

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN012420\  
 Data File : BN009432.D  
 Acq On : 23 Jan 2020 20:16  
 Operator : CG/JU  
 Sample : L1220-03  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Jan 24 12:17:22 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN011420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 14 09:33:55 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.47  | 152  | 1534     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.21 | 136  | 5434     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.09 | 164  | 3456     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 16.85 | 188  | 7531     | 0.40 | ng    | -0.02    |
| 27) Chrysene-d12          | 21.06 | 240  | 7432     | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.18 | 264  | 8224     | 0.40 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.12  | 112  | 904      | 0.26 | ng    | 0.00     |
| 5) Phenol-d6                | 6.66  | 99   | 801      | 0.20 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 8.62  | 82   | 1602     | 0.37 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 11.81 | 152  | 3072     | 0.29 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 15.61 | 330  | 624      | 0.48 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl        | 12.71 | 172  | 6699     | 0.52 | ng    | -0.02    |
| 25) Fluoranthene-d10        | 18.89 | 212  | 8512     | 0.33 | ng    | -0.01    |
| 29) Terphenyl-d14           | 19.51 | 244  | 8330     | 0.47 | ng    | -0.01    |

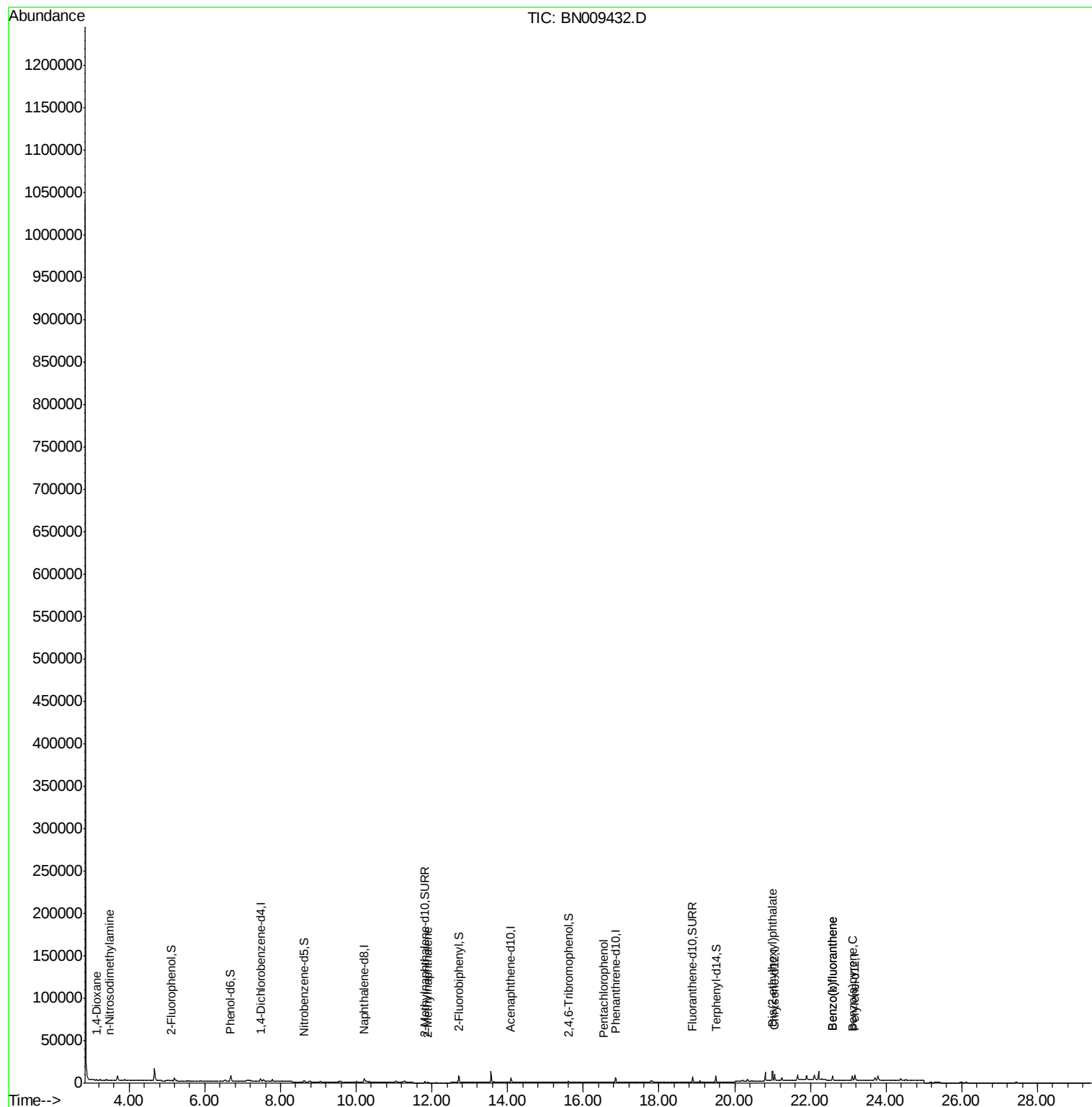
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.14  | 88   | 103      | 0.064 | ng    | # 51   |
| 3) n-Nitrosodimethylamine      | 3.49  | 42   | 75       | 0.030 | ng    | # 32   |
| 12) 2-Methylnaphthalene        | 11.89 | 142  | 343      | 0.033 | ng    | # 93   |
| 22) Pentachlorophenol          | 16.54 | 266  | 12       | 0.152 | ng    | # 76   |
| 32) Bis(2-ethylhexyl)phthalate | 20.99 | 149  | 11482    | 1.063 | ng    | 100    |
| 35) Benzo(b)fluoranthene       | 22.58 | 252  | 928      | 0.031 | ng    | # 1    |
| 36) Benzo(k)fluoranthene       | 22.58 | 252  | 928      | 0.028 | ng    | # 1    |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 652      | 0.024 | ng    | # 1    |

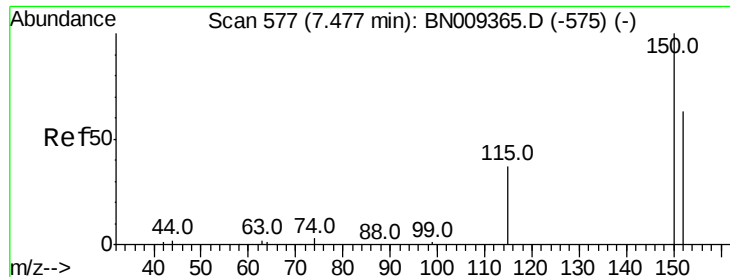
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_N  
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Quant Time: Jan 24 12:17:22 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN011420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 14 09:33:55 2020  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.47 min Scan# 576

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Instrument :

BNA\_N

ClientSampleId :

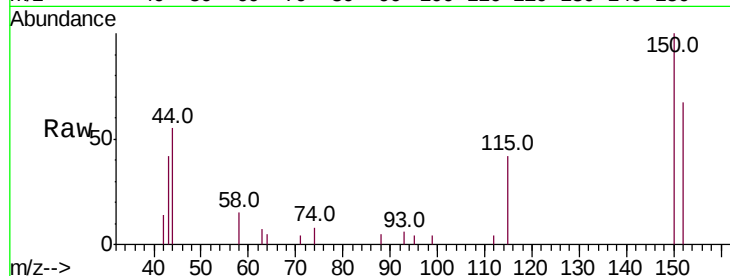
Tot Ion:152 Resp: 1534

Ion Ratio Lower Upper

152 100

150 148.2 125.7 188.5

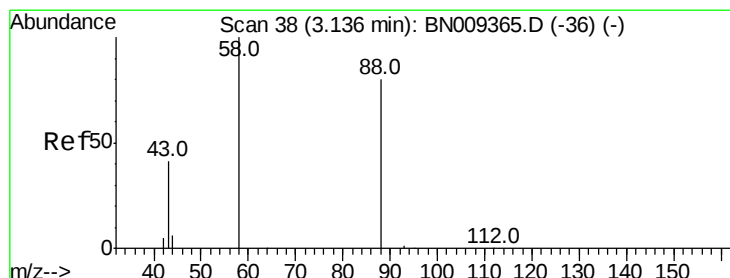
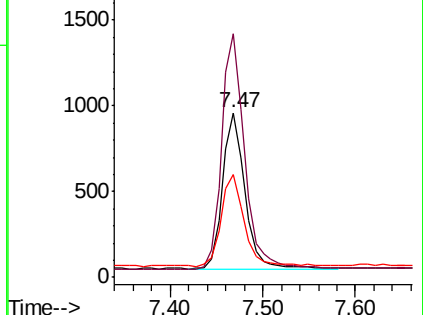
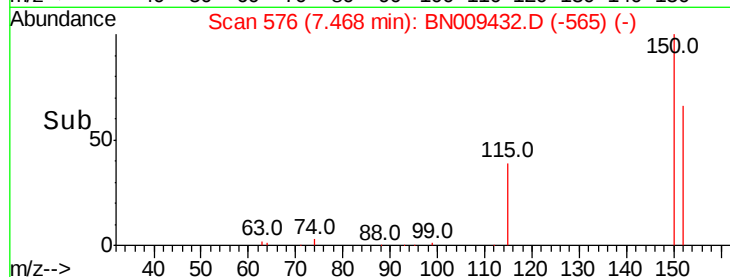
115 62.5 53.3 79.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.064 ng

