

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN101818\  
 Data File : BN003199.D  
 Acq On : 18 Oct 2018 10:03  
 Operator : MJ/SJ  
 Sample : J5317-17DL 2X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE-109D1-20181005DL

Manual Integrations  
 APPROVED

Sohil  
 10/19/2018 3:55:34 PM

Quant Time: Oct 19 02:20:56 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN101718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 18 15:26:23 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.66  | 152  | 954      | 0.40  | ng    | 0.02     |
| 7) Naphthalene-d8              | 10.52 | 136  | 3947m    | 0.40  | ng    | 0.09     |
| 13) Acenaphthene-d10           | 14.29 | 164  | 3260     | 0.40  | ng    | 0.01     |
| 19) Phenanthrene-d10           | 17.07 | 188  | 8852     | 0.40  | ng    | 0.02     |
| 27) Chrysene-d12               | 21.26 | 240  | 11111    | 0.40  | ng    | 0.01     |
| 34) Perylene-d12               | 23.47 | 264  | 11219    | 0.40  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.37  | 112  | 134m     | 0.06  | ng    | 0.07     |
| 5) Phenol-d6                   | 6.89  | 99   | 160      | 0.05  | ng    | -0.05    |
| 8) Nitrobenzene-d5             | 9.08  | 82   | 305m     | 0.12  | ng    | 0.22     |
| 11) 2-Methylnaphthalene-d10    | 12.13 | 152  | 1264     | 0.19  | ng    | 0.09     |
| 14) 2,4,6-Tribromophenol       | 15.86 | 330  | 350      | 0.17  | ng    | 0.03     |
| 15) 2-Fluorobiphenyl           | 12.96 | 172  | 2277     | 0.18  | ng    | 0.03     |
| 25) Fluoranthene-d10           | 19.09 | 212  | 5348     | 0.19  | ng    | 0.01     |
| 29) Terphenyl-d14              | 19.68 | 244  | 4968     | 0.21  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 3.22  | 88   | 2127     | 1.740 | ng    | 94       |
| 32) Bis(2-ethylhexyl)phthalate | 21.13 | 149  | 1388     | 0.086 | ng    | # 99     |

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

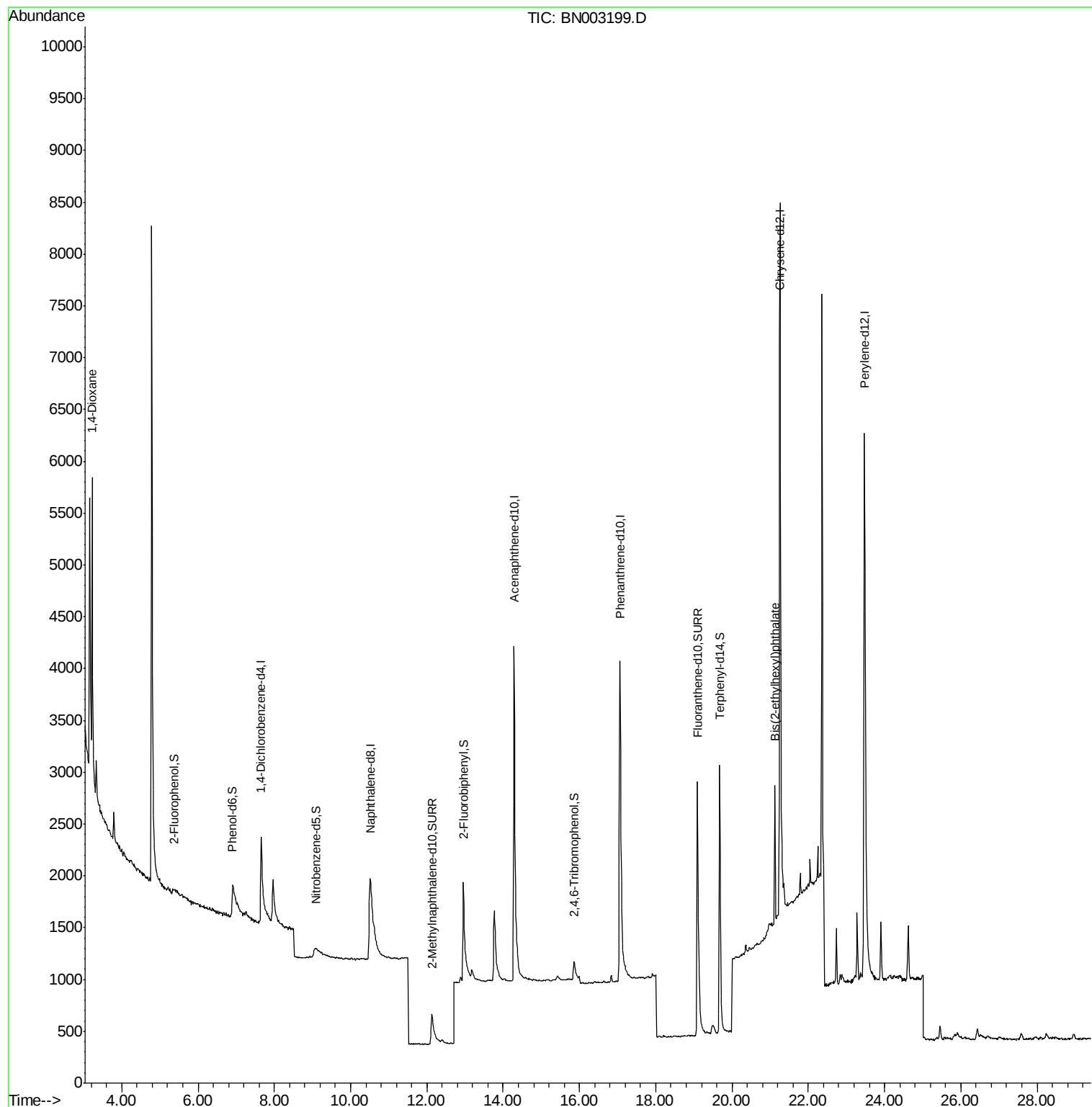
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN101818\  
Data File : BN003199.D  
Acq On : 18 Oct 2018 10:03  
Operator : MJ/SJ  
Sample : J5317-17DL 2X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

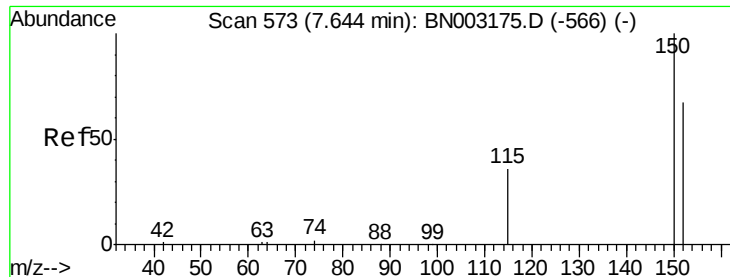
Instrument :  
BNA\_N  
ClientSampleId :  
RE-109D1-20181005DL

