

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121318\  
 Data File : BE098433.D  
 Acq On : 14 Dec 2018 13:25  
 Operator : SJ/JU  
 Sample : SSTDC00.4  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDC00.4EC

Manual Integrations  
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 12/14/2018 4:22:45 PM

Quant Time: Dec 14 15:38:50 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 14:59:55 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 1484     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.65 | 136  | 6201     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.51 | 164  | 3924     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.27 | 188  | 10398    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.45 | 240  | 12570    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 24.00 | 264  | 12107    | 0.40 | ng    | -0.01    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.45  | 112 | 1468  | 0.42 | ng | 0.00  |
| 5) Phenol-d6                | 7.04  | 99  | 2110  | 0.43 | ng | -0.01 |
| 8) Nitrobenzene-d5          | 9.02  | 82  | 2201  | 0.39 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.25 | 152 | 3757  | 0.37 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 16.02 | 330 | 585   | 0.41 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 13.15 | 172 | 6174  | 0.37 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.30 | 212 | 50884 | 0.38 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.90 | 244 | 9765  | 0.32 | ng | 0.00  |

|                                |       |     |        |        |    |       |
|--------------------------------|-------|-----|--------|--------|----|-------|
| Target Compounds               |       |     |        | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.37  | 88  | 877    | 0.342  | ng | 96    |
| 3) n-Nitrosodimethylamine      | 3.70  | 42  | 790    | 0.342  | ng | # 100 |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93  | 1591   | 0.340  | ng | 91    |
| 9) Naphthalene                 | 10.71 | 128 | 24489  | 0.392  | ng | 100   |
| 10) Hexachlorobutadiene        | 10.99 | 225 | 1673   | 0.421  | ng | 98    |
| 12) 2-Methylnaphthalene        | 12.33 | 142 | 3815   | 0.376  | ng | 95    |
| 16) Acenaphthylene             | 14.24 | 152 | 7004   | 0.381  | ng | 99    |
| 17) Acenaphthene               | 14.59 | 154 | 4249   | 0.385  | ng | 97    |
| 18) Fluorene                   | 15.57 | 166 | 5641   | 0.382  | ng | 99    |
| 20) 4-Bromophenyl-phenylether  | 16.46 | 248 | 2058   | 0.368  | ng | # 78  |
| 21) Hexachlorobenzene          | 16.57 | 284 | 2370   | 0.394  | ng | 95    |
| 22) Pentachlorophenol          | 16.94 | 266 | 485    | 0.486  | ng | 98    |
| 23) Phenanthrene               | 17.31 | 178 | 9675   | 0.383  | ng | 99    |
| 24) Anthracene                 | 17.41 | 178 | 8064   | 0.358  | ng | 99    |
| 26) Fluoranthene               | 19.33 | 202 | 13020  | 0.389  | ng | 99    |
| 28) Pyrene                     | 19.69 | 202 | 13559  | 0.344  | ng | 100   |
| 30) Benzo(a)anthracene         | 21.44 | 228 | 12574  | 0.351  | ng | 100   |
| 31) Chrysene                   | 21.50 | 228 | 14475  | 0.386  | ng | 100   |
| 32) Bis(2-ethylhexyl)phthalate | 21.35 | 149 | 24439  | 0.336  | ng | 100   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.68 | 276 | 14737  | 0.395  | ng | 97    |
| 35) Benzo(b)fluoranthene       | 23.22 | 252 | 12714m | 0.384  | ng |       |
| 36) Benzo(k)fluoranthene       | 23.27 | 252 | 15782  | 0.409  | ng | 98    |
| 37) Benzo(a)pyrene             | 23.88 | 252 | 13310  | 0.390  | ng | # 95  |
| 38) Dibenzo(a,h)anthracene     | 26.71 | 278 | 12271  | 0.381  | ng | # 92  |
| 39) Benzo(g,h,i)perylene       | 27.50 | 276 | 12308  | 0.380  | ng | 98    |

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

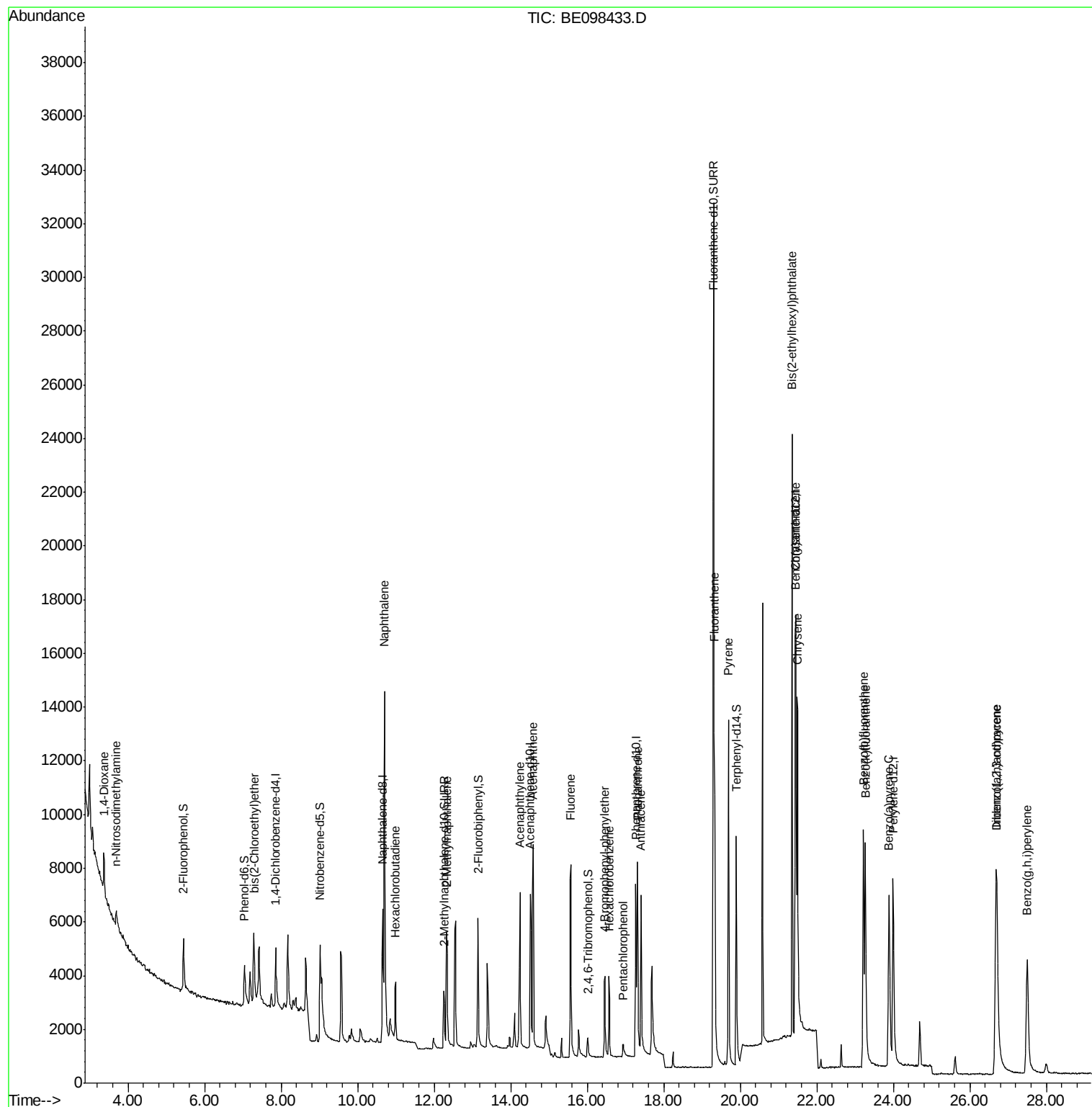
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121318\  
Data File : BE098433.D  
Acq On : 14 Dec 2018 13:25  
Operator : SJ/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

Manual Integrations  
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Quant Time: Dec 14 15:38:50 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 10 14:59:55 2018  
Response via : Initial Calibration





#1

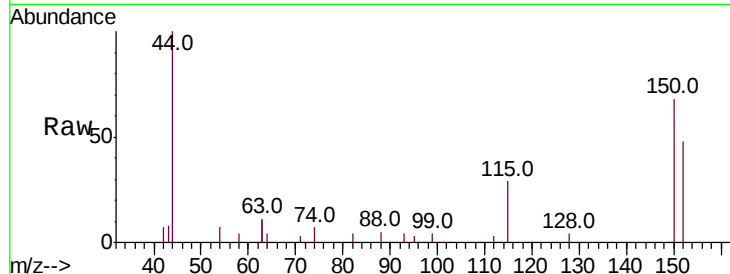
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

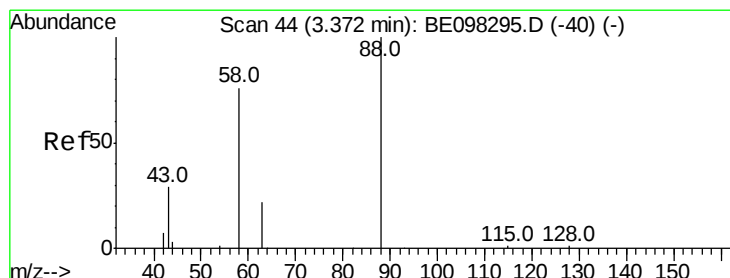
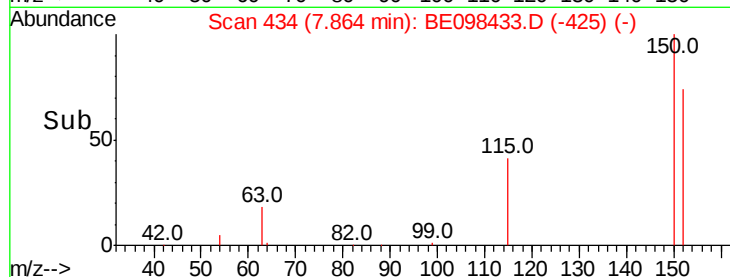
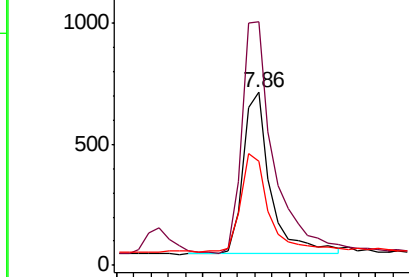
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 141.1 | 124.2 | 186.4 |
| 115     | 60.2  | 53.9  | 80.9  |

Manual Integrations  
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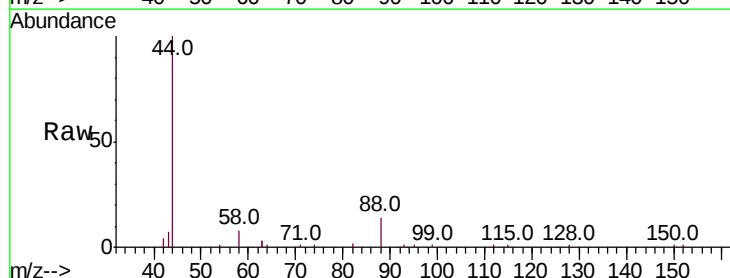
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



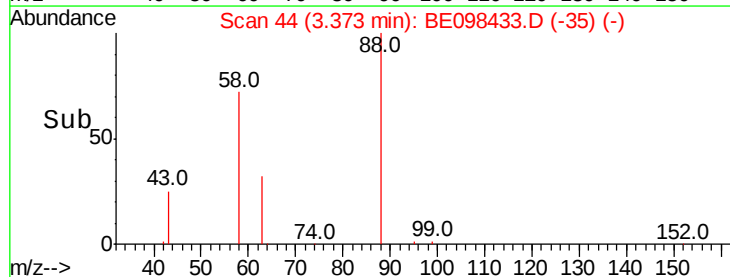
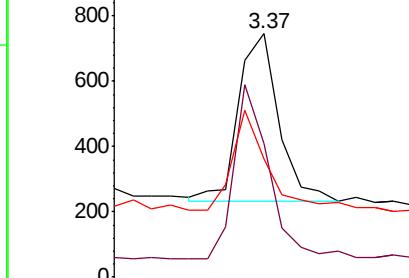
#2

1,4-Dioxane  
Concen: 0.342 ng  
RT: 3.37 min Scan# 44  
Delta R.T. 0.00 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 90.6  | 75.0  | 112.6 |
| 43      | 52.5  | 38.3  | 57.5  |