RT: 3.14 min Scan# 38

Delta R.T. -0.00 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

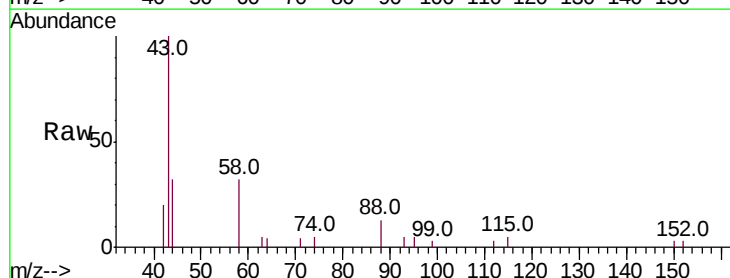
Tgt Ion: 88 Resp: 103

Ion Ratio Lower Upper

88 100

58 155.3 100.2 150.2#

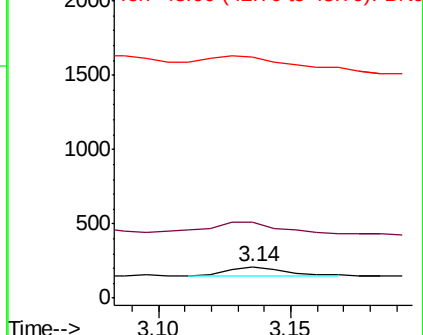
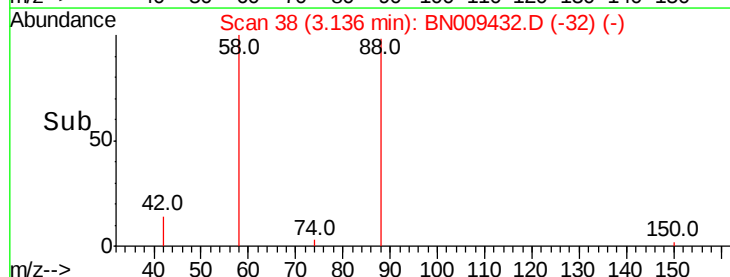
43 126.2 43.1 64.7#

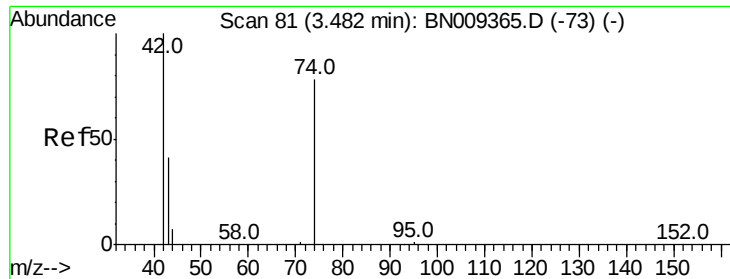


Abundance Ion 88.00 (87.70 to 88.70): BNC

Ion 58.00 (57.70 to 58.70): BNC

Ion 43.00 (42.70 to 43.70): BNC





#3

n-Nitrosodimethylamine

Concen: 0.030 ng

RT: 3.49 min Scan# 82

Delta R.T. 0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Instrument :

BNA\_N

ClientSampleId :

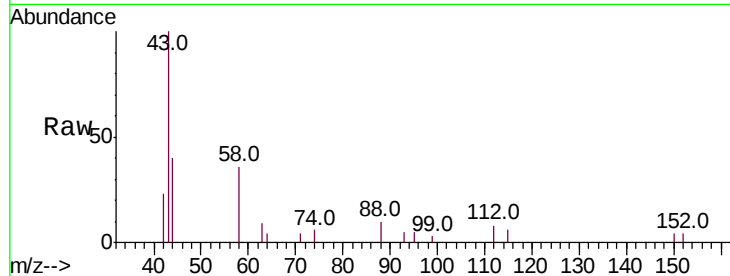
Tot Ion: 42 Resp: 75

Ion Ratio Lower Upper

42 100

74 8.0 55.8 83.8#

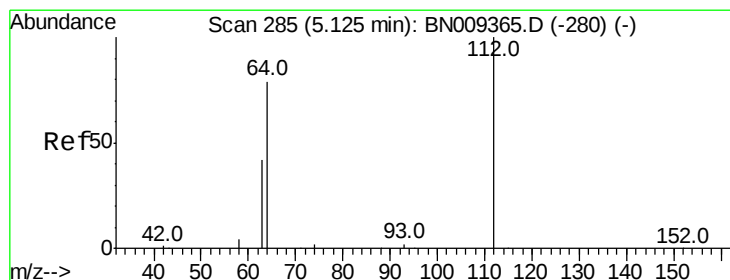
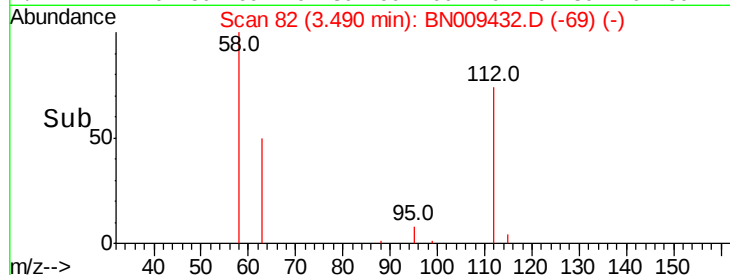
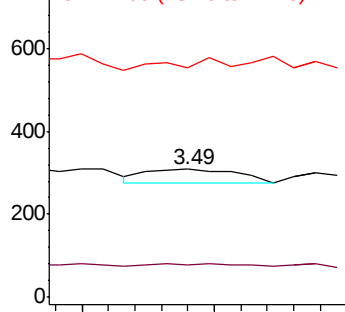
44 25.3 11.1 16.7#



Abundance Ion 42.00 (41.70 to 42.70): BN009365.D (-73) (-)

Ion 74.00 (73.70 to 74.70): BN009365.D (-73) (-)

Ion 44.00 (43.70 to 44.70): BN009365.D (-73) (-)



#4

2-Fluorophenol

Concen: 0.256 ng

RT: 5.12 min Scan# 284

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

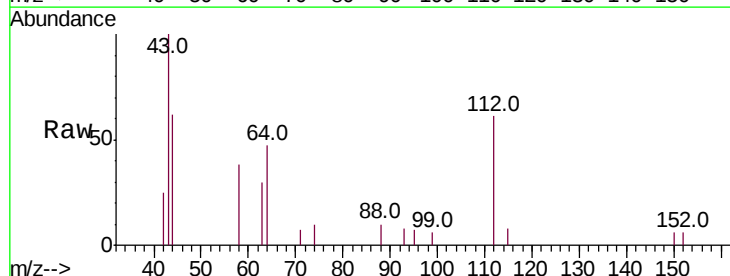
Tgt Ion: 112 Resp: 904

Ion Ratio Lower Upper

112 100

64 78.4 61.5 92.3

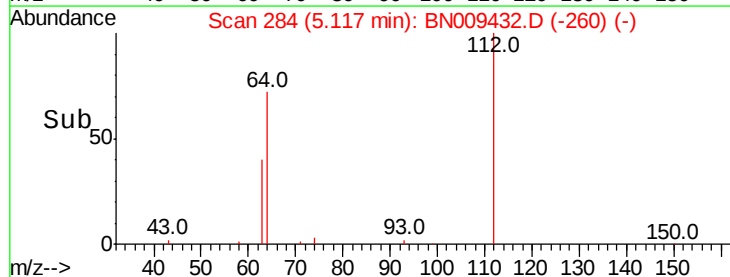
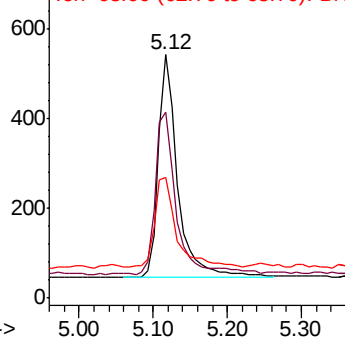
63 45.5 35.0 52.4

