

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121619\  
 Data File : BE100944.D  
 Acq On : 17 Dec 2019 8:51  
 Operator : JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

Manual Integrations  
 APPROVED

mohammad  
 12/17/2019 3:19:04 PM

Quant Time: Dec 17 12:22:44 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Dec 13 10:42:38 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 4976     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.54 | 136  | 24213    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.38 | 164  | 15438    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.12 | 188  | 36888    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.29 | 240  | 34546    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.75 | 264  | 40665    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |        |      |    |      |
|-----------------------------|-------|-----|--------|------|----|------|
| 4) 2-Fluorophenol           | 5.36  | 112 | 7420   | 0.63 | ng | 0.00 |
| 5) Phenol-d6                | 6.93  | 99  | 11034  | 0.62 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.90  | 82  | 8383   | 0.73 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.14 | 152 | 15905  | 0.45 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.88 | 330 | 1834   | 1.07 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.02 | 172 | 22432  | 0.37 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.16 | 212 | 176413 | 0.40 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.76 | 244 | 35523  | 0.43 | ng | 0.00 |

#### Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 3698   | 0.408 | ng | 93     |
| 3) n-Nitrosodimethylamine      | 3.64  | 42  | 3539   | 0.479 | ng | # 85   |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93  | 8234   | 0.478 | ng | 100    |
| 9) Naphthalene                 | 10.58 | 128 | 113628 | 0.442 | ng | 100    |
| 10) Hexachlorobutadiene        | 10.89 | 225 | 4109   | 0.410 | ng | 97     |
| 12) 2-Methylnaphthalene        | 12.21 | 142 | 18720  | 0.466 | ng | 99     |
| 16) Acenaphthylene             | 14.11 | 152 | 30332  | 0.475 | ng | 100    |
| 17) Acenaphthene               | 14.46 | 154 | 18987  | 0.431 | ng | 97     |
| 18) Fluorene                   | 15.42 | 166 | 25457  | 0.448 | ng | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.32 | 248 | 7600   | 0.420 | ng | 94     |
| 21) Hexachlorobenzene          | 16.44 | 284 | 7394   | 0.376 | ng | 99     |
| 22) Pentachlorophenol          | 16.79 | 266 | 1176   | 0.865 | ng | 91     |
| 23) Phenanthrene               | 17.16 | 178 | 45207  | 0.405 | ng | 99     |
| 24) Anthracene                 | 17.26 | 178 | 41893  | 0.448 | ng | 100    |
| 26) Fluoranthene               | 19.18 | 202 | 52613  | 0.395 | ng | 99     |
| 28) Pyrene                     | 19.55 | 202 | 54791  | 0.488 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.28 | 228 | 52541  | 0.516 | ng | 98     |
| 31) Chrysene                   | 21.33 | 228 | 52982  | 0.443 | ng | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.23 | 149 | 141485 | 1.574 | ng | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 26.32 | 276 | 56622  | 0.543 | ng | 97     |
| 35) Benzo(b)fluoranthene       | 22.99 | 252 | 50914  | 0.457 | ng | # 97   |
| 36) Benzo(k)fluoranthene       | 23.04 | 252 | 54175m | 0.434 | ng |        |
| 37) Benzo(a)pyrene             | 23.63 | 252 | 48946  | 0.508 | ng | # 97   |
| 38) Dibenzo(a,h)anthracene     | 26.34 | 278 | 45362  | 0.473 | ng | 99     |
| 39) Benzo(g,h,i)perylene       | 27.10 | 276 | 47243  | 0.461 | ng | 98     |

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

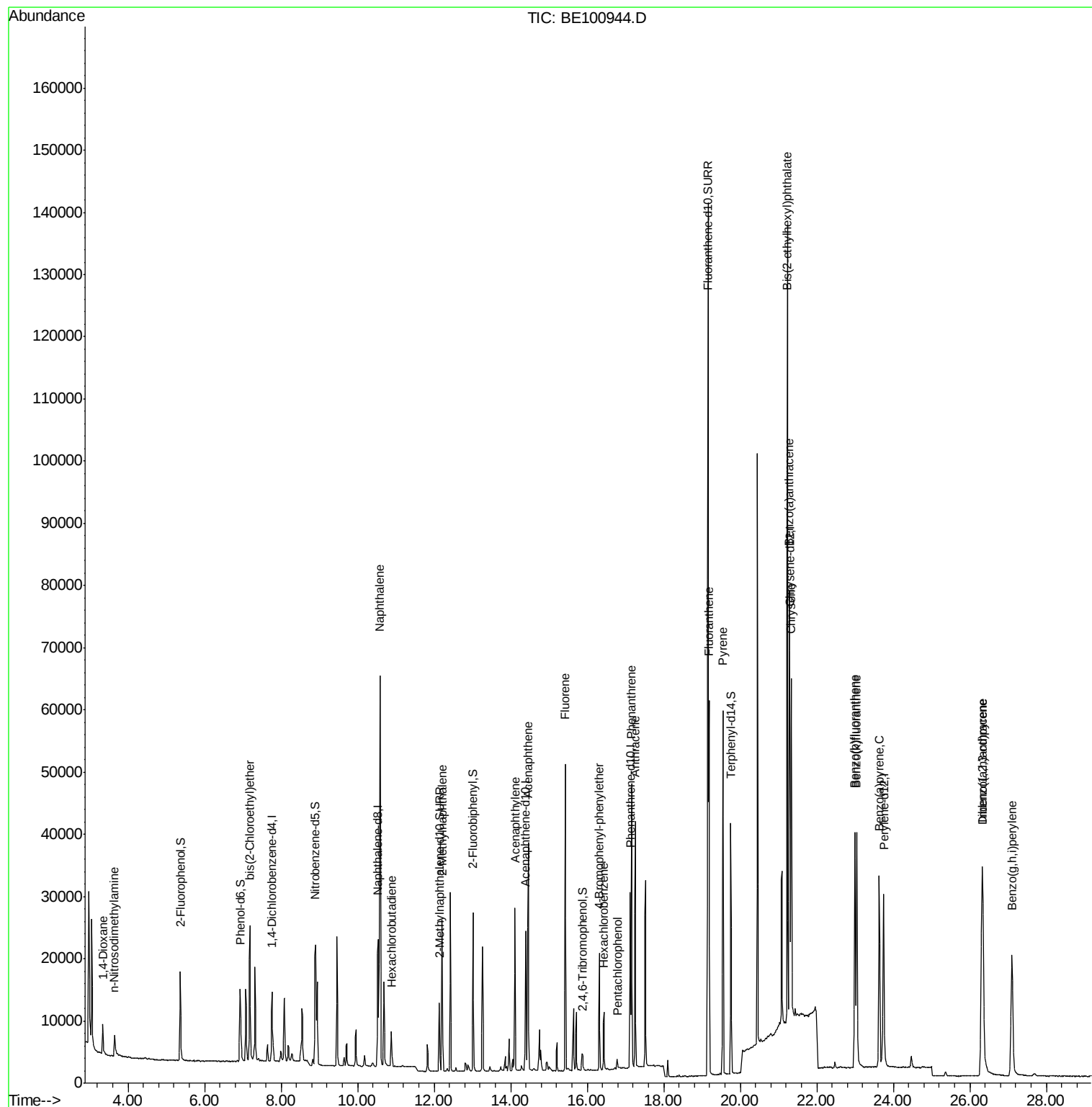
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121619\  
Data File : BE100944.D  
Acq On : 17 Dec 2019 8:51  
Operator : JU  
Sample : SSTDCCC0.4  
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ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleID :  
SSTDCCC0.4EC

Manual Integrations  
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Quant Time: Dec 17 12:22:44 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 13 10:42:38 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.76 min Scan# 425

Delta R.T. 0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

Tot Ion:152 Resp: 4976

Ion Ratio Lower Upper

152 100

150 154.8 125.5 188.3

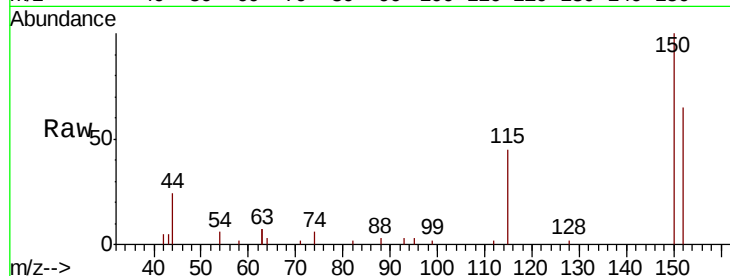
115 70.4 55.7 83.5

Manual Integrations

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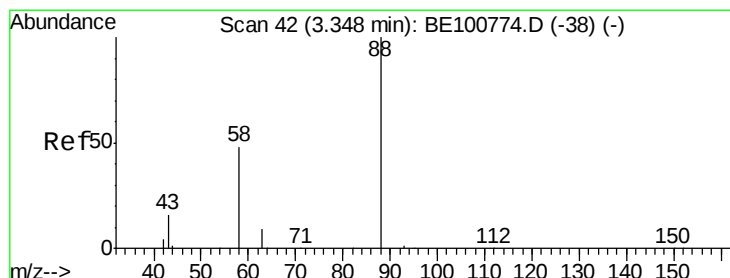
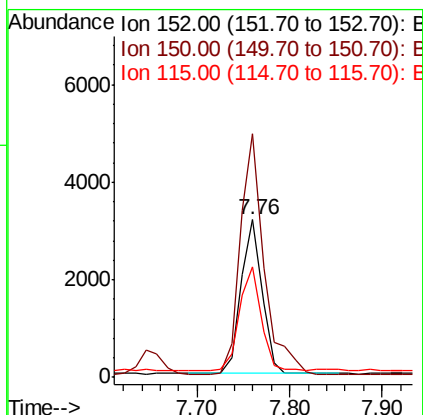
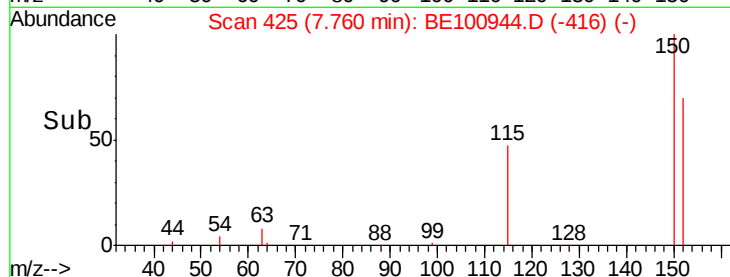
12/17/2019 3:19:04 PM



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: 0.408 ng

RT: 3.34 min Scan# 41

Delta R.T. 0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

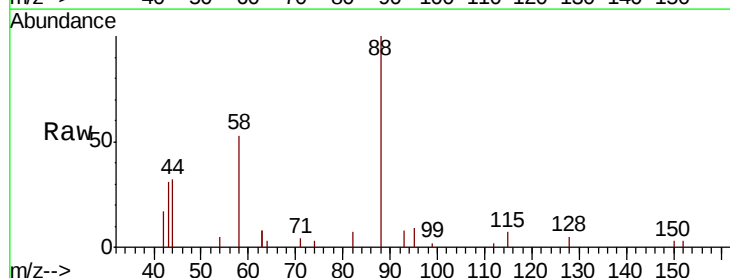
Tgt Ion: 88 Resp: 3698

Ion Ratio Lower Upper

88 100

58 69.7 52.3 78.5

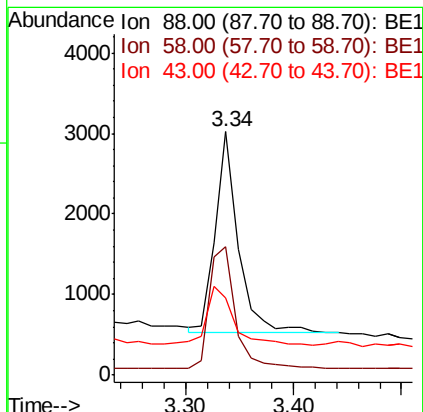
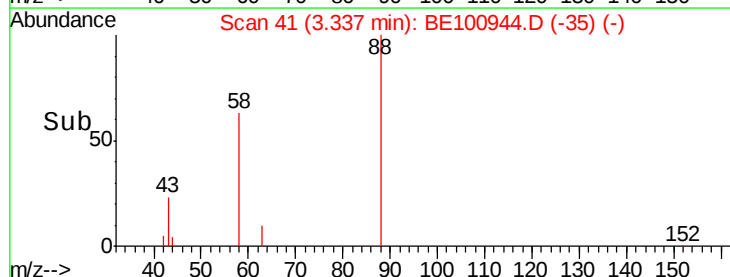
43 34.2 23.5 35.3



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: 0.479 ng

RT: 3.64 min Scan# 67

Delta R.T. -0.01 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

Instrument :

BNA\_E

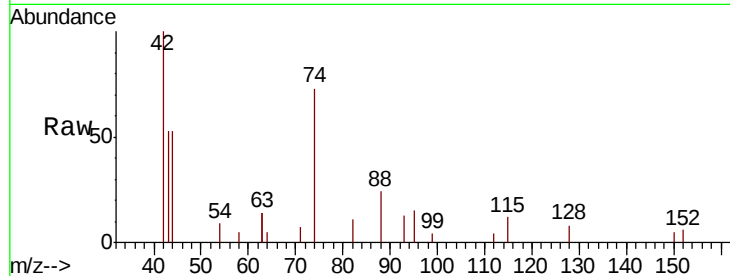
ClientSampleId :