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0





#3

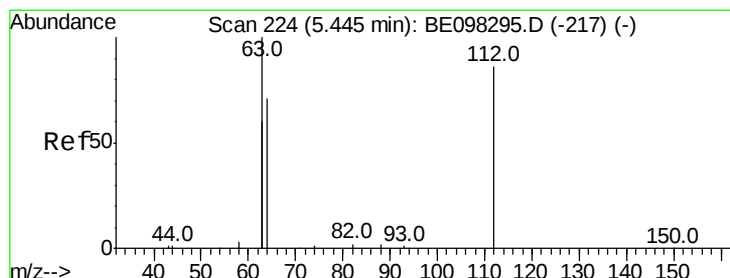
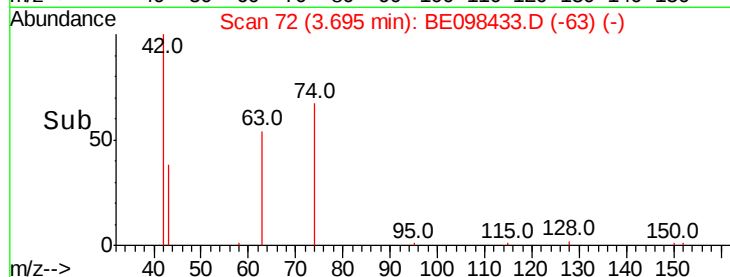
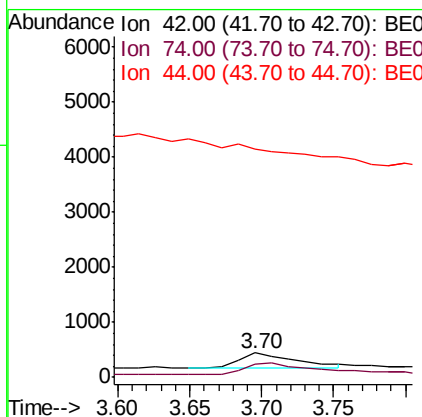
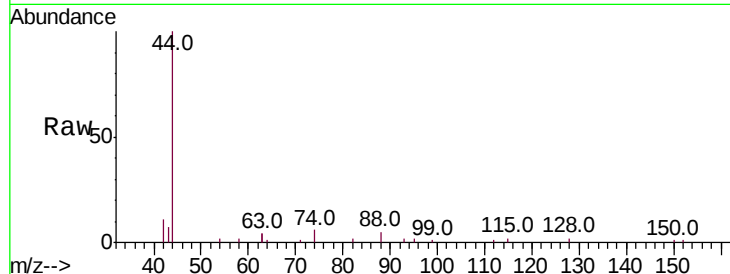
n-Nitrosodimethylamine  
 Concen: 0.342 ng  
 RT: 3.70 min Scan# 72  
 Delta R.T. 0.00 min  
 Lab File: BE098433.D  
 Acq: 14 Dec 2018 13:25

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 72.0  | 0.0   | 0.0#  |
| 44      | 0.0   | 0.0   | 0.0   |

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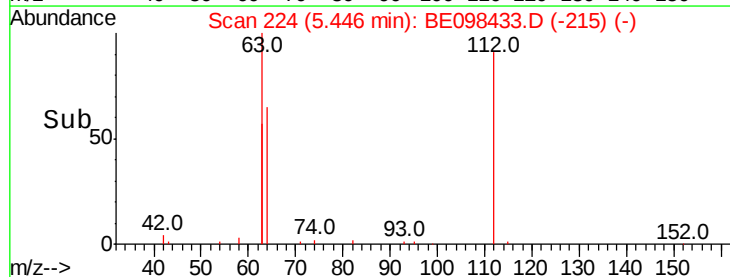
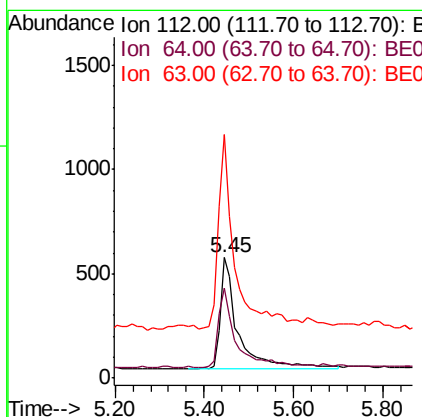
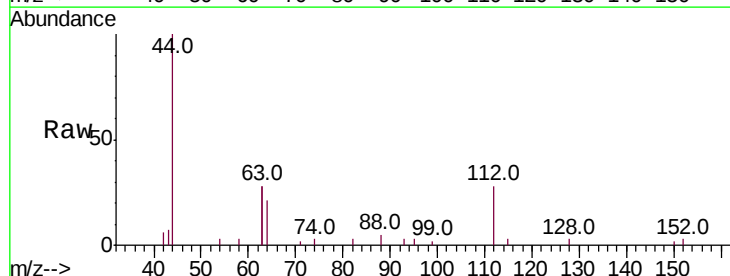
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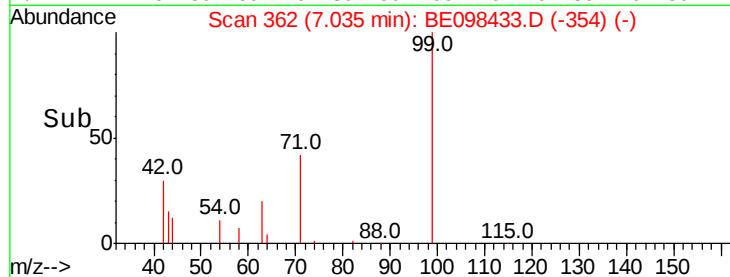
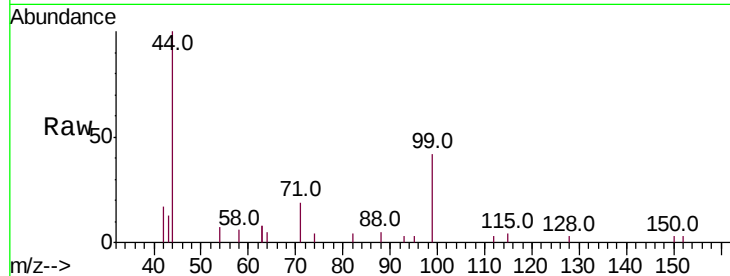
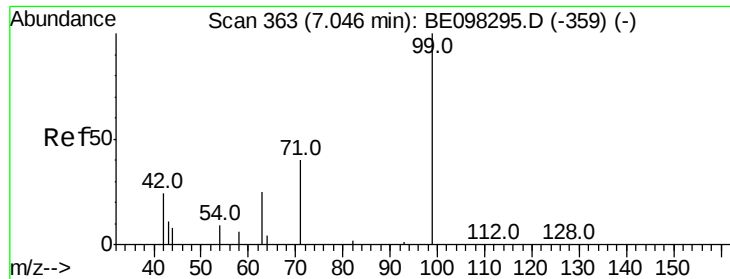


#4

2-Fluorophenol  
 Concen: 0.423 ng  
 RT: 5.45 min Scan# 224  
 Delta R.T. 0.00 min  
 Lab File: BE098433.D  
 Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.3  | 59.8  | 89.8  |
| 63      | 161.7 | 133.7 | 200.5 |





#5

Phenol-d6

Concen: 0.429 ng

RT: 7.04 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 2110  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 26.5  | 26.3  | 39.5  |
| 71       | 37.7  | 33.6  | 50.4  |

Instrument :

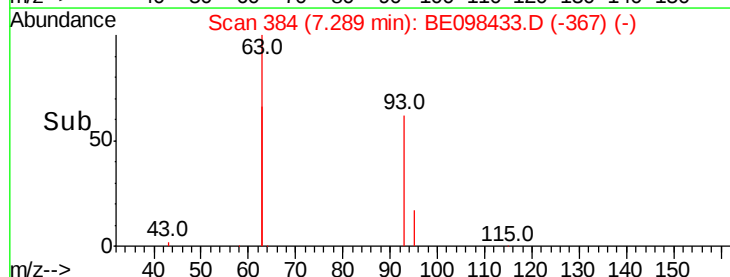
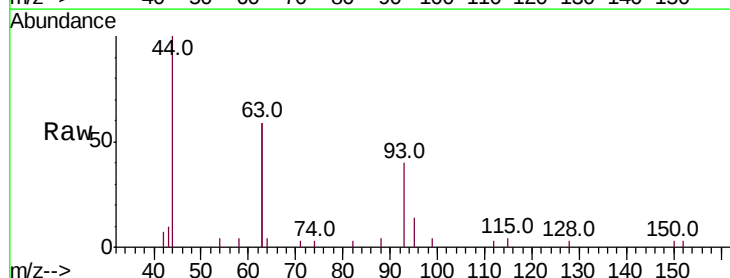
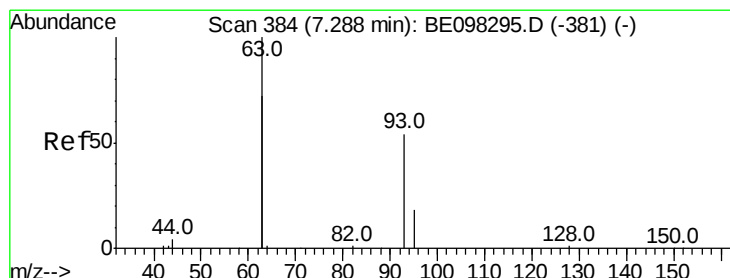
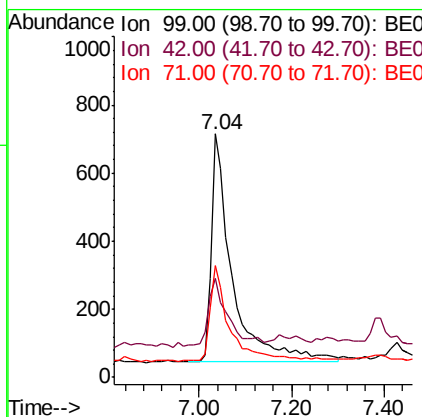
BNA\_E

ClientSampleId :

SSTDCCC0.4EC

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#6

bis(2-Chloroethyl)ether

Concen: 0.340 ng

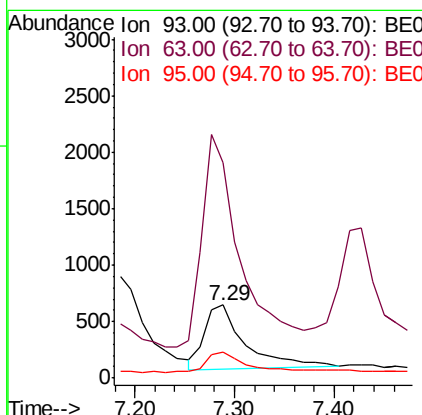
RT: 7.29 min Scan# 384

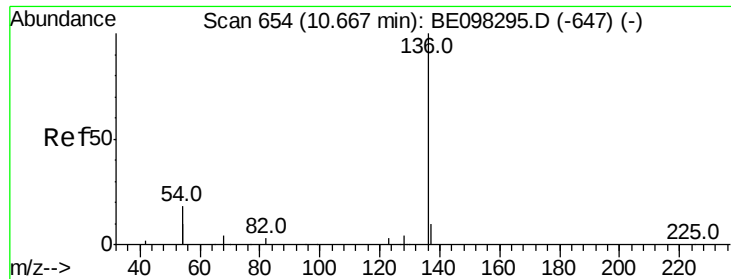
Delta R.T. 0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1591  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 312.3 | 264.4 | 396.6 |
| 95       | 29.7  | 26.6  | 40.0  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

Instrument :

BNA\_E

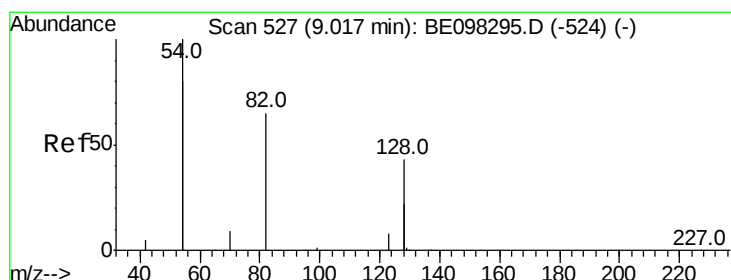
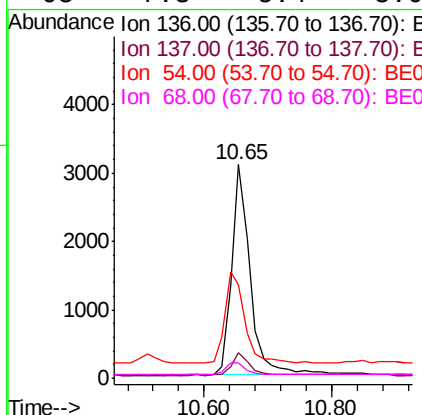
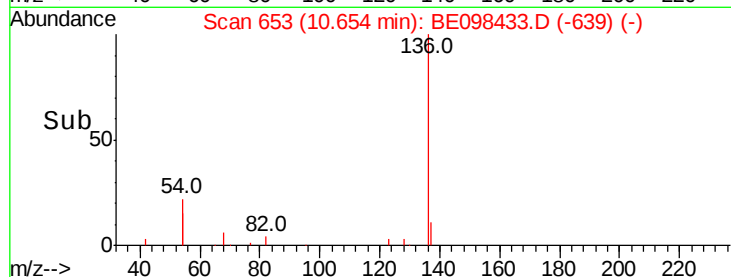
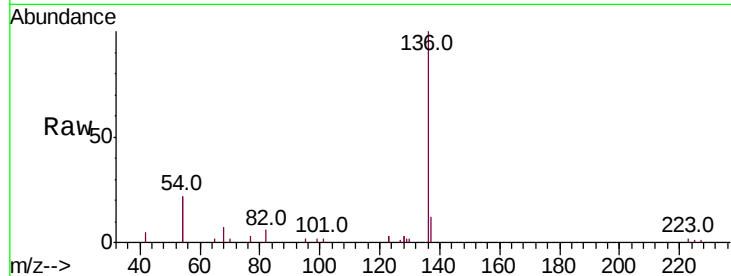
ClientSampleId :

SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.1  | 9.2   | 13.8  |
| 54      | 43.6  | 28.4  | 42.6  |
| 68      | 7.3   | 5.4   | 8.0   |