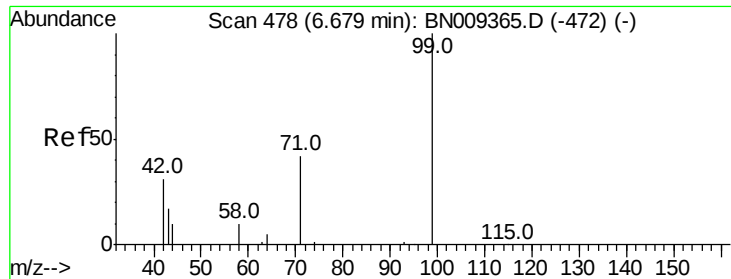


Abundance Ion 112.00 (111.70 to 112.70): BN009365.D (-280) (-)

Ion 64.00 (63.70 to 64.70): BN009365.D (-280) (-)

Ion 63.00 (62.70 to 63.70): BN009365.D (-280) (-)





#5

Phenol-d6

Concen: 0.196 ng

RT: 6.66 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Instrument :

BNA\_N

ClientSampleId :

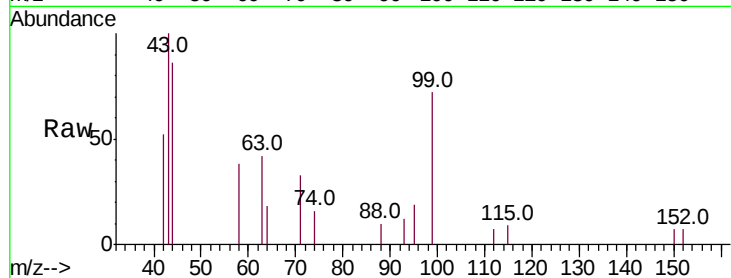
Tot Ion: 99 Resp: 801

Ion Ratio Lower Upper

99 100

42 0.0 27.6 41.4#

71 42.3 33.0 49.6



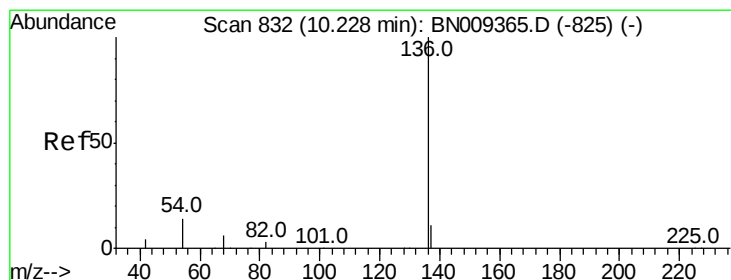
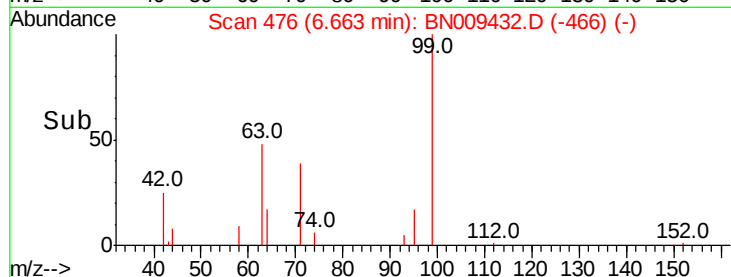
Abundance Ion 99.00 (98.70 to 99.70): BN009432.D (-476) (-)

Ion 42.00 (41.70 to 42.70): BN009432.D (-476) (-)

Ion 71.00 (70.70 to 71.70): BN009432.D (-476) (-)

6.66

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.21 min Scan# 831

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Tgt Ion: 136 Resp: 5434

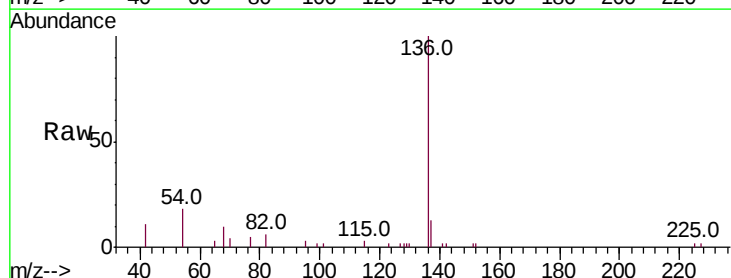
Ion Ratio Lower Upper

136 100

137 12.8 10.3 15.5

54 17.7 12.6 19.0

68 9.6 6.5 9.7



Abundance Ion 136.00 (135.70 to 136.70): BN009432.D (-816) (-)

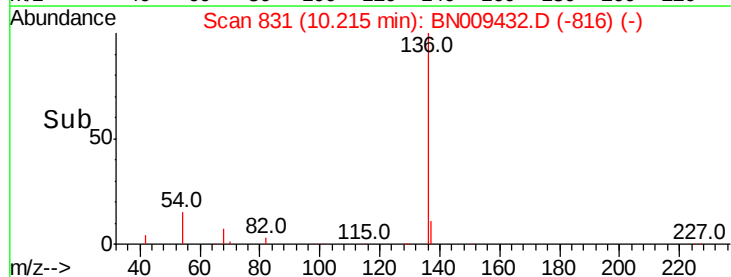
Ion 137.00 (136.70 to 137.70): BN009432.D (-816) (-)

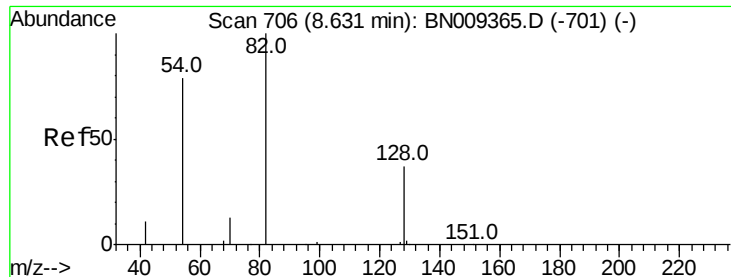
Ion 54.00 (53.70 to 54.70): BN009432.D (-816) (-)

Ion 68.00 (67.70 to 68.70): BN009432.D (-816) (-)

10.21

Time-->





#8

Nitrobenzene-d5

Concen: 0.370 ng

RT: 8.62 min Scan# 705

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Instrument :

BNA\_N

ClientSampleId :

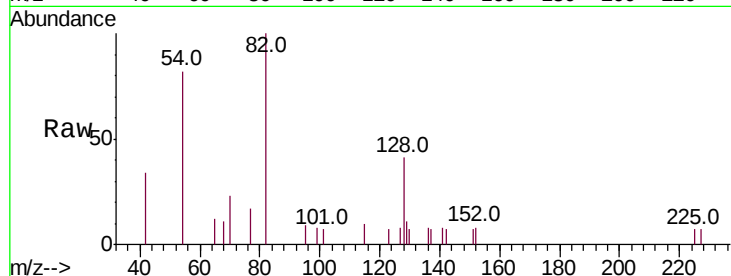
Tot Ion: 82 Resp: 1602

Ion Ratio Lower Upper

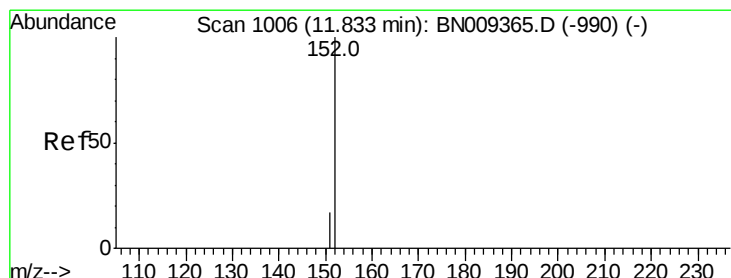
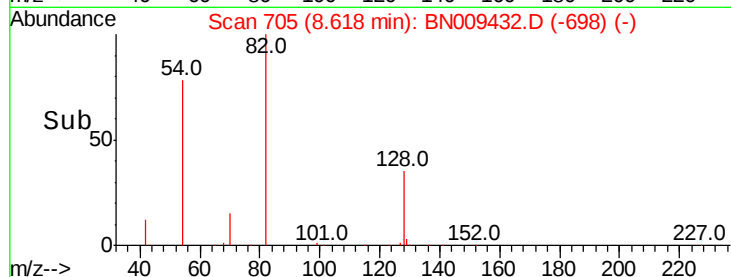
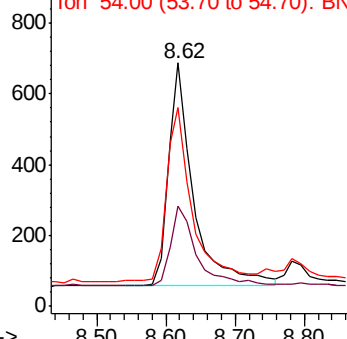
82 100

