

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011420\  
 Data File : BE101051.D  
 Acq On : 14 Jan 2020 14:43  
 Operator : JU  
 Sample : L1103-07MS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jan 14 20:42:04 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 08 18:36:25 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 4000     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.50 | 136  | 16707    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 0.00  | 164  | 0        | 0.00 | ng    | -14.36   |
| 19) Phenanthrene-d10      | 0.00  | 188  | 0        | 0.00 | ng    | -17.09   |
| 27) Chrysene-d12          | 0.00  | 240  | 0        | 0.00 | ng    | -21.28   |
| 34) Perylene-d12          | 0.00  | 264  | 0        | 0.00 | ng    | -23.70   |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.34  | 112  | 3145     | 0.35 | ng    | 0.00     |
| 5) Phenol-d6                | 6.90  | 99   | 5129     | 0.45 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 8.87  | 82   | 3826     | 0.32 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.09 | 152  | 9574     | 0.30 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol    | 0.00  | 330  | 0        | 0.00 | ng    |          |
| 15) 2-Fluorobiphenyl        | 12.99 | 172  | 9186     | 0.00 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 0.00  | 212  | 0        | 0.00 | ng    |          |
| 29) Terphenyl-d14           | 0.00  | 244  | 0        | 0.00 | ng    |          |

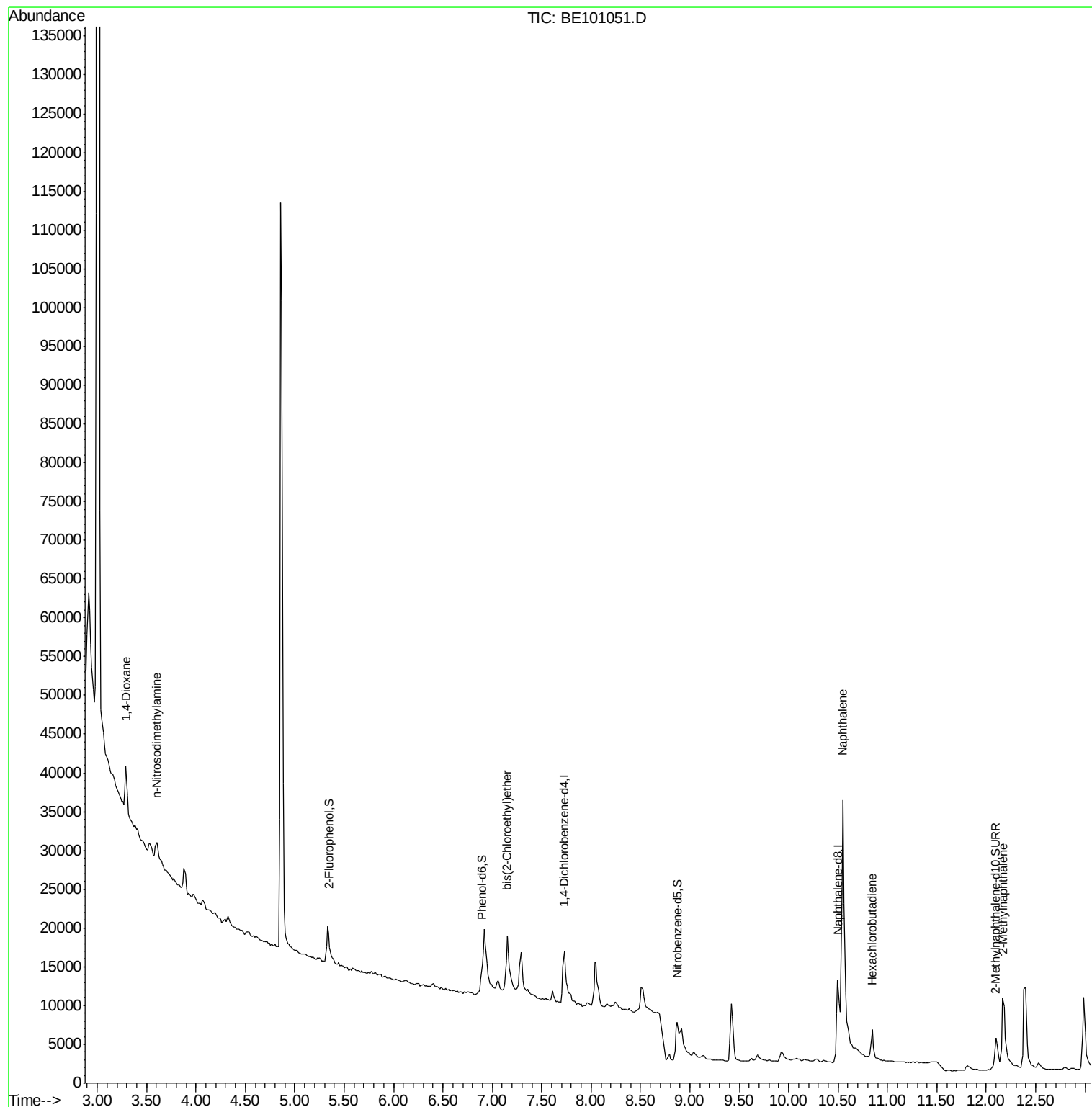
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane             | 3.29  | 88   | 3292     | 0.315 | ng    | # 70   |
| 3) n-Nitrosodimethylamine  | 3.60  | 42   | 1808     | 0.325 | ng    | # 91   |
| 6) bis(2-Chloroethyl)ether | 7.15  | 93   | 4413     | 0.325 | ng    | 98     |
| 9) Naphthalene             | 10.55 | 128  | 74578    | 0.402 | ng    | 100    |
| 10) Hexachlorobutadiene    | 10.85 | 225  | 2594     | 0.330 | ng    | 98     |
| 12) 2-Methylnaphthalene    | 12.17 | 142  | 10342    | 0.369 | ng    | 99     |

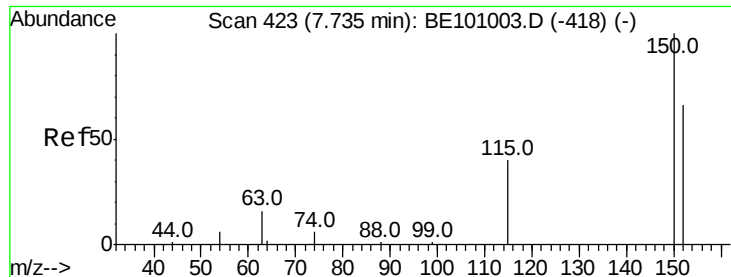
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_E  
ClientSampled :

Quant Time: Jan 14 20:42:04 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 08 18:36:25 2020  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.73 min Scan# 422

Delta R.T. -0.01 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

Instrument :

BNA\_E

ClientSampleId :