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#8

Nitrobenzene-d5

Concen: 0.390 ng

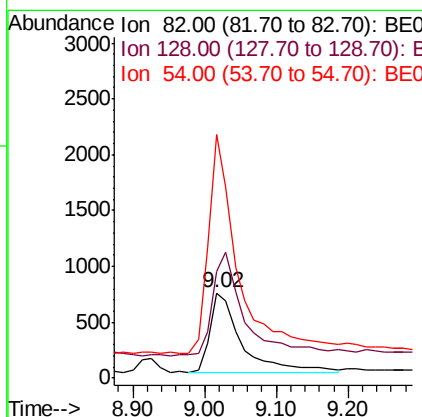
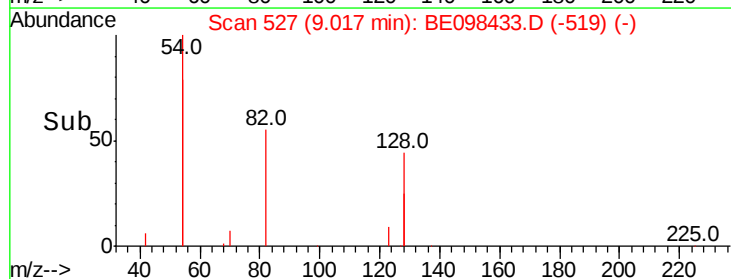
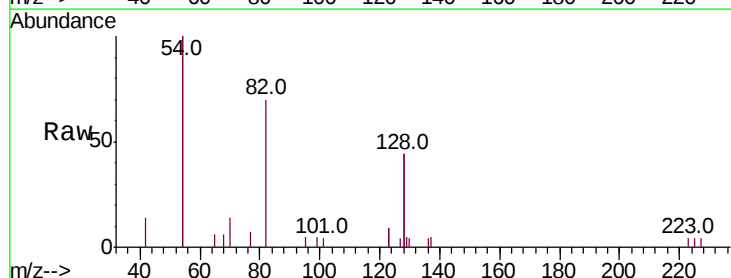
RT: 9.02 min Scan# 527

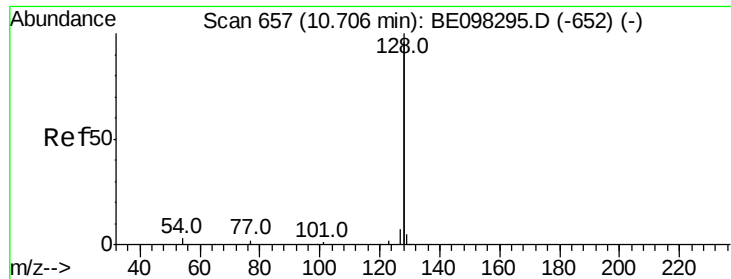
Delta R.T. 0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 125.4 | 102.4 | 153.6 |
| 54      | 286.5 | 221.8 | 332.8 |





#9

Naphthalene

Concen: 0.392 ng

RT: 10.71 min Scan# 657

Delta R.T. 0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

Instrument :

BNA\_E

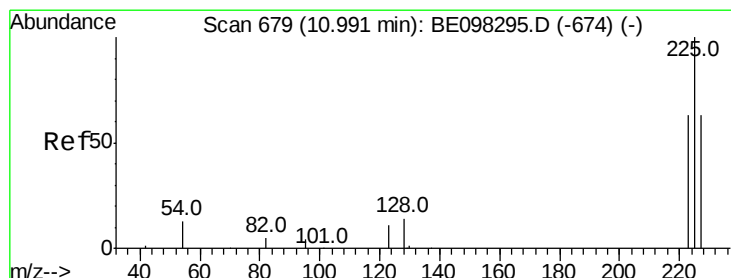
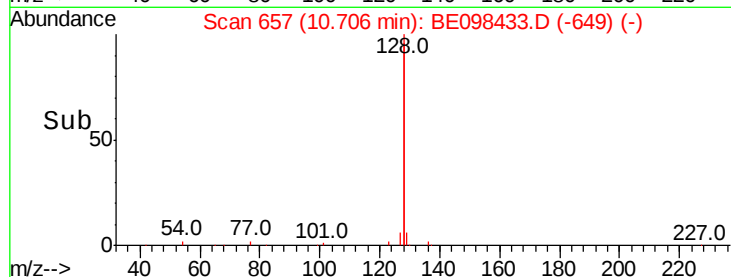
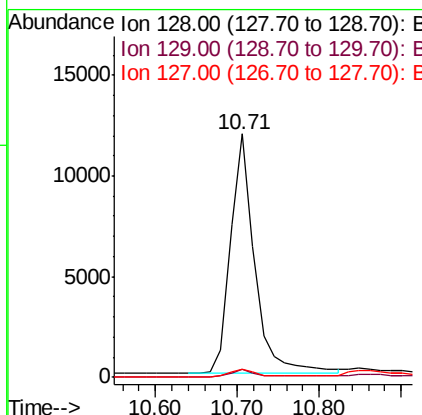
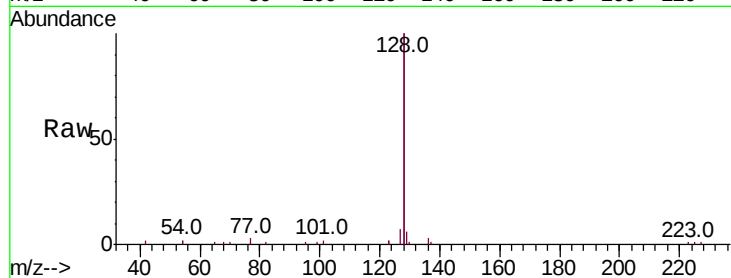
ClientSampleId :

SSTDCCC0.4EC

|             |       |       |
|-------------|-------|-------|
| Tot Ion:128 | Resp: | 24489 |
| Ion Ratio   | Lower | Upper |
| 128 100     |       |       |
| 129 3.2     | 2.5   | 3.7   |
| 127 3.4     | 2.7   | 4.1   |

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#10

Hexachlorobutadiene

Concen: 0.421 ng

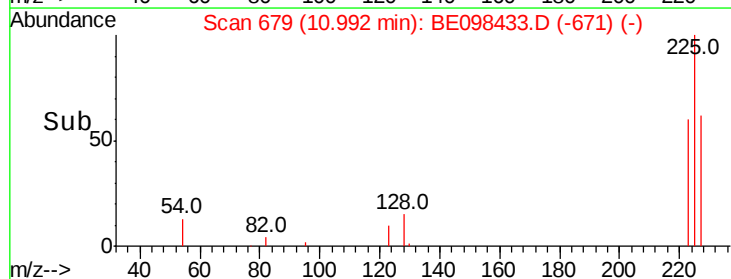
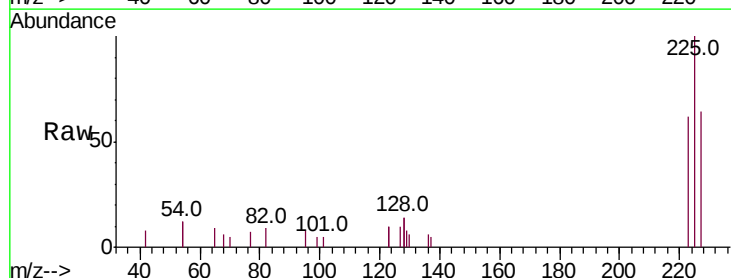
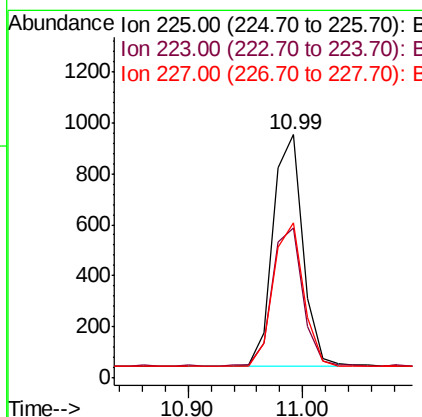
RT: 10.99 min Scan# 679

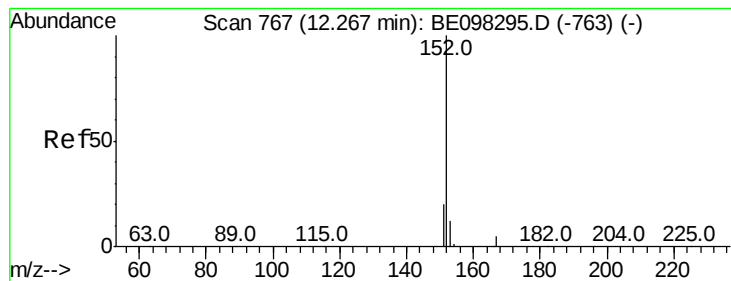
Delta R.T. 0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:225 | Resp: | 1673  |
| Ion Ratio   | Lower | Upper |
| 225 100     |       |       |
| 223 61.6    | 49.4  | 74.0  |
| 227 62.8    | 52.0  | 78.0  |





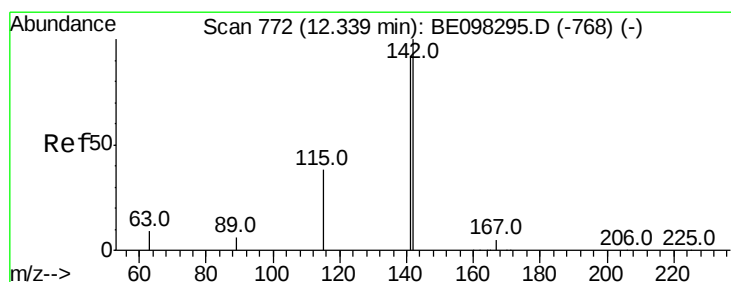
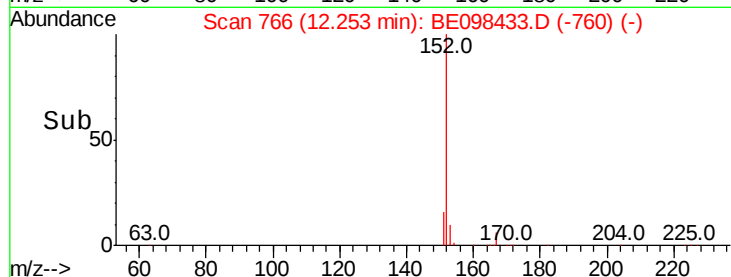
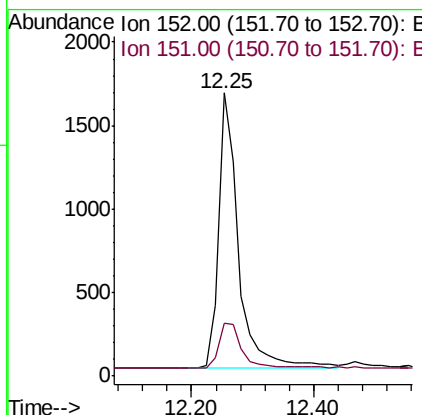
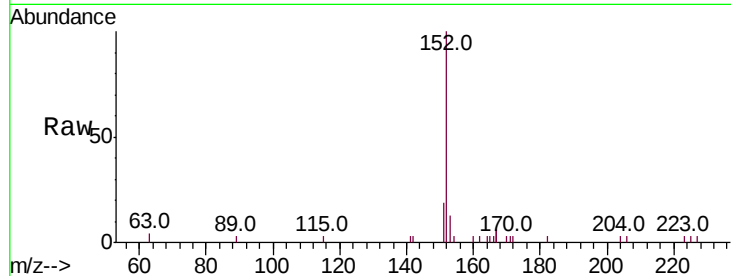
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.373 ng  
 RT: 12.25 min Scan# 766  
 Delta R.T. -0.01 min  
 Lab File: BE098433.D  
 Acq: 14 Dec 2018 13:25

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 16.2  | 24.4  |

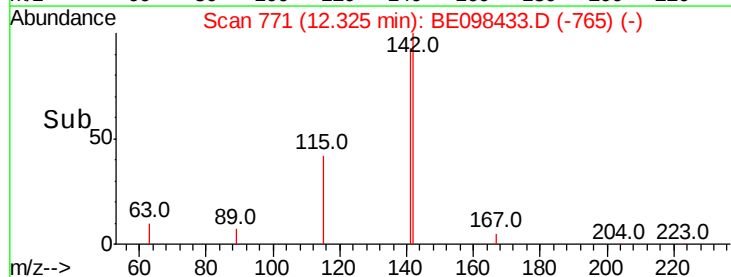
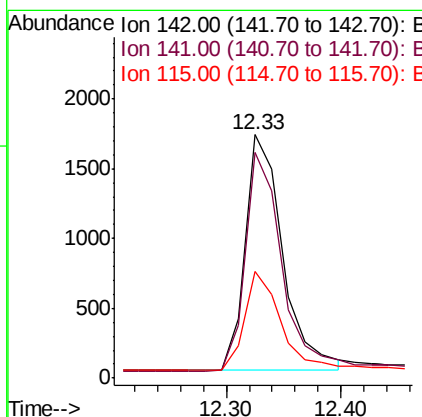
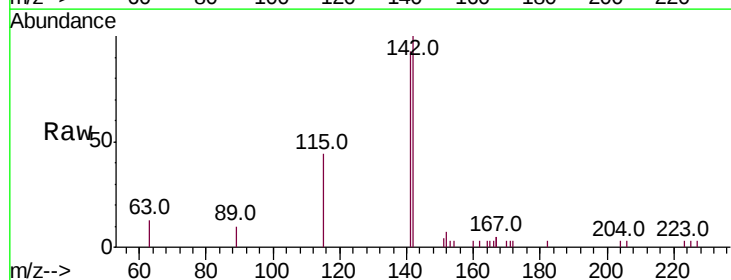
Manual Integrations  
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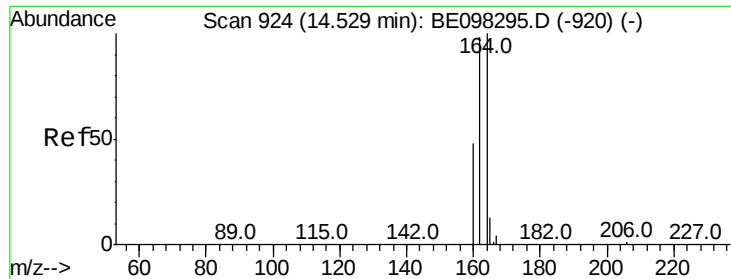
Sohil  
 12/14/2018 4:22:45 PM