128 41.1 34.8 52.2

54 81.5 65.8 98.6



Abundance Ion 82.00 (81.70 to 82.70): BN009432.D (-698) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.293 ng

RT: 11.81 min Scan# 1002

Delta R.T. -0.02 min

Lab File: BN009432.D

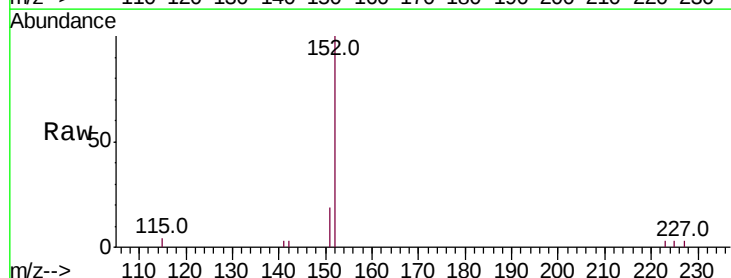
Acq: 23 Jan 2020 20:16

Tgt Ion: 152 Resp: 3072

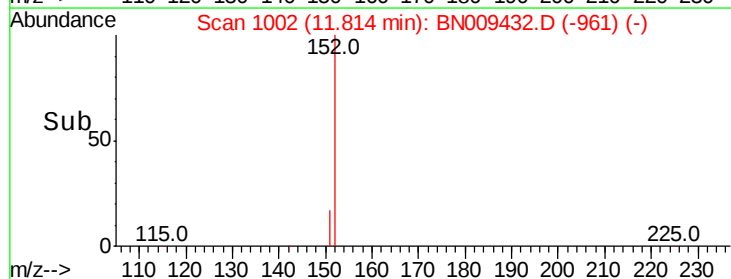
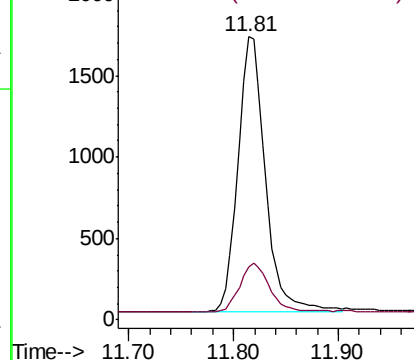
Ion Ratio Lower Upper

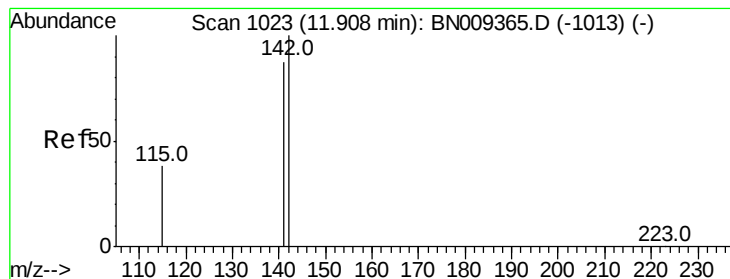
152 100

151 19.2 14.8 22.2



Abundance Ion 152.00 (151.70 to 152.70): BN009432.D (-961) (-)





#12

2-Methylnaphthalene

Concen: 0.033 ng

RT: 11.89 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Instrument :

BNA\_N

ClientSampleId :

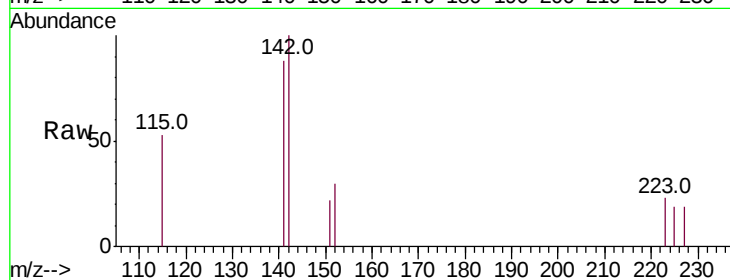
Tot Ion:142 Resp: 343

Ion Ratio Lower Upper

142 100

141 87.7 69.8 104.6

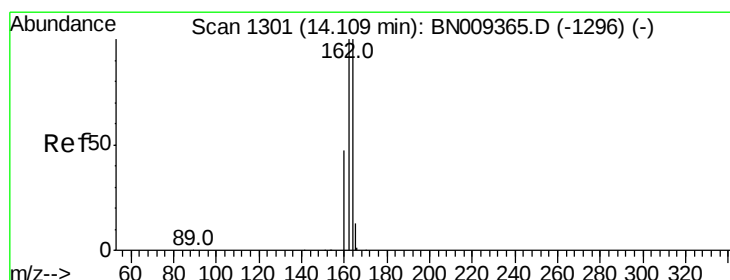
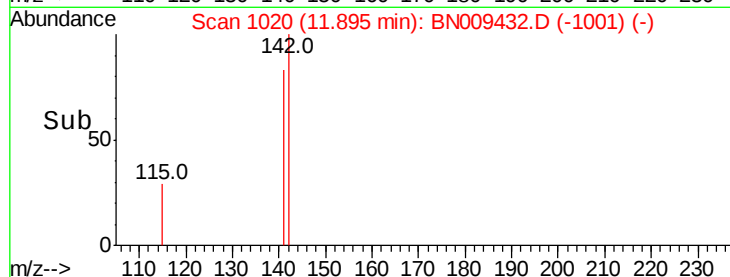
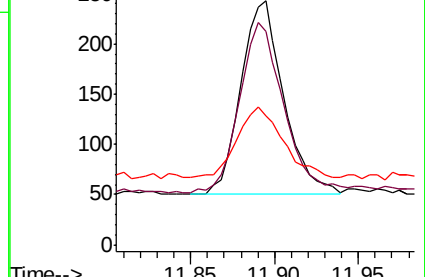
115 52.7 32.5 48.7#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.09 min Scan# 1300

Delta R.T. -0.02 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

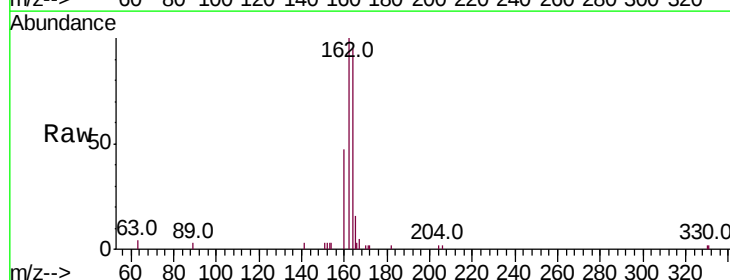
Tgt Ion:164 Resp: 3456

Ion Ratio Lower Upper

164 100

162 105.6 79.8 119.6

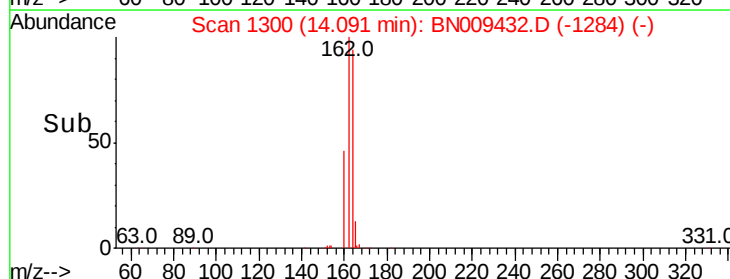
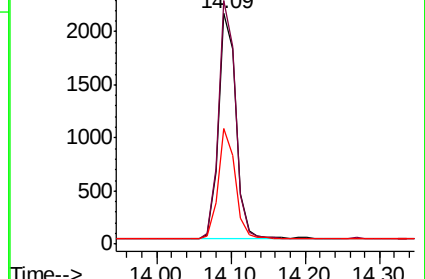
160 50.0 38.4 57.6