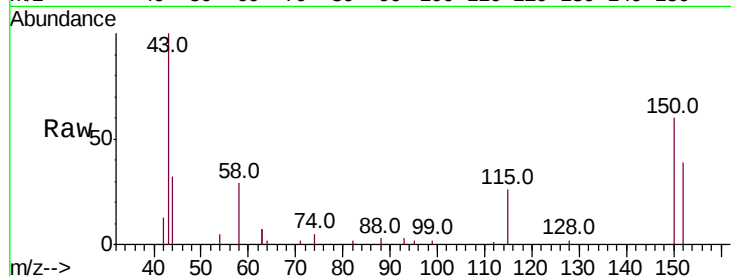
Tot Ion:152 Resp: 4000

Ion Ratio Lower Upper

152 100

150 152.8 120.3 180.5

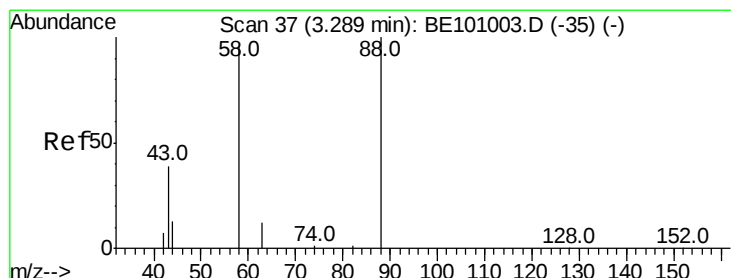
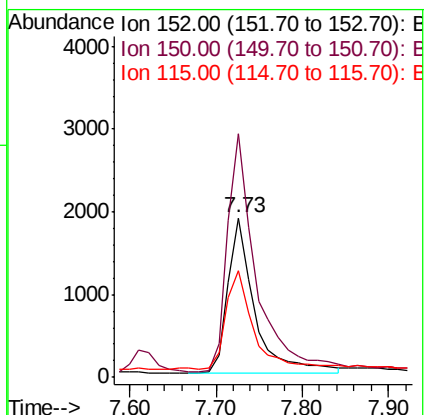
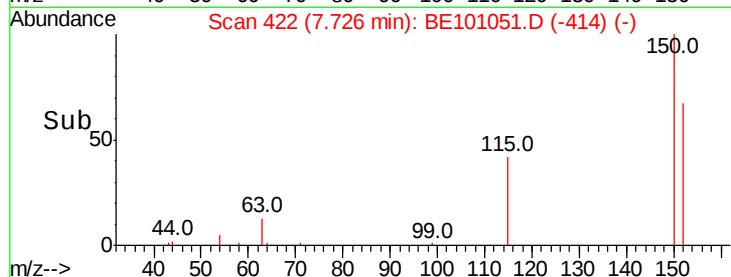
115 66.9 51.7 77.5



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: 0.315 ng

RT: 3.29 min Scan# 37

Delta R.T. 0.00 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

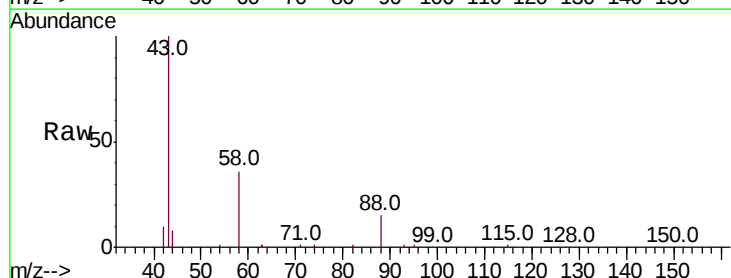
Tgt Ion: 88 Resp: 3292

Ion Ratio Lower Upper

88 100

58 81.1 53.0 79.4#

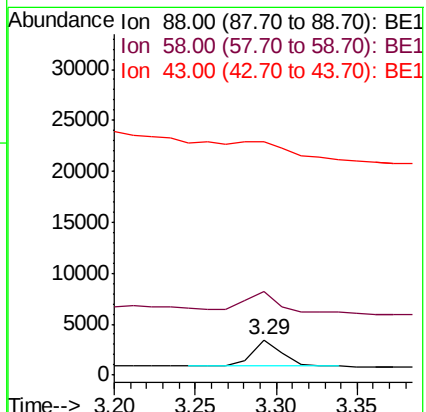
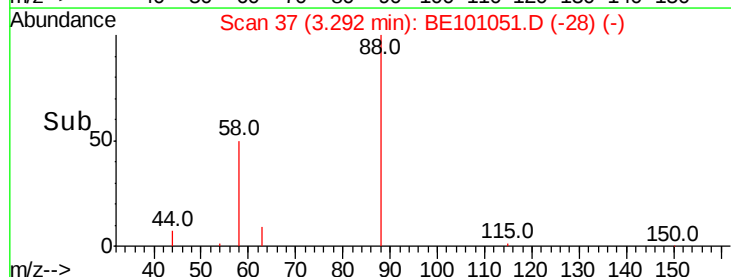
43 0.0 23.4 35.2#

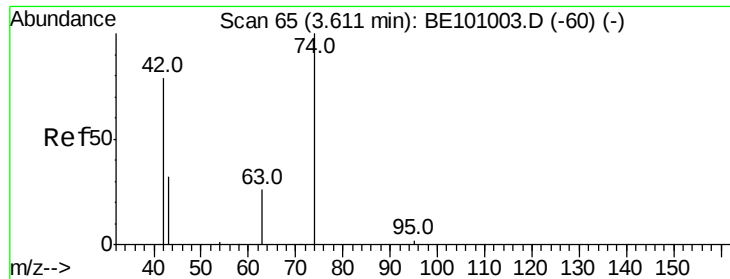


Abundance Ion 88.00 (87.70 to 88.70): BE1

Ion 58.00 (57.70 to 58.70): BE1

Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 0.325 ng

RT: 3.60 min Scan# 64

Delta R.T. -0.01 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

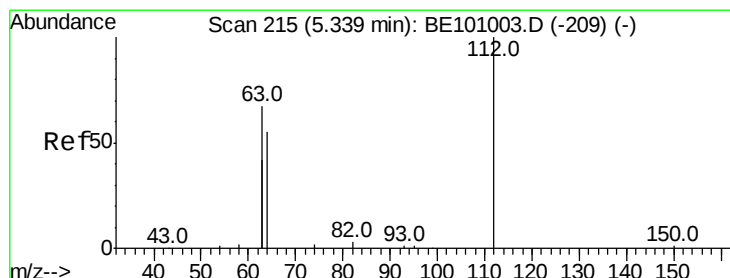
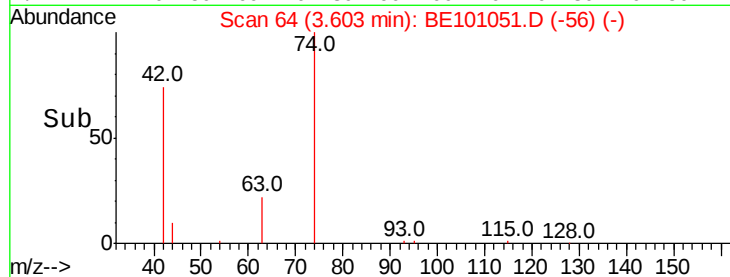
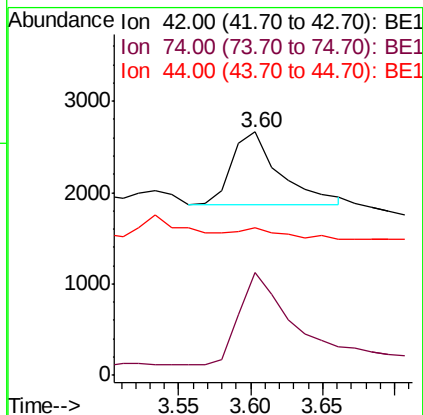
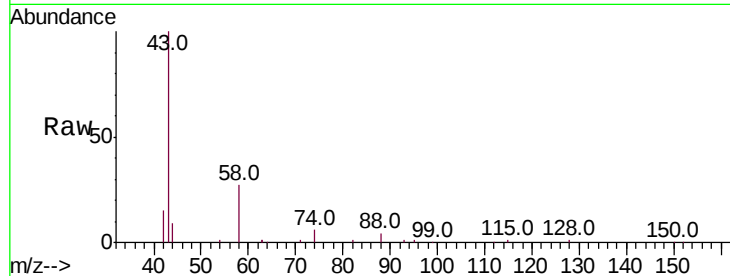
Instrument :