#12  
 2-Methylnaphthalene  
 Concen: 0.376 ng  
 RT: 12.33 min Scan# 771  
 Delta R.T. -0.01 min  
 Lab File: BE098433.D  
 Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.8  | 71.0  | 106.6 |
| 115     | 43.9  | 32.2  | 48.2  |





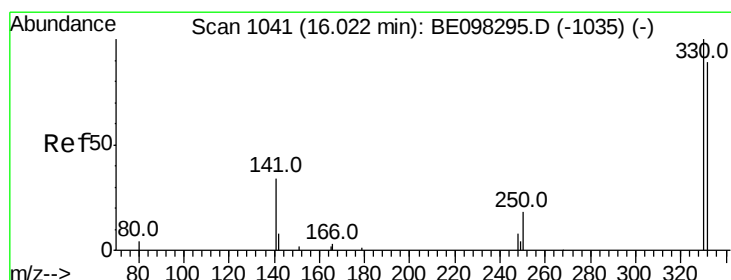
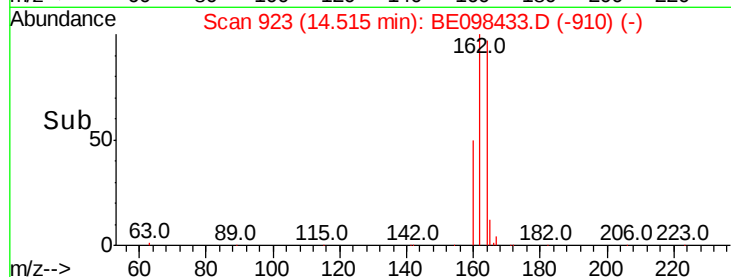
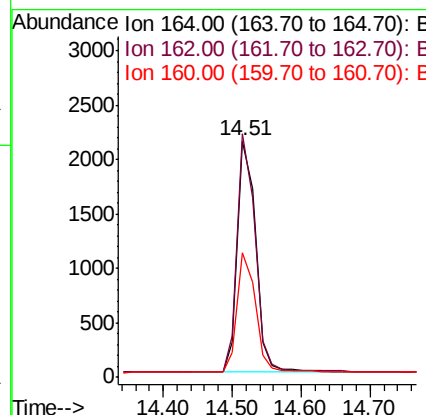
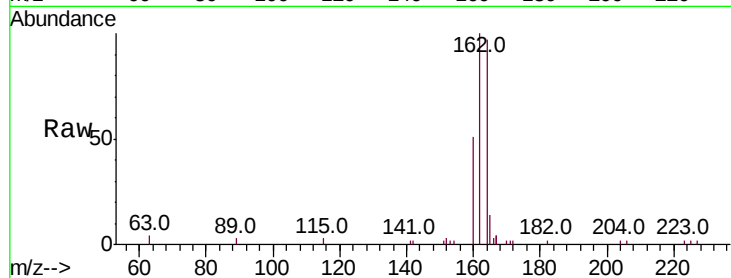
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.51 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.1 | 77.6  | 116.4 |
| 160     | 52.7  | 36.0  | 54.0  |

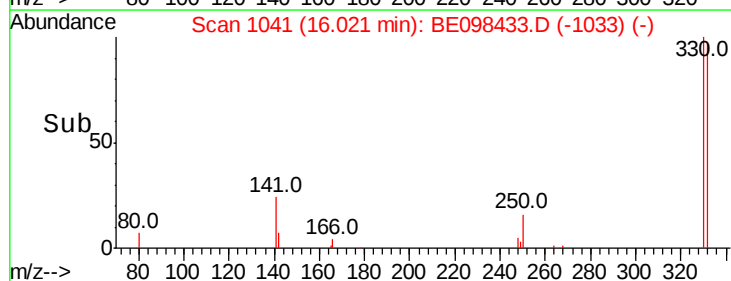
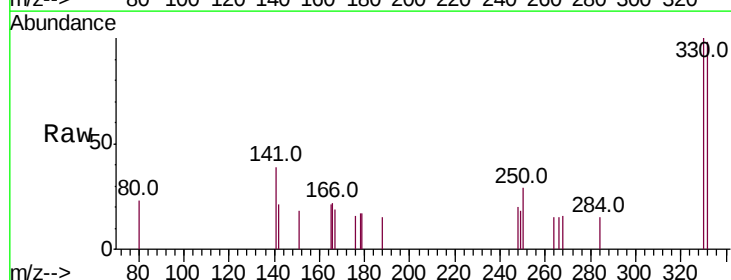
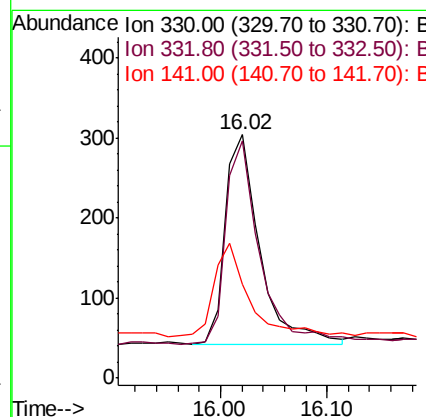
Manual Integrations  
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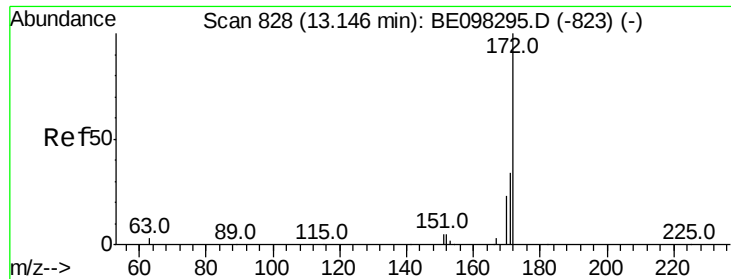
Sohil  
12/14/2018 4:22:45 PM



#14  
2,4,6-Tribromophenol  
Concen: 0.406 ng  
RT: 16.02 min Scan# 1041  
Delta R.T. -0.00 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.6  | 76.2  | 114.4 |
| 141     | 47.2  | 39.0  | 58.4  |





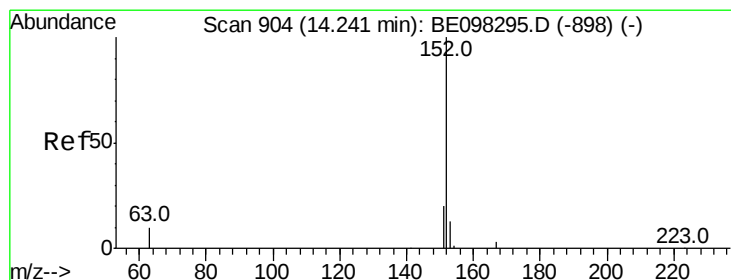
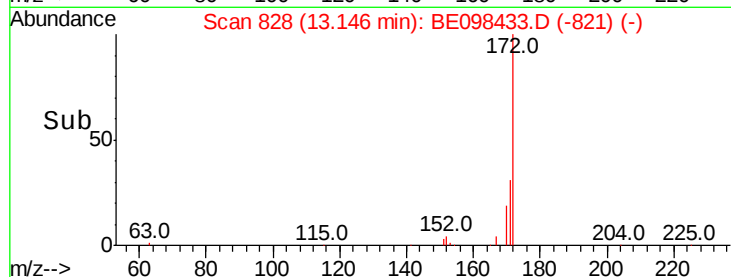
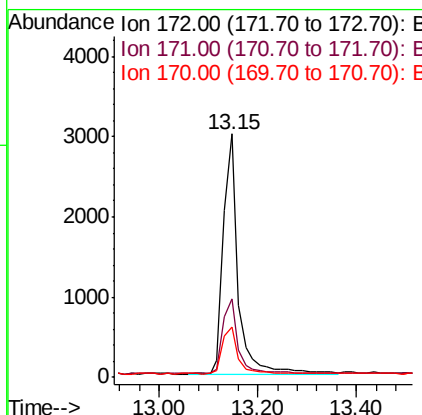
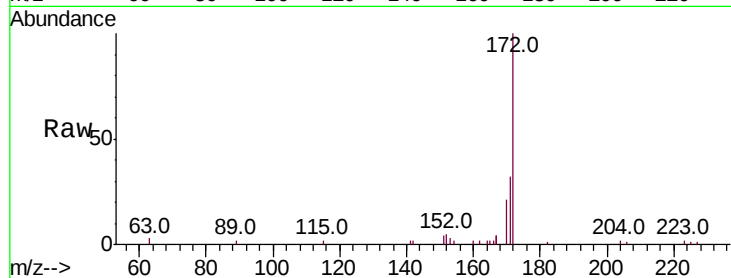
#15  
2-Fluorobiphenyl  
Concen: 0.373 ng  
RT: 13.15 min Scan# 828  
Delta R.T. 0.00 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 32.5  | 27.5  | 41.3  |
| 170     | 20.8  | 19.6  | 29.4  |

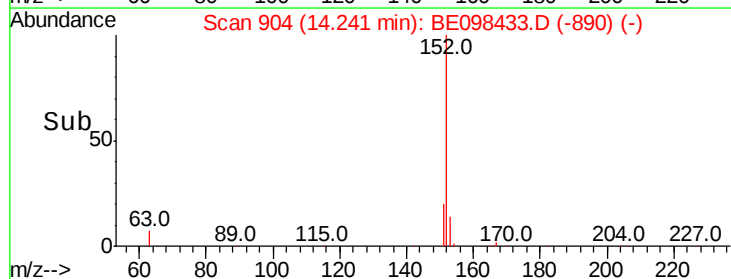
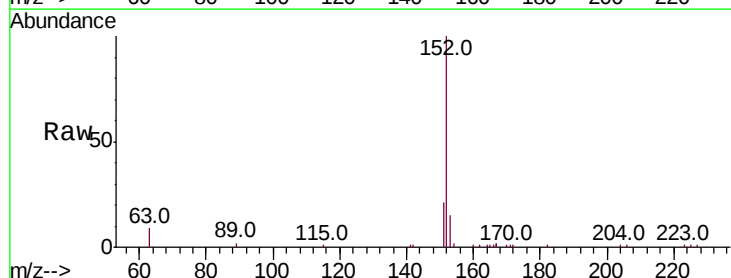
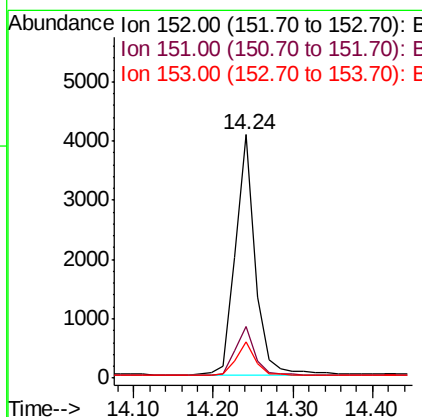
Manual Integrations  
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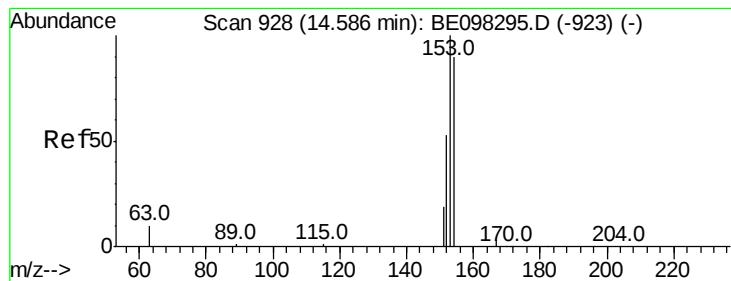
Sohil  
12/14/2018 4:22:45 PM



#16  
Acenaphthylene  
Concen: 0.381 ng  
RT: 14.24 min Scan# 904  
Delta R.T. 0.00 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.3  | 15.5  | 23.3  |
| 153     | 13.4  | 10.6  | 16.0  |





#17

Acenaphthene

Concen: 0.385 ng

RT: 14.59 min Scan# 928

Delta R.T. 0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

Instrument :

