

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN031120\  
 Data File : BN010203.D  
 Acq On : 11 Mar 2020 21:46  
 Operator : CG/JU  
 Sample : L1842-17DL 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE132D4-20200305DL

Manual Integrations  
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 3/16/2020 1:45:55 PM

Quant Time: Mar 12 08:00:43 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN021920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 11 17:37:44 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.41  | 152  | 810      | 0.40  | ng    | 0.05     |
| 7) Naphthalene-d8           | 10.23 | 136  | 2233m    | 0.40  | ng    | 0.11     |
| 13) Acenaphthene-d10        | 14.05 | 164  | 1692     | 0.40  | ng    | 0.04     |
| 19) Phenanthrene-d10        | 16.82 | 188  | 2994     | 0.40  | ng    | 0.04     |
| 27) Chrysene-d12            | 21.02 | 240  | 3949     | 0.40  | ng    | 0.02     |
| 34) Perylene-d12            | 23.11 | 264  | 3186     | 0.40  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.14  | 112  | 34       | 0.02  | ng    | 0.10     |
| 5) Phenol-d6                | 0.00  | 99   | 0d       | 0.00  | ng    |          |
| 8) Nitrobenzene-d5          | 8.85  | 82   | 167m     | 0.09  | ng    | 0.29     |
| 11) 2-Methylnaphthalene-d10 | 11.87 | 152  | 214      | 0.05  | ng    | 0.14     |
| 14) 2,4,6-Tribromophenol    | 15.63 | 330  | 36       | 0.06  | ng    | 0.09     |
| 15) 2-Fluorobiphenyl        | 12.73 | 172  | 377m     | 0.06  | ng    | 0.10     |
| 25) Fluoranthene-d10        | 18.86 | 212  | 838      | 0.08  | ng    | 0.04     |
| 29) Terphenyl-d14           | 19.46 | 244  | 747      | 0.08  | ng    | 0.03     |
| Target Compounds            |       |      |          |       |       |          |
| 2) 1,4-Dioxane              | 3.03  | 88   | 1185m    | 1.428 | ng    | Qvalue   |

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

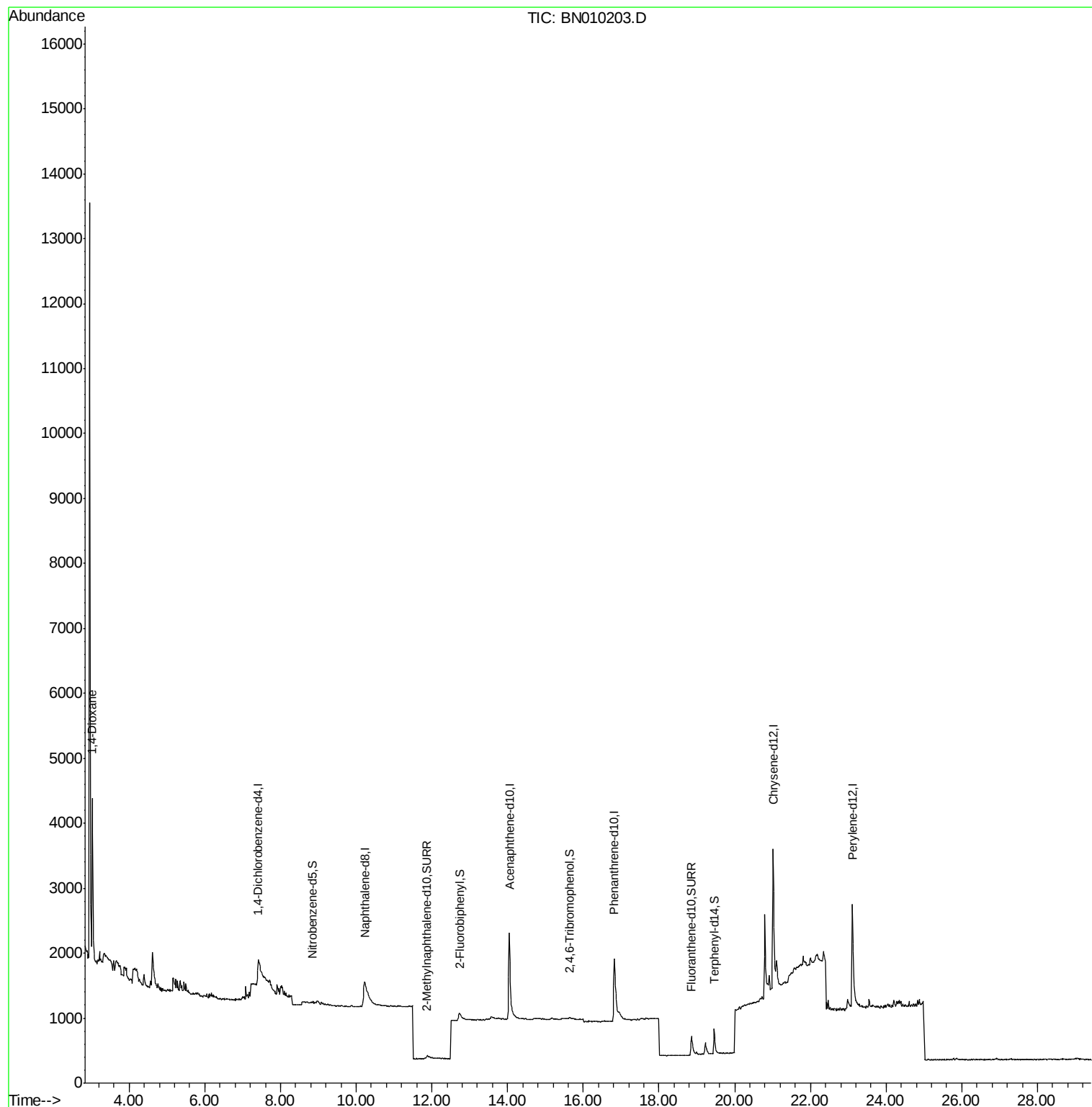
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN031120\  
Data File : BN010203.D  
Acq On : 11 Mar 2020 21:46  
Operator : CG/JU  
Sample : L1842-17DL 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_N  
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RE132D4-20200305DL