SSTDCCC0.4EC

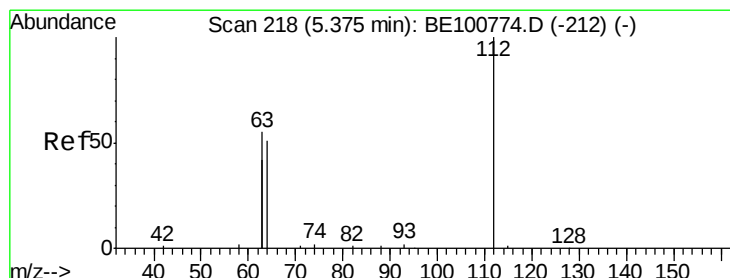
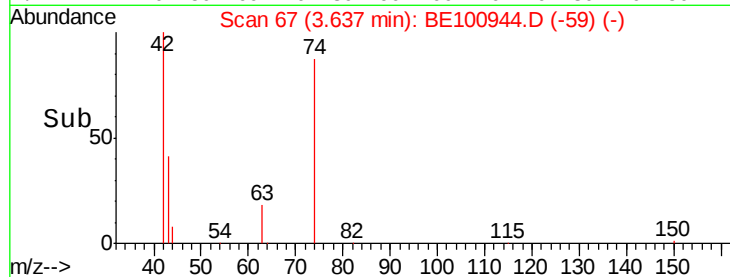
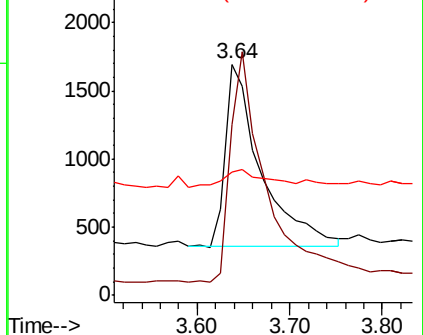
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 3539  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 130.2 | 90.3  | 135.5 |
| 44       | 8.6   | 9.0   | 13.4# |

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Abundance Ion 42.00 (41.70 to 42.70): BE1  
Ion 74.00 (73.70 to 74.70): BE1  
Ion 44.00 (43.70 to 44.70): BE1



#4

2-Fluorophenol

Concen: 0.628 ng

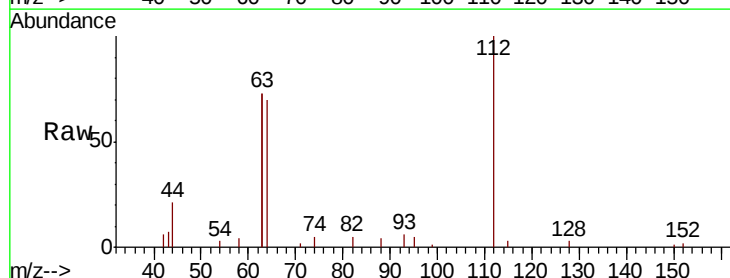
RT: 5.36 min Scan# 217

Delta R.T. -0.01 min

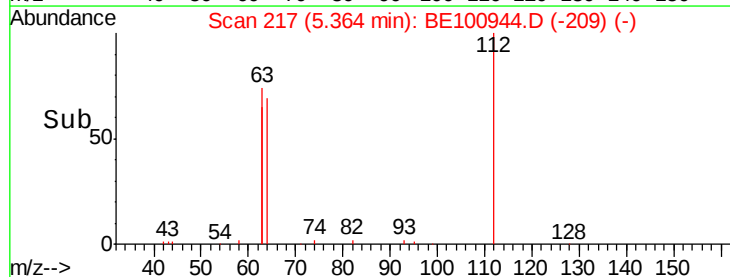
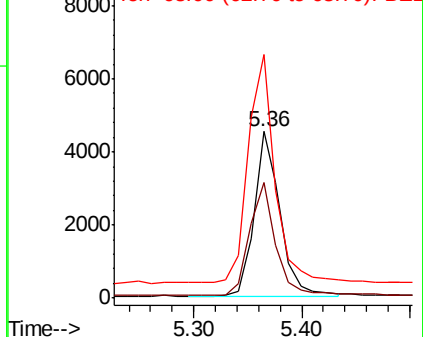
Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 7420  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 69.2  | 54.5  | 81.7  |
| 63       | 143.4 | 116.1 | 174.1 |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.619 ng

RT: 6.93 min Scan# 353

Delta R.T. 0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

Instrument :

BNA\_E

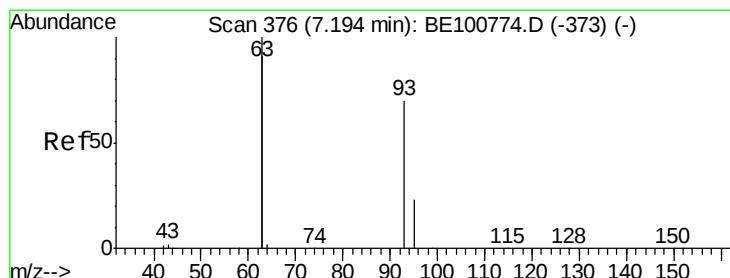
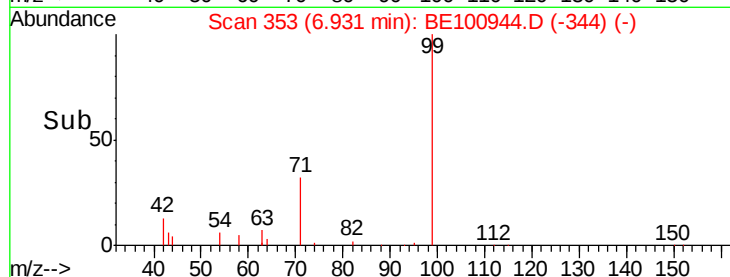
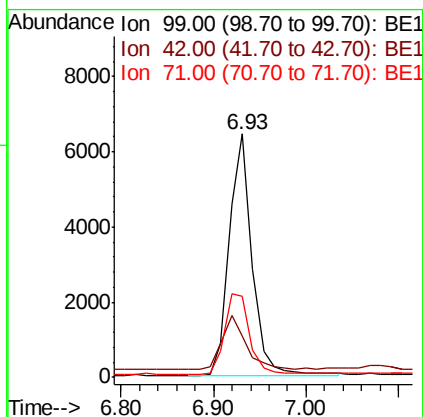
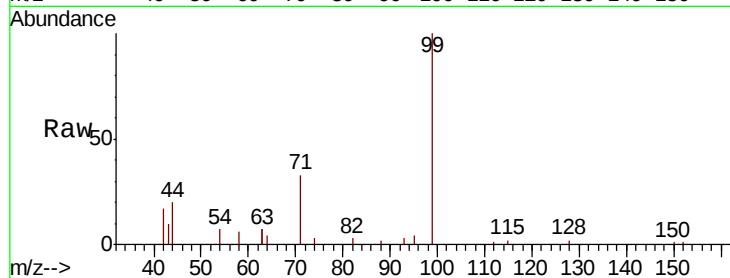
ClientSampleId :

SSTDCCC0.4EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 11034 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 23.3  | 18.2  | 27.2  |
| 71       | 37.2  | 29.1  | 43.7  |

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#6

bis(2-Chloroethyl)ether

Concen: 0.478 ng

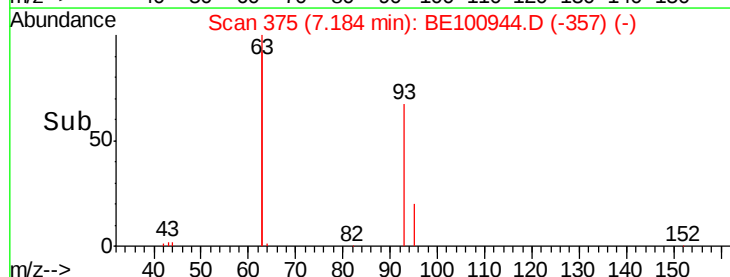
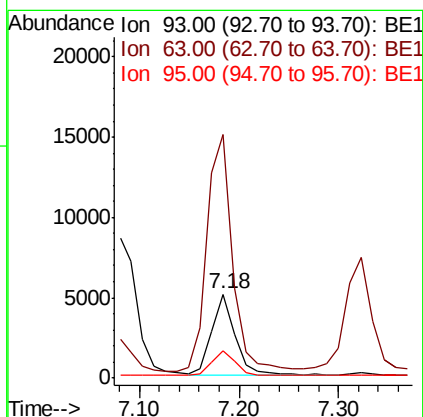
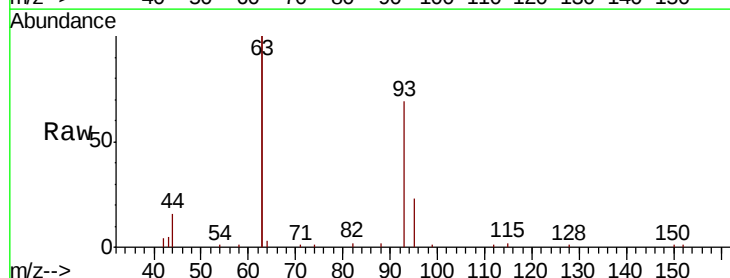
RT: 7.18 min Scan# 375

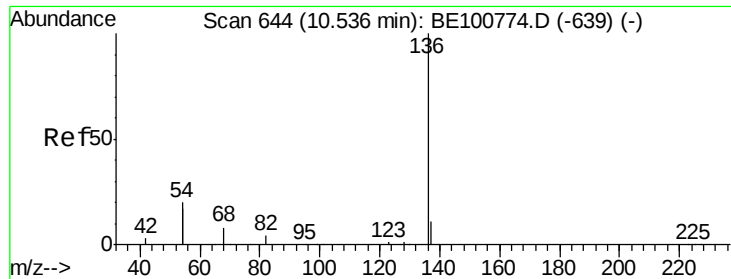
Delta R.T. 0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 8234  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 316.8 | 253.9 | 380.9 |
| 95       | 31.9  | 25.0  | 37.6  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.54 min Scan# 644

Delta R.T. -0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

Instrument :

BNA\_E

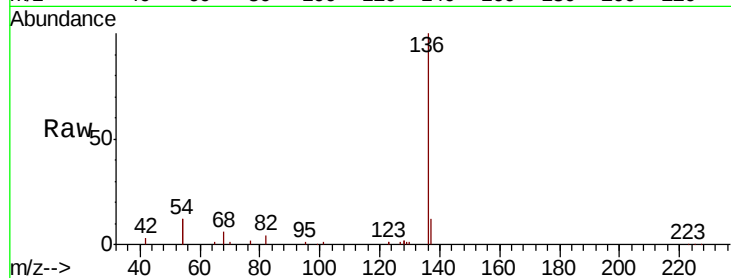
ClientSampleId :

SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.6  | 9.1   | 13.7  |
| 54      | 24.3  | 18.9  | 28.3  |
| 68      | 6.0   | 4.6   | 6.8   |

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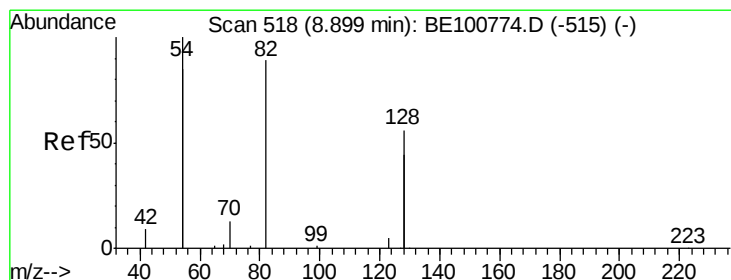
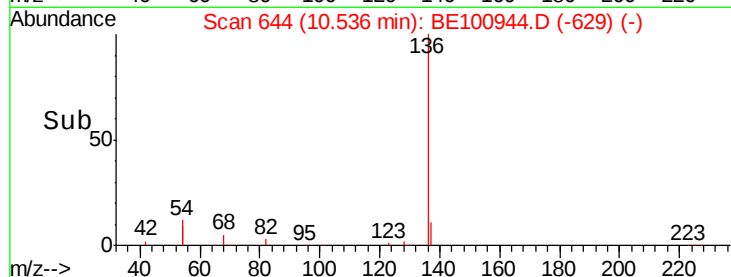
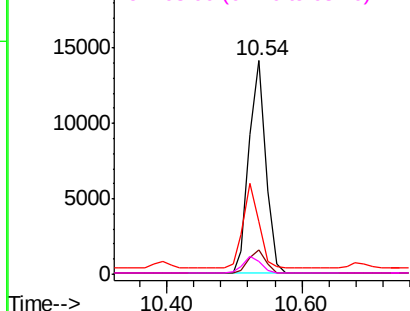
Abundance

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): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.727 ng

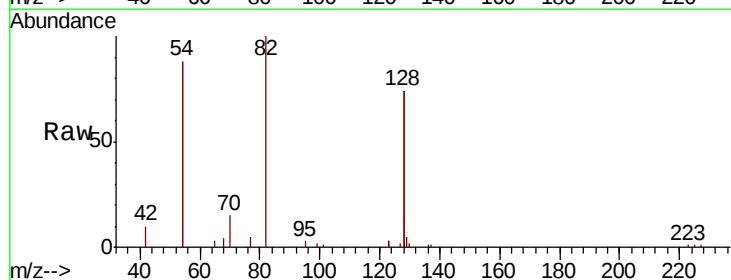
RT: 8.90 min Scan# 518

Delta R.T. -0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 148.9 | 113.5 | 170.3 |
| 54      | 176.4 | 138.9 | 208.3 |