BNA\_E

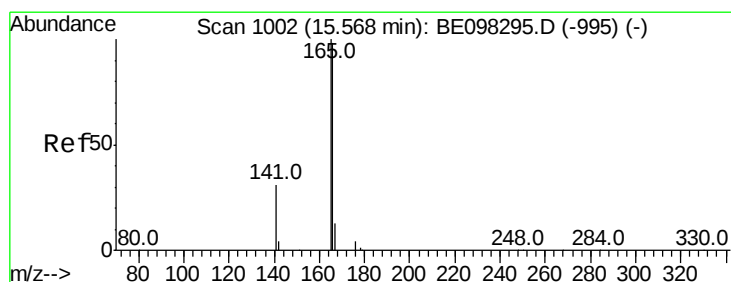
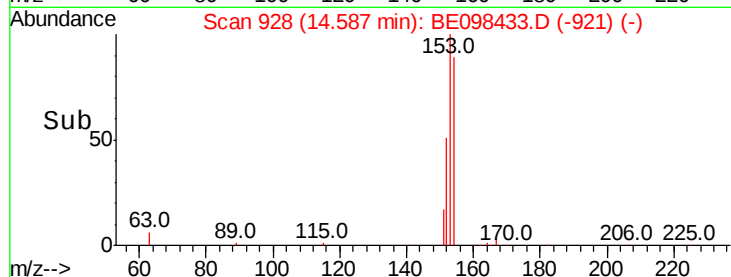
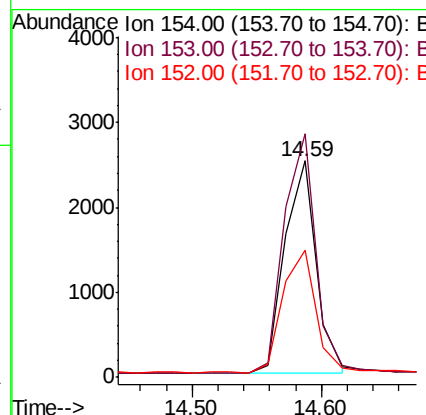
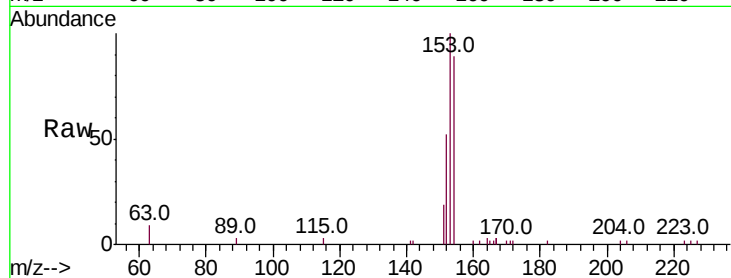
ClientSampleId :

SSTDCCC0.4EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 4249  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 112.9 | 91.8  | 137.6 |
| 152      | 60.7  | 45.5  | 68.3  |

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#18

Fluorene

Concen: 0.382 ng

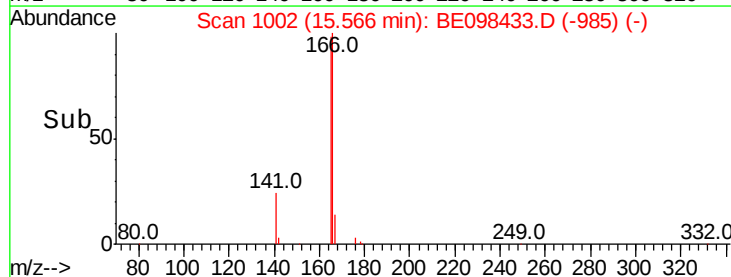
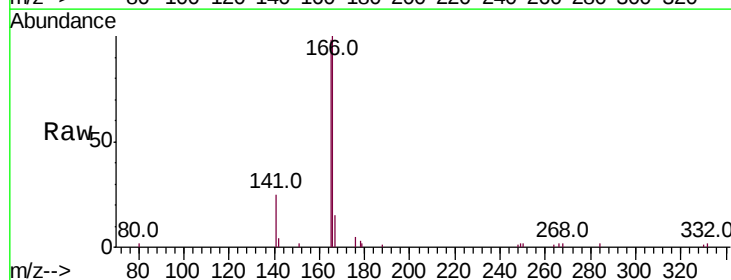
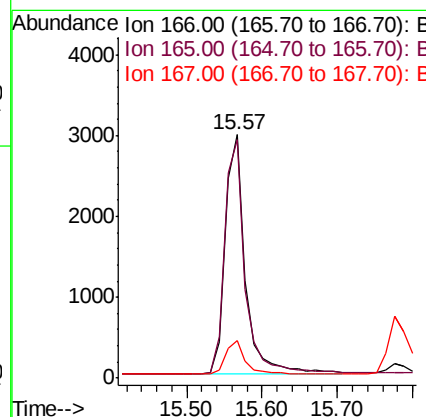
RT: 15.57 min Scan# 1002

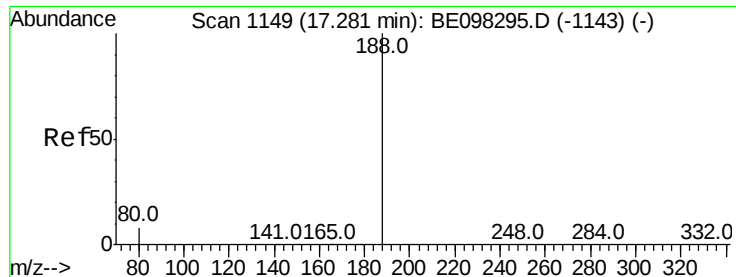
Delta R.T. -0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 5641  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 99.7  | 79.3  | 118.9 |
| 167      | 14.1  | 11.3  | 16.9  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

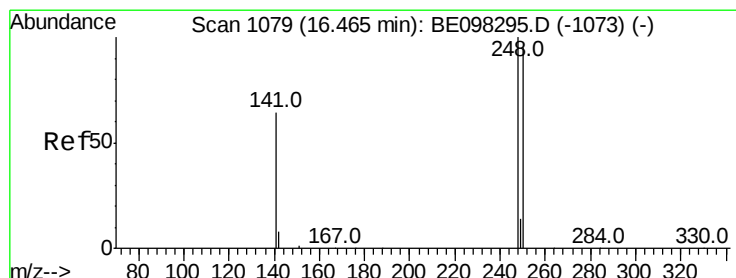
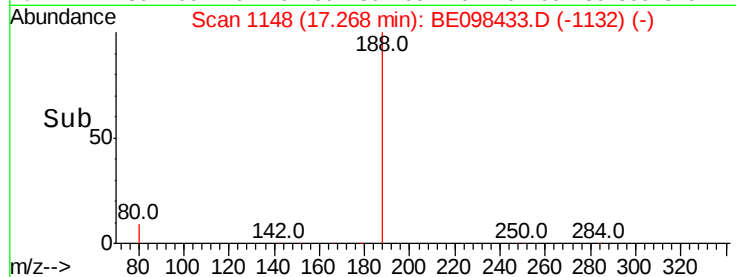
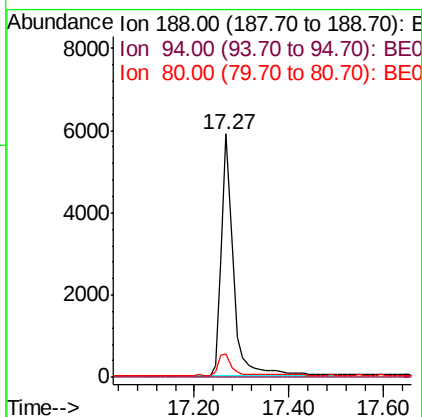
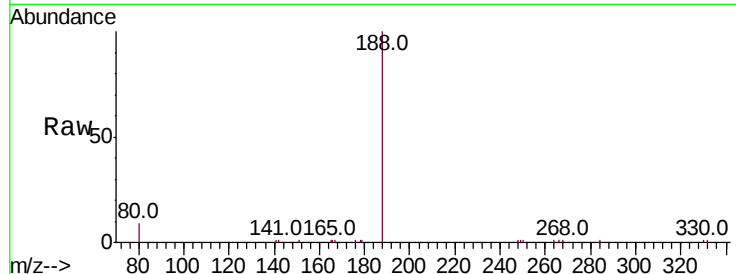
Instrument :  
BNA\_E

ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 0.0   | 0.0        | 0.0        |
| 80      | 9.5   | 7.2        | 10.8       |

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#20

4-Bromophenyl-phenylether

Concen: 0.368 ng

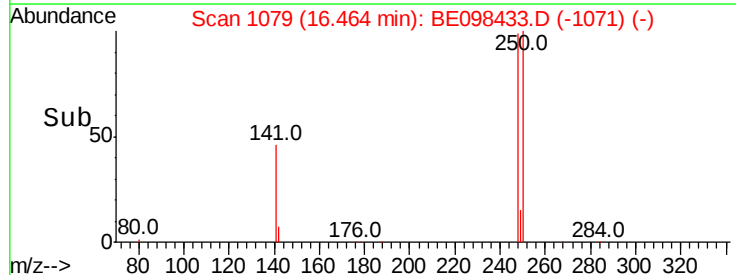
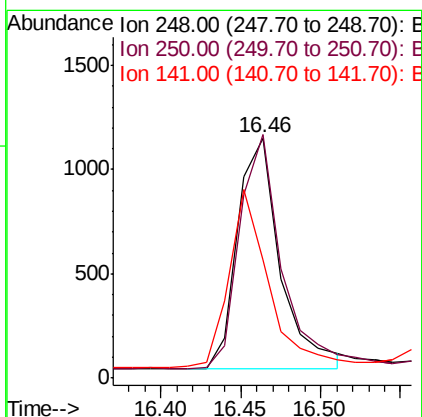
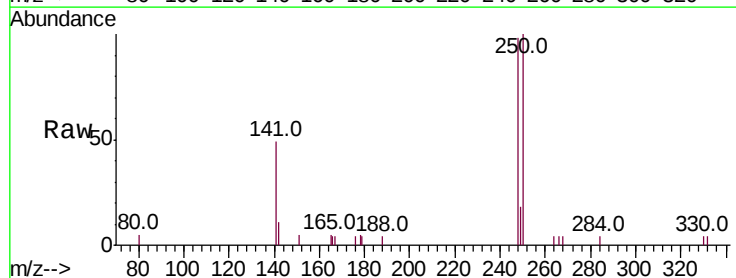
RT: 16.46 min Scan# 1079

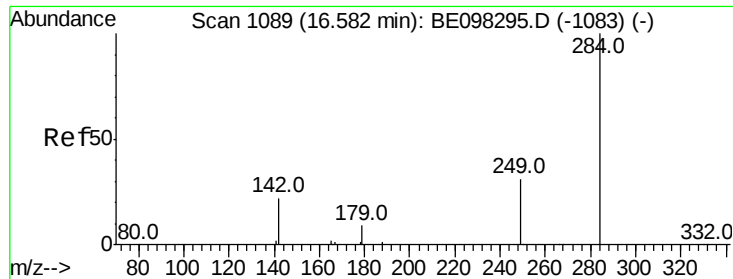
Delta R.T. -0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 248     | 100   |            |            |
| 250     | 101.6 | 71.0       | 106.6      |
| 141     | 49.4  | 62.1       | 93.1#      |





#21

Hexachlorobenzene

Concen: 0.394 ng

RT: 16.57 min Scan# 1088

Delta R.T. -0.01 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

Instrument :

BNA\_E

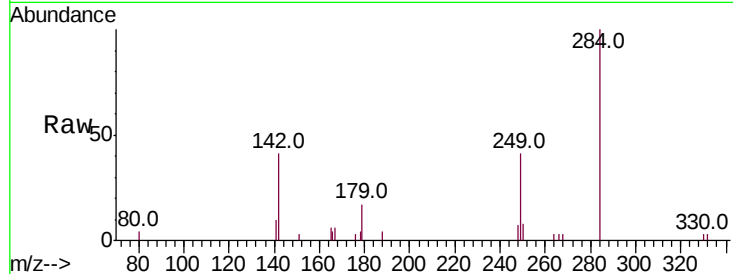
ClientSampleId :

SSTDCCC0.4EC

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 2370 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 35.9  | 26.3  | 39.5 |
| 249       | 35.2  | 26.0  | 39.0 |

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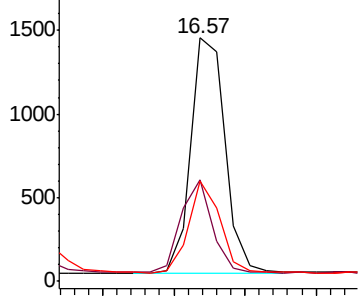
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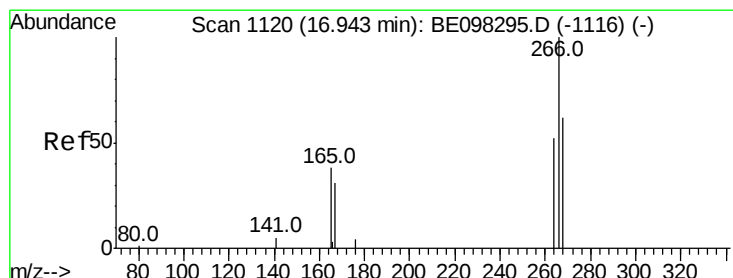
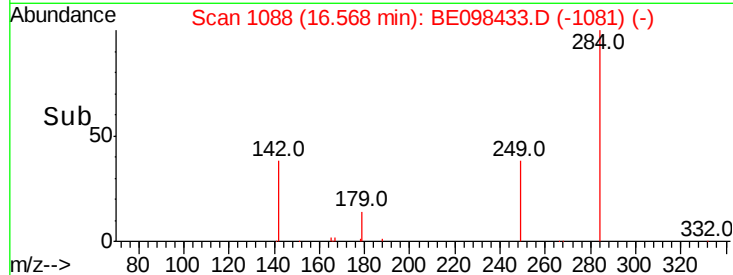
Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