Manual Integrations  
APPROVED

Sohil  
10/19/2018 3:55:34 PM

Quant Time: Oct 19 02:20:56 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN101718.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 18 15:26:23 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.66 min Scan# 575

Delta R.T. 0.02 min

Lab File: BN003199.D

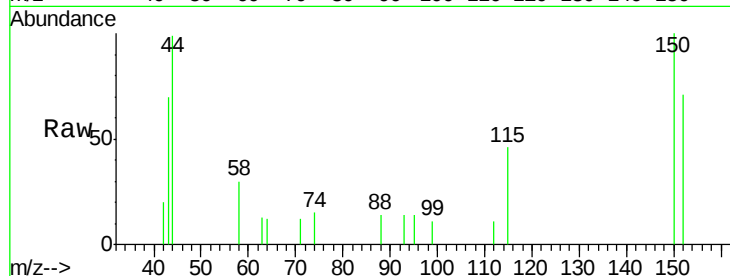
Acq: 18 Oct 2018 10:03

Instrument :

BNA\_N

ClientSampleId :

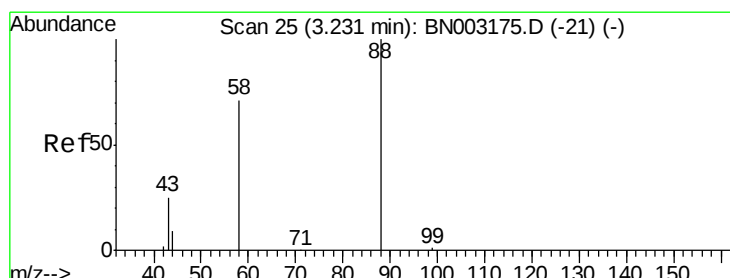
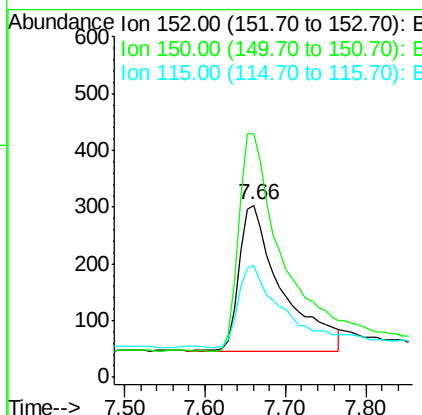
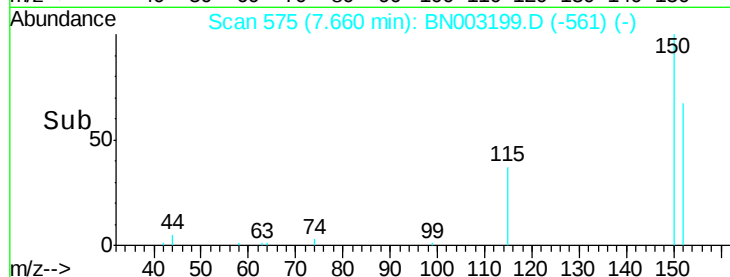
RE-109D1-20181005DL



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 954   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 141.1 | 126.2 | 189.4 |
| 115       | 64.5  | 49.8  | 74.6  |

Manual Integrations  
APPROVED

Sohil  
10/19/2018 3:55:34 PM



#2

1,4-Dioxane

Concen: 1.740 ng

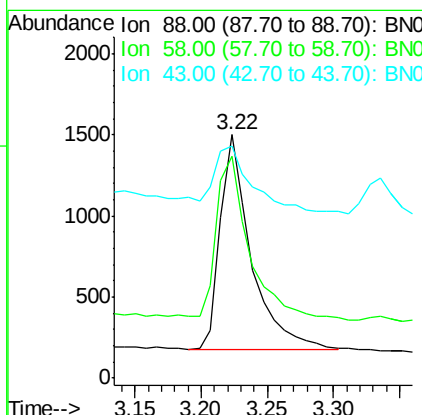
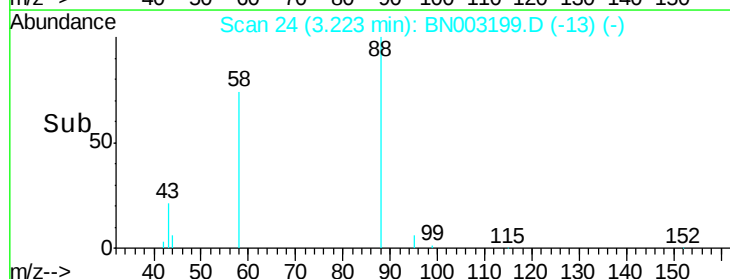
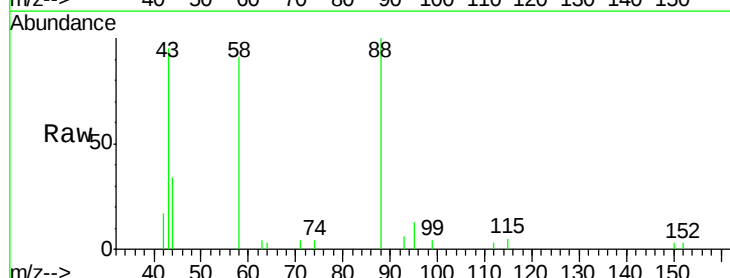
RT: 3.22 min Scan# 24