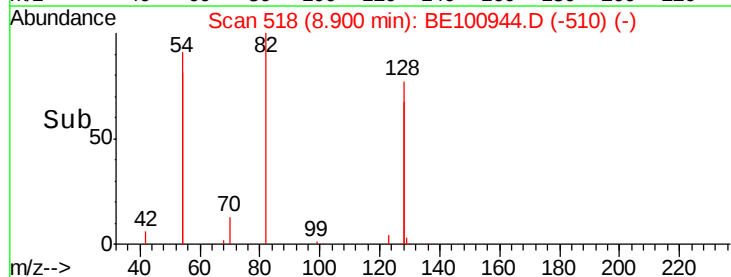
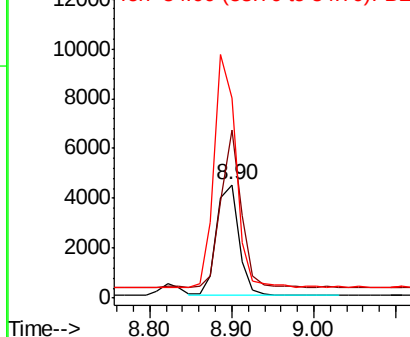


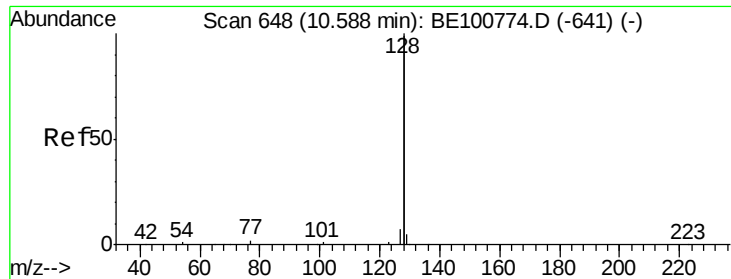
Abundance

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





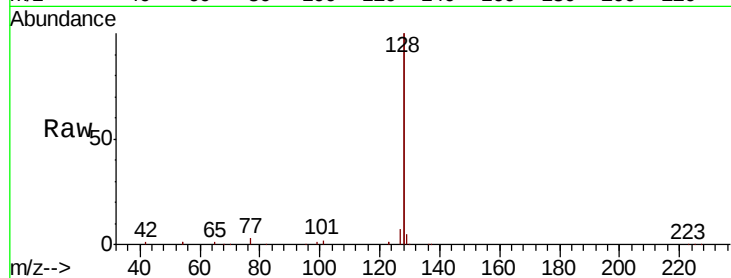
#9  
Naphthalene  
Concen: 0.442 ng  
RT: 10.58 min Scan# 647  
Delta R.T. -0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 2.7   | 2.2   | 3.4   |
| 127     | 3.5   | 2.8   | 4.2   |

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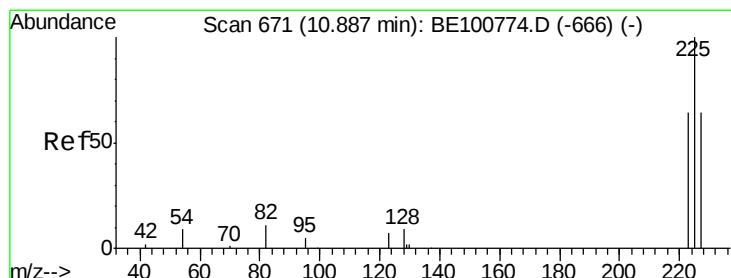
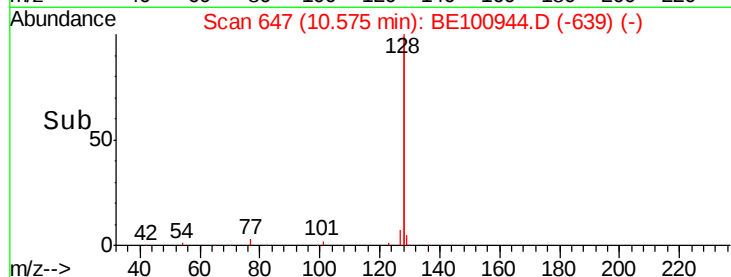
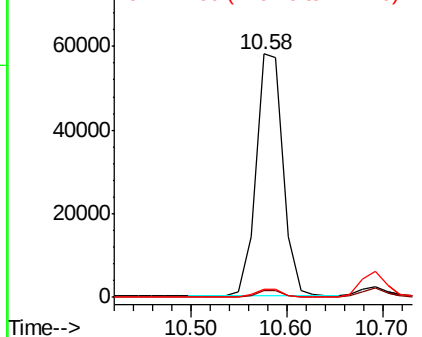


Abundance

Ion 128.00 (127.70 to 128.70): E

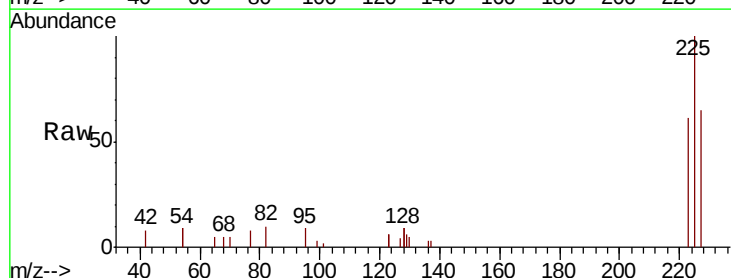
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10  
Hexachlorobutadiene  
Concen: 0.410 ng  
RT: 10.89 min Scan# 671  
Delta R.T. -0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.7  | 52.1  | 78.1  |
| 227     | 62.0  | 51.1  | 76.7  |

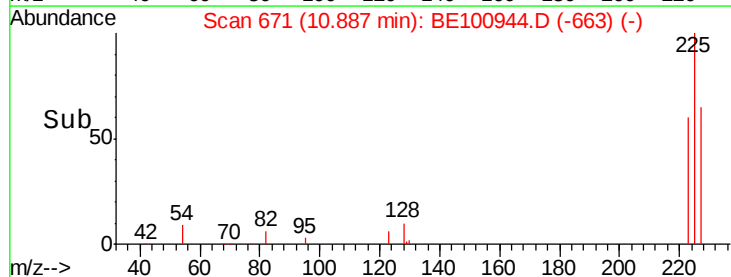
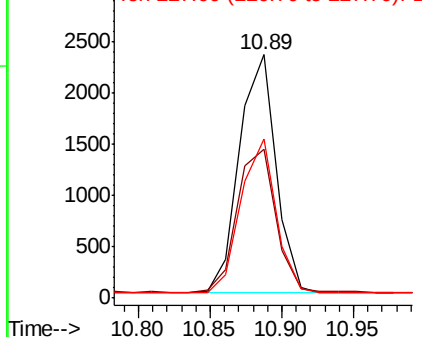


Abundance

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





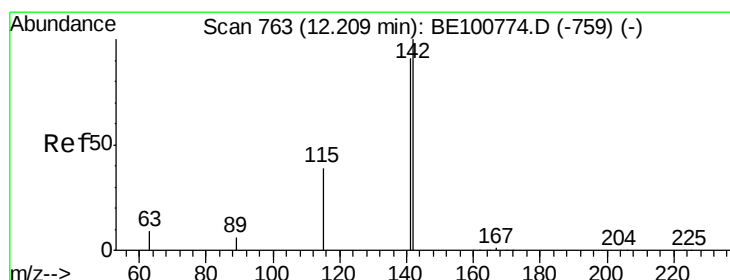
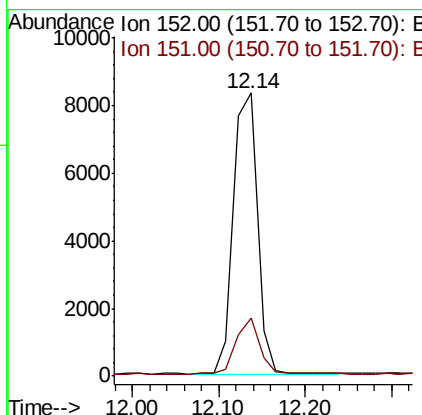
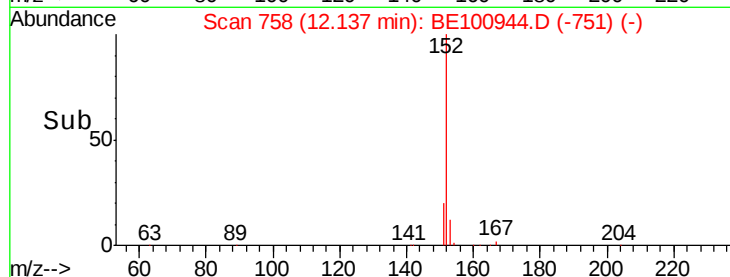
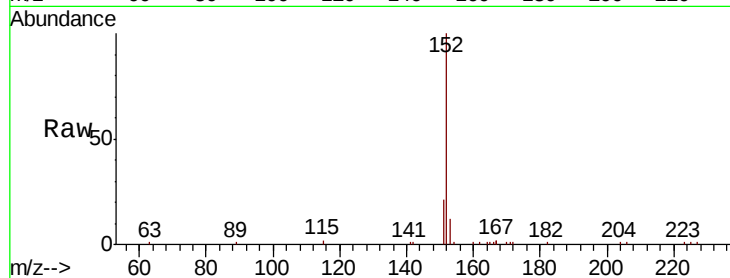
#11  
2-Methylnaphthalene-d10  
Concen: 0.453 ng  
RT: 12.14 min Scan# 758  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.2  | 15.1  | 22.7  |

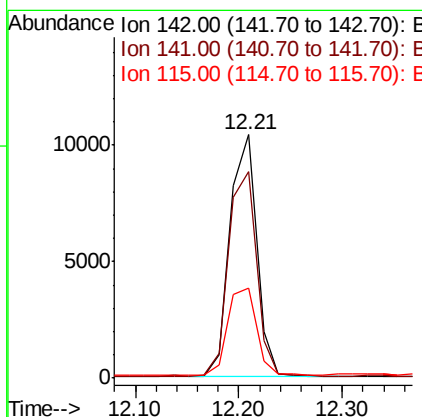
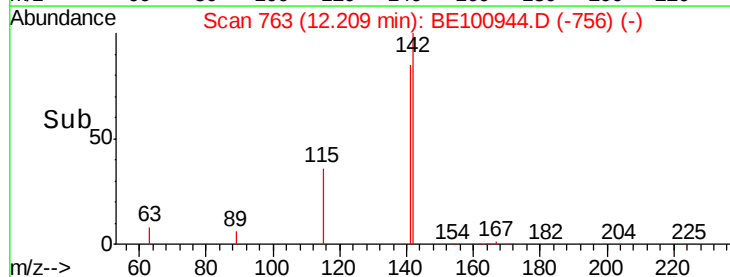
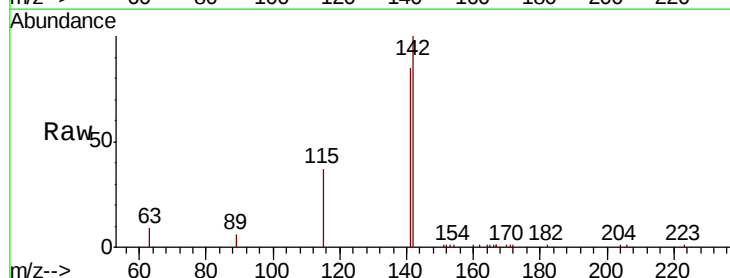
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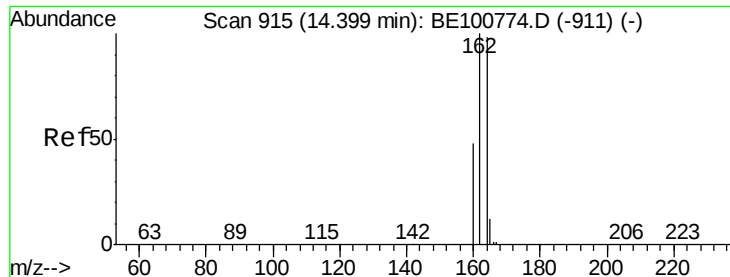
mohammad  
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#12  
2-Methylnaphthalene  
Concen: 0.466 ng  
RT: 12.21 min Scan# 763  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.0  | 68.9  | 103.3 |
| 115     | 37.2  | 29.5  | 44.3  |





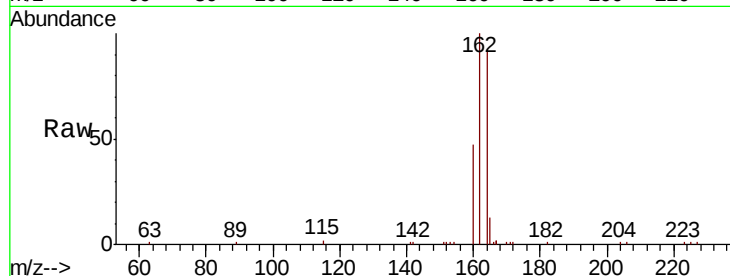
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.38 min Scan# 914  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 109.0 | 86.0  | 129.0 |
| 160     | 51.3  | 42.3  | 63.5  |