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN021920.M  
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QLast Update : Wed Mar 11 17:37:44 2020  
Response via : Initial Calibration





#1

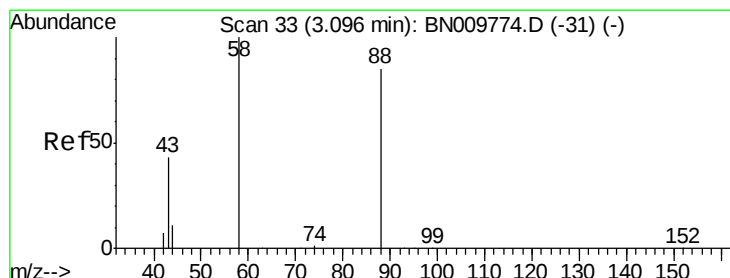
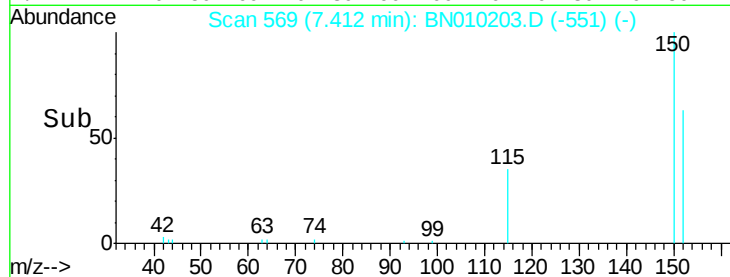
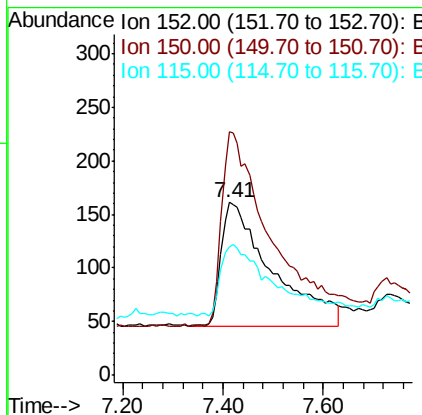
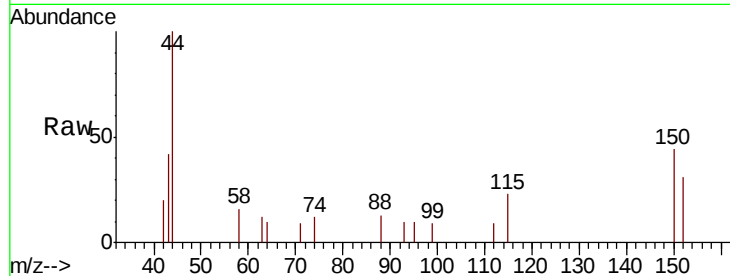
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.41 min Scan# 569  
Delta R.T. 0.05 min  
Lab File: BN010203.D  
Acq: 11 Mar 2020 21:46

Instrument :  
BNA\_N  
ClientSampleId :  
RE132D4-20200305DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 141.0 | 120.6 | 181.0 |
| 115     | 74.5  | 51.2  | 76.8  |

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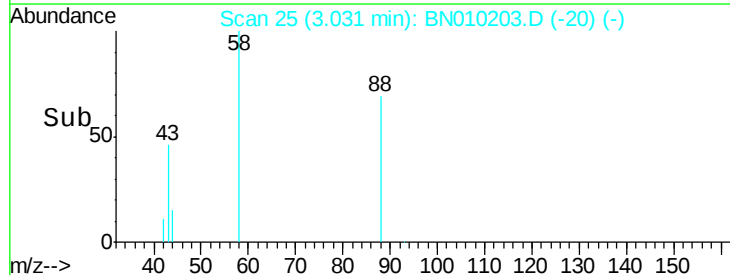
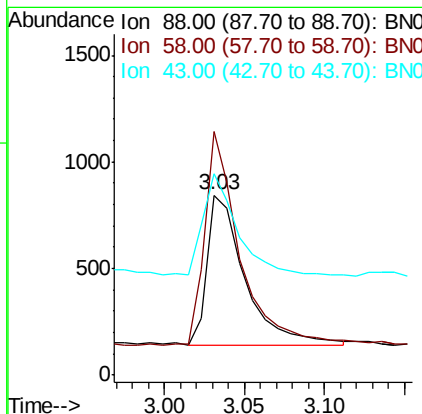
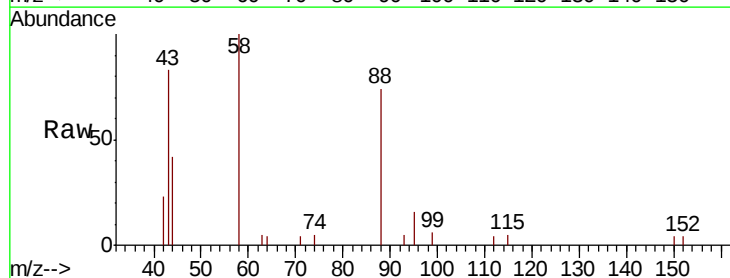
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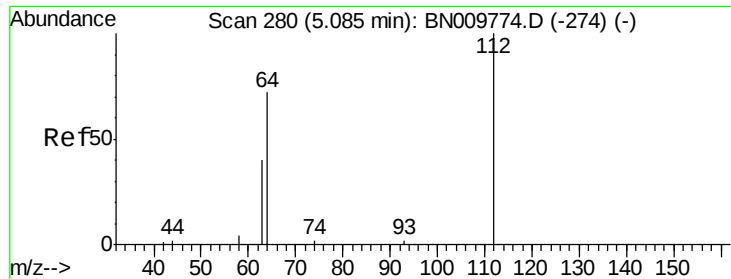