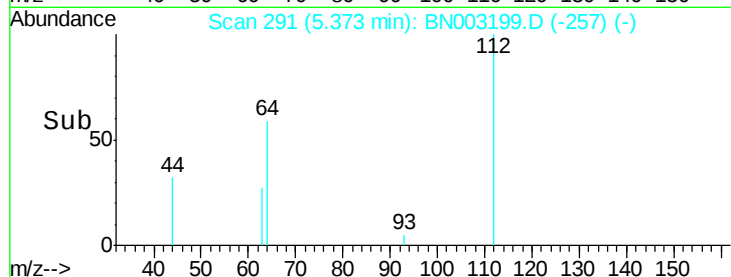
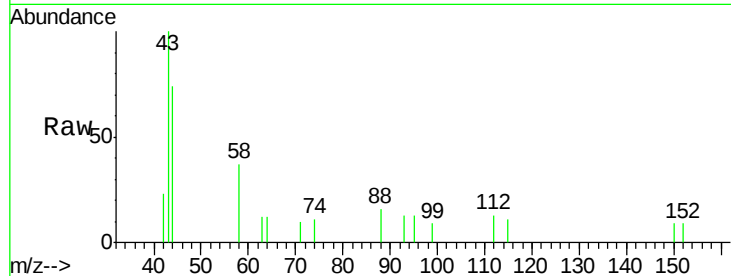
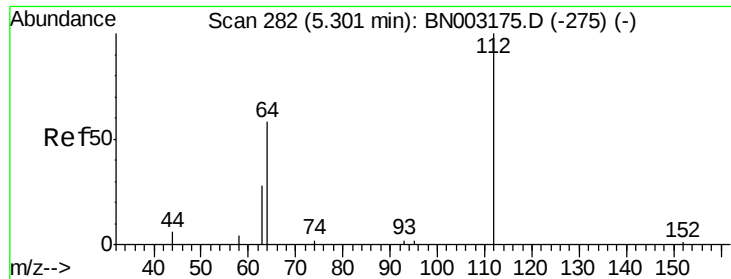
Delta R.T. -0.01 min

Lab File: BN003199.D

Acq: 18 Oct 2018 10:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 88    | Resp: | 2127  |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 58        | 78.5  | 66.7  | 100.1 |
| 43        | 35.6  | 24.6  | 37.0  |





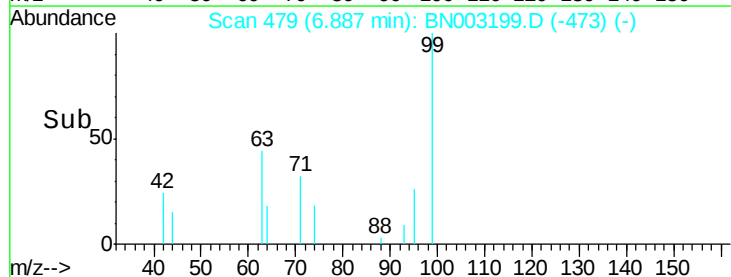
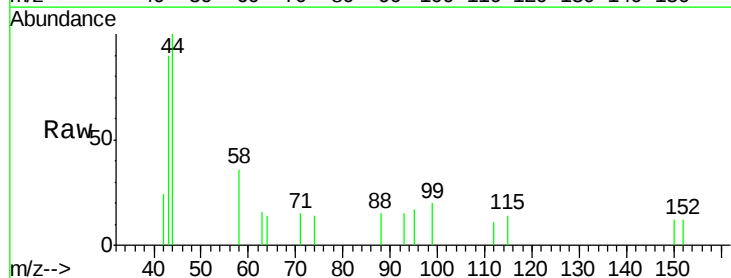
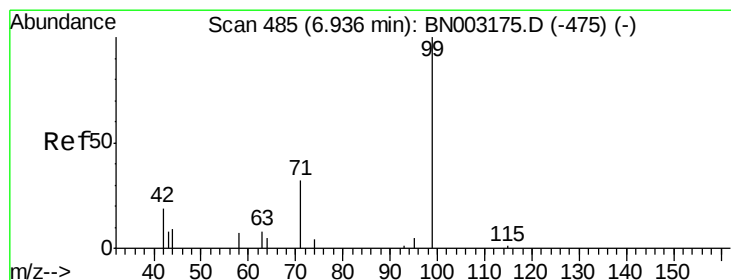
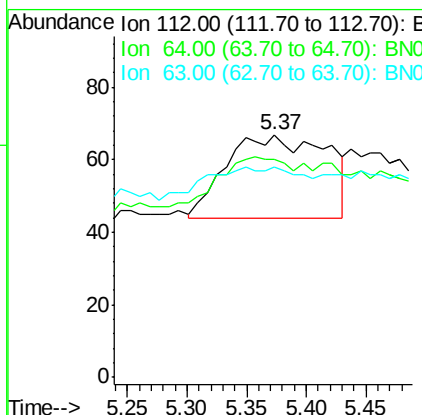
#4  
2-Fluorophenol  
Concen: 0.064 ng m  
RT: 5.37 min Scan# 291  
Delta R.T. 0.07 min  
Lab File: BN003199.D  
Acq: 18 Oct 2018 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 41.0  | 49.0  | 73.4# |
| 63      | 23.1  | 25.9  | 38.9# |

Instrument :  
BNA\_N  
ClientSampleId :  
RE-109D1-20181005DL

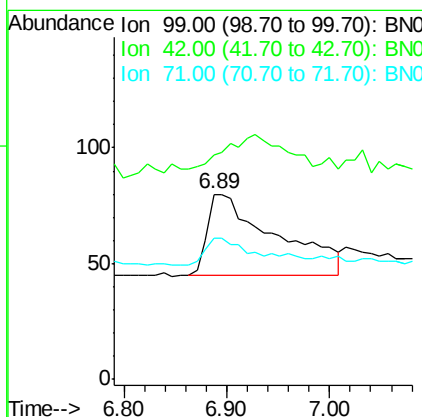
Manual Integrations  
APPROVED

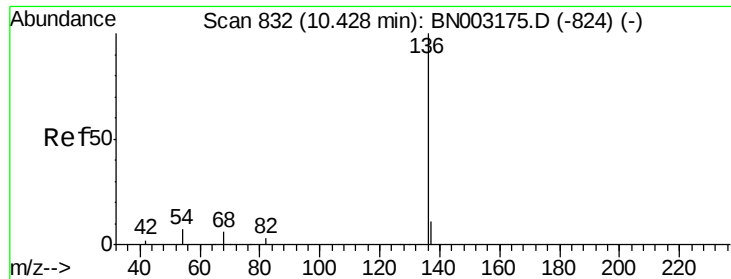
Sohil  
10/19/2018 3:55:34 PM



#5  
Phenol-d6  
Concen: 0.053 ng  
RT: 6.89 min Scan# 479  
Delta R.T. -0.05 min  
Lab File: BN003199.D  
Acq: 18 Oct 2018 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 0.0   | 15.4  | 23.2# |
| 71      | 26.9  | 26.0  | 39.0  |



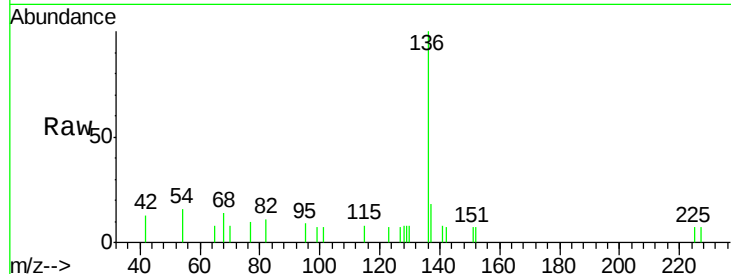


#7

Naphthalene-d8

Concen: 0.400 ng m  
RT: 10.52 min Scan# 839  
Delta R.T. 0.09 min  
Lab File: BN003199.D  
Acq: 18 Oct 2018 10:03