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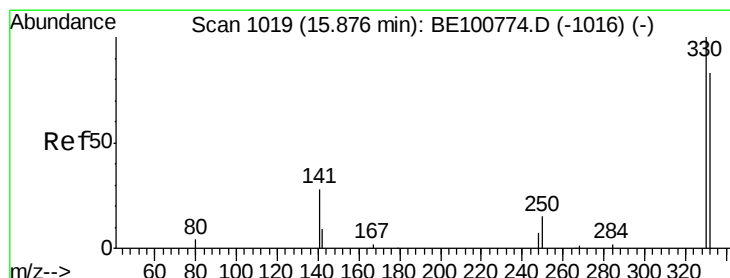
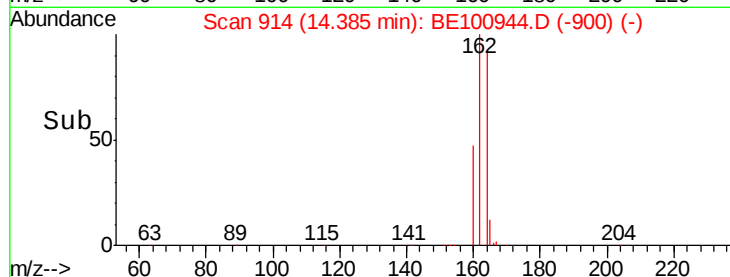
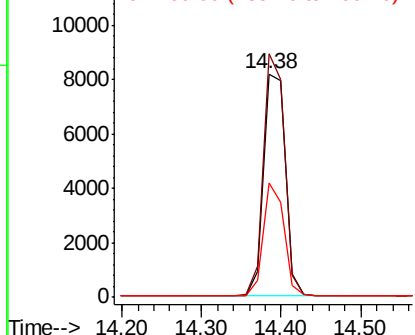


Abundance

Ion 164.00 (163.70 to 164.70): E

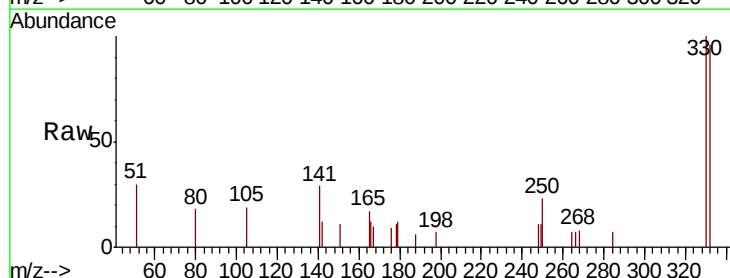
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14  
2,4,6-Tribromophenol  
Concen: 1.068 ng  
RT: 15.88 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.1  | 74.1  | 111.1 |
| 141     | 46.9  | 46.7  | 70.1  |

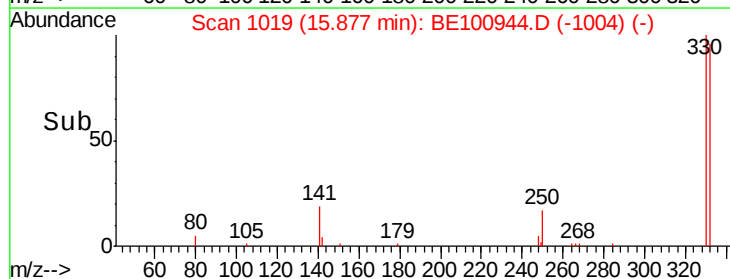
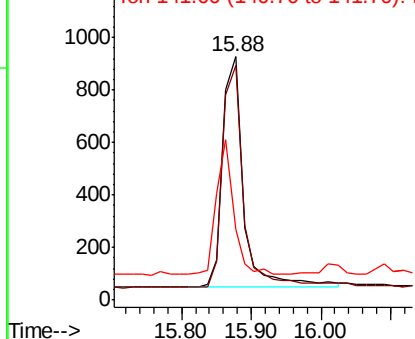


Abundance

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





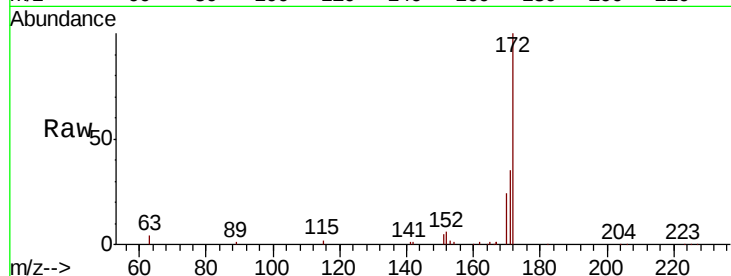
#15  
2-Fluorobiphenyl  
Concen: 0.366 ng  
RT: 13.02 min Scan# 819  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.6  | 28.2  | 42.4  |
| 170     | 23.7  | 19.4  | 29.0  |

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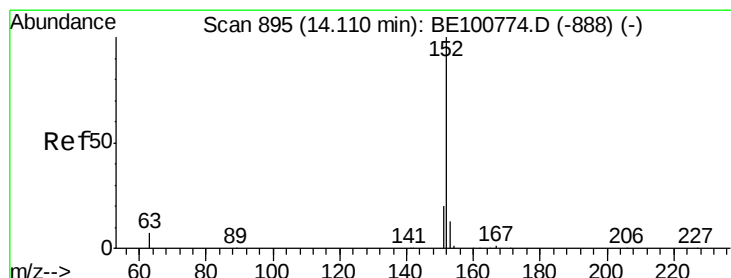
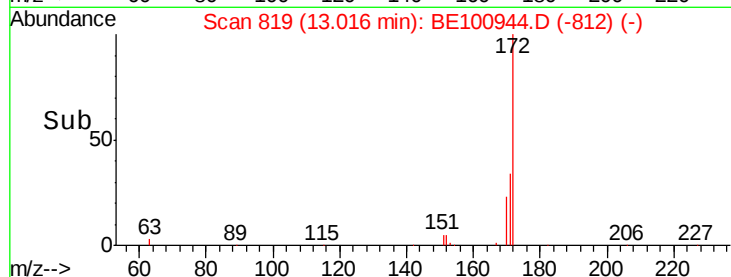
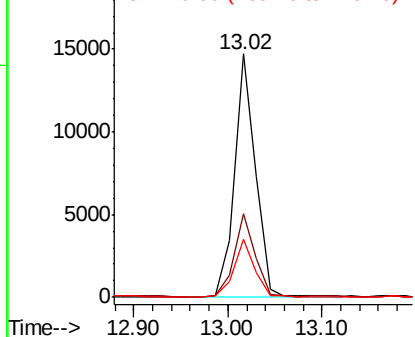


Abundance

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



#16  
Acenaphthylene  
Concen: 0.475 ng  
RT: 14.11 min Scan# 895  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

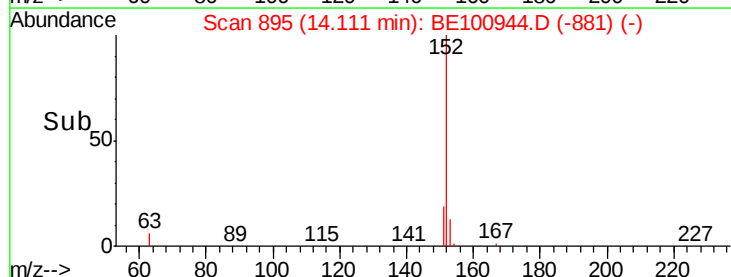
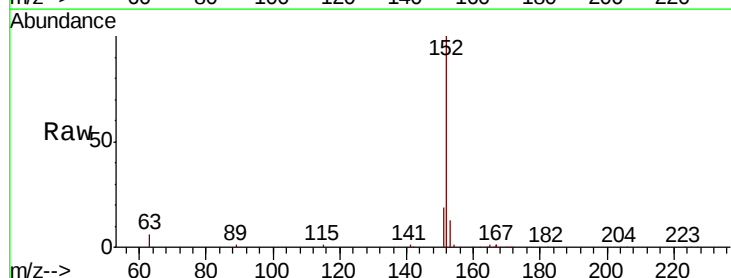
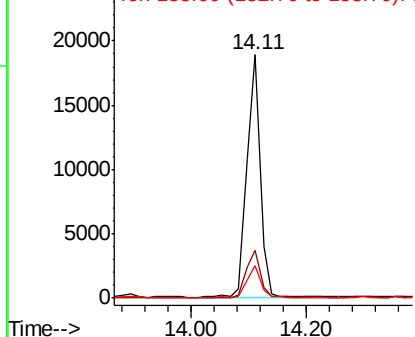
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.7  | 15.9  | 23.9  |
| 153     | 13.0  | 10.5  | 15.7  |

Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





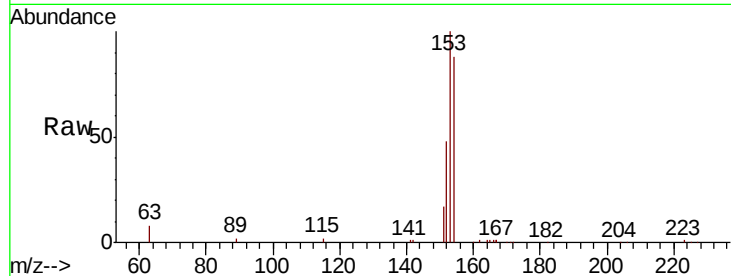
#17  
Acenaphthene  
Concen: 0.431 ng  
RT: 14.46 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 116.5 | 91.5  | 137.3 |
| 152     | 56.9  | 47.7  | 71.5  |

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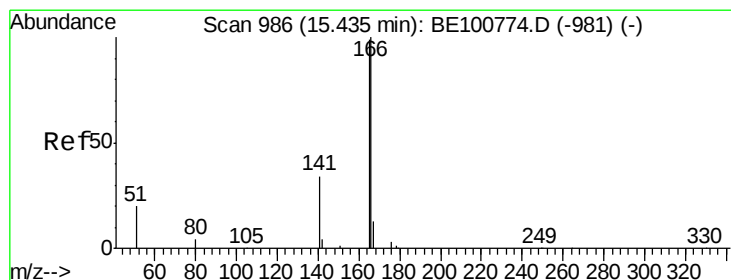
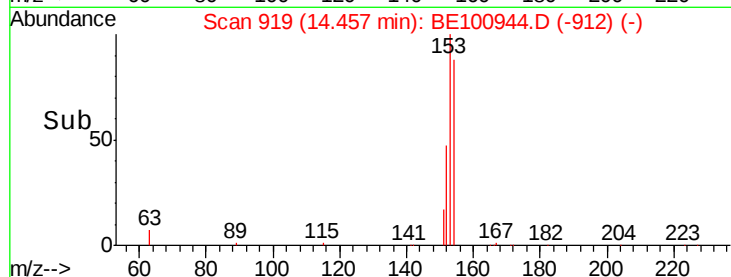
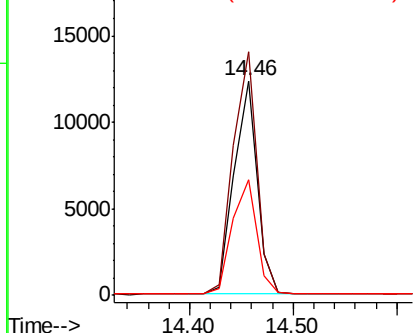


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18  
Fluorene  
Concen: 0.448 ng  
RT: 15.42 min Scan# 985  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

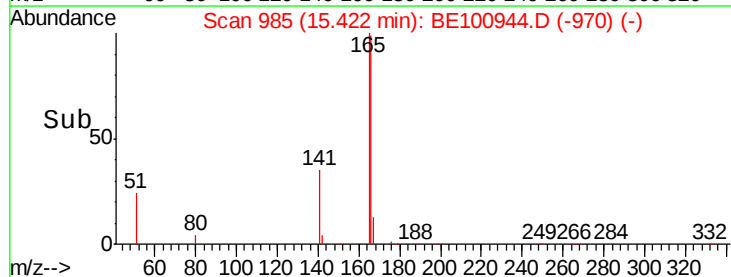
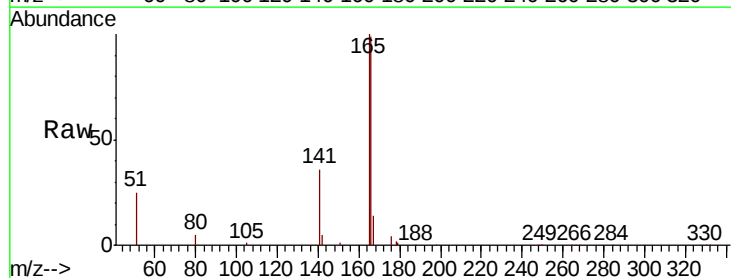
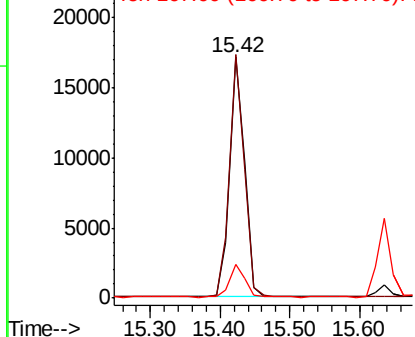
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.4  | 80.2  | 120.4 |
| 167     | 13.7  | 10.6  | 16.0  |

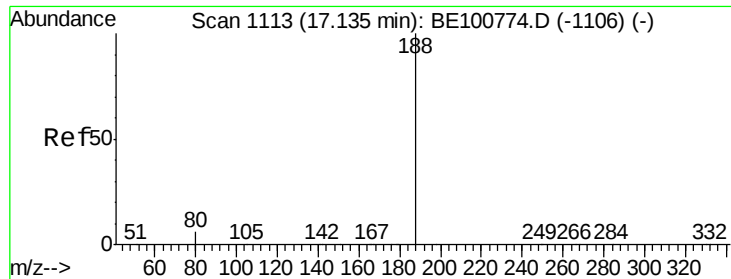
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