BNA\_E

ClientSampled :

Tot Ion: 42 Resp: 1808

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 74  | 142.4 | 105.7 | 158.5 |
| 44  | 15.5  | 10.0  | 15.0# |



#4

2-Fluorophenol

Concen: 0.349 ng

RT: 5.34 min Scan# 215

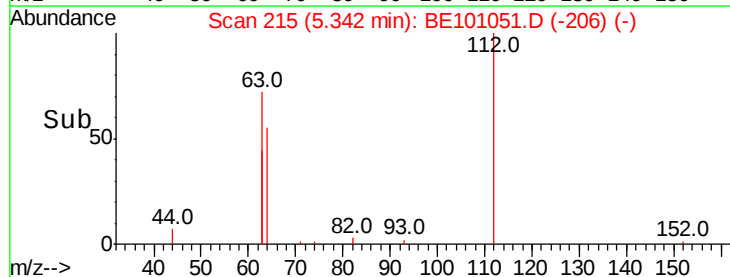
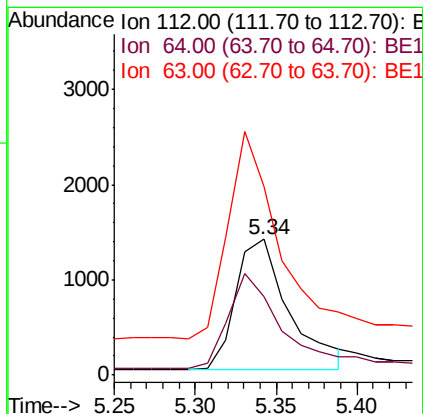
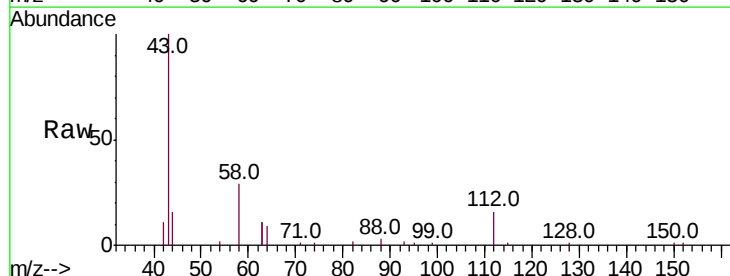
Delta R.T. 0.00 min

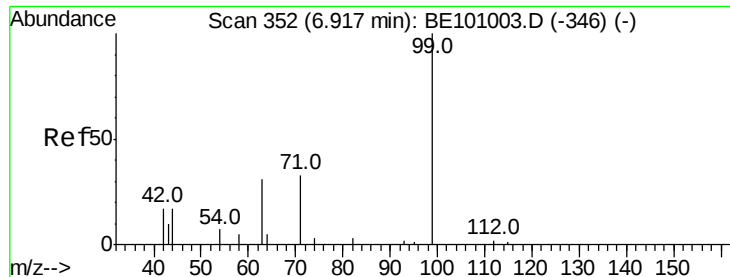
Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

Tgt Ion: 112 Resp: 3145

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 64  | 71.4  | 53.6  | 80.4  |
| 63  | 150.1 | 114.6 | 172.0 |





#5

Phenol-d6

Concen: 0.450 ng

RT: 6.90 min Scan# 350

Delta R.T. -0.02 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

Instrument :

BNA\_E

ClientSampleId :

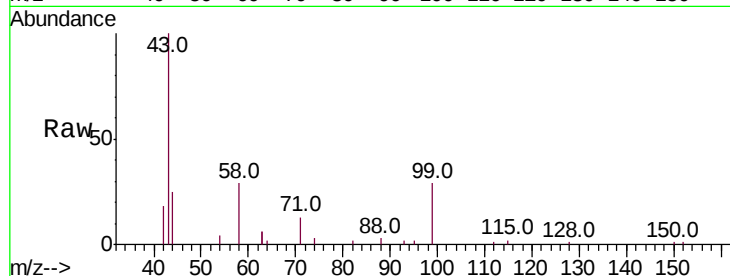
Tot Ion: 99 Resp: 5129

Ion Ratio Lower Upper

99 100

42 26.9 18.3 27.5

71 35.2 28.0 42.0

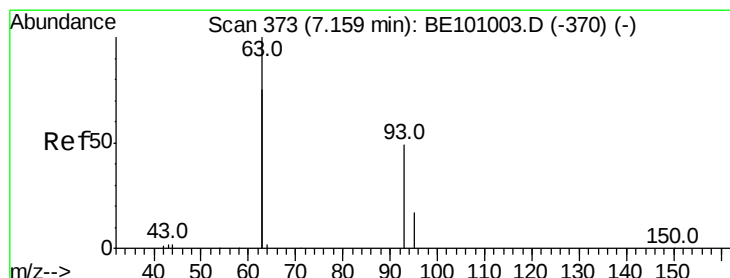
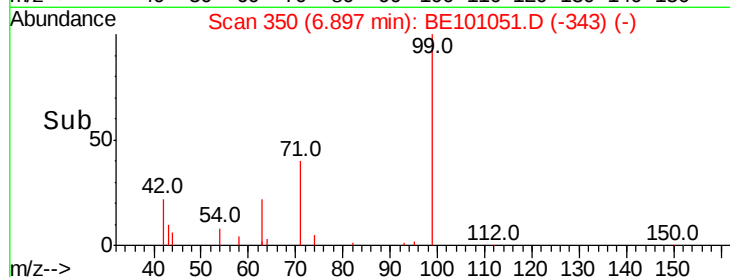
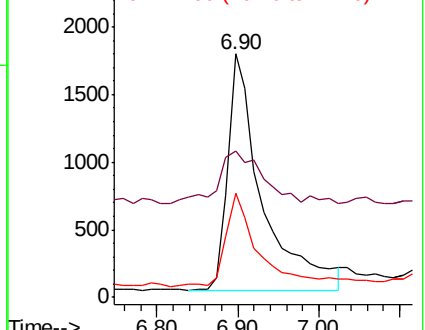