#2

1,4-Dioxane  
Concen: 1.428 ng m  
RT: 3.03 min Scan# 25  
Delta R.T. -0.01 min  
Lab File: BN010203.D  
Acq: 11 Mar 2020 21:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 99.4  | 97.8  | 146.8 |
| 43      | 48.0  | 45.1  | 67.7  |





#4

2-Fluorophenol

Concen: 0.019 ng

RT: 5.14 min Scan# 287

Delta R.T. 0.10 min

Lab File: BN010203.D

Acq: 11 Mar 2020 21:46

Instrument :

BNA\_N

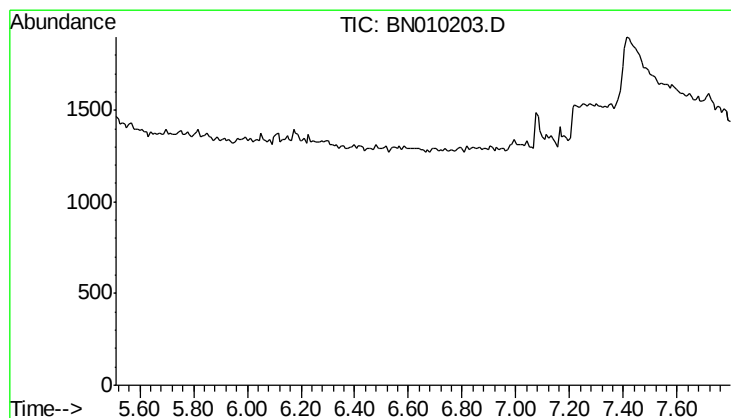
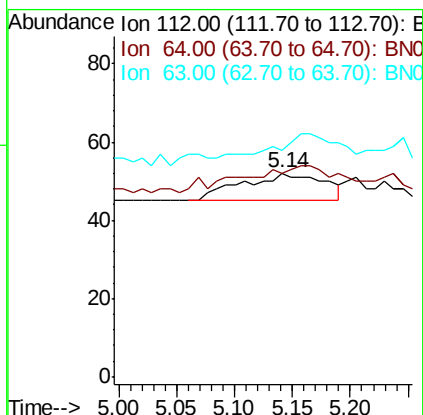
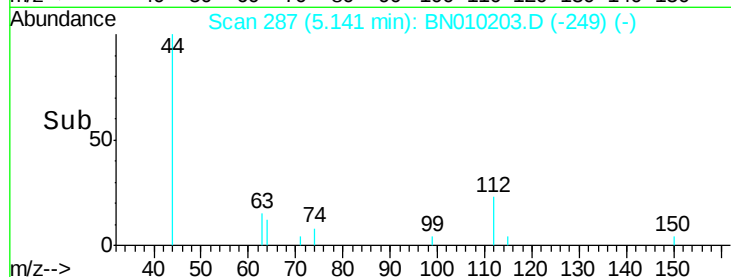
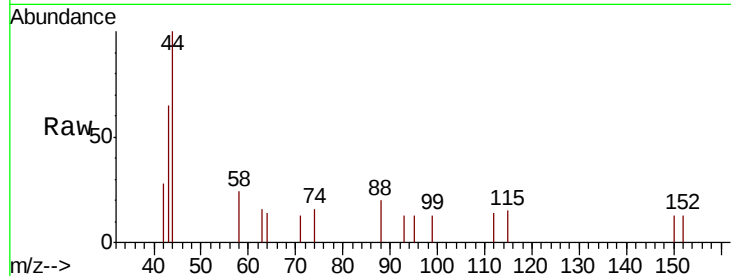
ClientSampleId :

RE132D4-20200305DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 41.2  | 65.8  | 98.6# |
| 63      | 0.0   | 38.7  | 58.1# |

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#5

Phenol-d6

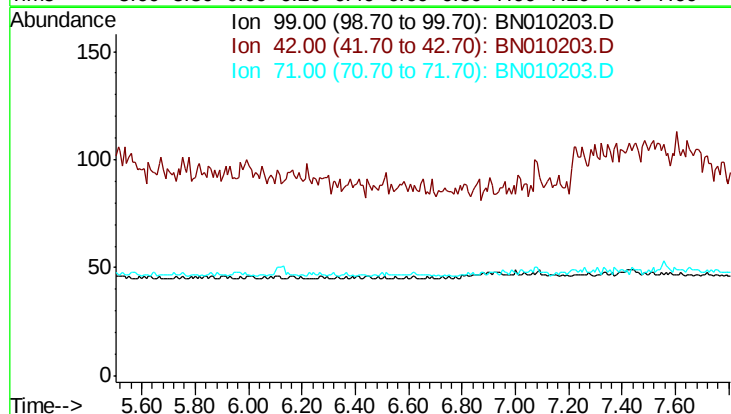
Concen: 0.000 ng

Expected RT: 6.61 min

Lab File: BN010203.D

Acq: 11 Mar 2020 21:46

| Tgt Ion | Exp Ratio |
|---------|-----------|
| 99      | 100       |
| 42      | 38.5      |
| 71      | 43.6      |





#7

Naphthalene-d8

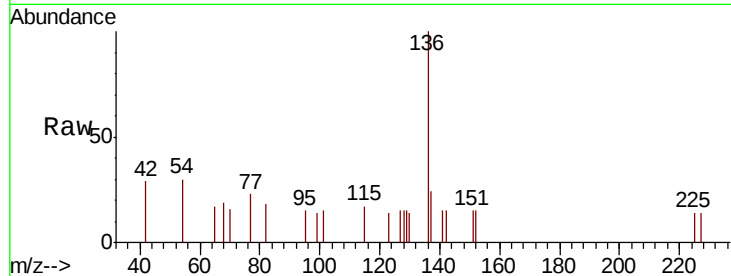
Concen: 0.400 ng m  
RT: 10.23 min Scan# 832  
Delta R.T. 0.11 min  
Lab File: BN010203.D  
Acq: 11 Mar 2020 21:46