Time-->



#22

Pentachlorophenol

Concen: 0.486 ng

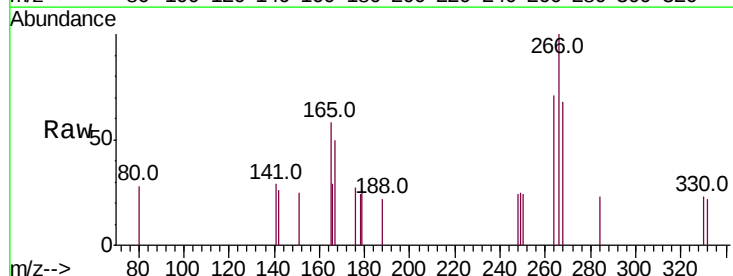
RT: 16.94 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

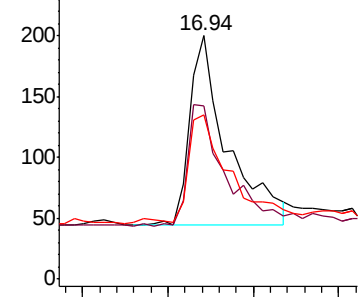
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 485  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 71.0  | 59.0  | 88.4 |
| 268       | 67.5  | 55.1  | 82.7 |



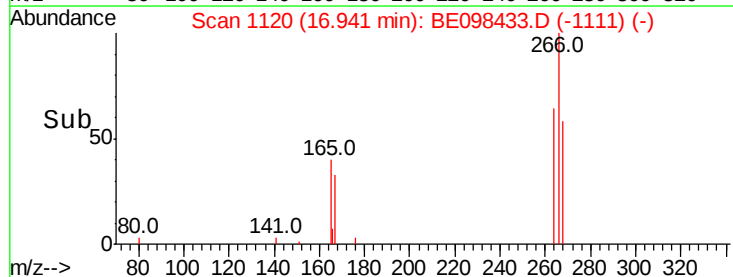
Abundance Ion 266.00 (265.70 to 266.70): E

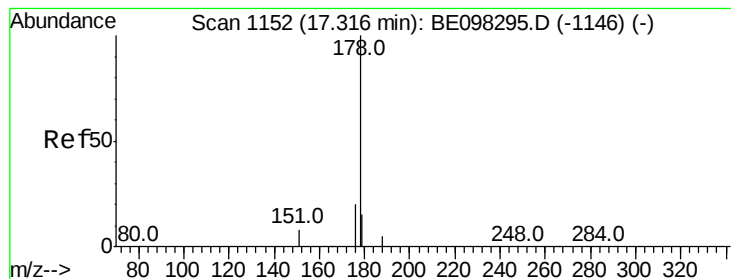
Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



Time-->





#23

Phenanthrene

Concen: 0.383 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

Instrument :

BNA\_E

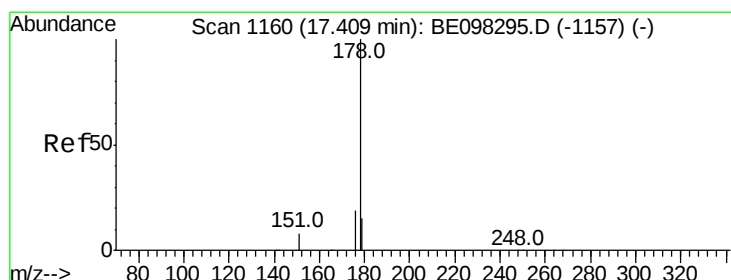
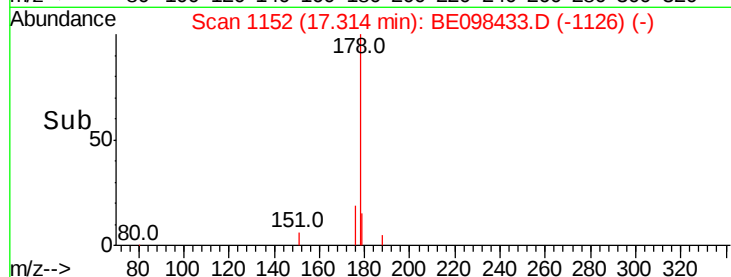
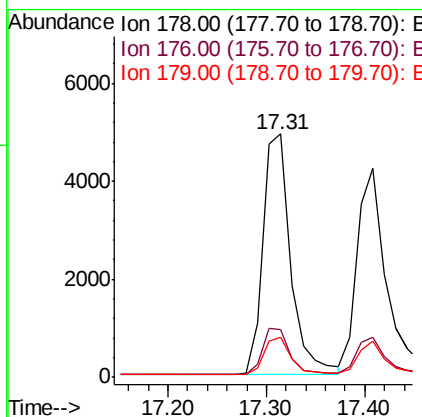
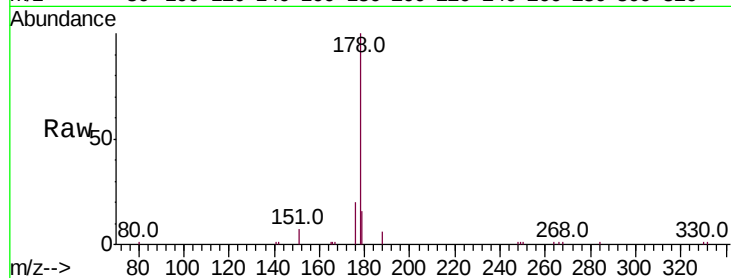
ClientSampleId :

SSTDCCC0.4EC

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 9675      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.5  | 15.9 23.9 |
| 179         | 15.3  | 12.3 18.5 |

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#24

Anthracene

Concen: 0.358 ng

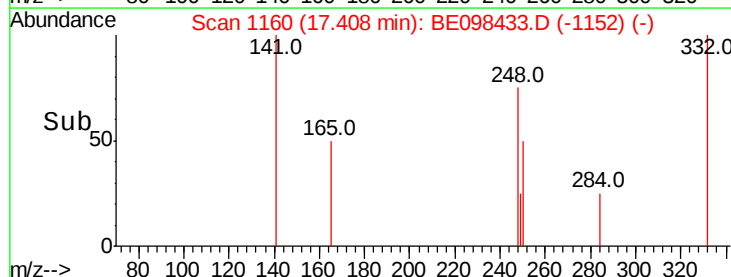
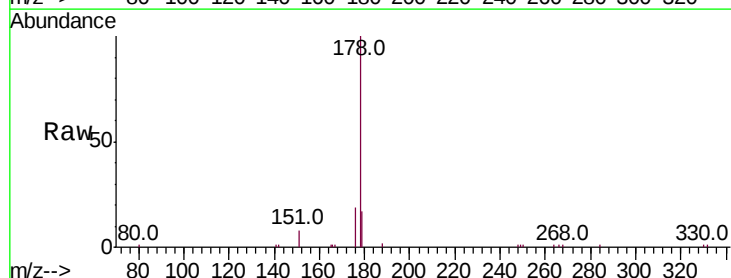
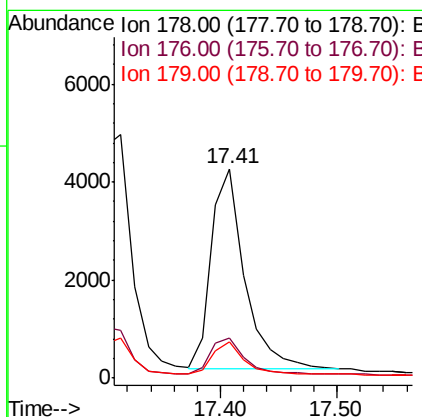
RT: 17.41 min Scan# 1160

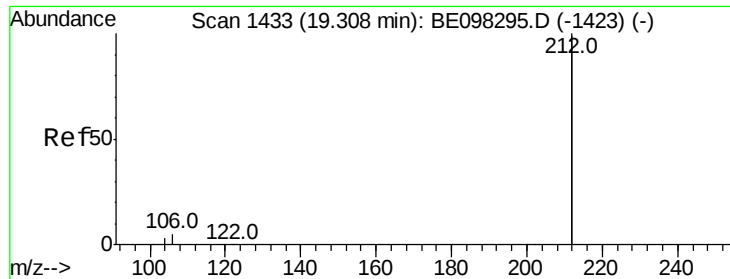
Delta R.T. -0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 8064      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.0  | 15.0 22.4 |
| 179         | 15.2  | 12.3 18.5 |





#25

Fluoranthene-d10

Concen: 0.381 ng

RT: 19.30 min Scan# 1432

Delta R.T. -0.01 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

Instrument :

BNA\_E

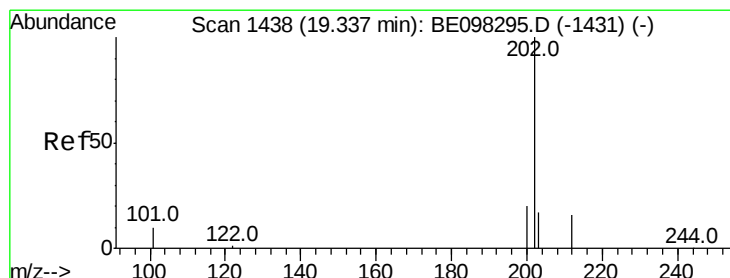
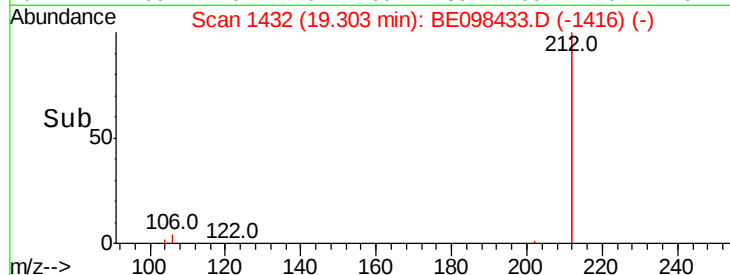
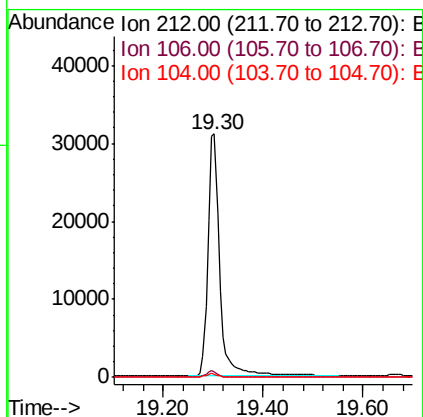
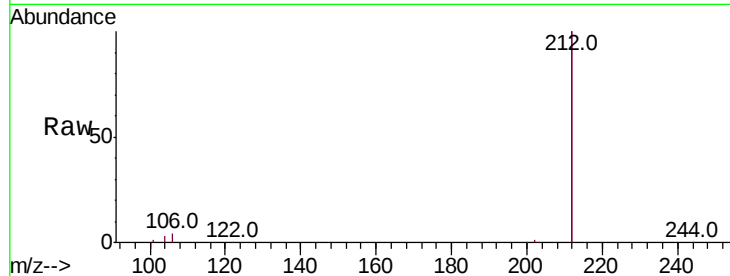
ClientSampleId :

SSTDCCC0.4EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 50884 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 2.5   | 2.2   | 3.2   |
| 104       | 1.3   | 1.3   | 1.9   |

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#26

Fluoranthene

Concen: 0.389 ng

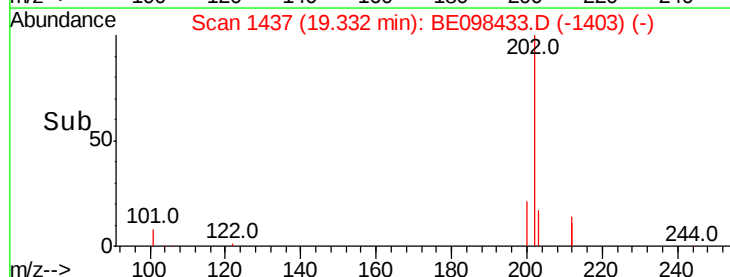
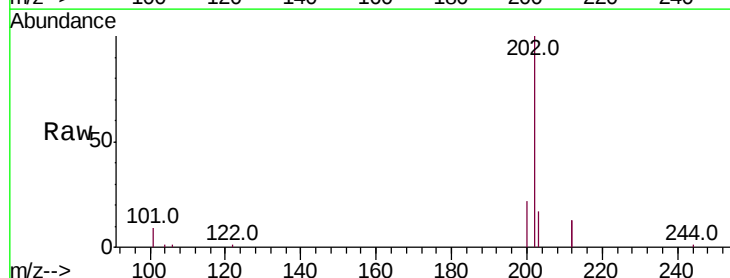
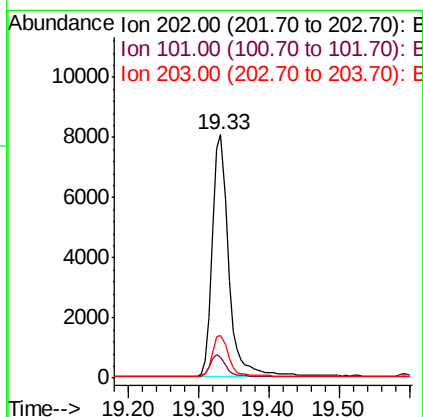
RT: 19.33 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 13020 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.1   | 8.0   | 12.0  |
| 203       | 16.8  | 13.8  | 20.6  |