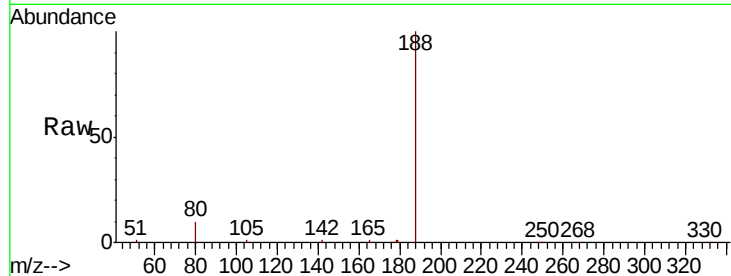
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.12 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 0.0   | 0.0        | 0.0   |
| 80      | 9.5   | 7.9        | 11.9  |

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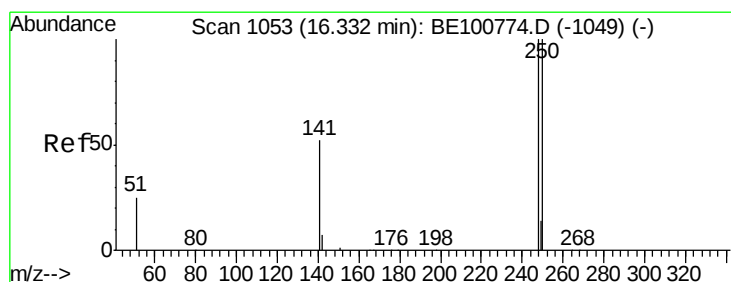
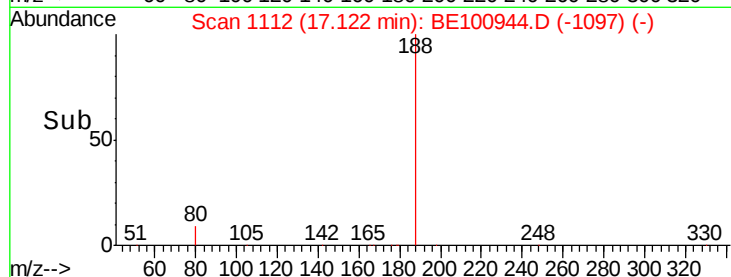
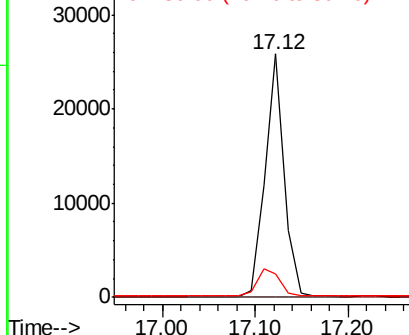


Abundance

Ion 188.00 (187.70 to 188.70): E

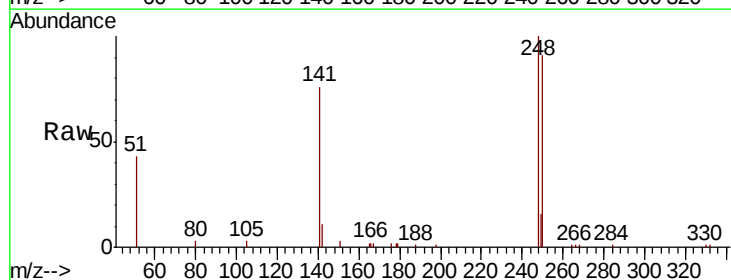
Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#20  
4-Bromophenyl-phenylether  
Concen: 0.420 ng  
RT: 16.32 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 248     | 100   |            |       |
| 250     | 91.5  | 72.4       | 108.6 |
| 141     | 75.5  | 68.2       | 102.2 |

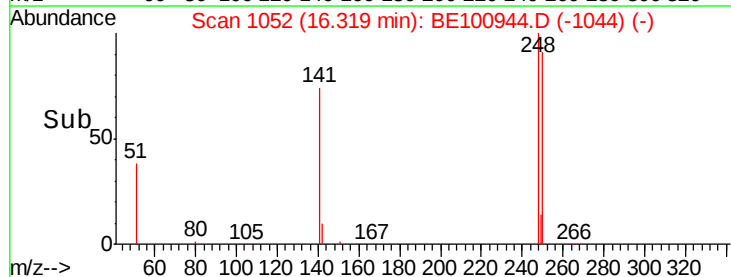
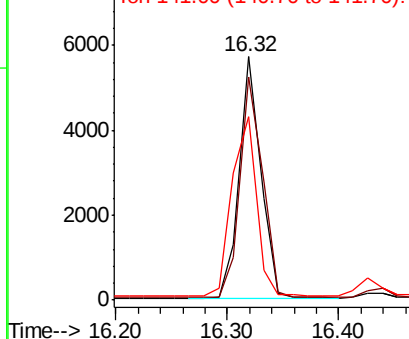


Abundance

Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





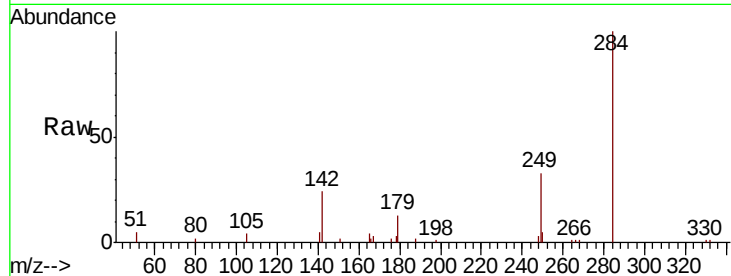
#21  
Hexachlorobenzene  
Concen: 0.376 ng  
RT: 16.44 min Scan# 1061  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

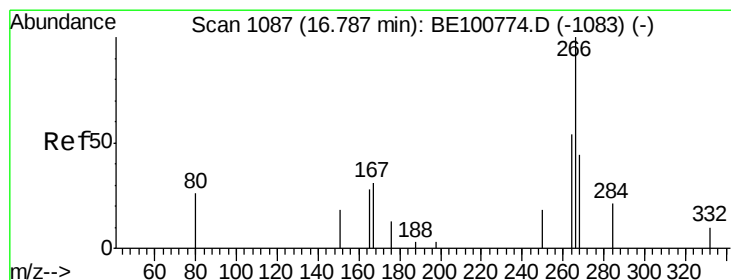
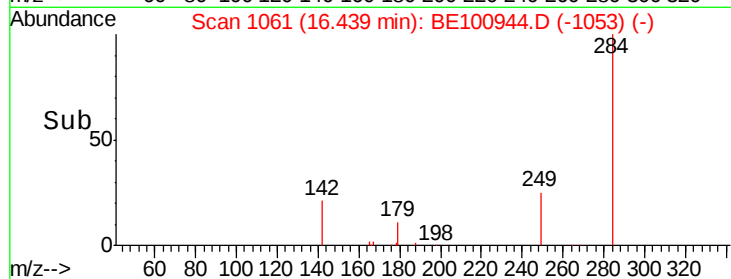
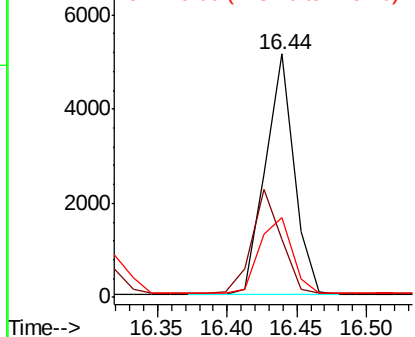
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 43.4  | 35.0  | 52.4  |
| 249     | 35.9  | 28.1  | 42.1  |

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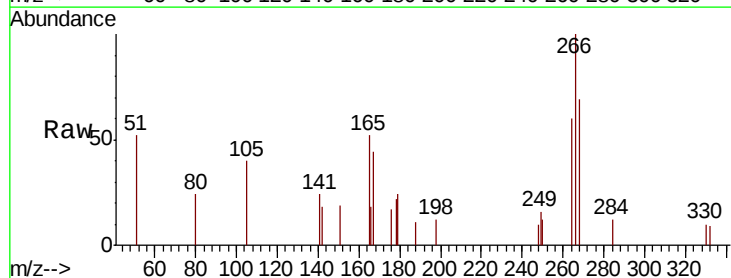


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

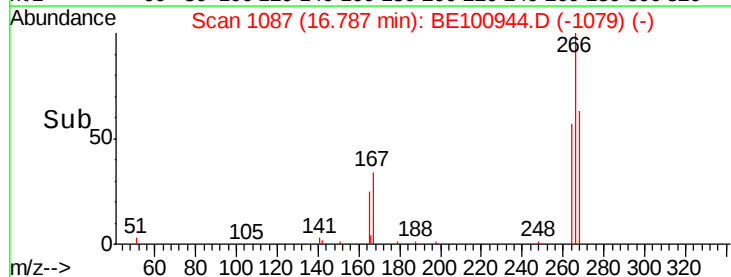
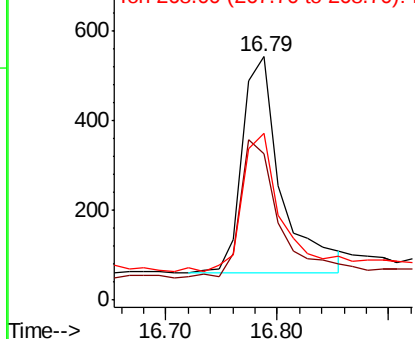


#22  
Pentachlorophenol  
Concen: 0.865 ng  
RT: 16.79 min Scan# 1087  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 60.2  | 55.1  | 82.7  |
| 268     | 68.7  | 50.7  | 76.1  |



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





#23

Phenanthrene

Concen: 0.405 ng

RT: 17.16 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

Instrument :

BNA\_E

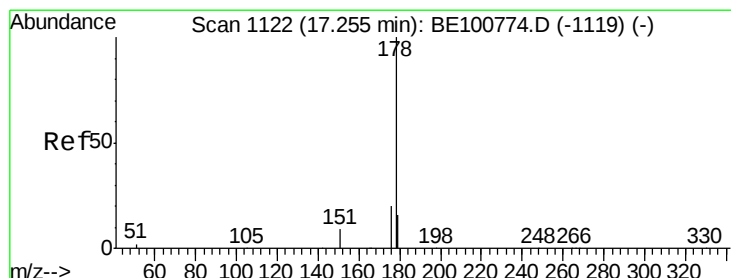
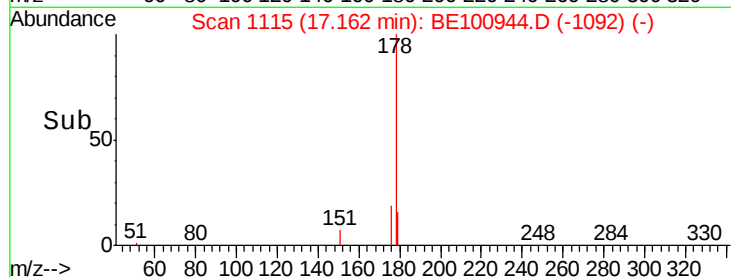
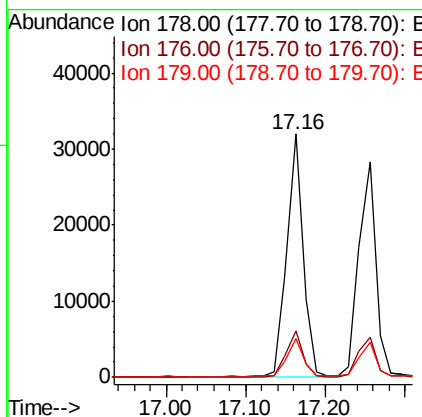
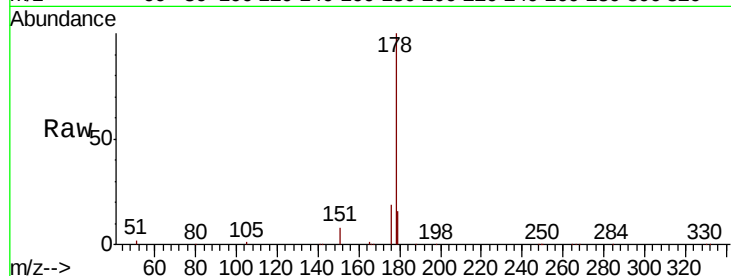
ClientSampleId :

SSTDCCC0.4EC

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 45207     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.3  | 15.6 23.4 |
| 179         | 15.5  | 11.9 17.9 |