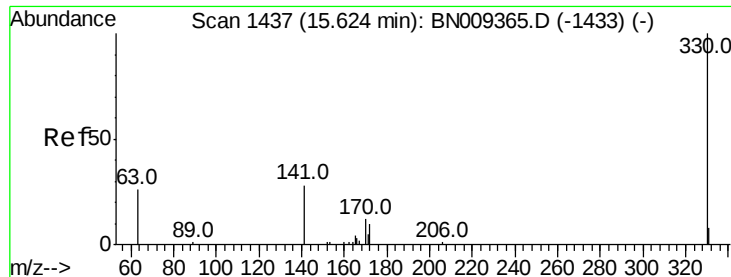


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

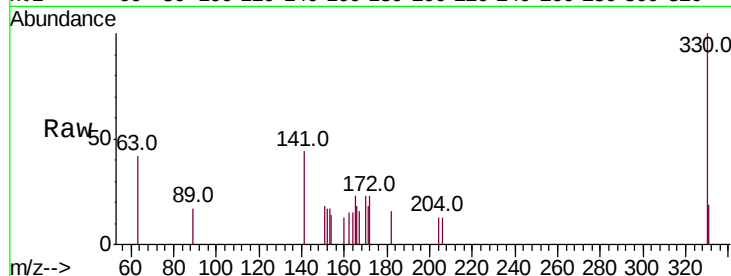




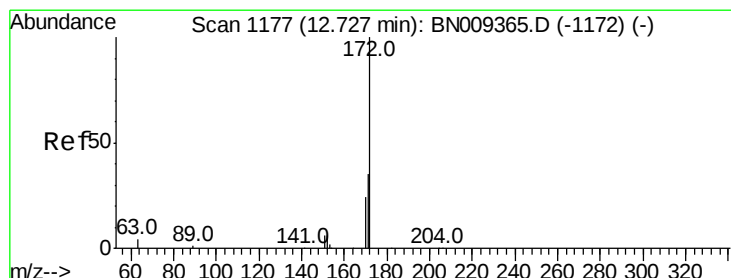
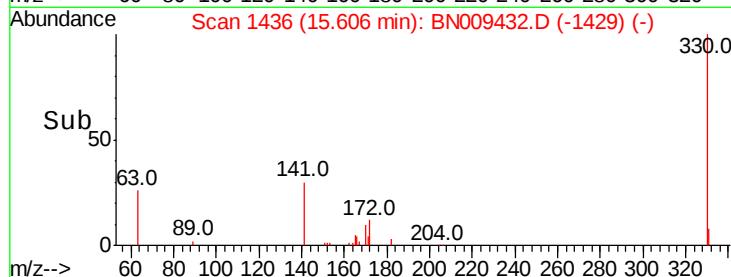
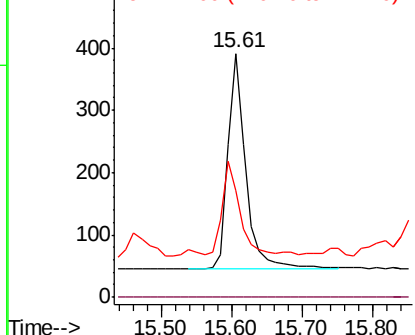
#14  
2,4,6-Tribromophenol  
Concen: 0.477 ng  
RT: 15.61 min Scan# 1436  
Delta R.T. -0.02 min  
Lab File: BN009432.D  
Acq: 23 Jan 2020 20:16

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:330 Resp: 624  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 43.1 33.1 49.7

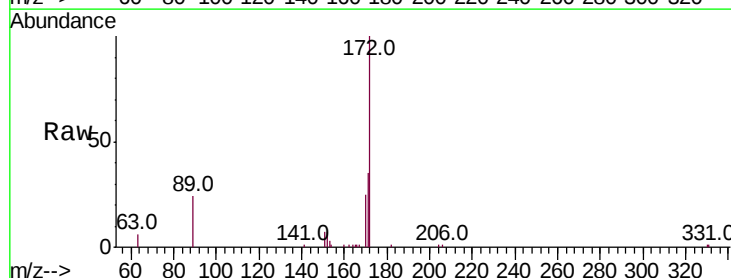


Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

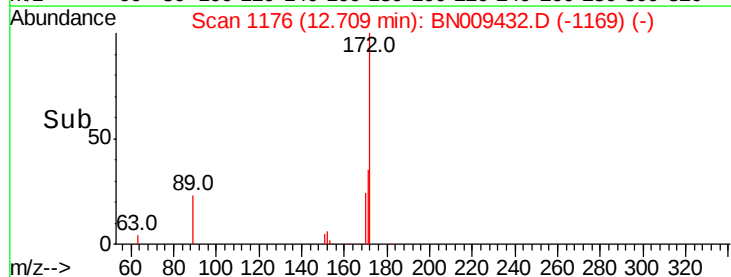
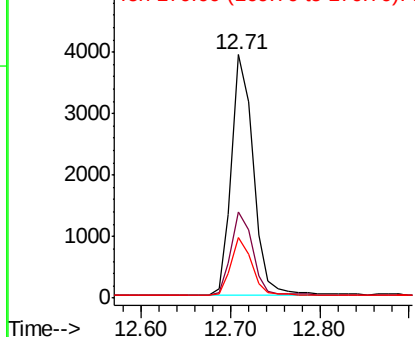


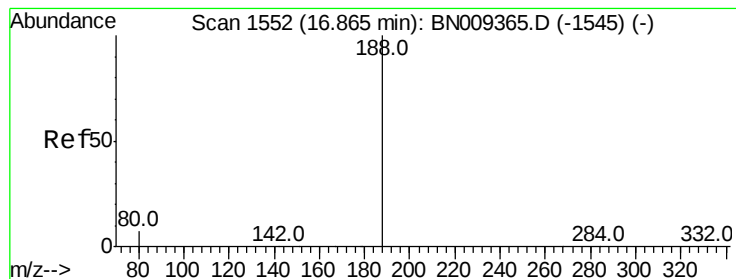
#15  
2-Fluorobiphenyl  
Concen: 0.518 ng  
RT: 12.71 min Scan# 1176  
Delta R.T. -0.02 min  
Lab File: BN009432.D  
Acq: 23 Jan 2020 20:16

Tgt Ion:172 Resp: 6699  
Ion Ratio Lower Upper  
172 100  
171 35.4 29.5 44.3  
170 25.0 20.7 31.1



Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.85 min Scan# 1551

Delta R.T. -0.02 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Instrument :

BNA\_N

ClientSampleId :