Instrument :  
BNA\_N  
ClientSampleId :  
RE132D4-20200305DL

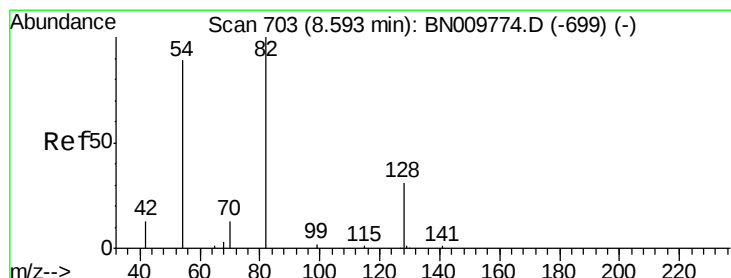
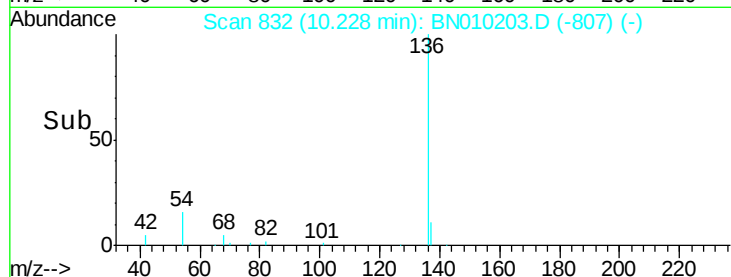
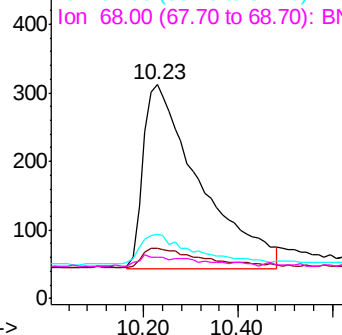
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 23.7  | 11.3  | 16.9# |
| 54      | 30.1  | 13.4  | 20.2# |
| 68      | 19.2  | 7.0   | 10.4# |

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Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BNC  
Ion 68.00 (67.70 to 68.70): BNC



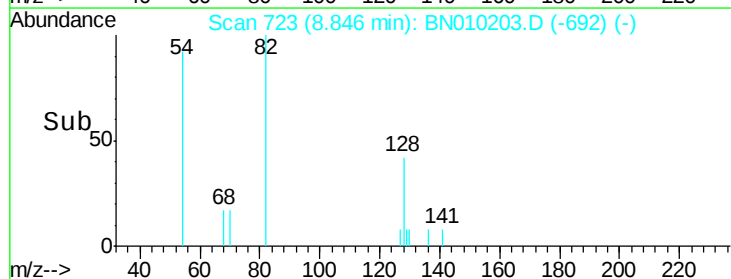
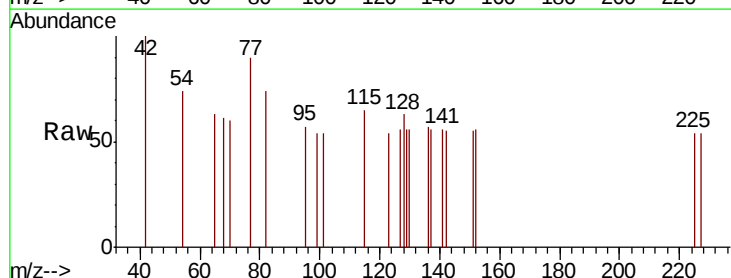
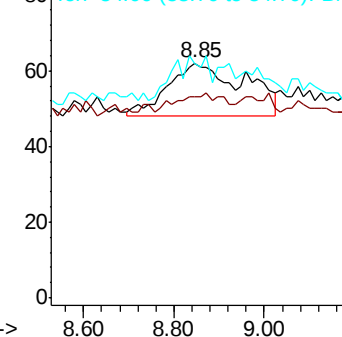
#8

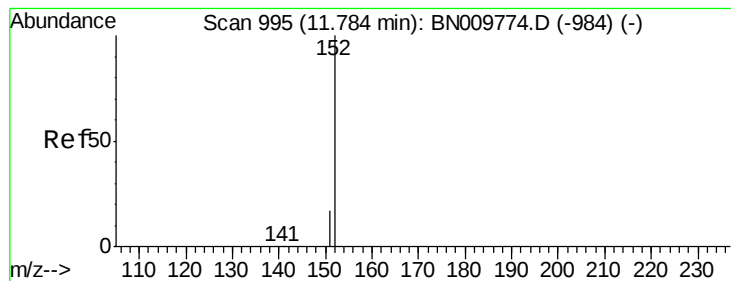
Nitrobenzene-d5

Concen: 0.090 ng m  
RT: 8.85 min Scan# 723  
Delta R.T. 0.29 min  
Lab File: BN010203.D  
Acq: 11 Mar 2020 21:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 85.5  | 32.5  | 48.7# |
| 54      | 100.0 | 73.5  | 110.3 |

Abundance Ion 82.00 (81.70 to 82.70): BNC  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BNC