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#24

Anthracene

Concen: 0.448 ng

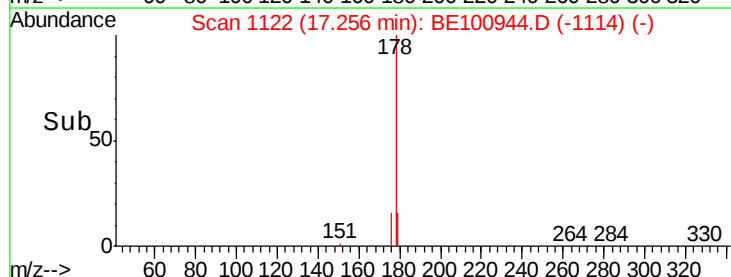
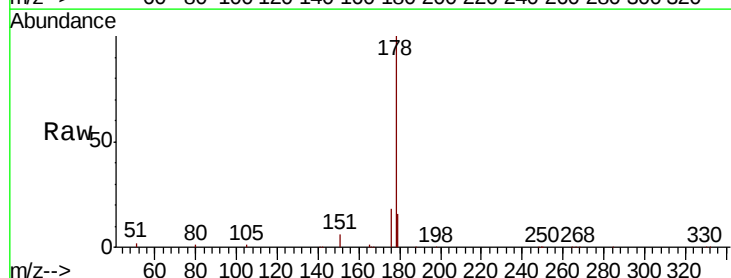
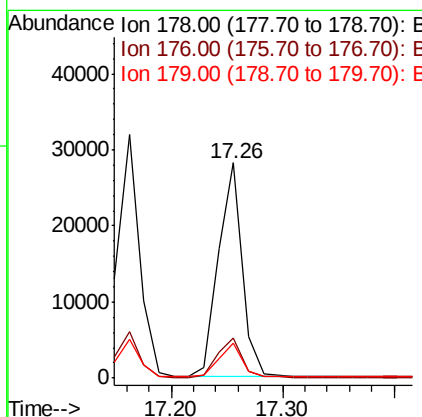
RT: 17.26 min Scan# 1122

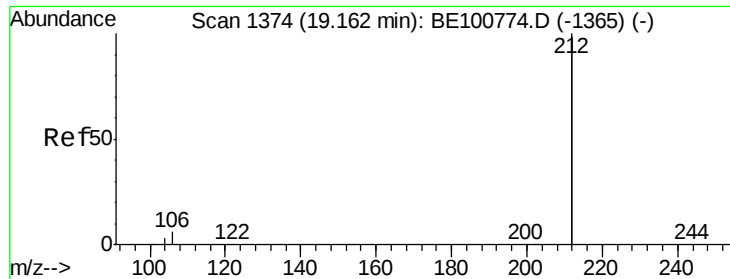
Delta R.T. 0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 41893     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.5  | 14.7 22.1 |
| 179         | 15.6  | 12.2 18.4 |





#25

Fluoranthene-d10

Concen: 0.405 ng

RT: 19.16 min Scan# 1373

Delta R.T. 0.01 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

Instrument :

BNA\_E

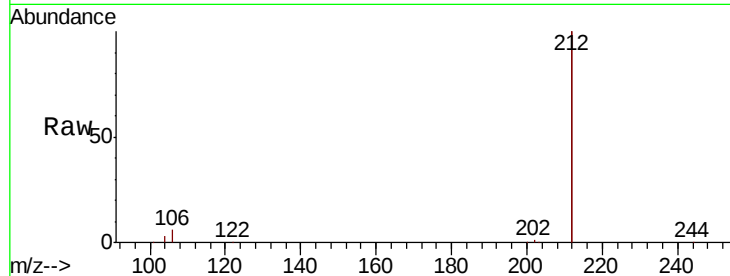
ClientSampleId :

SSTDCCC0.4EC

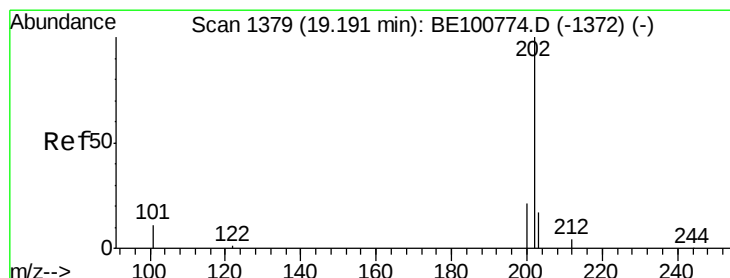
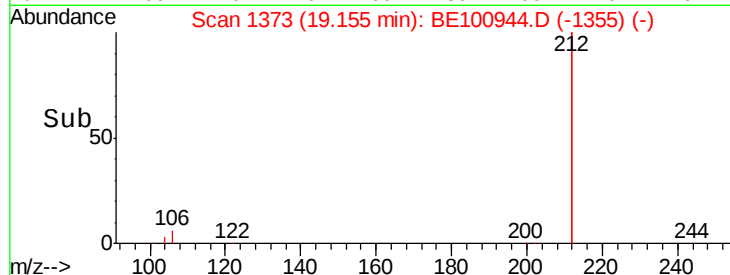
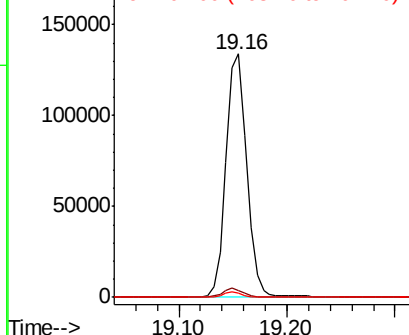
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 212     | 100   | 176413 |       |       |
| 106     | 3.5   | 2.6    | 4.0   |       |
| 104     | 2.0   | 1.4    | 2.2   |       |

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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



#26

Fluoranthene

Concen: 0.395 ng

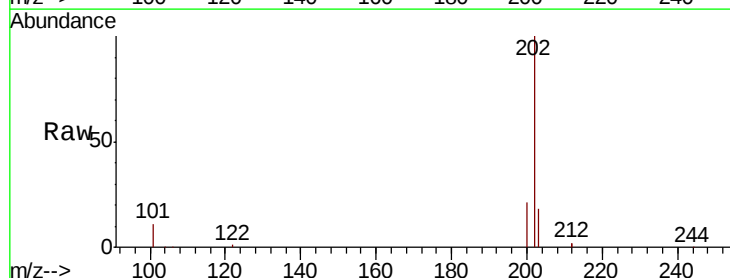
RT: 19.18 min Scan# 1378

Delta R.T. -0.00 min

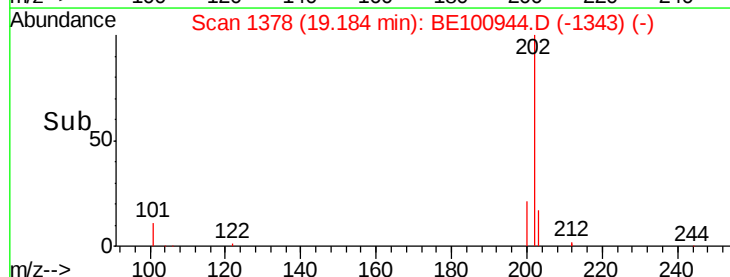
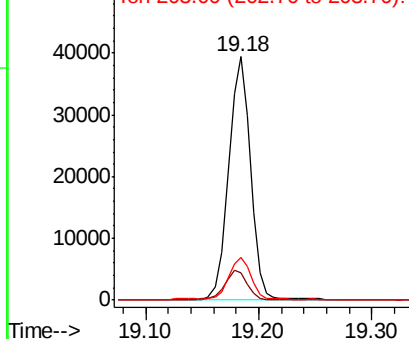
Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 52613 |       |       |
| 101     | 12.3  | 9.4   | 14.0  |       |
| 203     | 17.3  | 13.7  | 20.5  |       |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.29 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

Tot Ion:240 Resp: 34546

Ion Ratio Lower Upper

240 100

120 18.3 4.0 6.0#

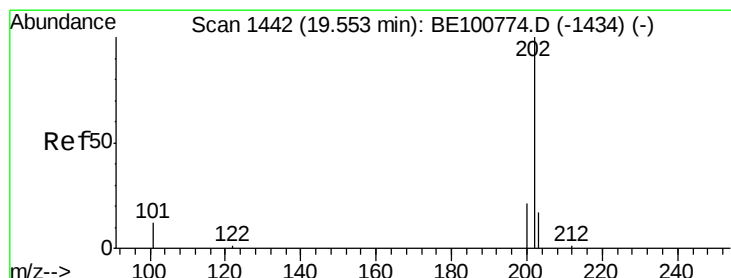
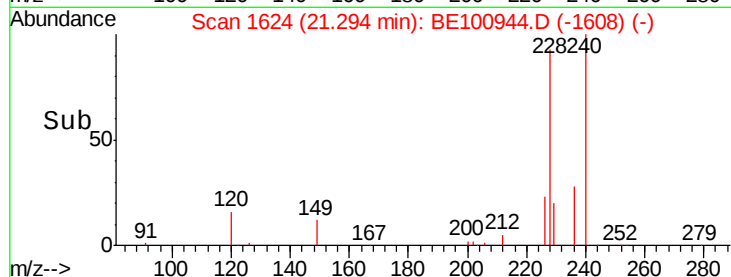
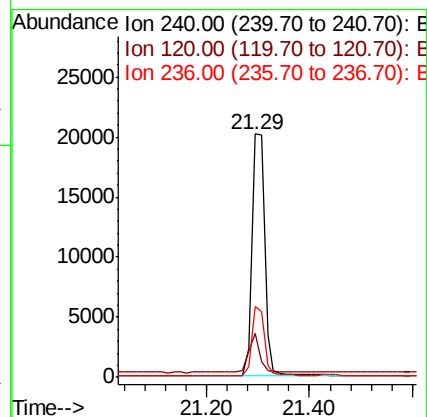
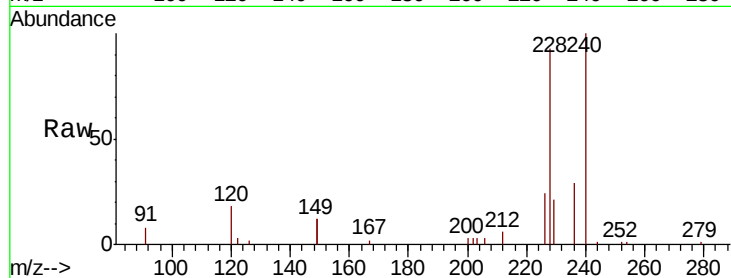
236 29.0 21.6 32.4

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#28

Pyrene

Concen: 0.488 ng

RT: 19.55 min Scan# 1441

Delta R.T. -0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

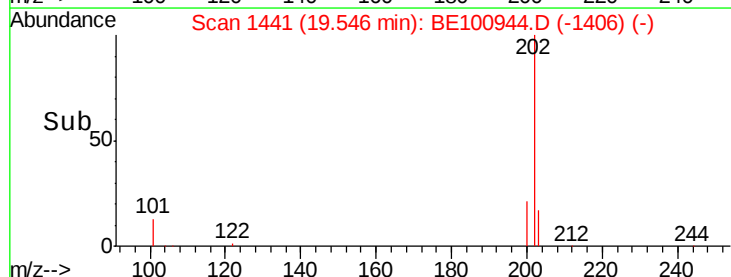
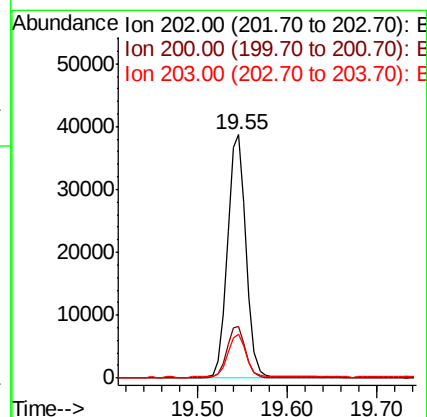
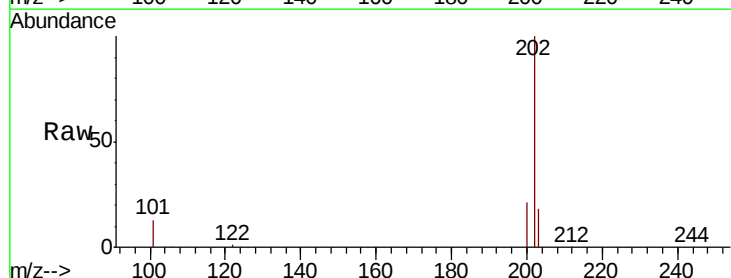
Tgt Ion:202 Resp: 54791

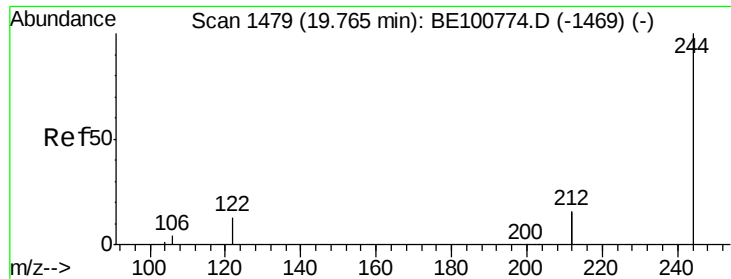
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 13.8 20.8





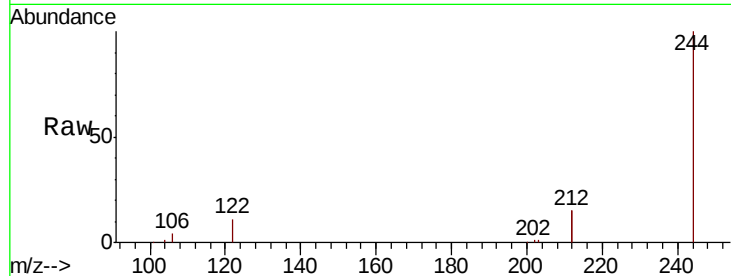
#29  
 Terphenyl-d14  
 Concen: 0.429 ng  
 RT: 19.76 min Scan# 1478  
 Delta R.T. -0.00 min  
 Lab File: BE100944.D  
 Acq: 17 Dec 2019 8:51