Abundance

Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



#6

bis(2-Chloroethyl)ether

Concen: 0.325 ng

RT: 7.15 min Scan# 372

Delta R.T. -0.01 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

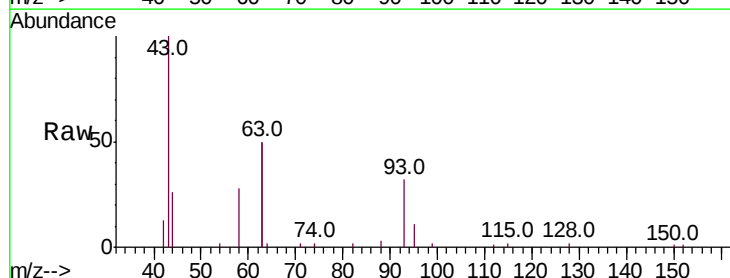
Tgt Ion: 93 Resp: 4413

Ion Ratio Lower Upper

93 100

63 296.2 233.9 350.9

95 30.6 23.5 35.3

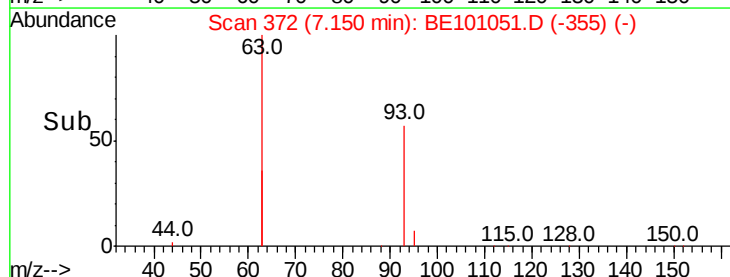
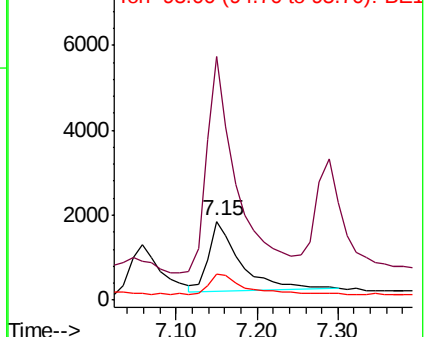


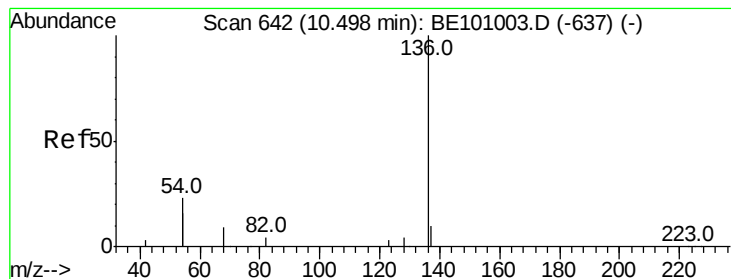
Abundance

Ion 93.00 (92.70 to 93.70): BE1

Ion 63.00 (62.70 to 63.70): BE1

Ion 95.00 (94.70 to 95.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.50 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 16707

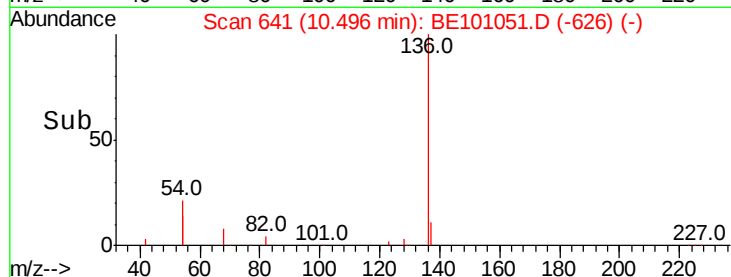
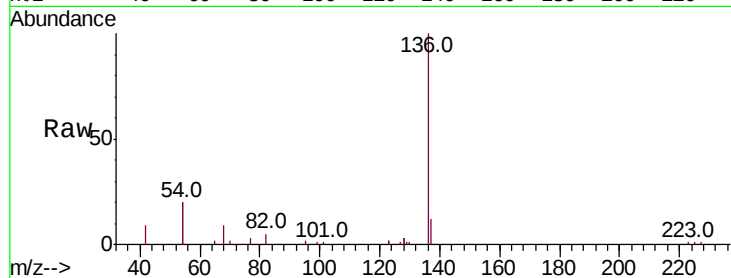
Ion Ratio Lower Upper

136 100

137 12.0 9.3 13.9

54 40.9 36.8 55.2

68 9.1 8.4 12.6

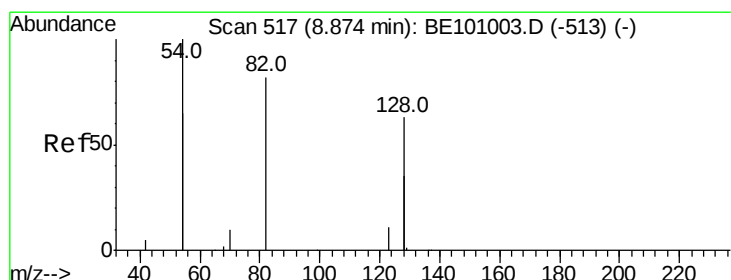
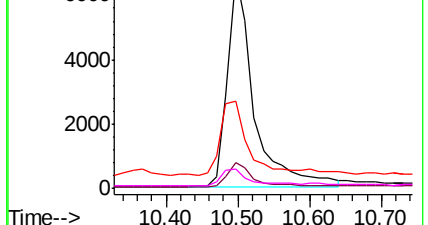


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.320 ng

RT: 8.87 min Scan# 516

Delta R.T. -0.00 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

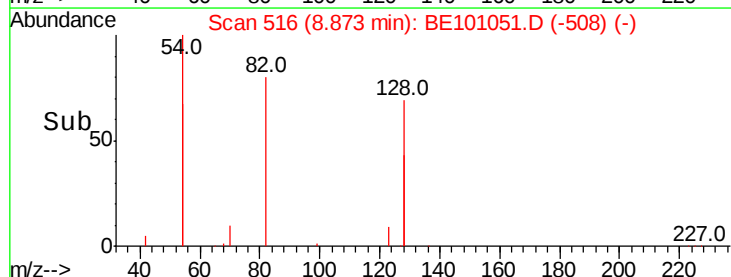
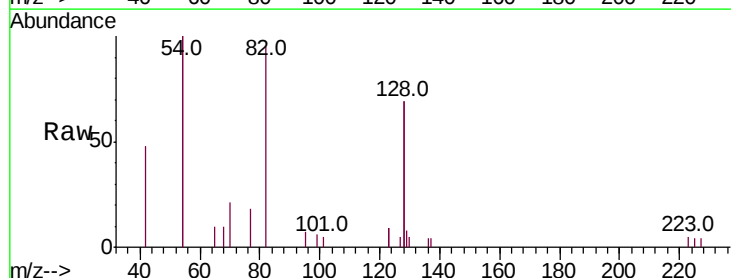
Tgt Ion: 82 Resp: 3826

Ion Ratio Lower Upper

82 100

128 144.2 109.8 164.6

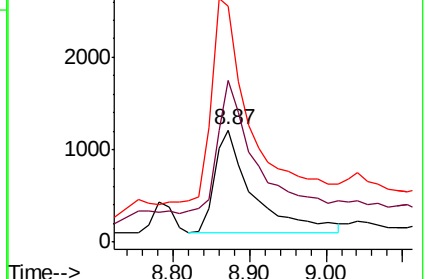
54 210.4 174.5 261.7

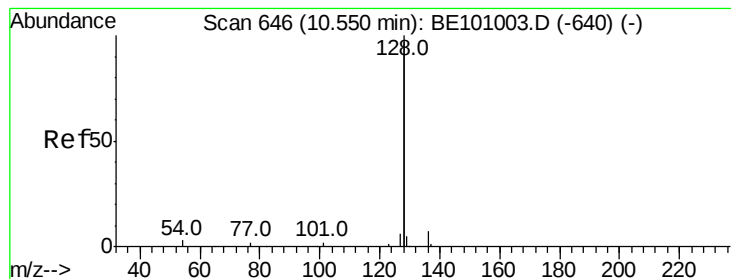


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.402 ng

RT: 10.55 min Scan# 645

Delta R.T. -0.00 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

Instrument :