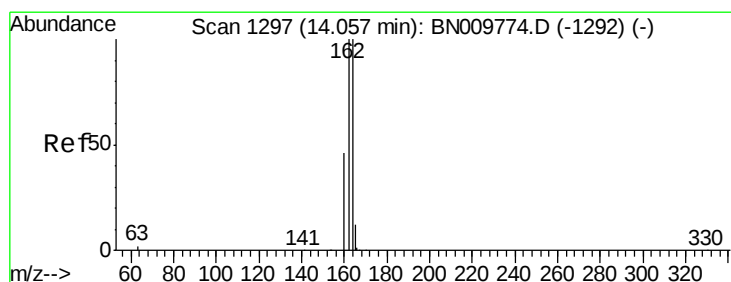
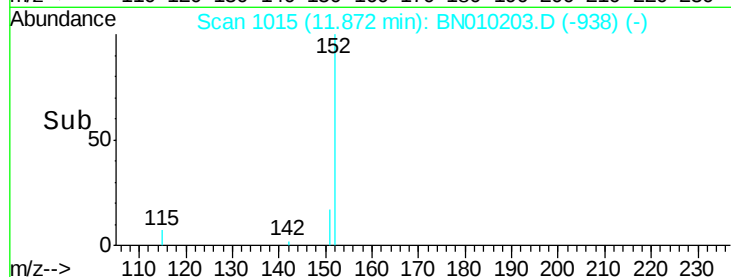
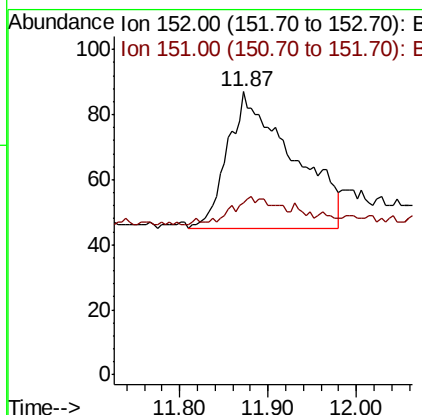
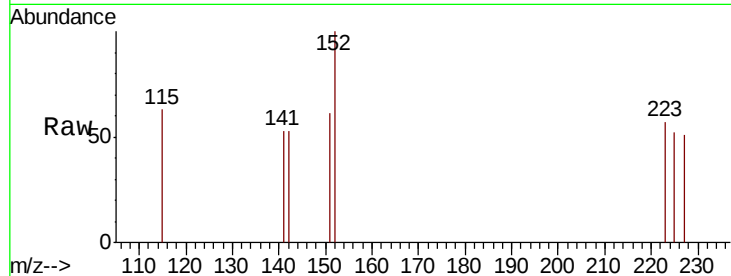
#11  
2-Methylnaphthalene-d10  
Concen: 0.050 ng  
RT: 11.87 min Scan# 1015  
Delta R.T. 0.14 min  
Lab File: BN010203.D  
Acq: 11 Mar 2020 21:46

Instrument :  
BNA\_N  
ClientSampleId :  
RE132D4-20200305DL

Tot Ion:152 Resp: 214  
Ion Ratio Lower Upper  
152 100  
151 8.4 15.1 22.7#

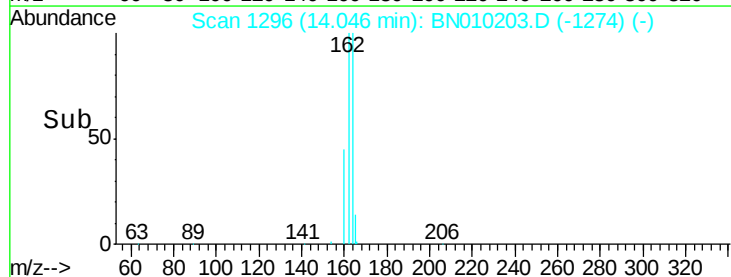
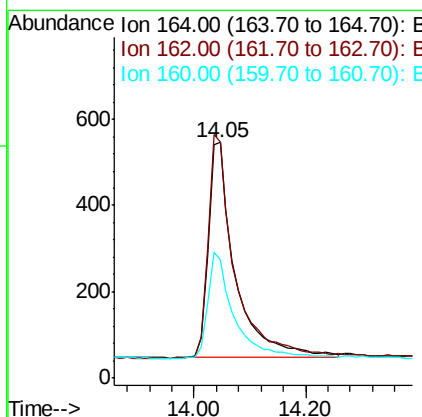
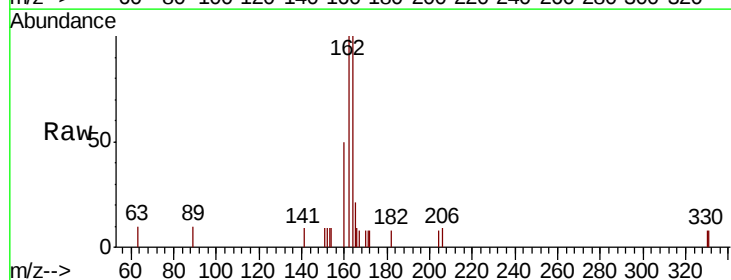
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#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.05 min Scan# 1296  
Delta R.T. 0.04 min  
Lab File: BN010203.D  
Acq: 11 Mar 2020 21:46

Tgt Ion:164 Resp: 1692  
Ion Ratio Lower Upper  
164 100  
162 100.0 79.9 119.9  
160 50.2 38.2 57.2





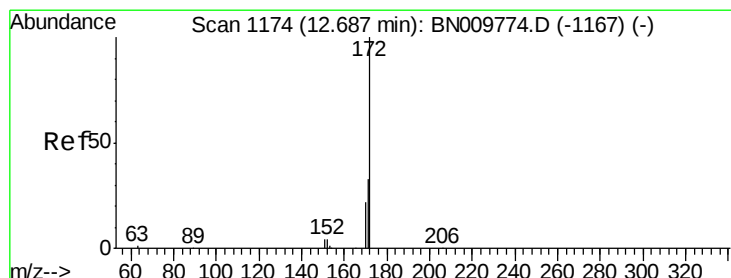
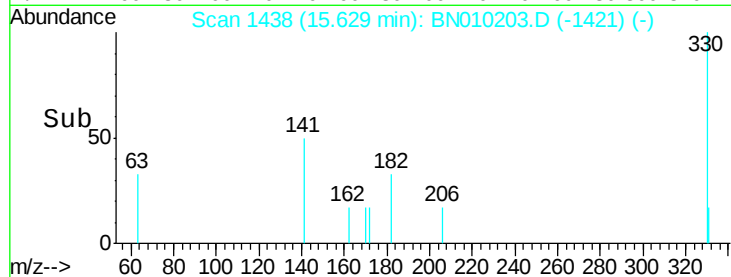
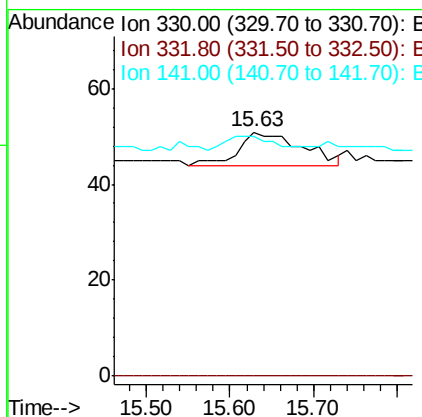
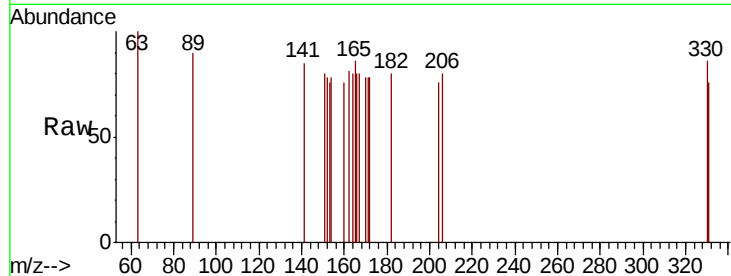
#14  
2,4,6-Tribromophenol  
Concen: 0.055 ng  
RT: 15.63 min Scan# 1438  
Delta R.T. 0.09 min  
Lab File: BN010203.D  
Acq: 11 Mar 2020 21:46