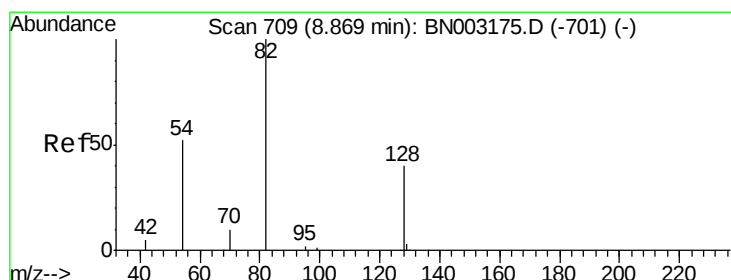
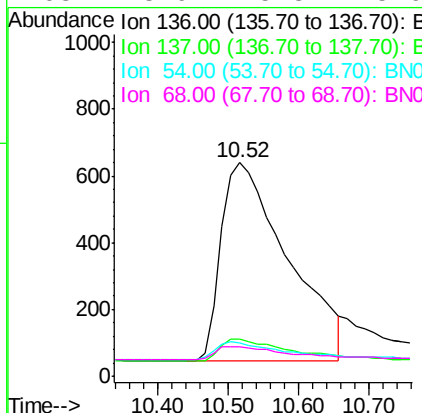
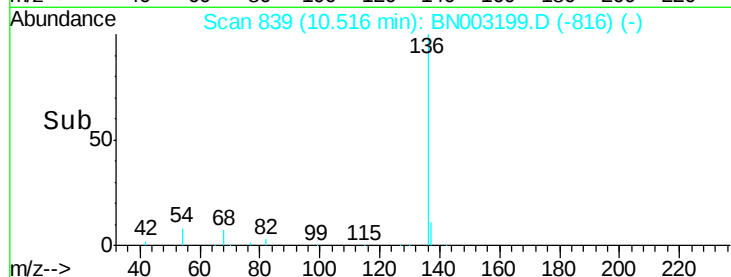
Instrument :  
BNA\_N  
ClientSampleId :  
RE-109D1-20181005DL



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 17.7  | 9.4   | 14.0# |
| 54      | 15.6  | 7.4   | 11.0# |
| 68      | 13.9  | 5.8   | 8.6#  |

Manual Integrations  
APPROVED

Sohil  
10/19/2018 3:55:34 PM

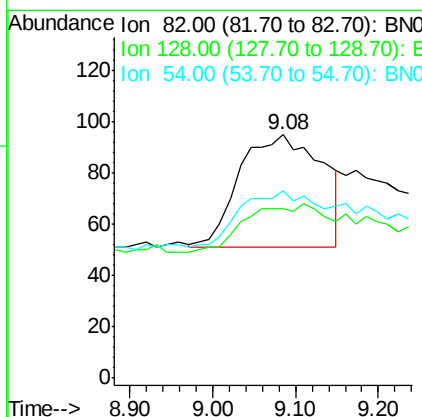
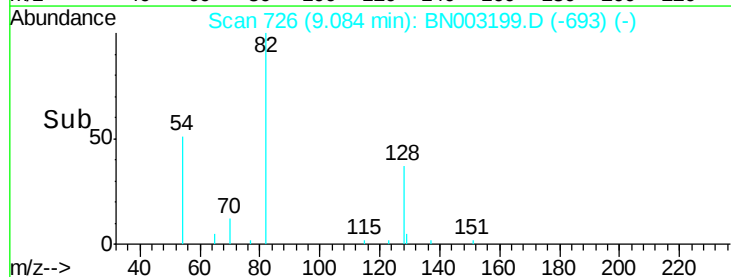
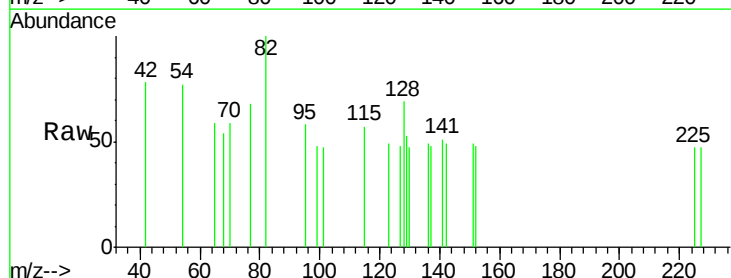


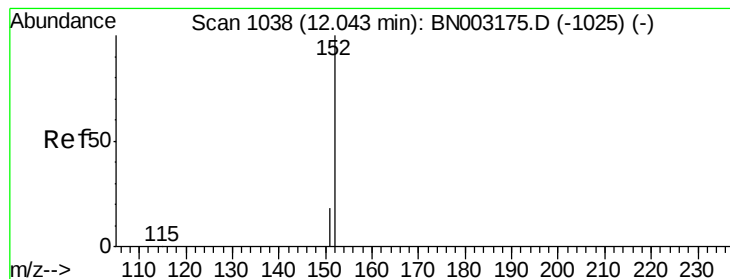
#8

Nitrobenzene-d5

Concen: 0.120 ng m  
RT: 9.08 min Scan# 726  
Delta R.T. 0.22 min  
Lab File: BN003199.D  
Acq: 18 Oct 2018 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 69.5  | 38.2  | 57.4# |
| 54      | 76.8  | 44.1  | 66.1# |