BNA\_E

ClientSampleId :

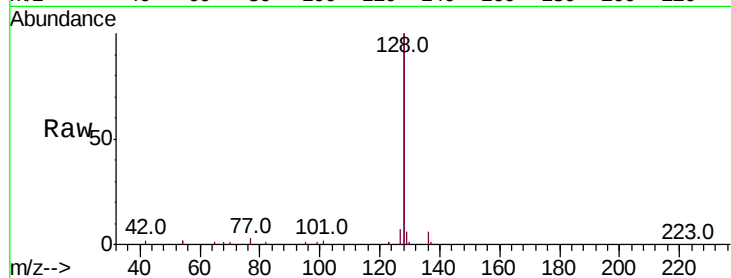
Tot Ion:128 Resp: 74578

Ion Ratio Lower Upper

128 100

129 3.1 2.3 3.5

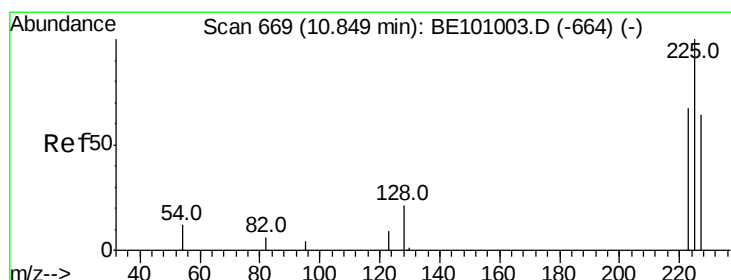
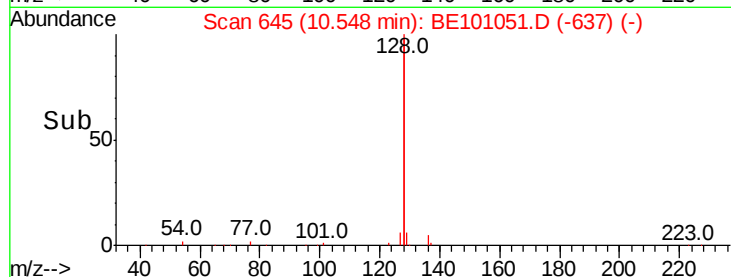
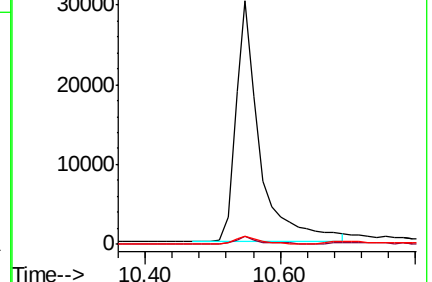
127 3.4 2.7 4.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.330 ng

RT: 10.85 min Scan# 668

Delta R.T. -0.00 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

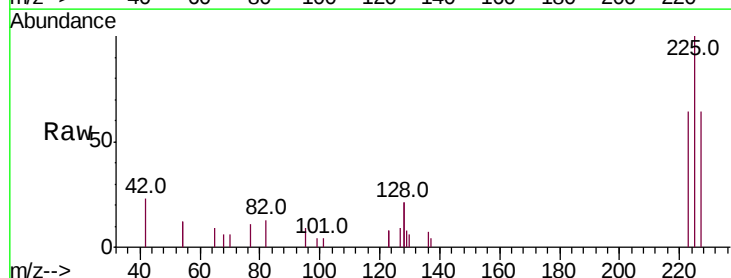
Tgt Ion:225 Resp: 2594

Ion Ratio Lower Upper

225 100

223 63.0 52.2 78.4

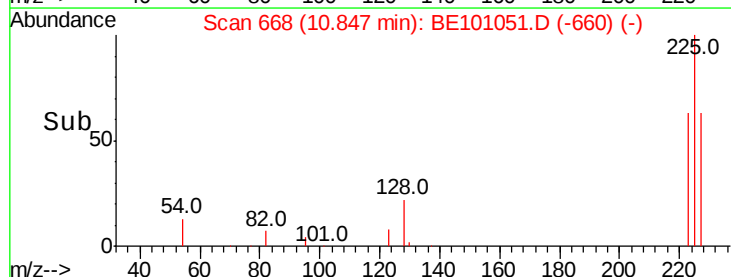
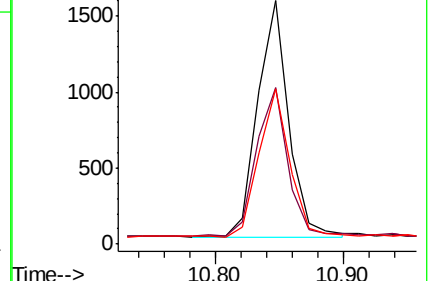
227 62.5 49.9 74.9

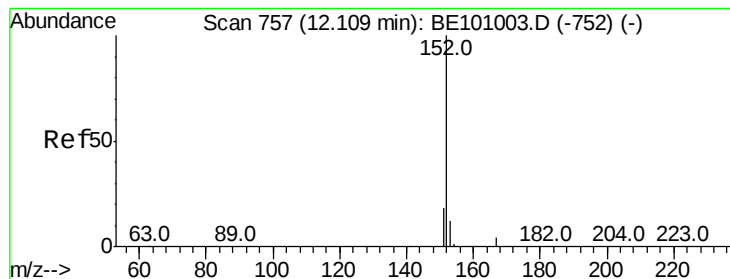


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.300 ng

RT: 12.09 min Scan# 755

Delta R.T. -0.01 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

Instrument :

BNA\_E

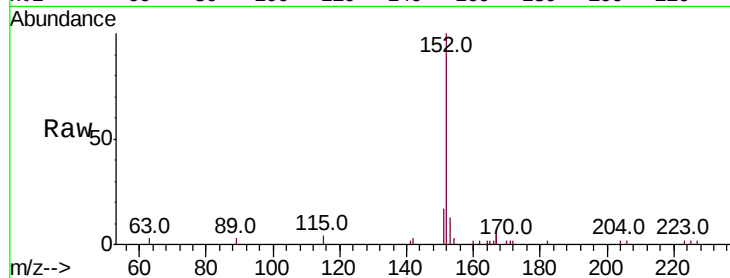
ClientSampleId :