Instrument :  
BNA\_N  
ClientSampleId :  
RE132D4-20200305DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 0.0   | 36.8  | 55.2  |

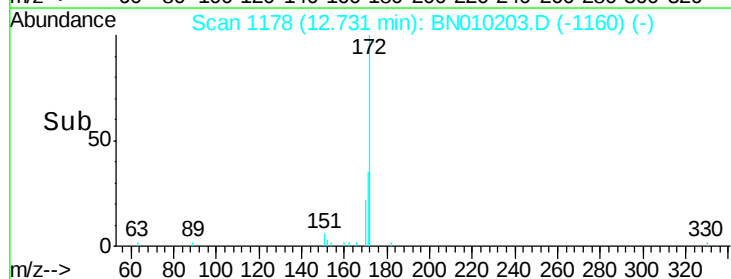
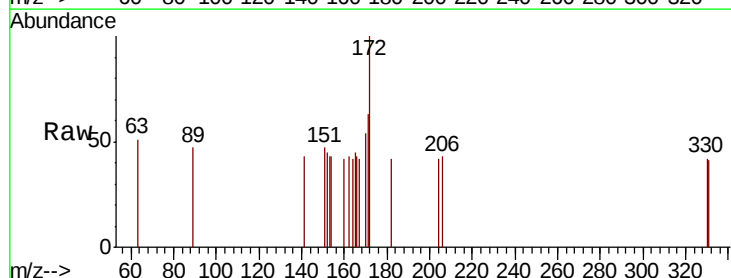
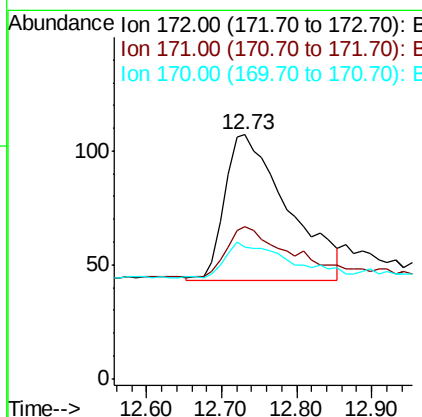
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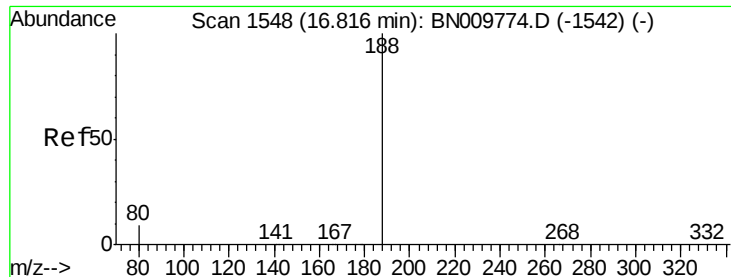
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#15  
2-Fluorobiphenyl  
Concen: 0.059 ng m  
RT: 12.73 min Scan# 1178  
Delta R.T. 0.10 min  
Lab File: BN010203.D  
Acq: 11 Mar 2020 21:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 62.6  | 28.7  | 43.1  |
| 170     | 54.2  | 20.1  | 30.1  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1548

Delta R.T. 0.04 min

Lab File: BN010203.D

Acq: 11 Mar 2020 21:46

Instrument :

BNA\_N

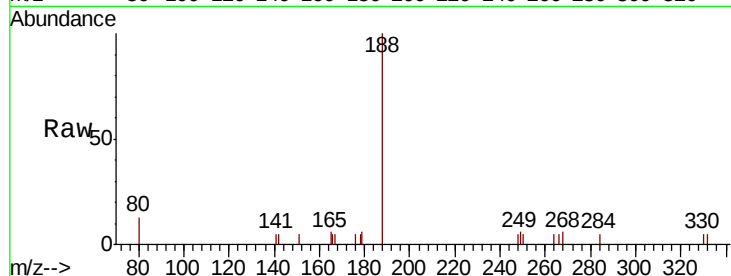
ClientSampleId :

RE132D4-20200305DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 2994  |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 13.1  | 8.3   | 12.5# |