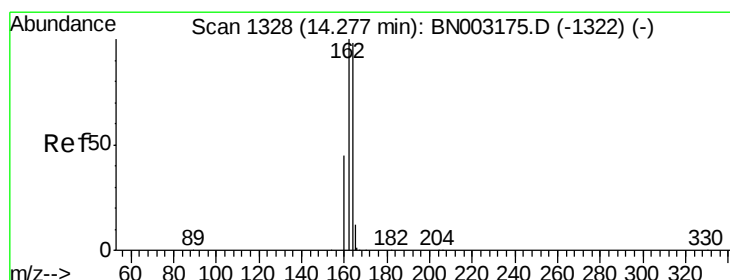
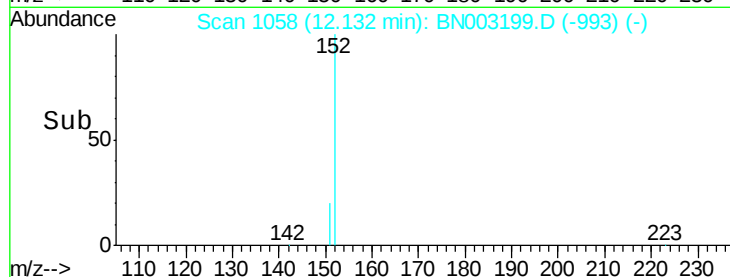
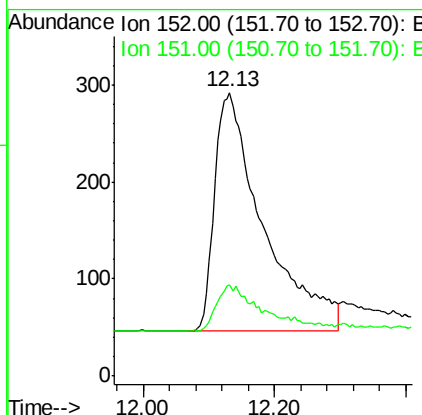
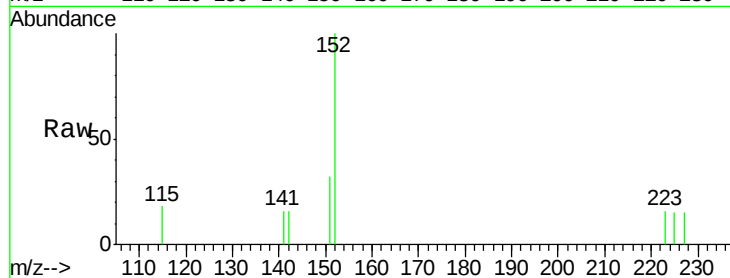
#11  
2-Methylnaphthalene-d10  
Concen: 0.189 ng  
RT: 12.13 min Scan# 1058  
Delta R.T. 0.09 min  
Lab File: BN003199.D  
Acq: 18 Oct 2018 10:03

Instrument :  
BNA\_N  
ClientSampleId :  
RE-109D1-20181005DL

Tgt Ion:152 Resp: 1264  
Ion Ratio Lower Upper  
152 100  
151 17.5 15.0 22.4

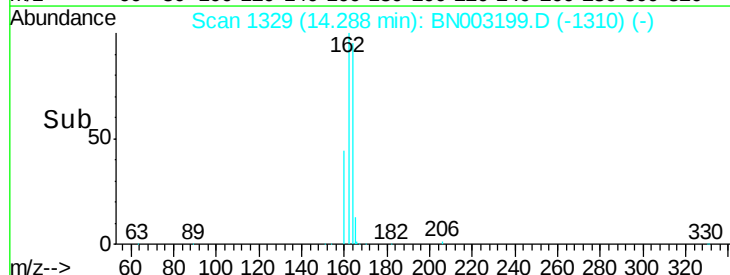
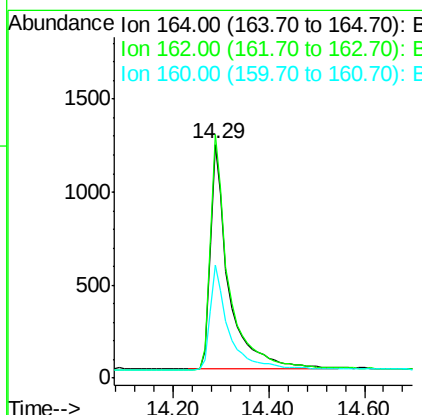
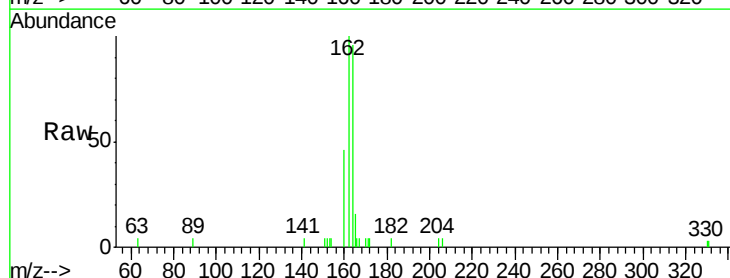
Manual Integrations  
APPROVED

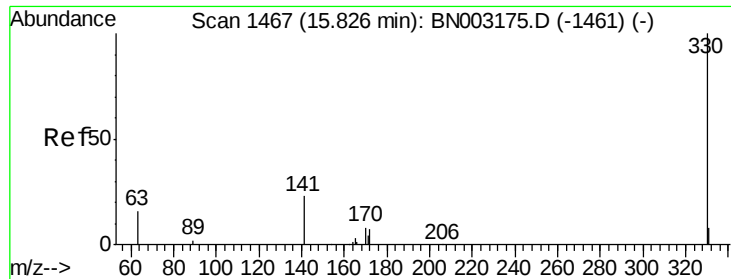
Sohil  
10/19/2018 3:55:34 PM



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.29 min Scan# 1329  
Delta R.T. 0.01 min  
Lab File: BN003199.D  
Acq: 18 Oct 2018 10:03

Tgt Ion:164 Resp: 3260  
Ion Ratio Lower Upper  
164 100  
162 104.1 81.7 122.5  
160 48.3 36.3 54.5