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 30.7  | 25.2  | 37.8  |
| 122     | 11.3  | 8.9   | 13.3  |

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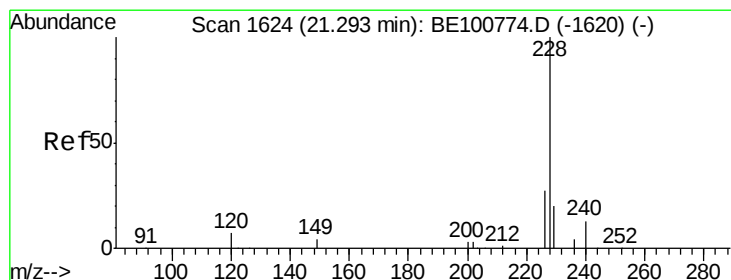
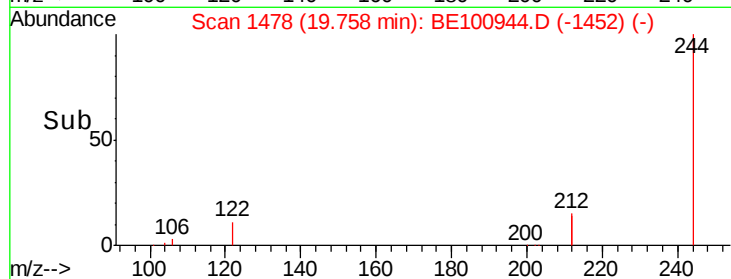
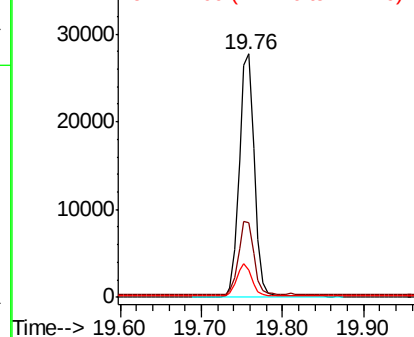


Abundance

Ion 244.00 (243.70 to 244.70): E

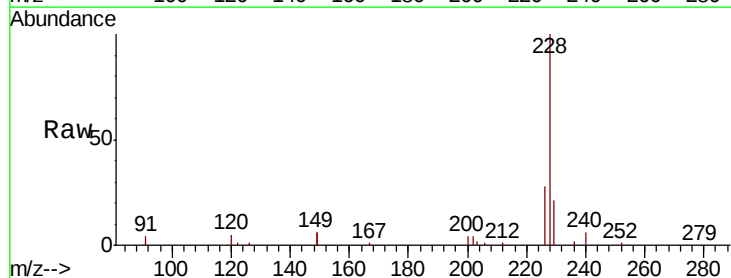
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30  
 Benzo(a)anthracene  
 Concen: 0.516 ng  
 RT: 21.28 min Scan# 1623  
 Delta R.T. 0.00 min  
 Lab File: BE100944.D  
 Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.1  | 21.4  | 32.0  |
| 229     | 20.5  | 15.8  | 23.6  |

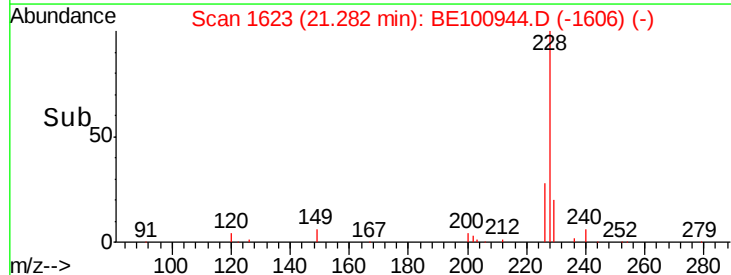
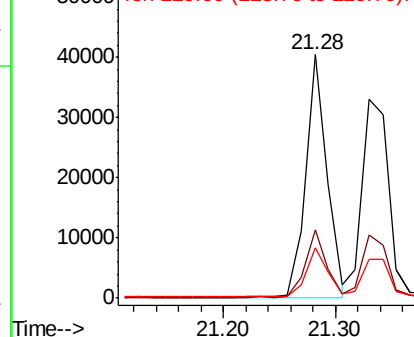


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





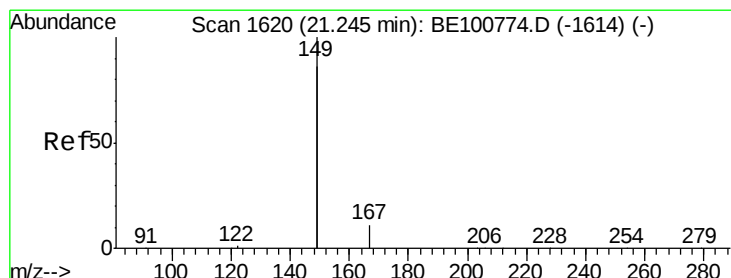
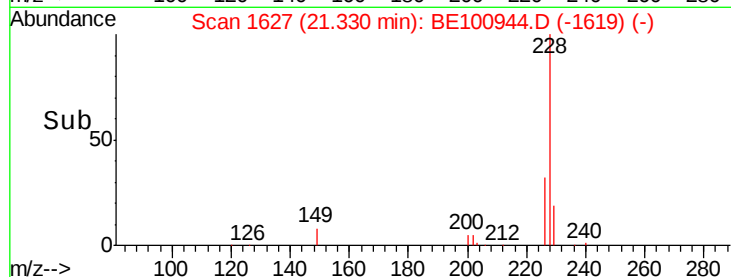
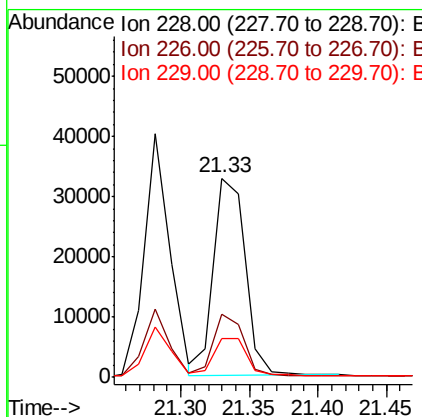
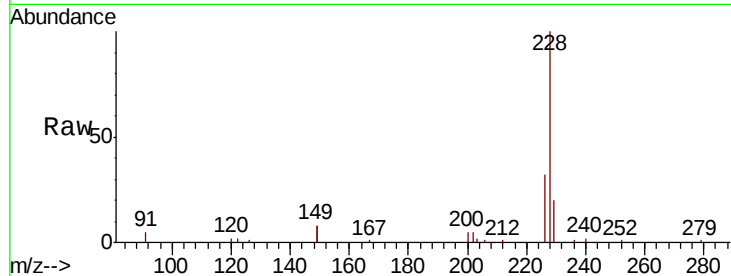
#31  
Chrysene  
Concen: 0.443 ng  
RT: 21.33 min Scan# 1627  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 25.3  | 37.9  |
| 229     | 19.6  | 15.2  | 22.8  |

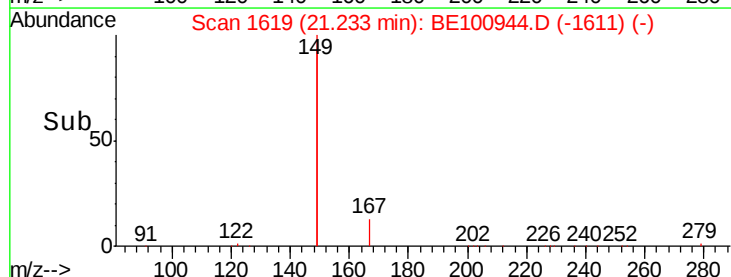
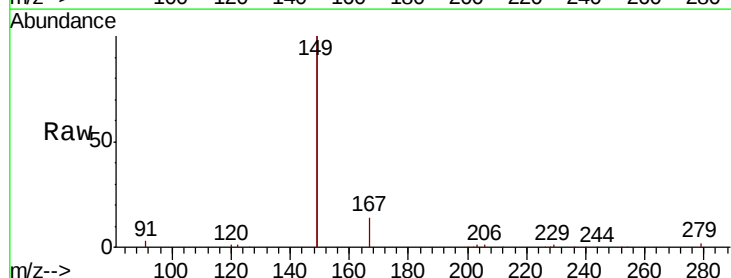
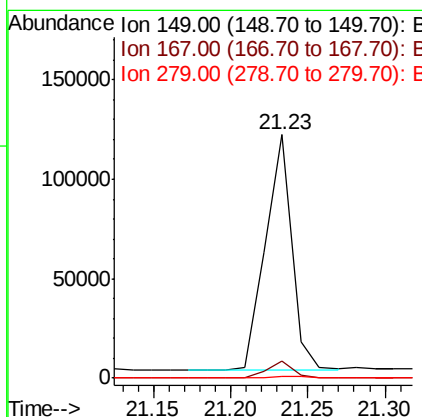
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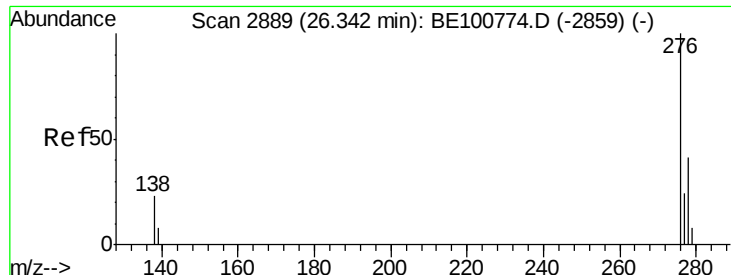
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#32  
Bis(2-ethylhexyl)phthalate  
Concen: 1.574 ng  
RT: 21.23 min Scan# 1619  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 6.6   | 5.0   | 7.4   |
| 279     | 0.8   | 0.6   | 1.0   |





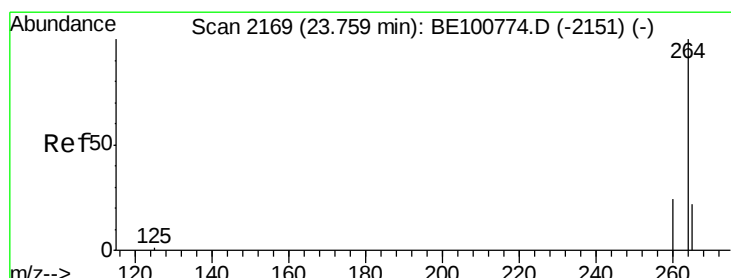
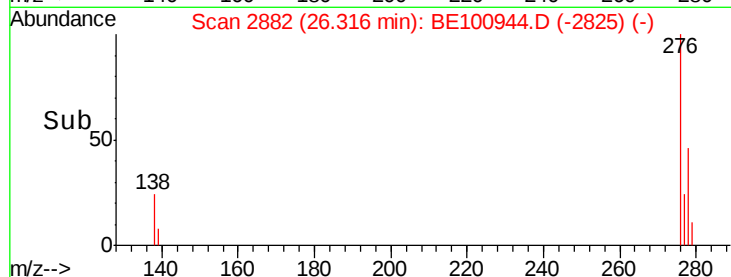
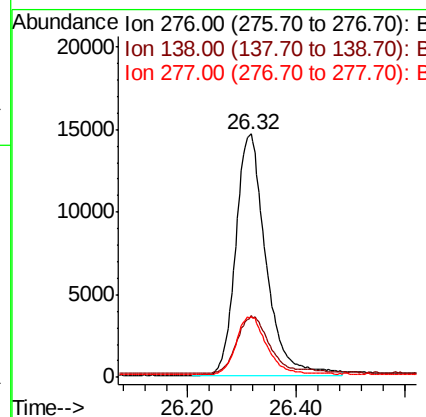
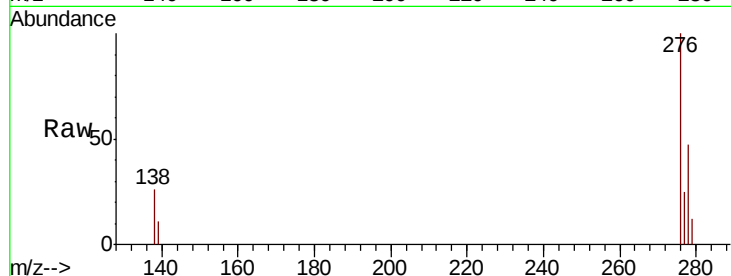
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.543 ng  
RT: 26.32 min Scan# 2882  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.4  | 18.4  | 27.6  |
| 277     | 24.4  | 19.4  | 29.2  |