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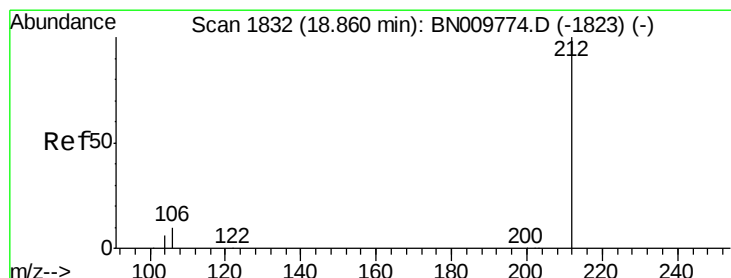
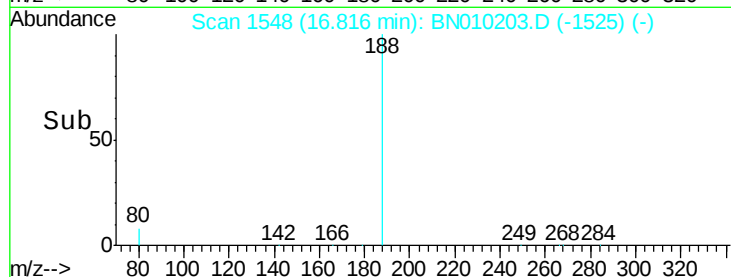
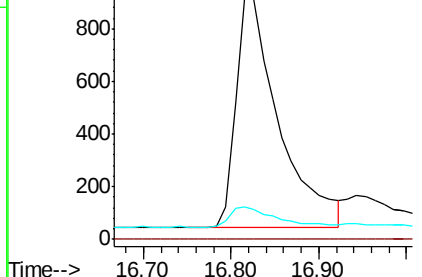
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#25

Fluoranthene-d10

Concen: 0.081 ng

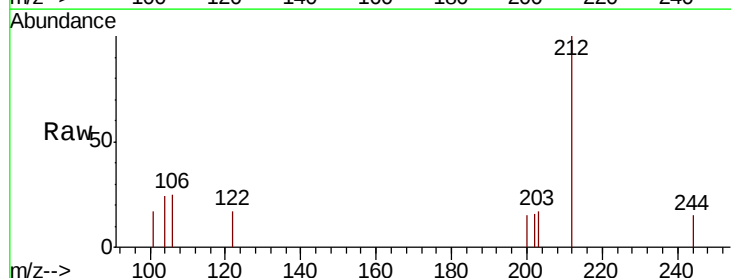
RT: 18.86 min Scan# 1832

Delta R.T. 0.04 min

Lab File: BN010203.D

Acq: 11 Mar 2020 21:46

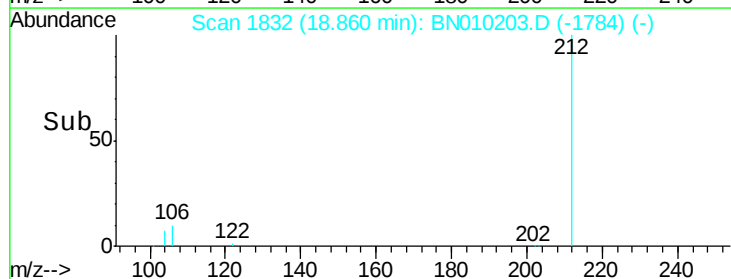
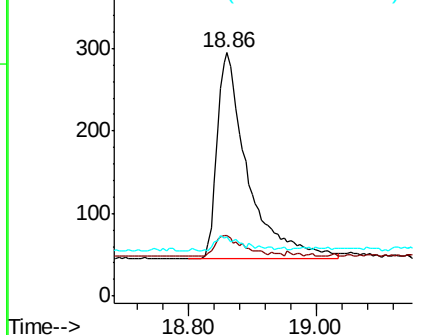
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 838  |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 9.3   | 8.4   | 12.6 |
| 104       | 4.8   | 4.8   | 7.2# |

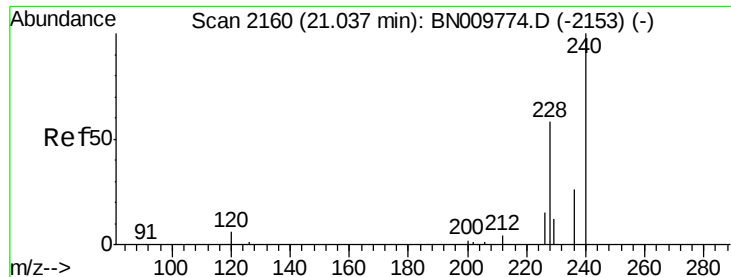


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.02 min Scan# 2158

Delta R.T. 0.02 min

Lab File: BN010203.D

Acq: 11 Mar 2020 21:46

Instrument :

BNA\_N

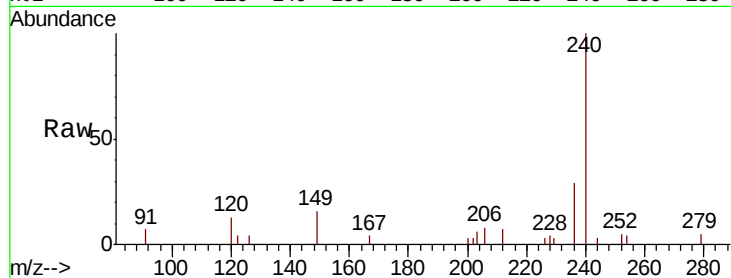
ClientSampleId :