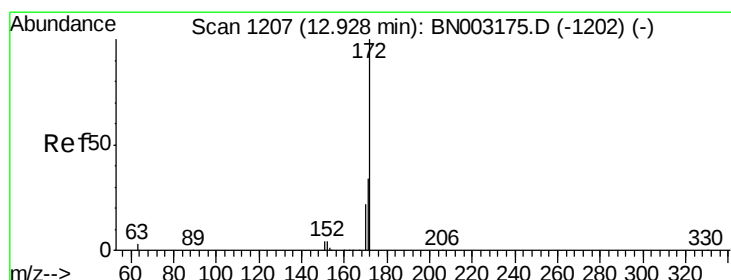
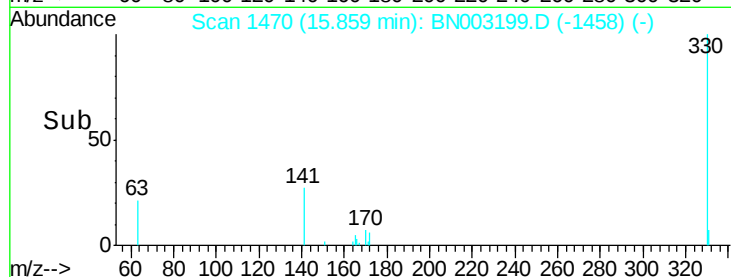
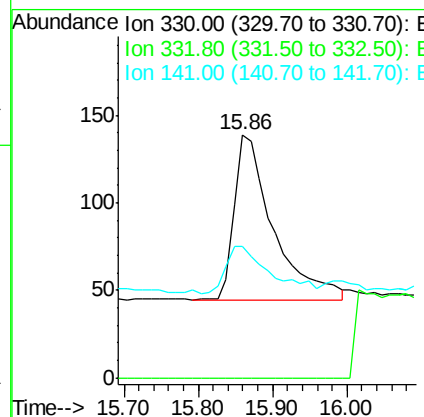
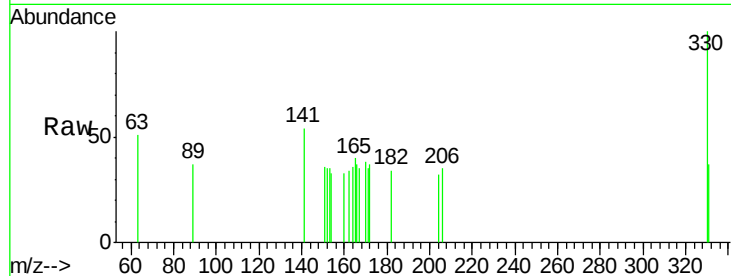
#14  
 2,4,6-Tribromophenol  
 Concen: 0.168 ng  
 RT: 15.86 min Scan# 1470  
 Delta R.T. 0.03 min  
 Lab File: BN003199.D  
 Acq: 18 Oct 2018 10:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE-109D1-20181005DL

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   | 350  |       |       |
| 332     | 0.0   | 0.0  | 0.0   | 0.0   |
| 141     | 31.4  | 22.6 | 33.8  |       |

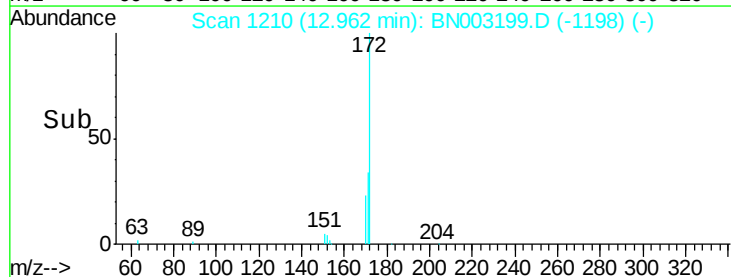
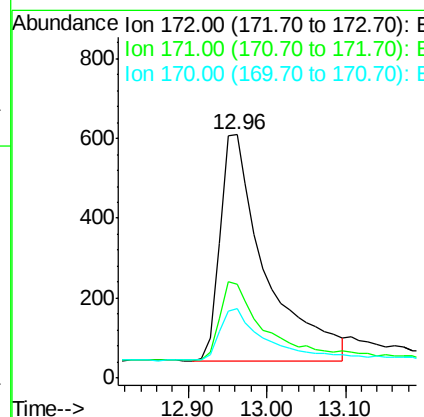
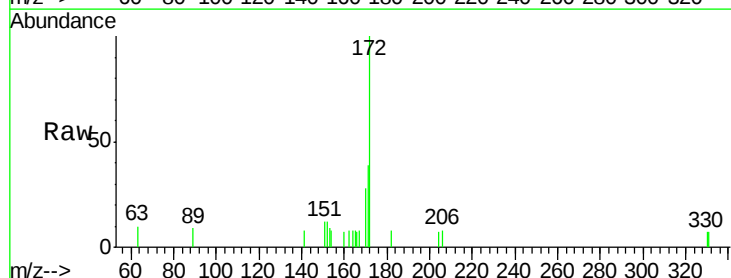
Manual Integrations  
 APPROVED

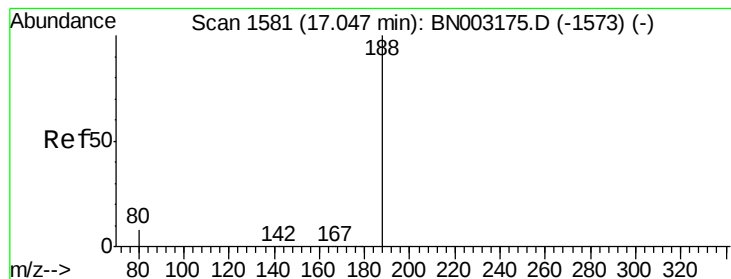
Sohil  
 10/19/2018 3:55:34 PM



#15  
 2-Fluorobiphenyl  
 Concen: 0.177 ng  
 RT: 12.96 min Scan# 1210  
 Delta R.T. 0.03 min  
 Lab File: BN003199.D  
 Acq: 18 Oct 2018 10:03

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   | 2277 |       |       |
| 171     | 38.8  | 28.6 | 43.0  |       |
| 170     | 28.4  | 18.6 | 27.8# |       |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.07 min Scan# 1583

Delta R.T. 0.02 min

Lab File: BN003199.D

Acq: 18 Oct 2018 10:03

Instrument :

BNA\_N

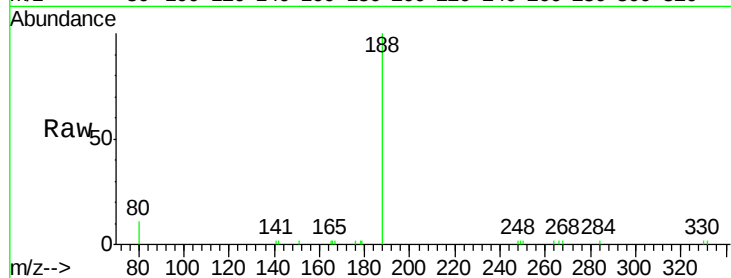
ClientSampleId :

RE-109D1-20181005DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 0.0   | 0.0        | 0.0        |
| 80      | 11.3  | 6.7        | 10.1       |