Tot Ion:152 Resp: 9574

Ion Ratio Lower Upper

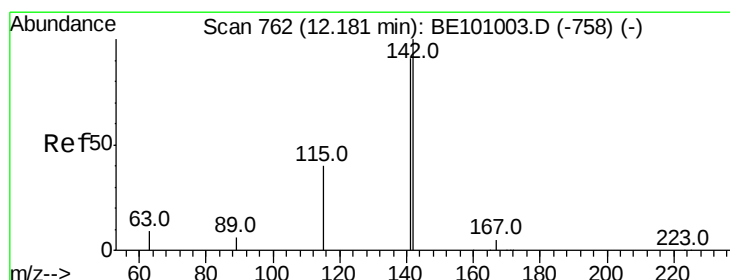
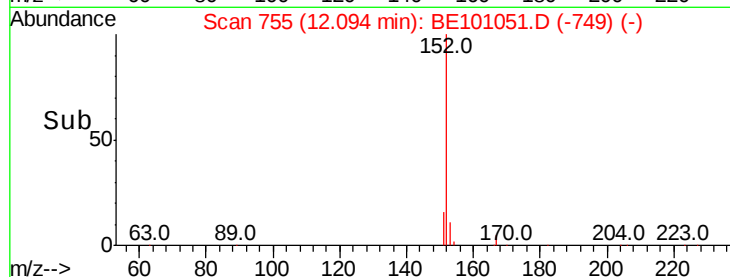
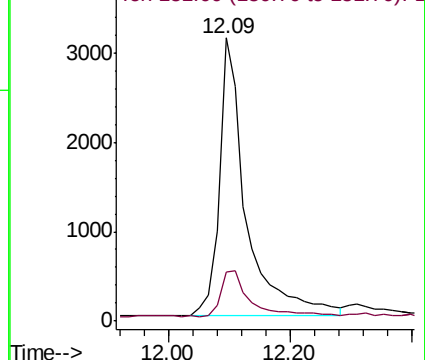
152 100

151 17.8 15.0 22.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.369 ng

RT: 12.17 min Scan# 760

Delta R.T. -0.01 min

Lab File: BE101051.D

Acq: 14 Jan 2020 14:43

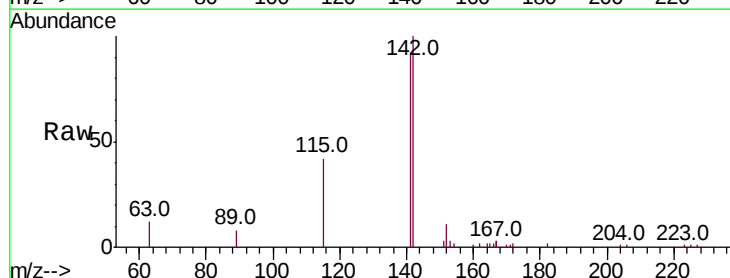
Tgt Ion:142 Resp: 10342

Ion Ratio Lower Upper

142 100

141 91.7 72.5 108.7

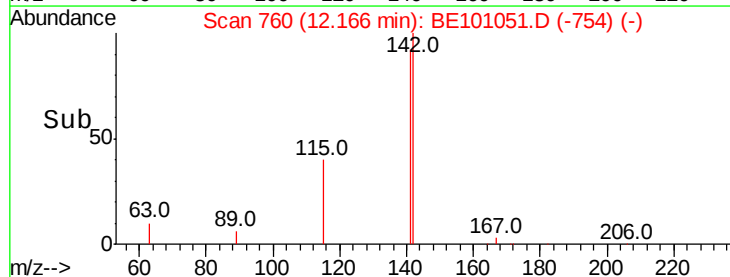
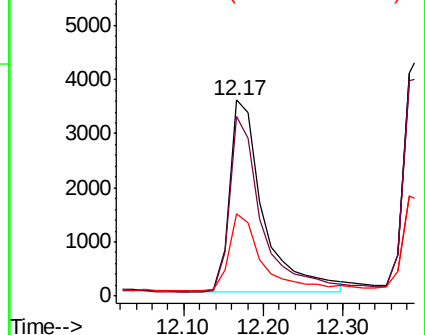
115 42.1 33.0 49.6

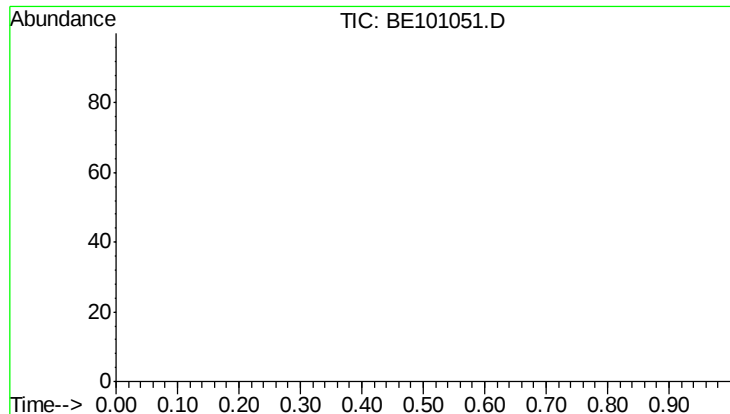


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

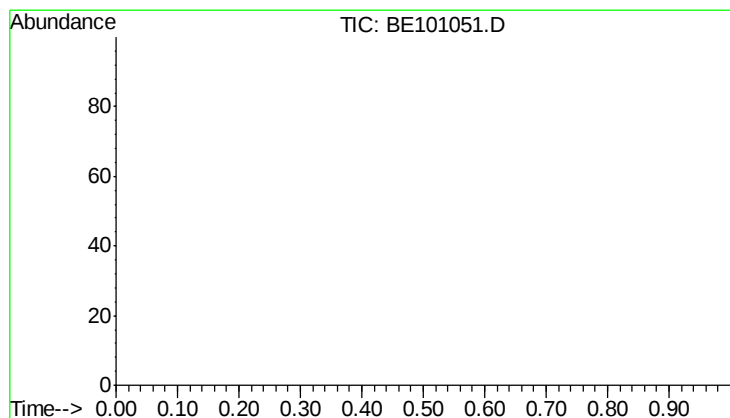
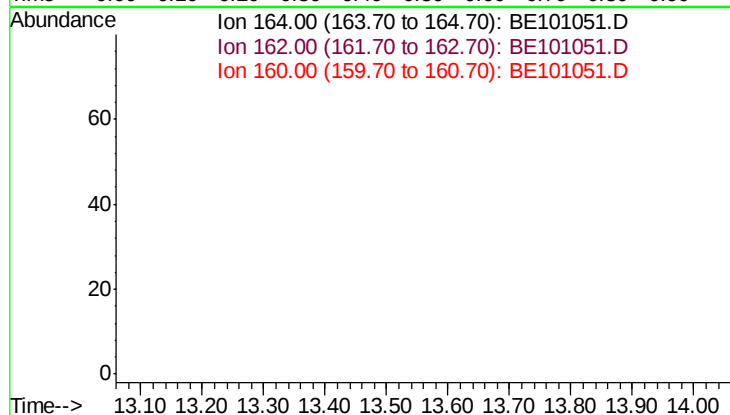




#13  
 Acenaphthene-d10  
 Concen: 0.000 ng  
 Expected RT: 14.36 min  
 Lab File: BE101051.D  
 Acq: 14 Jan 2020 14:43