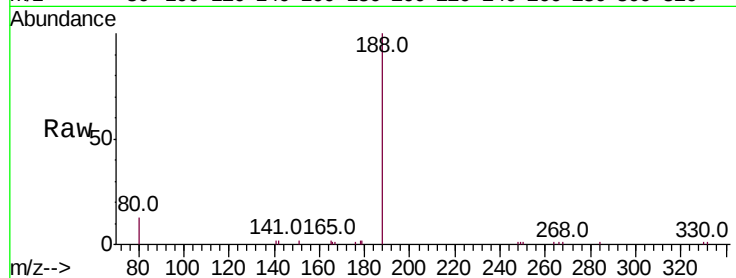
Tot Ion:188 Resp: 7531

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

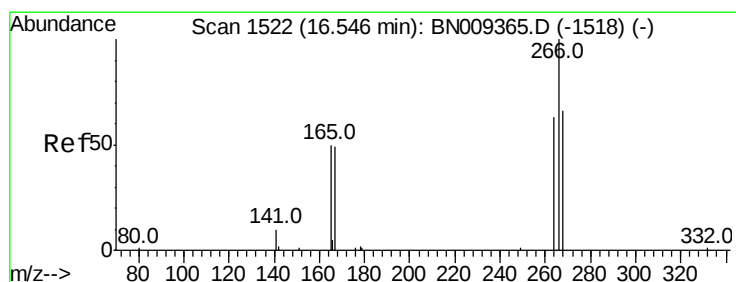
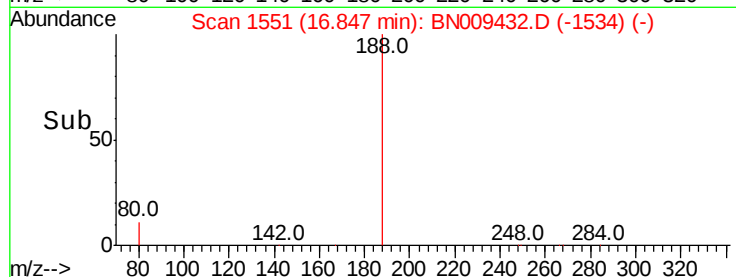
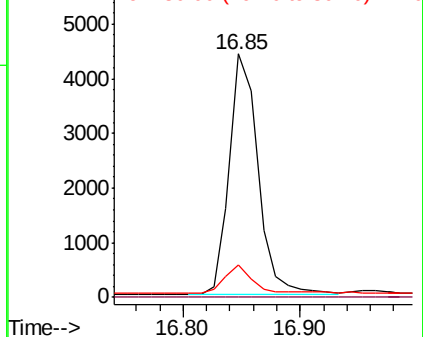
80 13.1 6.6 10.0#



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



#22

Pentachlorophenol

Concen: 0.152 ng

RT: 16.54 min Scan# 1522

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

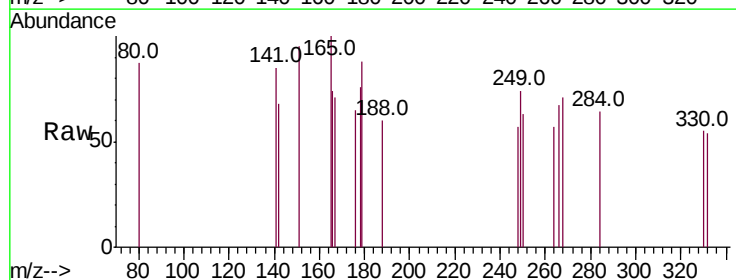
Tgt Ion:266 Resp: 12

Ion Ratio Lower Upper

266 100

264 85.7 57.8 86.6

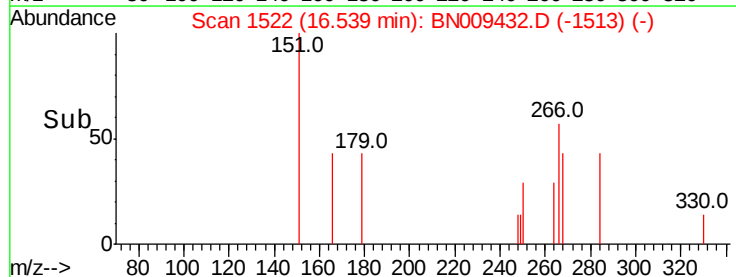
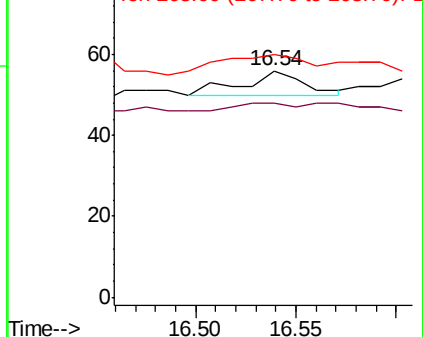
268 107.1 63.8 95.6#

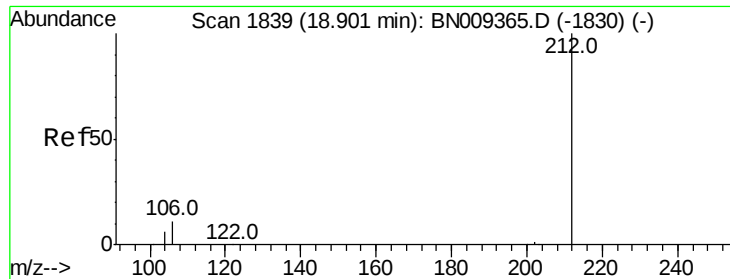


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#25

Fluoranthene-d10

Concen: 0.330 ng

RT: 18.89 min Scan# 1838

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Instrument :

BNA\_N

ClientSampleId :

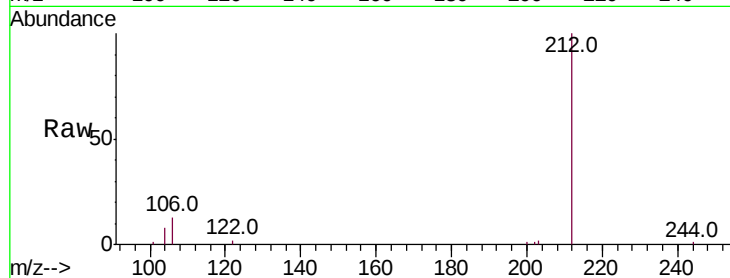
Tot Ion:212 Resp: 8512

Ion Ratio Lower Upper

212 100

106 12.3 9.2 13.8

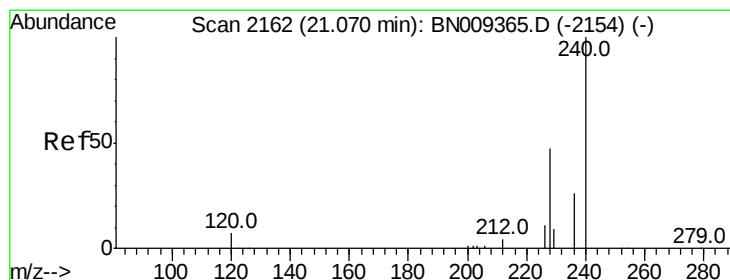
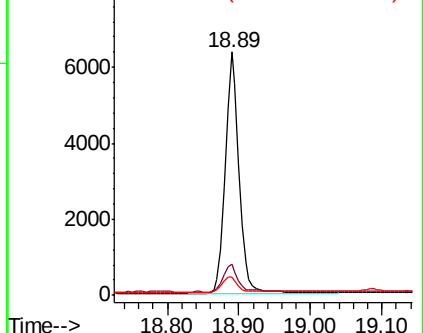
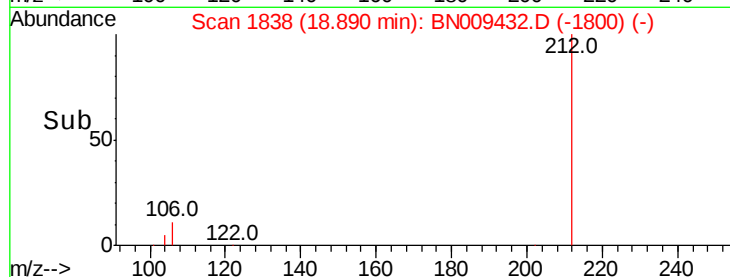
104 6.8 5.4 8.0



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: 21.06 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

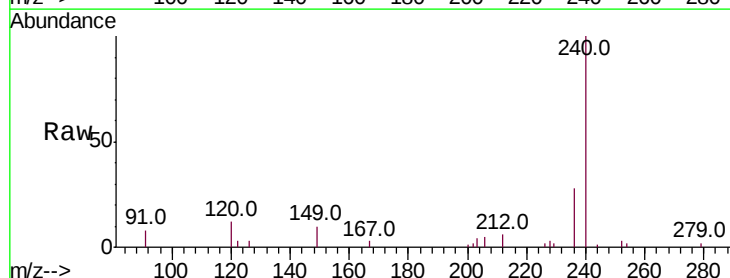
Tgt Ion:240 Resp: 7432

Ion Ratio Lower Upper

240 100

120 12.5 8.1 12.1#

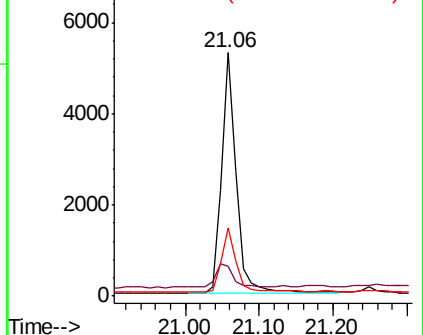
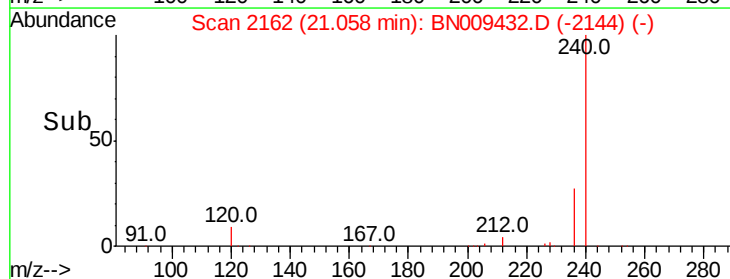
236 28.0 22.2 33.4