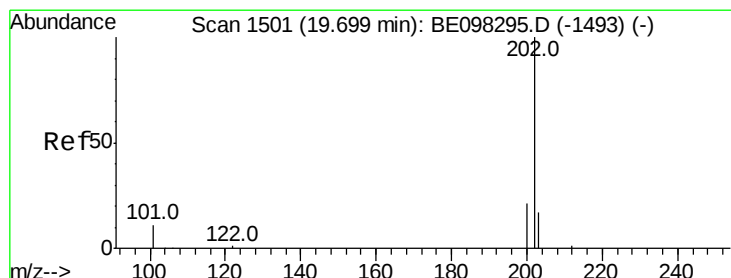
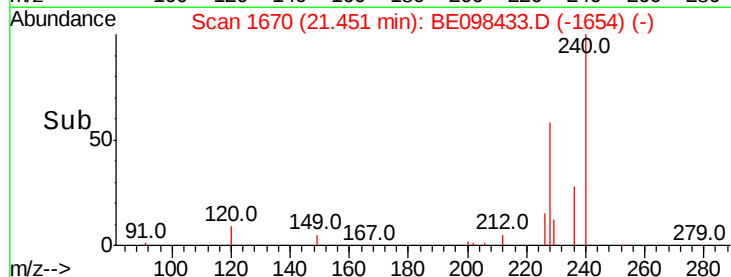
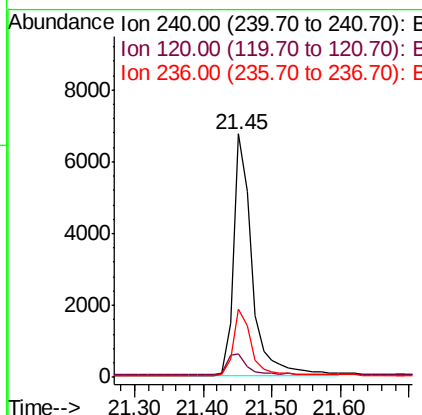
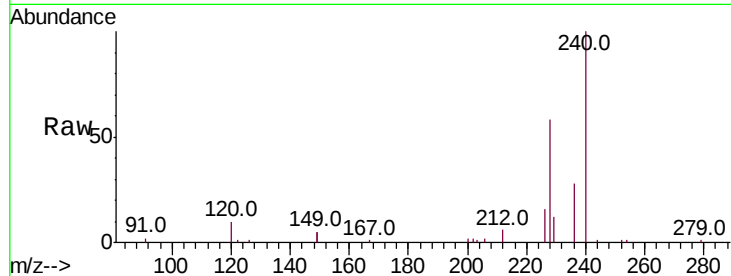
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.45 min Scan# 1670  
Delta R.T. -0.01 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.8   | 9.5   | 14.3  |
| 236     | 28.2  | 22.7  | 34.1  |

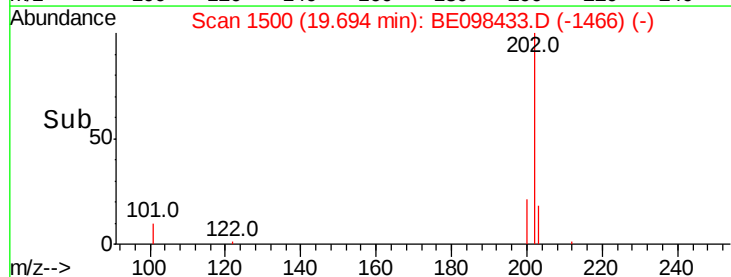
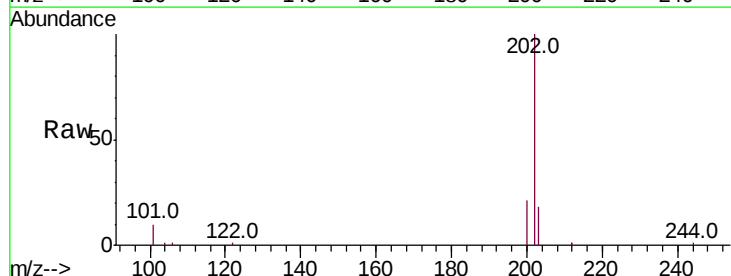
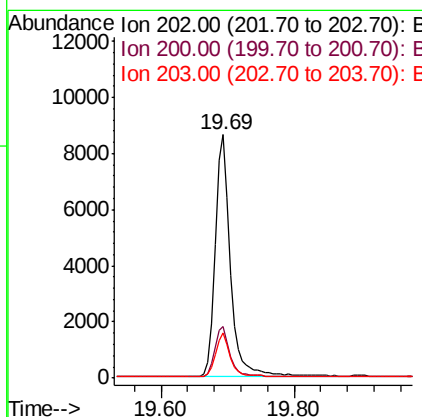
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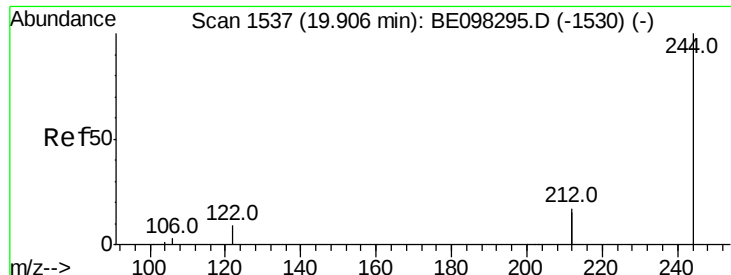
Sohil  
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#28  
Pyrene  
Concen: 0.344 ng  
RT: 19.69 min Scan# 1500  
Delta R.T. -0.01 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.7  | 25.1  |
| 203     | 17.3  | 14.1  | 21.1  |





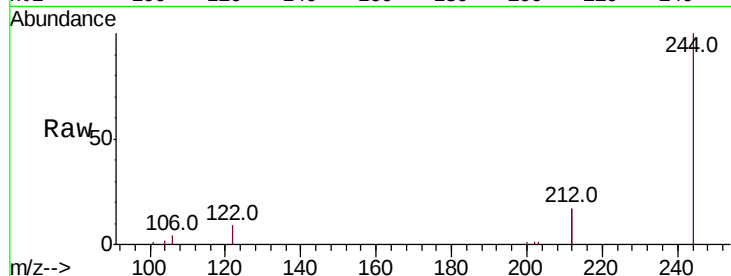
#29  
Terphenyl-d14  
Concen: 0.320 ng  
RT: 19.90 min Scan# 1536  
Delta R.T. -0.01 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

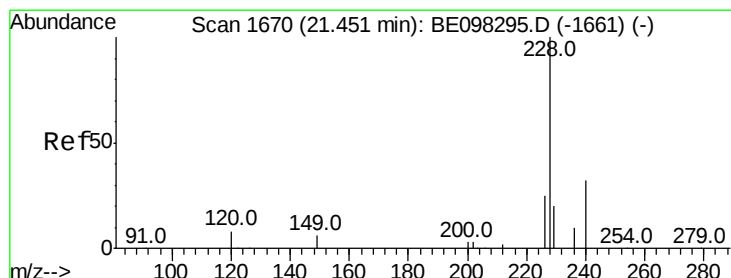
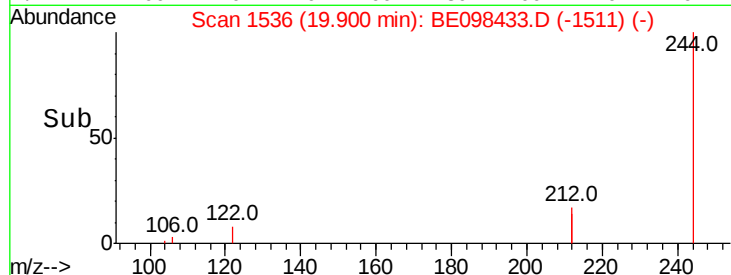
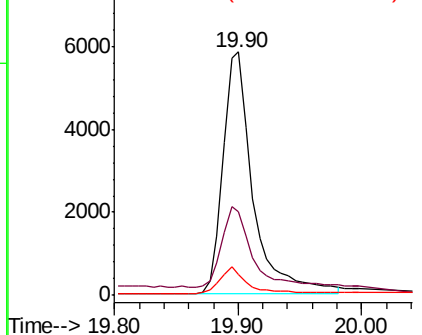
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 34.6  | 27.4  | 41.0  |
| 122     | 8.8   | 8.3   | 12.5  |

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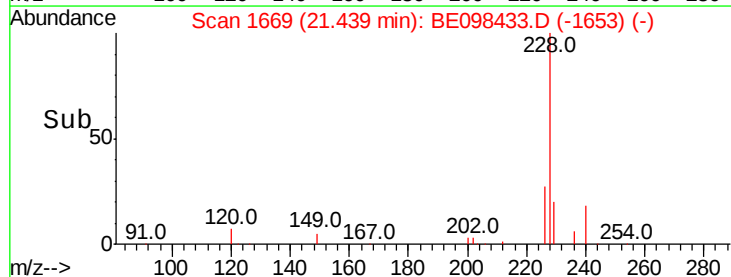
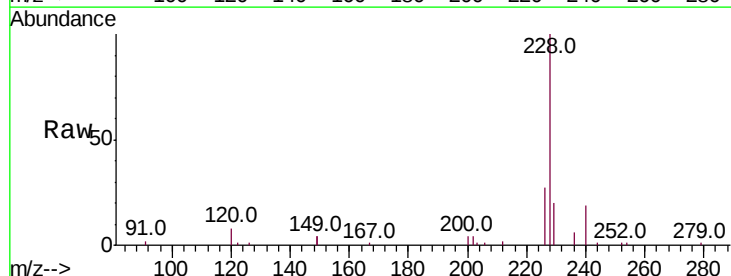
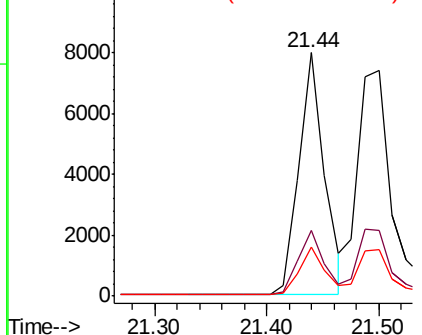
Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#30  
Benzo(a)anthracene  
Concen: 0.351 ng  
RT: 21.44 min Scan# 1669  
Delta R.T. -0.01 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.2  | 21.8  | 32.8  |
| 229     | 20.0  | 16.3  | 24.5  |

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: 0.386 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098433.D

Acq: 14 Dec 2018 13:25

Instrument :

BNA\_E

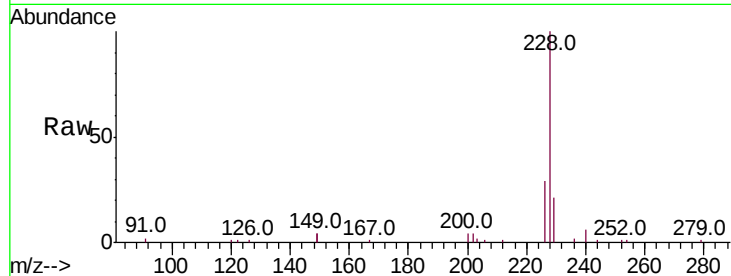
ClientSampleId :

SSTDCCC0.4EC

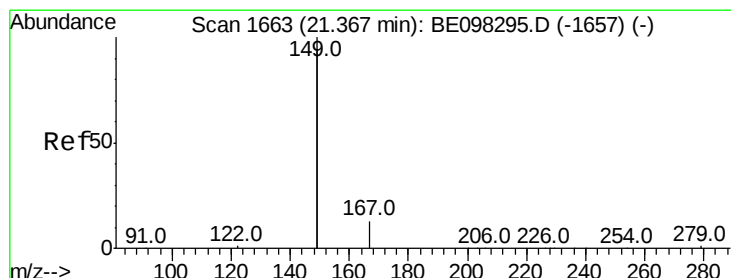
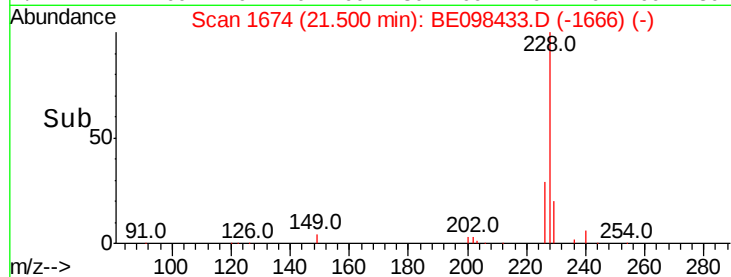
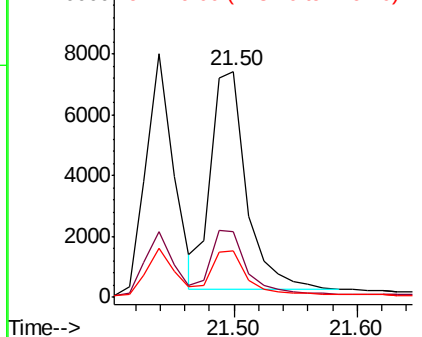
|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 14475 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 29.1    | 23.4  | 35.0  |
| 229 20.5    | 16.2  | 24.4  |

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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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.336 ng