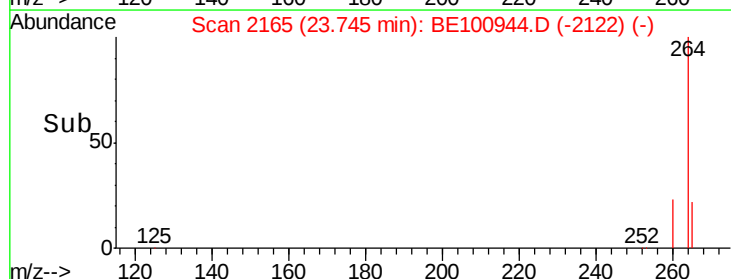
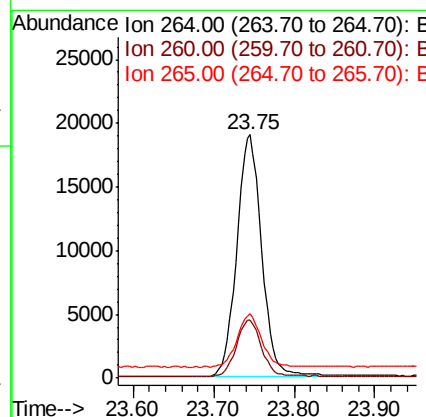
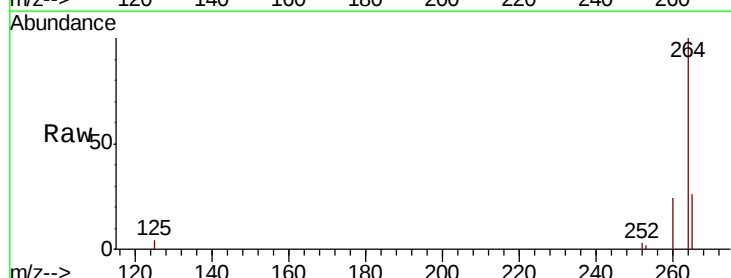
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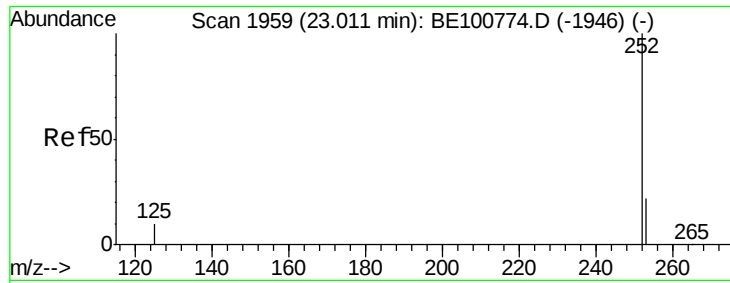
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#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.75 min Scan# 2165  
Delta R.T. 0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.4  | 29.0  |
| 265     | 26.3  | 20.1  | 30.1  |





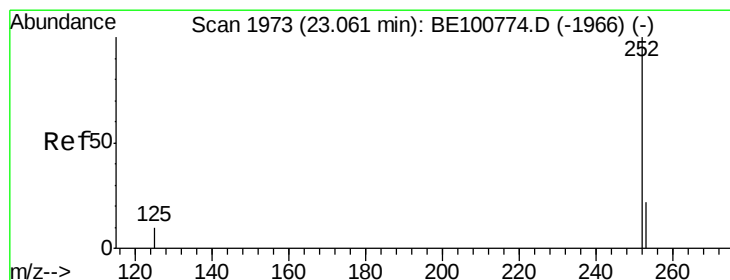
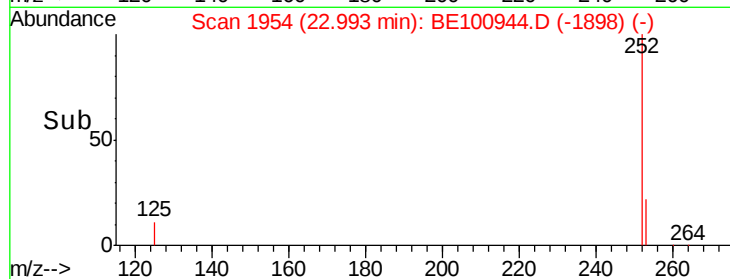
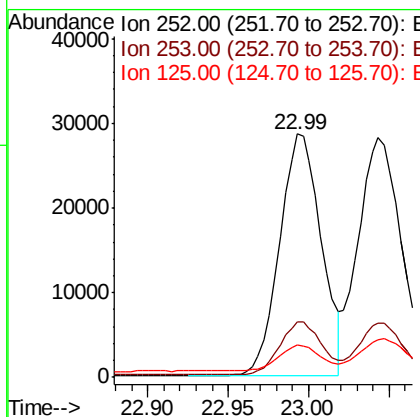
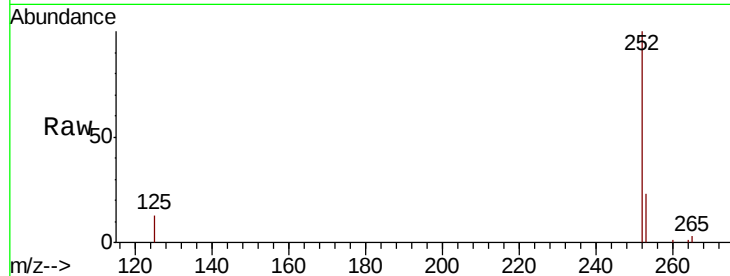
#35  
Benzo(b)fluoranthene  
Concen: 0.457 ng  
RT: 22.99 min Scan# 1954  
Delta R.T. -0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.8  | 26.6  |
| 125     | 13.3  | 8.3   | 12.5# |

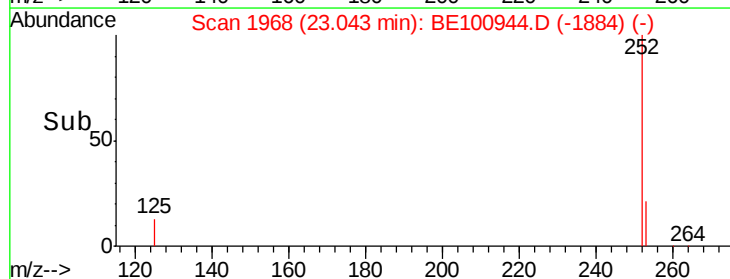
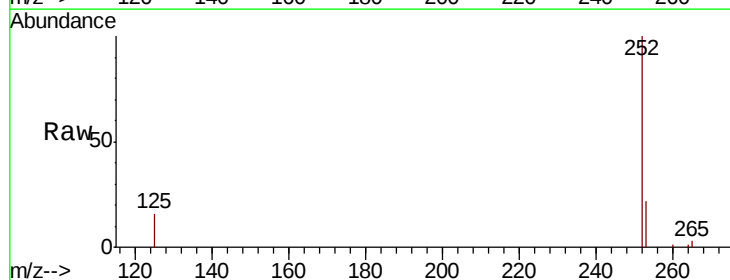
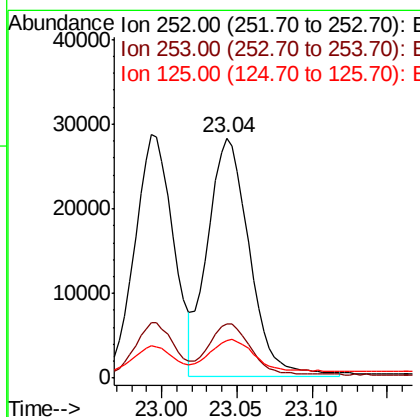
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#36  
Benzo(k)fluoranthene  
Concen: 0.434 ng m  
RT: 23.04 min Scan# 1968  
Delta R.T. -0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.8  | 26.6  |
| 125     | 15.6  | 9.4   | 14.0# |





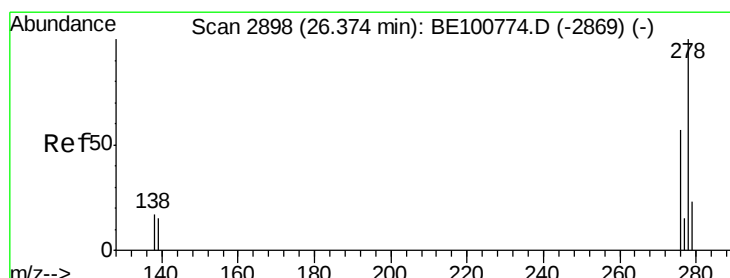
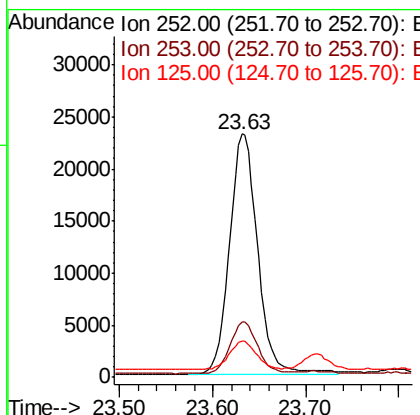
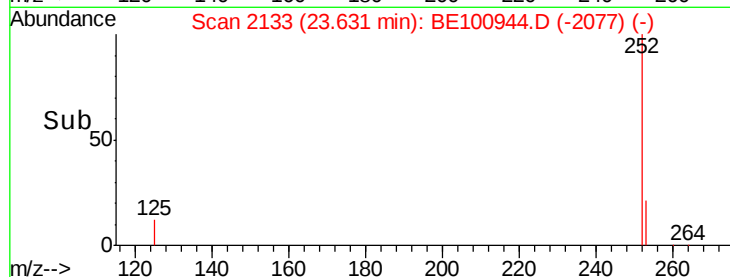
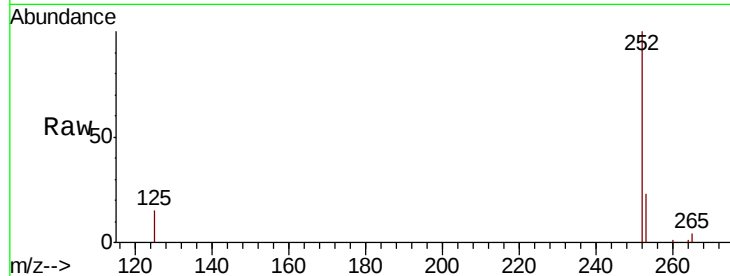
#37  
Benzo(a)pyrene  
Concen: 0.508 ng  
RT: 23.63 min Scan# 2133  
Delta R.T. -0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.8  | 26.8  |
| 125     | 15.0  | 9.9   | 14.9  |

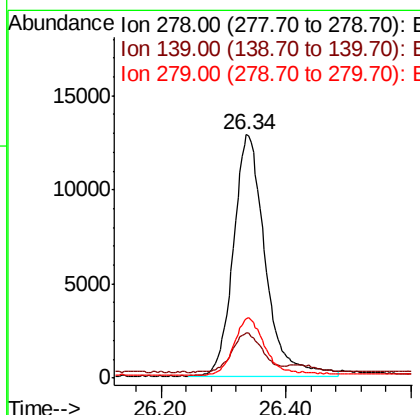
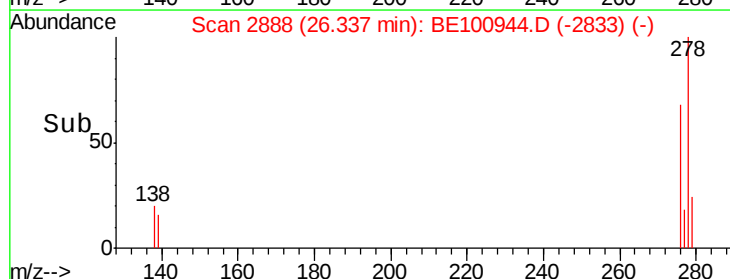
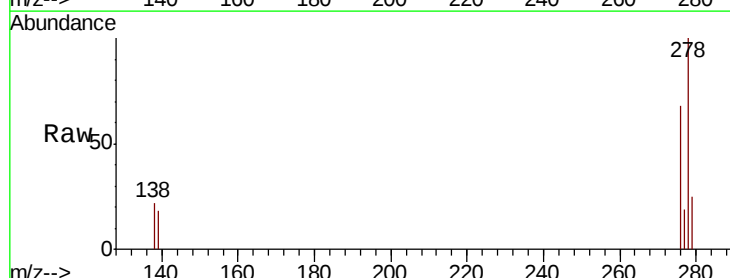
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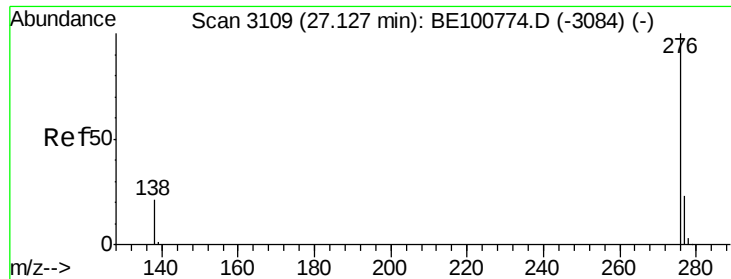
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.473 ng  
RT: 26.34 min Scan# 2888  
Delta R.T. -0.00 min  
Lab File: BE100944.D  
Acq: 17 Dec 2019 8:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.4  | 13.8  | 20.6  |
| 279     | 24.6  | 19.8  | 29.6  |





#39

Benzo(a,h,i)perylene

Concen: 0.461 ng

RT: 27.10 min Scan# 3102

Delta R.T. -0.00 min

Lab File: BE100944.D

Acq: 17 Dec 2019 8:51

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

Tot Ion: 276 Resp: 47243

Ion Ratio Lower Upper

276 100

277 24.9 19.7 29.5

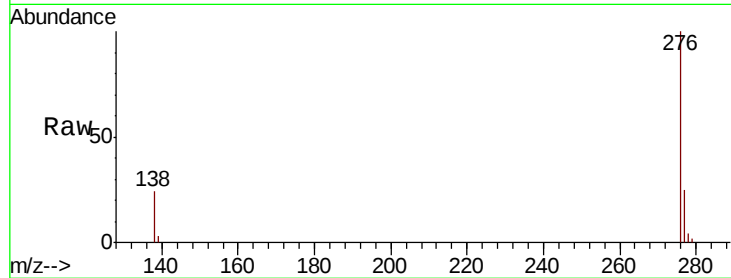
138 23.7 18.0 27.0

Manual Integrations

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