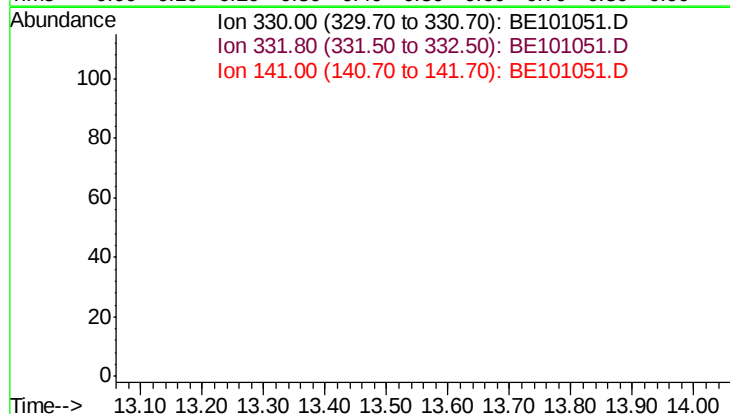
Instrument :  
 BNA\_E  
 ClientSampleId :

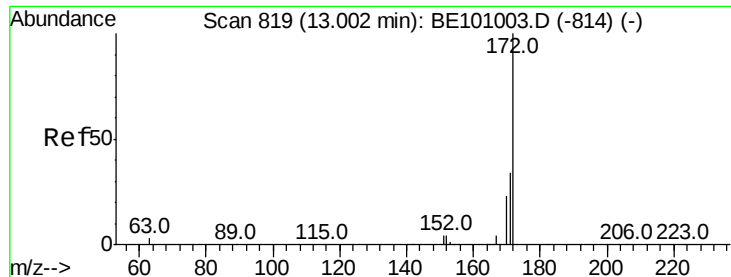
Tot Ion: 164  
 Sig Exp Ratio  
 164 100  
 162 105.1  
 160 50.5



#14  
 2,4,6-Tribromophenol  
 Concen: 0.000 ng  
 Expected RT: 15.85 min  
 Lab File: BE101051.D  
 Acq: 14 Jan 2020 14:43

Tgt Ion: 330  
 Sig Exp Ratio  
 330 100  
 332 98.0  
 141 46.2

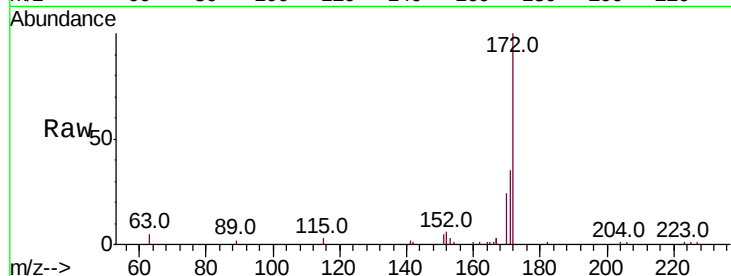




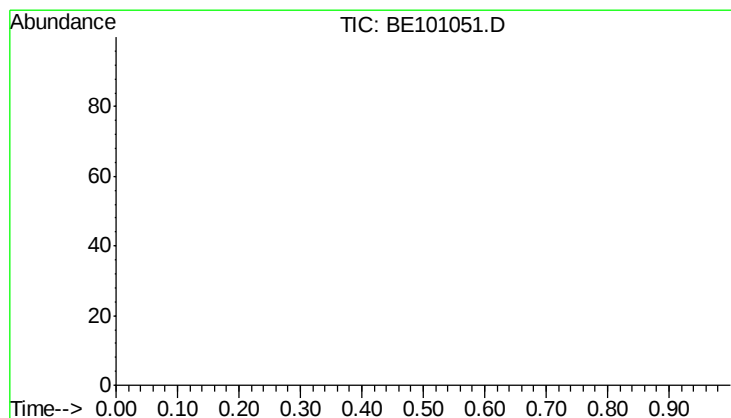
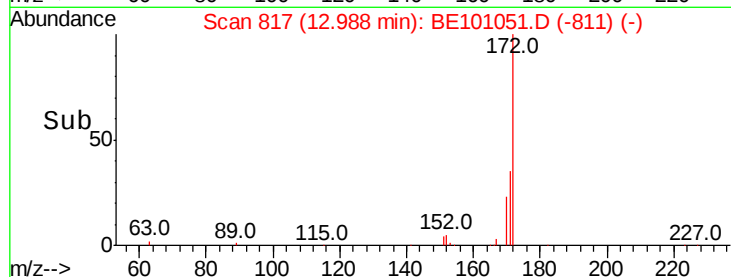
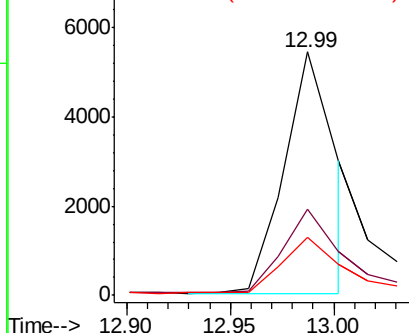
#15  
2-Fluorobiphenyl  
Concen: 0.000 ng  
RT: 12.99 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: BE101051.D  
Acq: 14 Jan 2020 14:43

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion: 172 Resp: 9186  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.2 42.2  
170 24.0 18.9 28.3

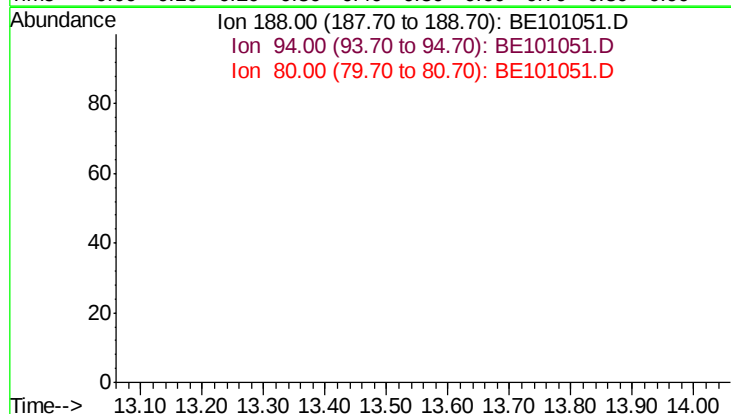


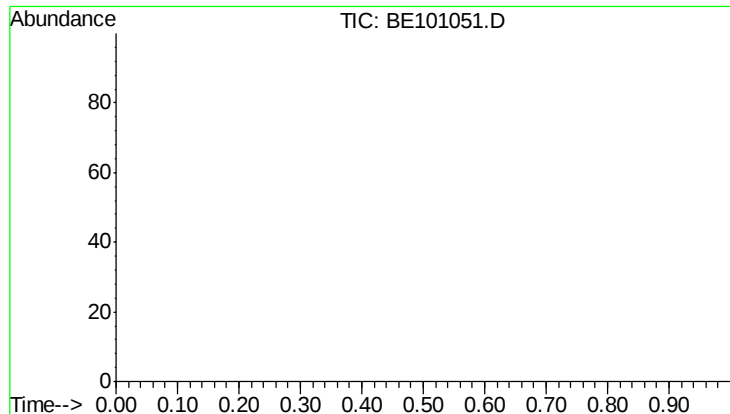
Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E