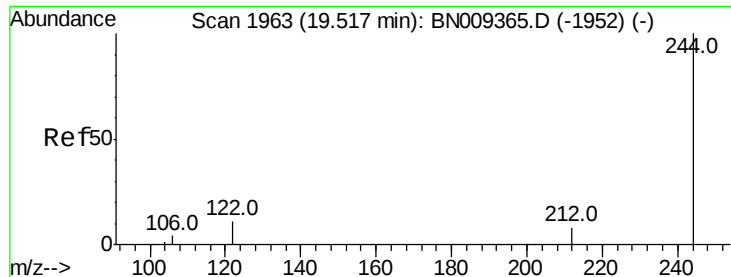


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.473 ng

RT: 19.51 min Scan# 1962

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

Instrument :

BNA\_N

ClientSampleId :

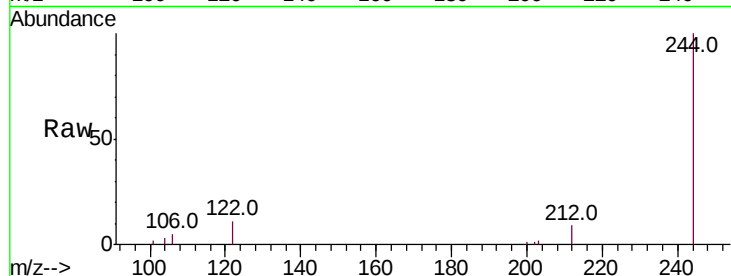
Tot Ion:244 Resp: 8330

Ion Ratio Lower Upper

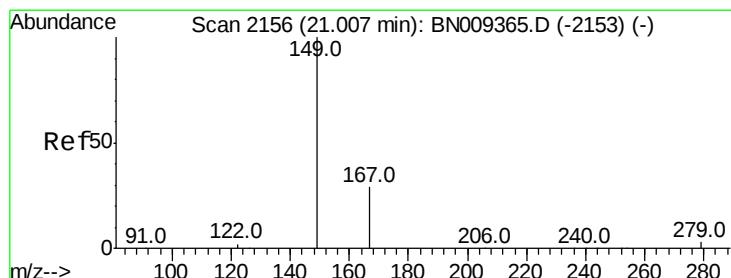
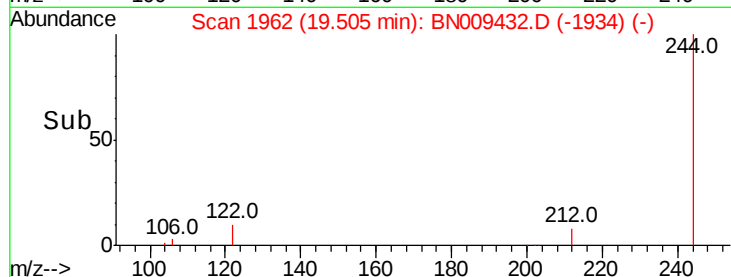
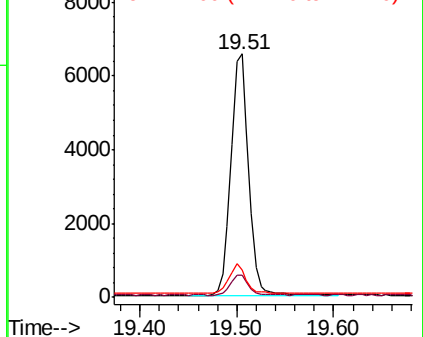
244 100

212 8.9 7.5 11.3

122 11.2 9.8 14.6



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 1.063 ng

RT: 20.99 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BN009432.D

Acq: 23 Jan 2020 20:16

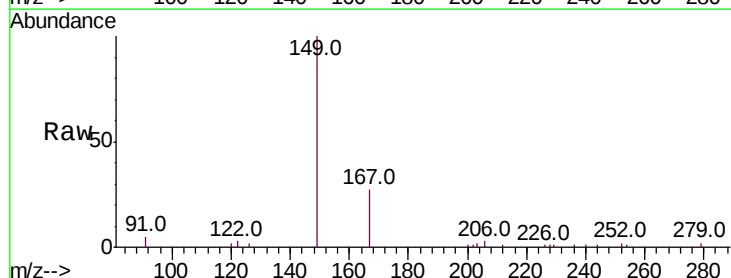
Tgt Ion:149 Resp: 11482

Ion Ratio Lower Upper

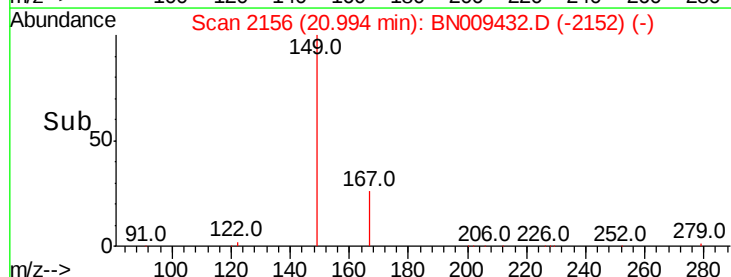
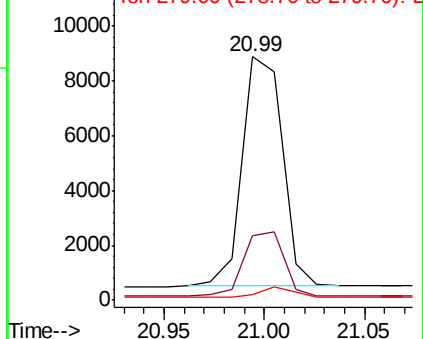
149 100