Manual Integrations  
APPROVED

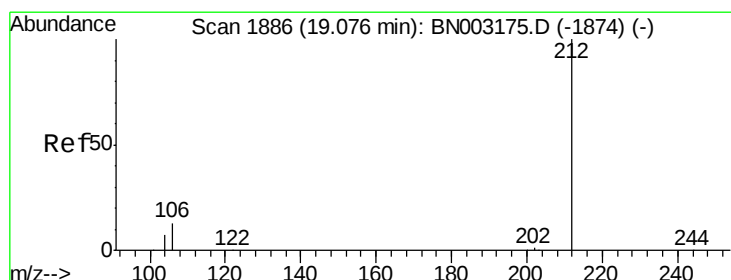
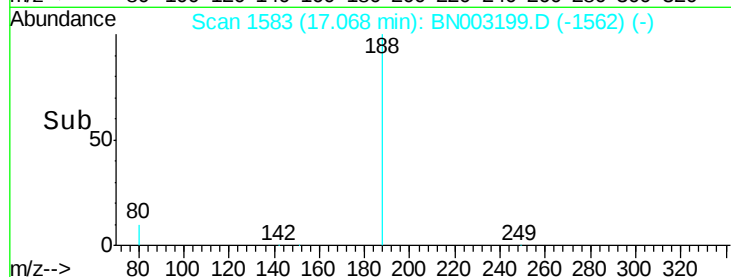
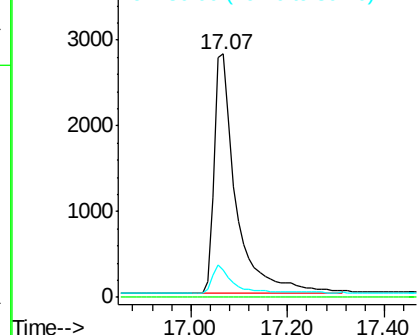
Sohil  
10/19/2018 3:55:34 PM



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: 0.195 ng

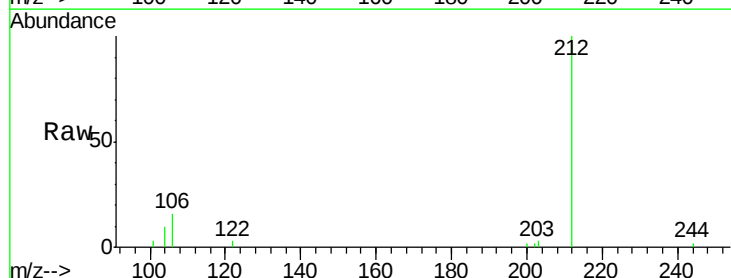
RT: 19.09 min Scan# 1889

Delta R.T. 0.01 min

Lab File: BN003199.D

Acq: 18 Oct 2018 10:03

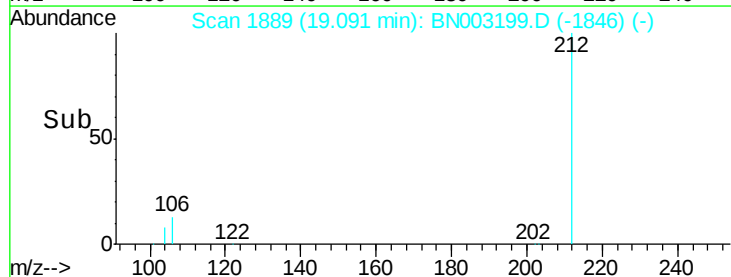
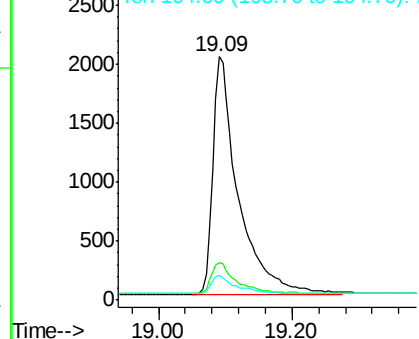
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 212     | 100   |            |            |
| 106     | 13.0  | 10.2       | 15.4       |
| 104     | 7.6   | 5.8        | 8.6        |

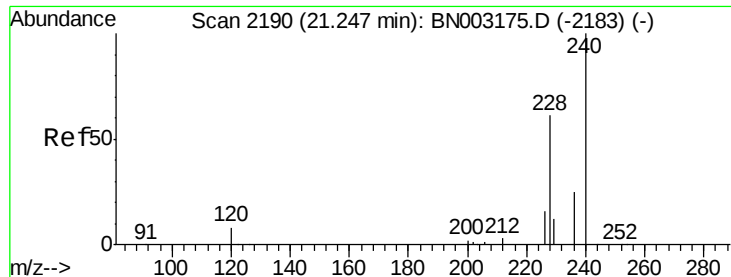


Abundance Ion 212.00 (211.70 to 212.70): E

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: 21.26 min Scan# 2191

Delta R.T. 0.01 min

Lab File: BN003199.D

Acq: 18 Oct 2018 10:03

Instrument :

BNA\_N

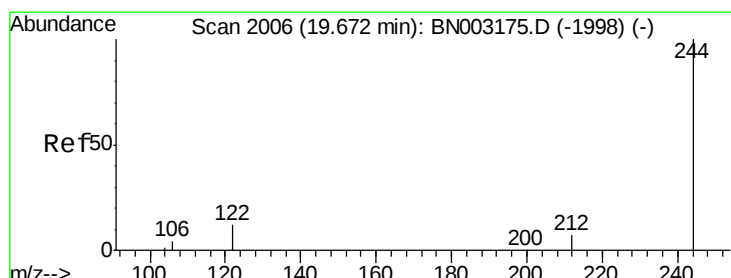
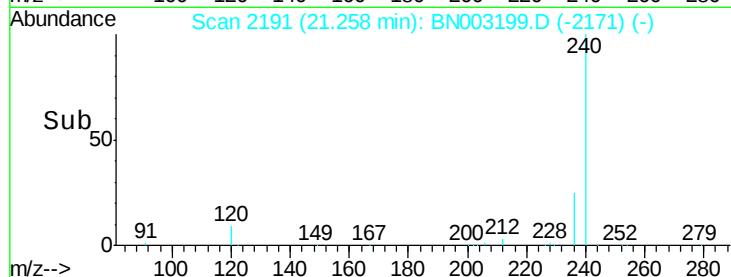
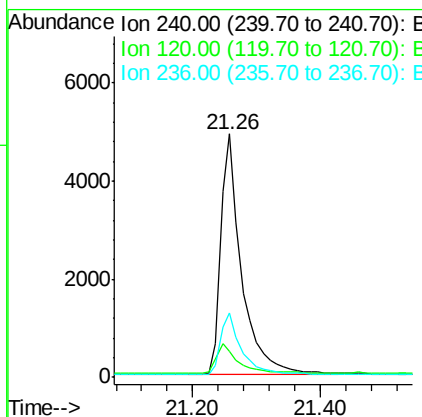
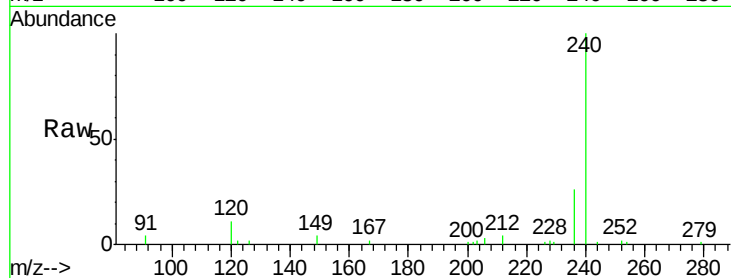
ClientSampleId :