RE132D4-20200305DL

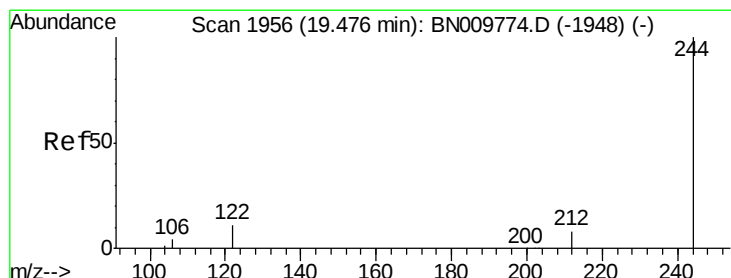
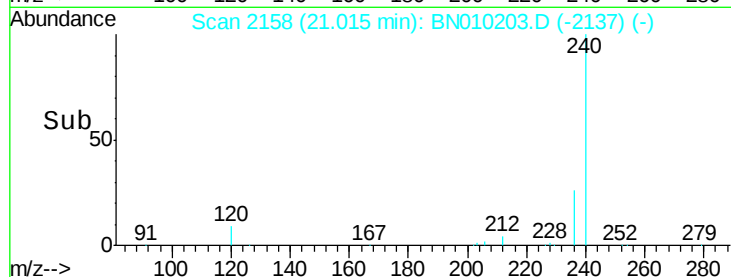
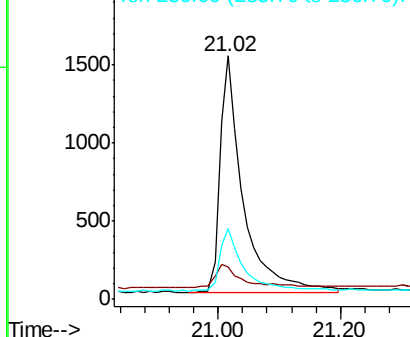
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 240   | Resp: | 3949  |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 13.3  | 7.9   | 11.9# |
| 236       | 28.9  | 22.0  | 33.0  |

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Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



#29

Terphenyl-d14

Concen: 0.079 ng

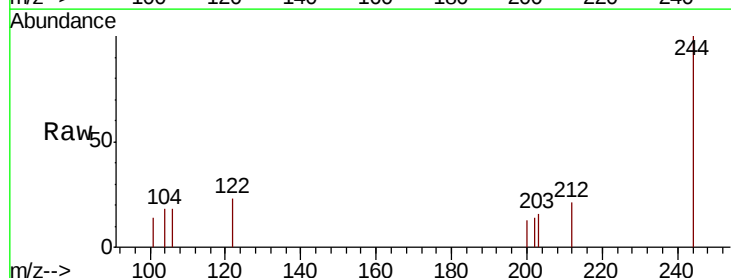
RT: 19.46 min Scan# 1952

Delta R.T. 0.03 min

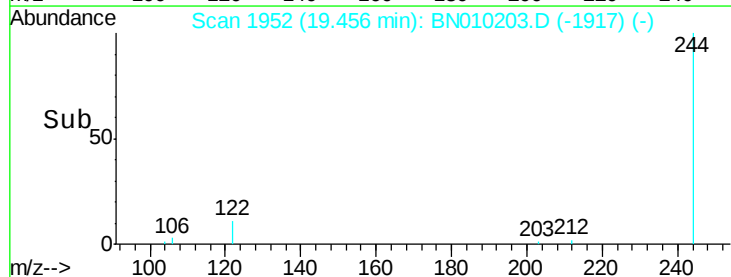
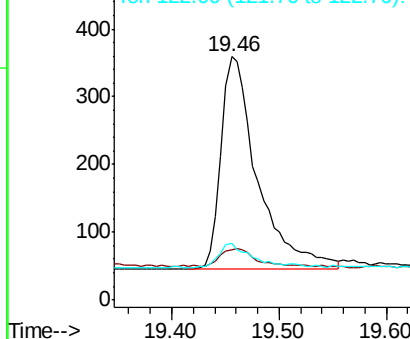
Lab File: BN010203.D

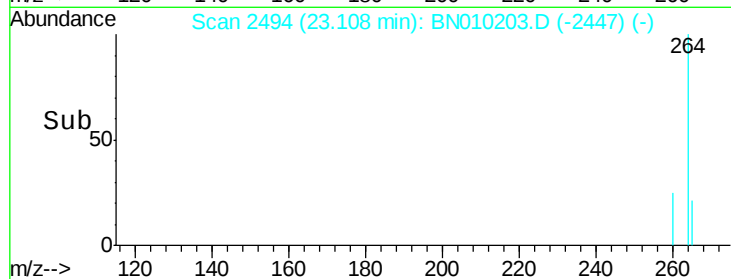
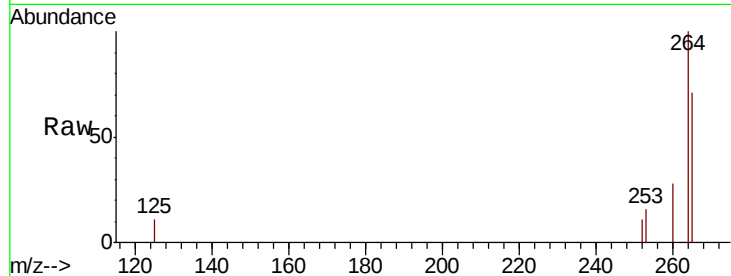
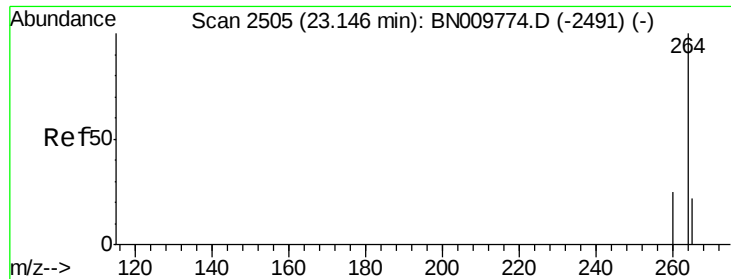
Acq: 11 Mar 2020 21:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 747   |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 20.6  | 8.0   | 12.0# |
| 122       | 23.1  | 10.0  | 15.0# |



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





#34  
 Pervlene-d12  
 Concen: 0.400 ng  
 RT: 23.11 min Scan# 2494  
 Delta R.T. 0.01 min  
 Lab File: BN010203.D  
 Acq: 11 Mar 2020 21:46

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 264   | Resp: | 3186 |
| Ion Ratio | Lower | Upper |      |
| 264       | 100   |       |      |
| 260       | 27.6  | 21.1  | 31.7 |
| 265       | 70.7  | 57.5  | 86.3 |

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE132D4-20200305DL

Manual Integrations  
 APPROVED

mohammad  
 3/16/2020 1:45:55 PM