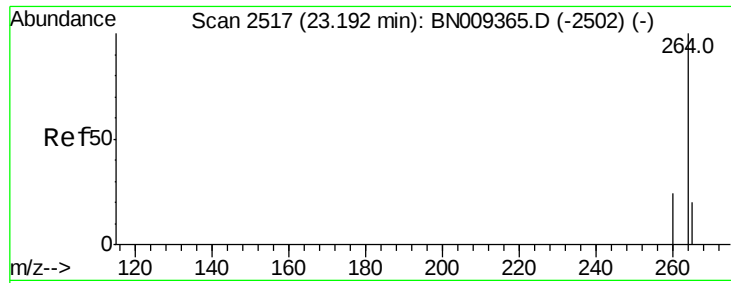
167 28.4 22.9 34.3

279 4.2 3.4 5.0



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

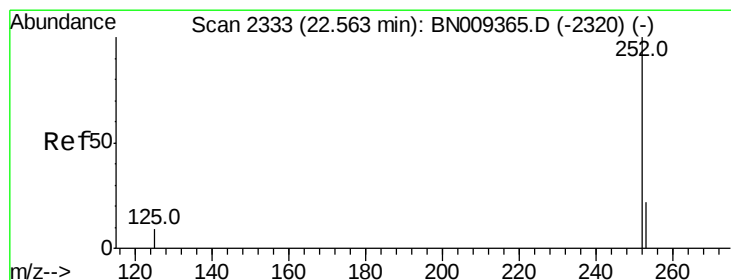
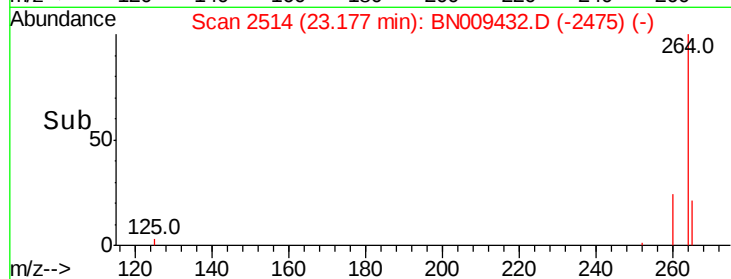
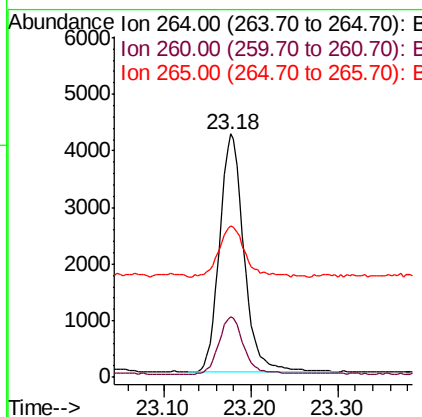
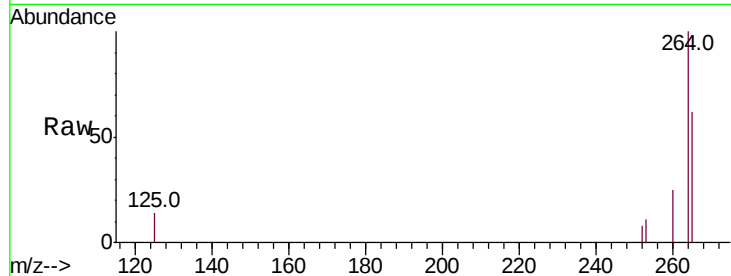




#34  
Pervlene-d12  
Concen: 0.400 ng  
RT: 23.18 min Scan# 2514  
Delta R.T. -0.02 min  
Lab File: BN009432.D  
Acq: 23 Jan 2020 20:16

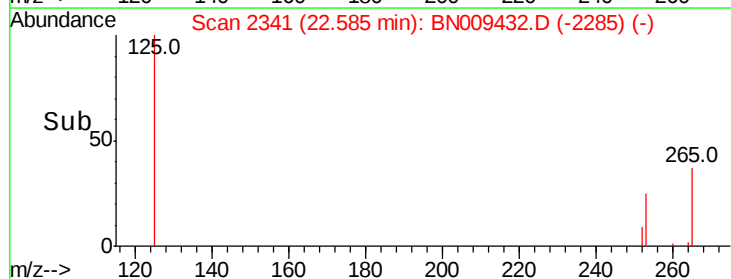
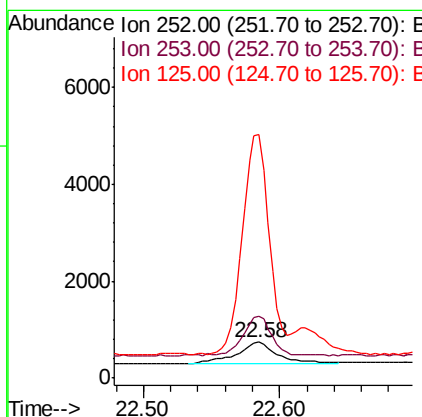
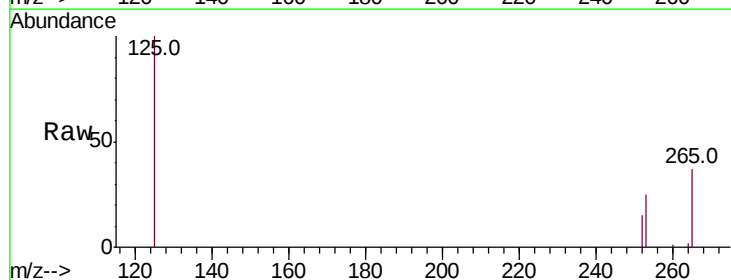
Instrument :  
BNA\_N  
ClientSampled :

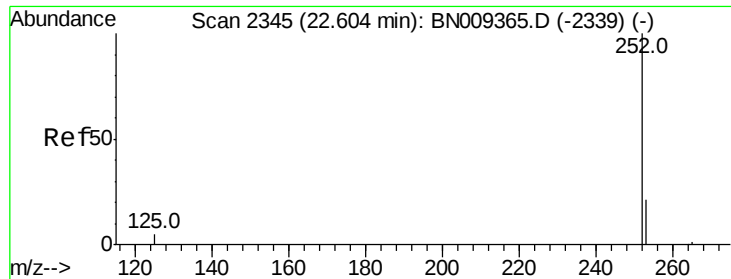
Tot Ion:264 Resp: 8224  
Ion Ratio Lower Upper  
264 100  
260 25.0 20.1 30.1  
265 62.1 68.2 102.4#



#35  
Benzo(b)fluoranthene  
Concen: 0.031 ng  
RT: 22.58 min Scan# 2341  
Delta R.T. 0.02 min  
Lab File: BN009432.D  
Acq: 23 Jan 2020 20:16

Tgt Ion:252 Resp: 928  
Ion Ratio Lower Upper  
252 100  
253 170.3 22.4 33.6#  
125 675.5 11.6 17.4#

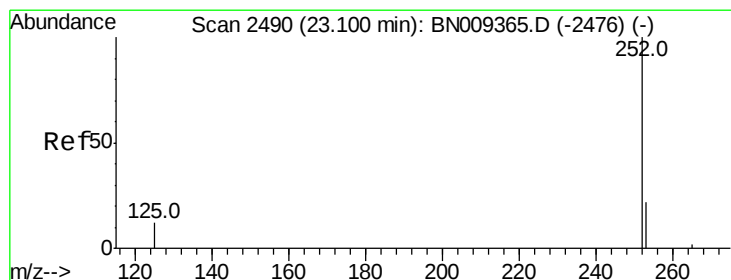
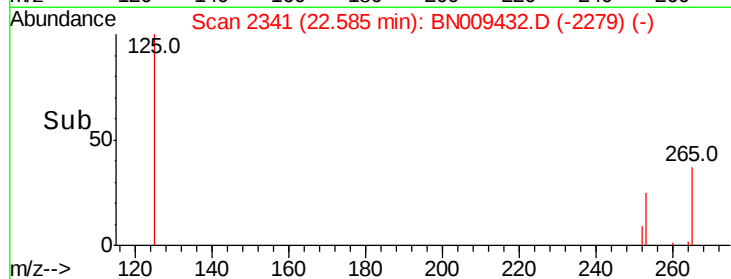
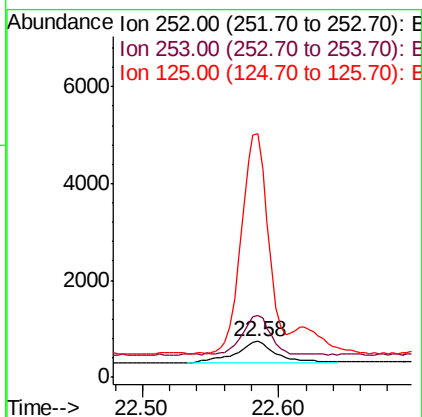
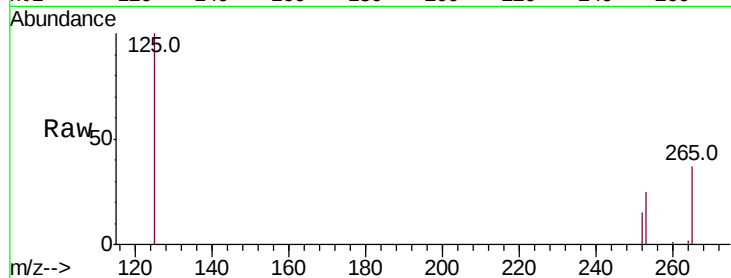




#36  
Benzo(k)fluoranthene  
Concen: 0.028 ng  
RT: 22.58 min Scan# 2341  
Delta R.T. -0.02 min  
Lab File: BN009432.D  
Acq: 23 Jan 2020 20:16

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:252 Resp: 928  
Ion Ratio Lower Upper  
252 100  
253 170.3 21.9 32.9#  
125 675.5 12.0 18.0#



#37  
Benzo(a)pyrene  
Concen: 0.024 ng  
RT: 23.11 min Scan# 2495  
Delta R.T. 0.01 min  
Lab File: BN009432.D  
Acq: 23 Jan 2020 20:16

Tgt Ion:252 Resp: 652  
Ion Ratio Lower Upper  
252 100  
253 177.4 25.4 38.0#  
125 655.6 16.2 24.2#

