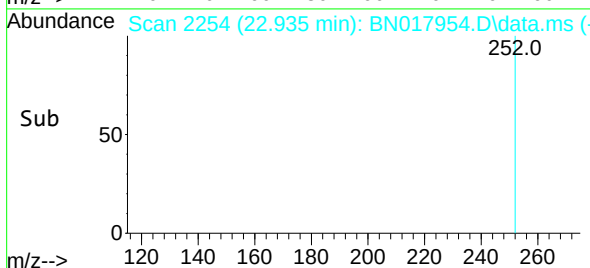
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021

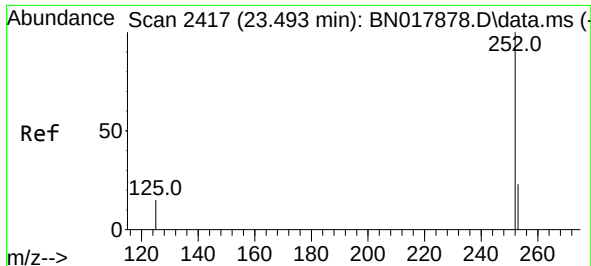


#38  
Benzo(k)fluoranthene  
Concen: 0.047 ng  
RT: 22.935 min Scan# 2254  
Delta R.T. -0.004 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06



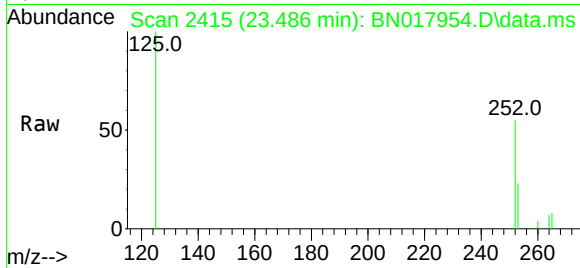
Tgt Ion:252 Resp: 12048  
Ion Ratio Lower Upper  
252 100  
253 31.9 17.8 26.6#  
125 109.0 6.1 9.1#





#39  
Benzo(a)pyrene  
Concen: 0.049 ng  
RT: 23.486 min Scan# 2417  
Delta R.T. -0.007 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

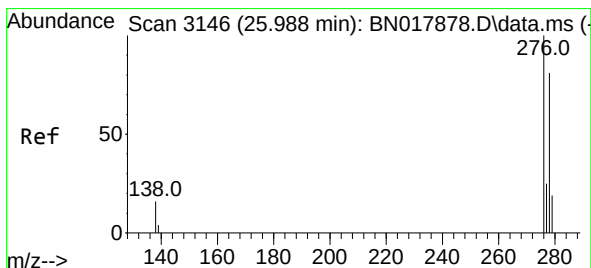
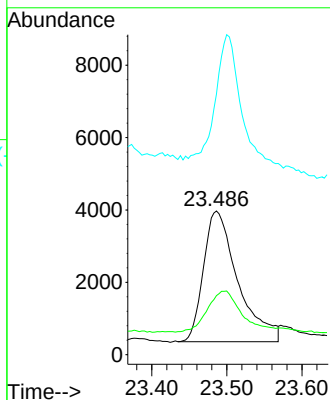
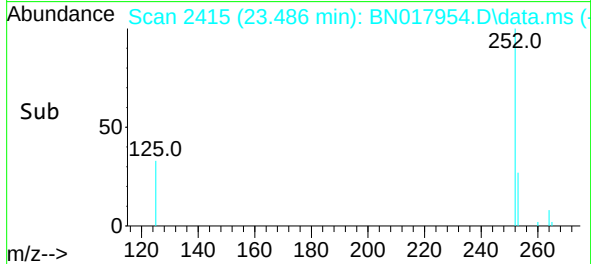
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



Tgt Ion:252 Resp: 11514  
Ion Ratio Lower Upper  
252 100  
253 41.1 18.8 28.2  
125 181.2 12.2 18.2

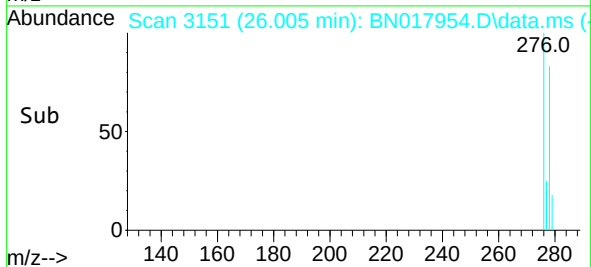
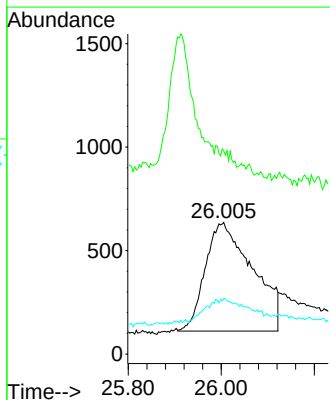
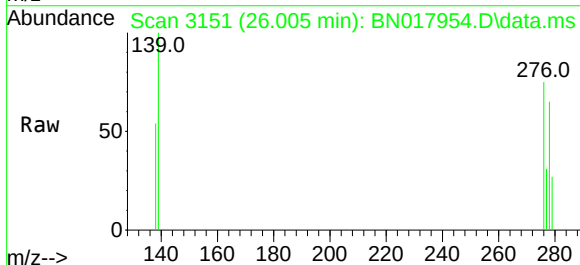
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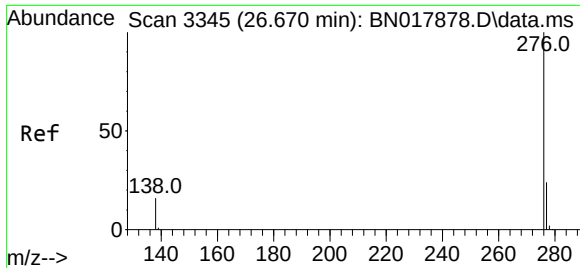
Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021



#40  
Dibenzo(a,h)anthracene  
Concen: 0.134 ng m  
RT: 26.005 min Scan# 3151  
Delta R.T. 0.017 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

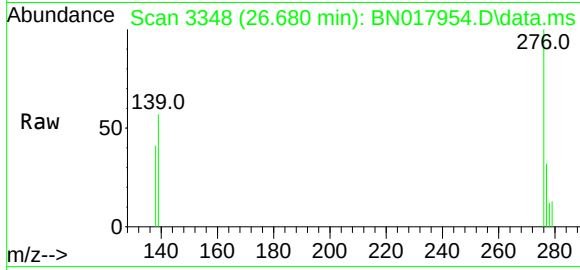
Tgt Ion:278 Resp: 3724  
Ion Ratio Lower Upper  
278 100  
139 154.2 12.0 18.0#  
279 42.1 20.8 31.2#





#41  
Benzo(g,h,i)perylene  
Concen: 0.052 ng  
RT: 26.680 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: BN017954.D  
Acq: 13 Dec 2021 01:06

Instrument :  
BNA\_N  
ClientSampleId :  
RE126D3-20211207



Tgt Ion:276 Resp: 6592  
Ion Ratio Lower Upper  
276 100  
277 32.2 19.6 29.4  
138 40.8 13.8 20.8

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 12/13/2021  
Supervised By :Jagrut Upadhyay 12/13/2021