#19  
Phenanthrene-d10  
Concen: 0.000 ng  
Expected RT: 17.09 min  
  
Lab File: BE101051.D  
Acq: 14 Jan 2020 14:43

Tgt Ion: 188  
Sig Exp Ratio  
188 100  
94 0.0  
80 13.5

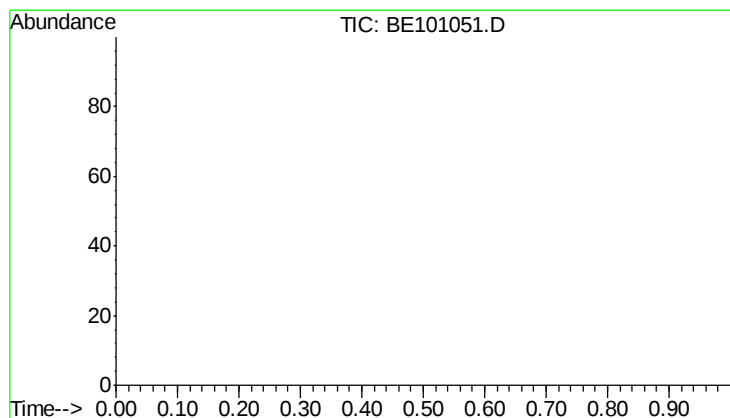
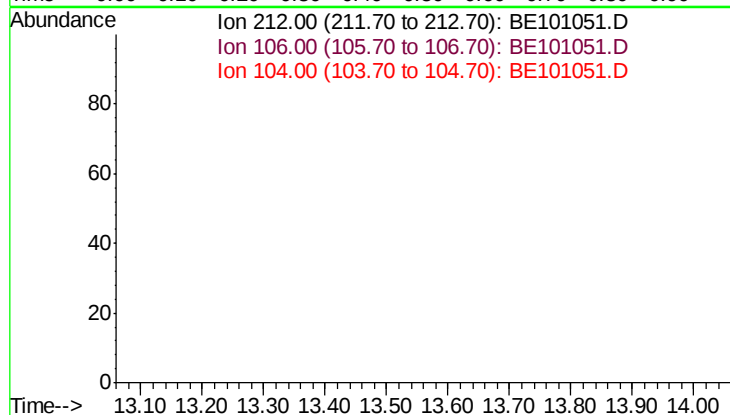




#25  
 Fluoranthene-d10  
 Concen: 0.000 ng  
 Expected RT: 19.13 min  
 Lab File: BE101051.D  
 Acq: 14 Jan 2020 14:43

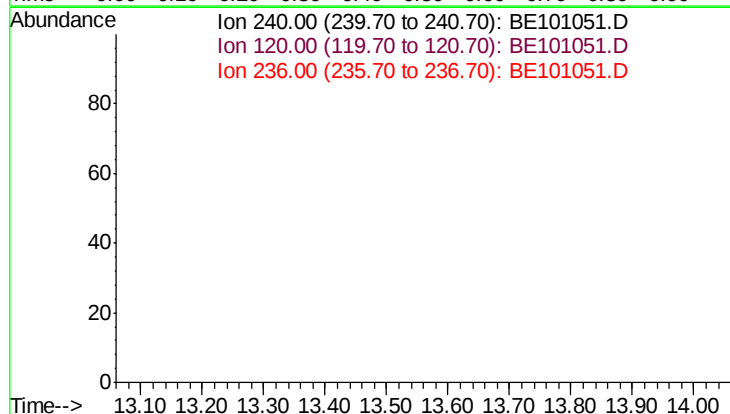
Instrument :  
 BNA\_E  
 ClientSampleId :

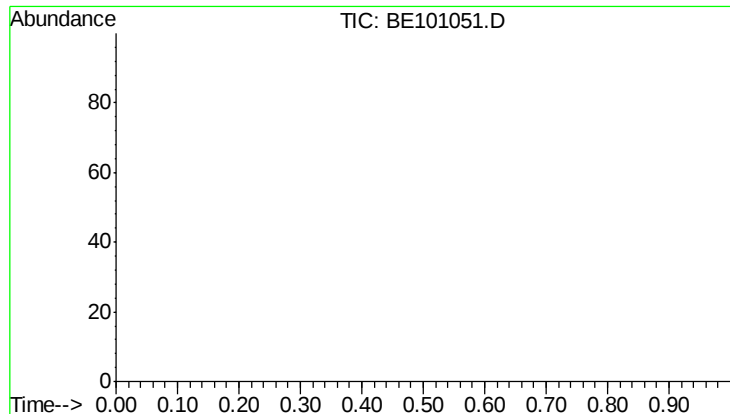
Tot Ion: 212  
 Sig Exp Ratio  
 212 100  
 106 3.2  
 104 1.7



#27  
 Chrysene-d12  
 Concen: 0.000 ng  
 Expected RT: 21.28 min  
 Lab File: BE101051.D  
 Acq: 14 Jan 2020 14:43

Tgt Ion: 240  
 Sig Exp Ratio  
 240 100  
 120 10.8  
 236 27.8

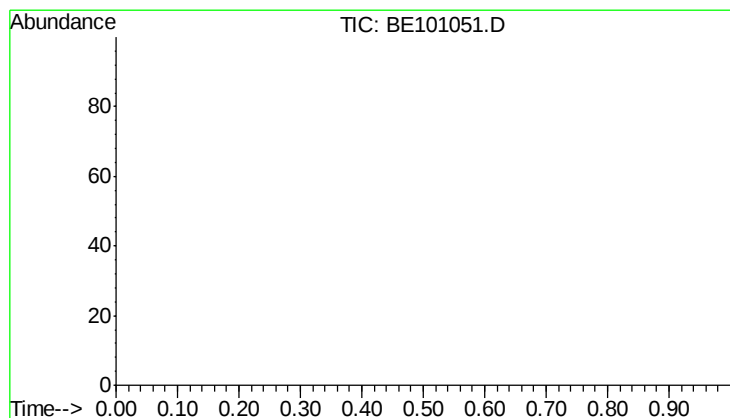
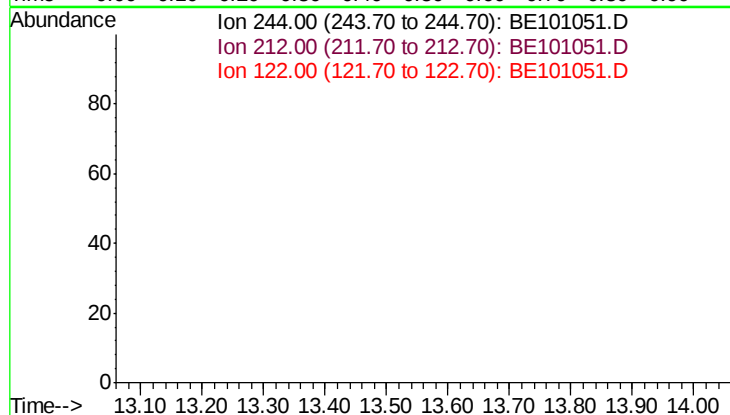




#29  
 Terphenyl-d14  
 Concen: 0.000 ng  
 Expected RT: 19.74 min  
 Lab File: BE101051.D  
 Acq: 14 Jan 2020 14:43

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion: 244  
 Sig Exp Ratio  
 244 100  
 212 34.0  
 122 12.3



#34  
 Perylene-d12  
 Concen: 0.000 ng  
 Expected RT: 23.70 min  
 Lab File: BE101051.D  
 Acq: 14 Jan 2020 14:43

Tgt Ion: 264  
 Sig Exp Ratio  
 264 100  
 260 25.4  
 265 33.7