RE-109D1-20181005DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 11111 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 10.8  | 7.8   | 11.8  |
| 236       | 26.4  | 21.0  | 31.4  |

Manual Integrations  
APPROVED

Sohil  
10/19/2018 3:55:34 PM



#29

Terphenyl-d14

Concen: 0.206 ng

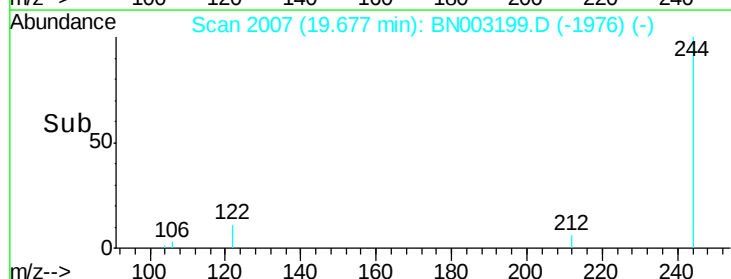
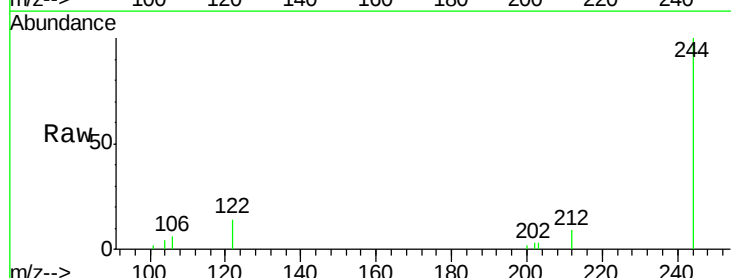
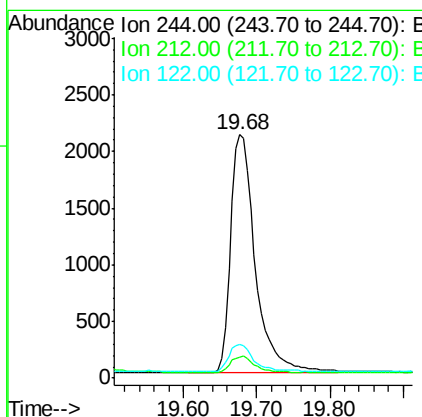
RT: 19.68 min Scan# 2007

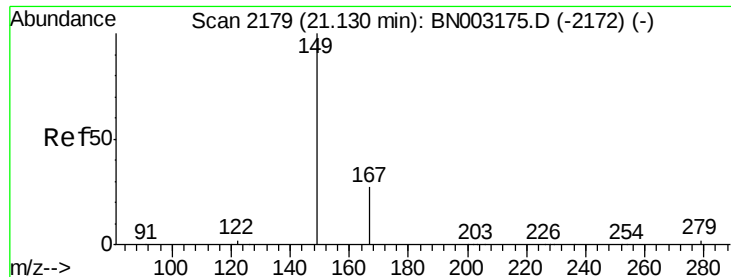
Delta R.T. 0.00 min

Lab File: BN003199.D

Acq: 18 Oct 2018 10:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 4968  |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 8.8   | 6.2   | 9.4   |
| 122       | 13.8  | 9.1   | 13.7# |





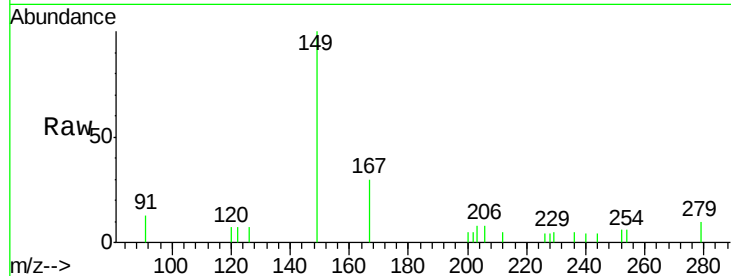
#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.086 ng  
 RT: 21.13 min Scan# 2179  
 Delta R.T. 0.00 min  
 Lab File: BN003199.D  
 Acq: 18 Oct 2018 10:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE-109D1-20181005DL

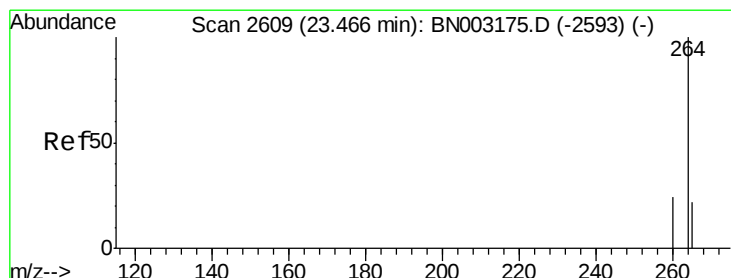
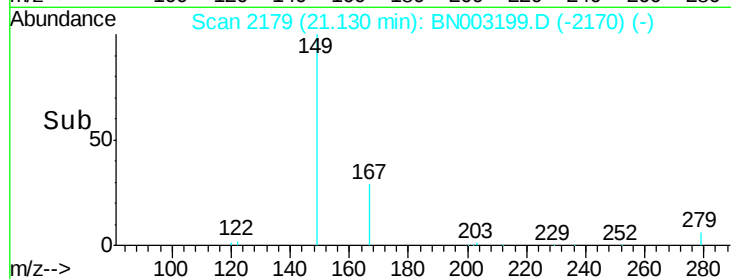
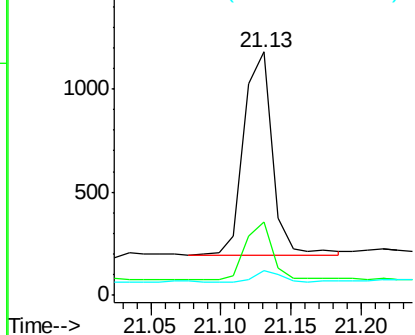
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.7  | 22.2  | 33.4  |
| 279     | 5.6   | 3.7   | 5.5#  |

Manual Integrations  
 APPROVED

Sohil  
 10/19/2018 3:55:34 PM



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.47 min Scan# 2611  
 Delta R.T. 0.01 min  
 Lab File: BN003199.D  
 Acq: 18 Oct 2018 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 19.7  | 29.5  |
| 265     | 31.9  | 27.6  | 41.4  |

Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