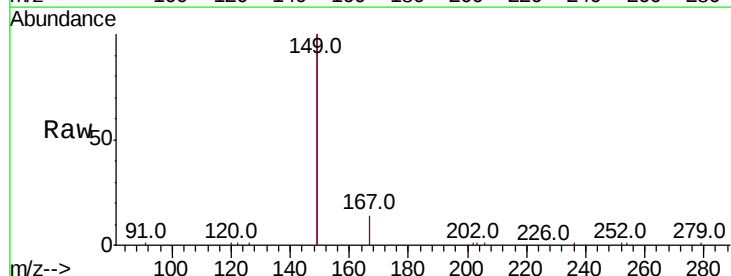
RT: 21.35 min Scan# 1662

Delta R.T. -0.01 min

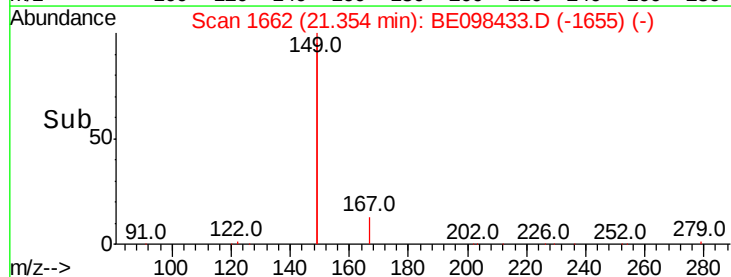
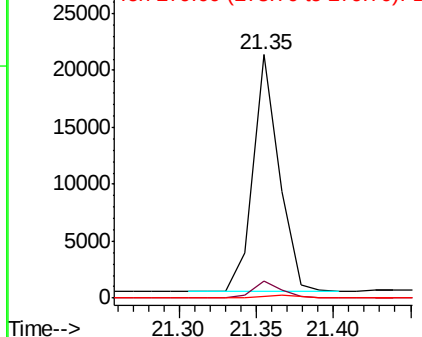
Lab File: BE098433.D

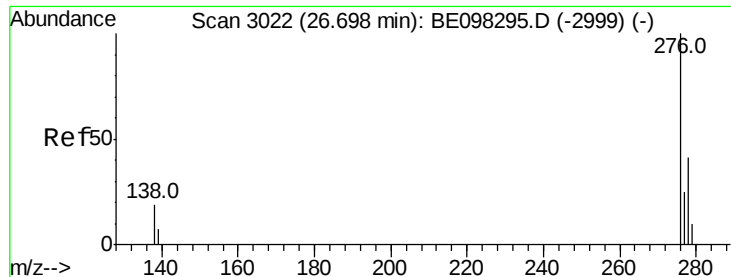
Acq: 14 Dec 2018 13:25

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:149 | Resp: | 24439 |
| Ion Ratio   | Lower | Upper |
| 149 100     |       |       |
| 167 7.1     | 5.7   | 8.5   |
| 279 1.1     | 1.0   | 1.4   |



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





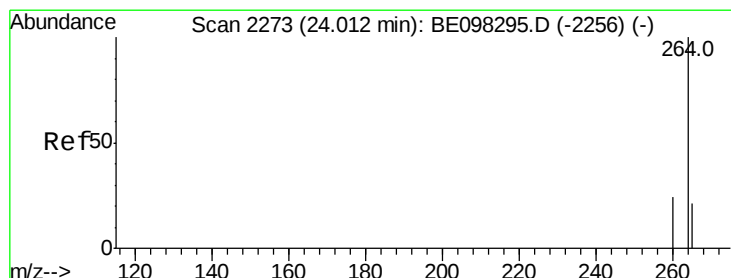
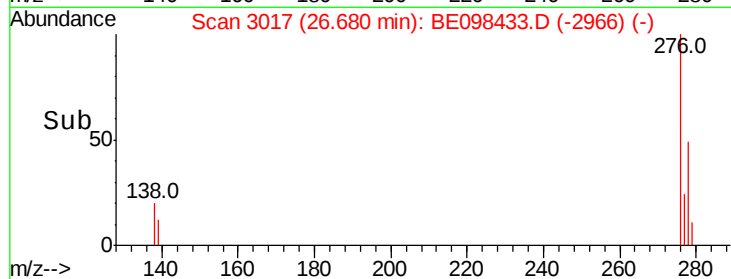
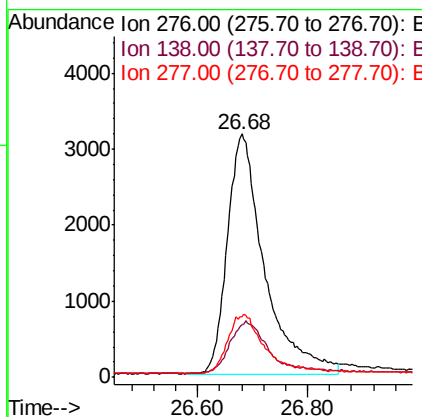
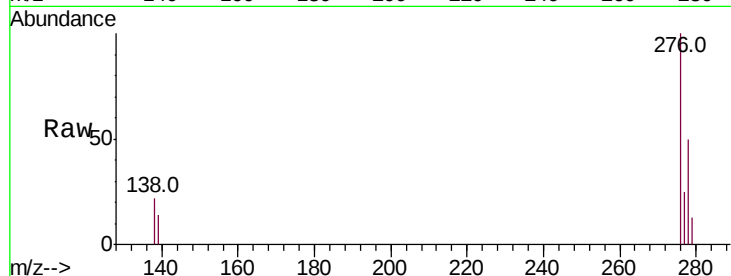
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.395 ng  
 RT: 26.68 min Scan# 3017  
 Delta R.T. -0.02 min  
 Lab File: BE098433.D  
 Acq: 14 Dec 2018 13:25

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.4  | 16.3  | 24.5  |
| 277     | 23.5  | 20.2  | 30.4  |

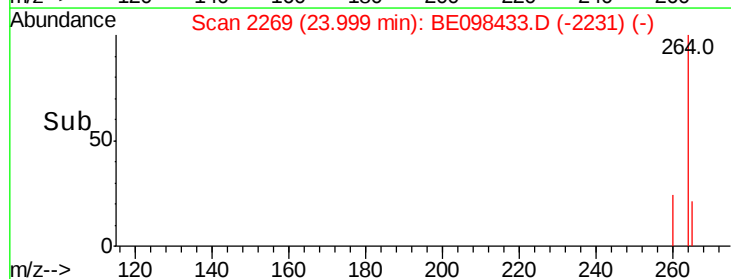
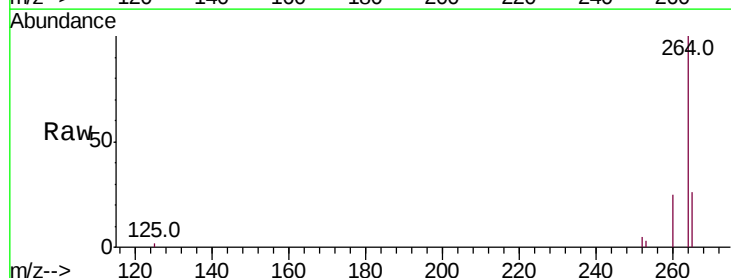
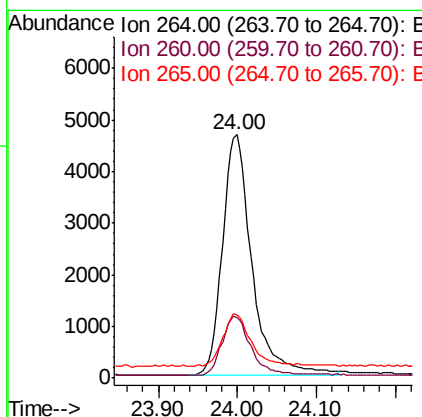
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#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.00 min Scan# 2269  
 Delta R.T. -0.01 min  
 Lab File: BE098433.D  
 Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 20.2  | 30.2  |
| 265     | 26.1  | 25.2  | 37.8  |





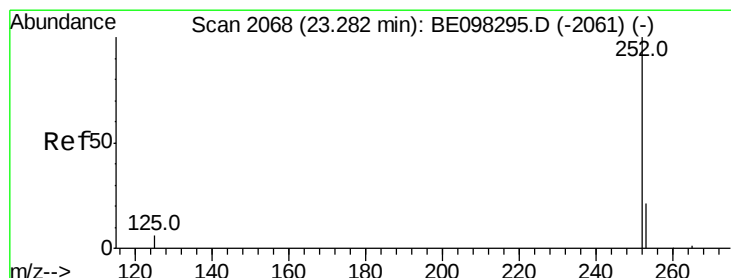
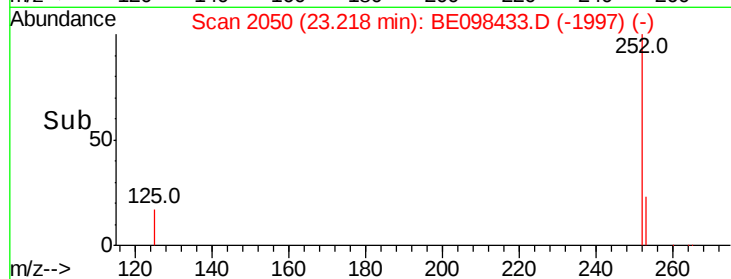
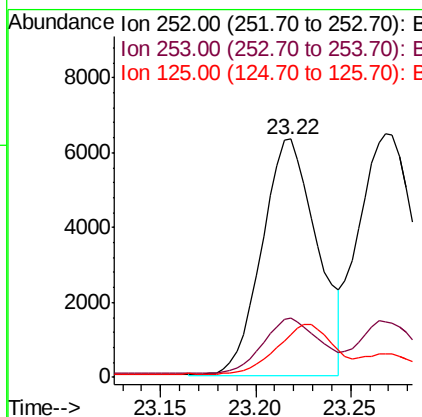
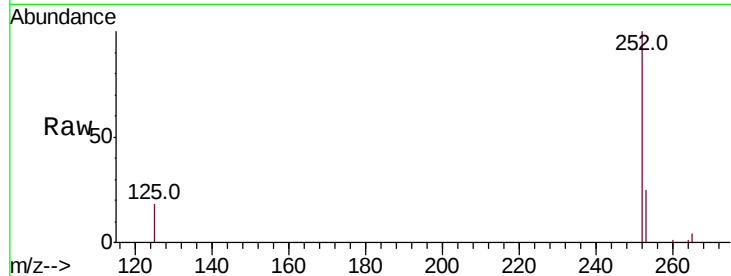
#35  
Benzo(b)fluoranthene  
Concen: 0.384 ng m  
RT: 23.22 min Scan# 2050  
Delta R.T. -0.01 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 20.0  | 30.0  |
| 125     | 17.8  | 9.6   | 14.4  |

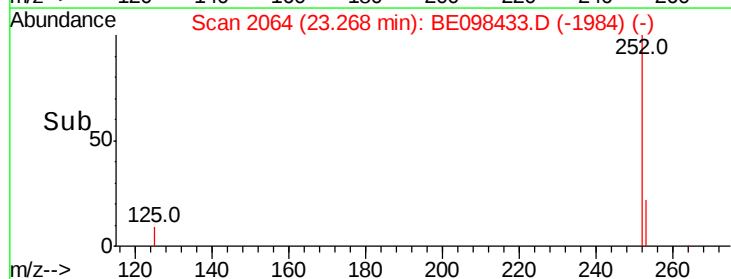
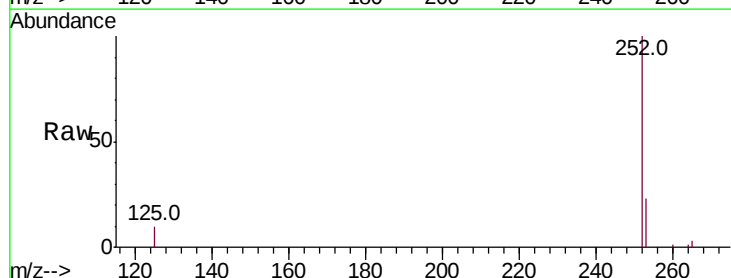
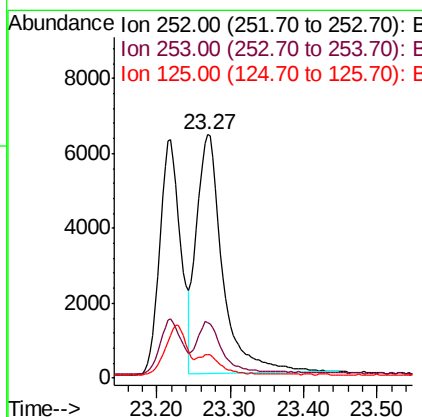
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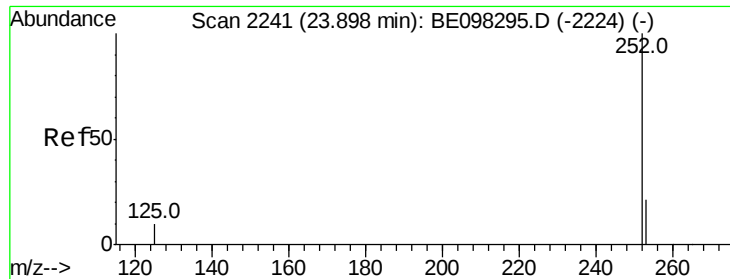
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#36  
Benzo(k)fluoranthene  
Concen: 0.409 ng  
RT: 23.27 min Scan# 2064  
Delta R.T. -0.01 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 19.0  | 28.6  |
| 125     | 9.8   | 9.1   | 13.7  |





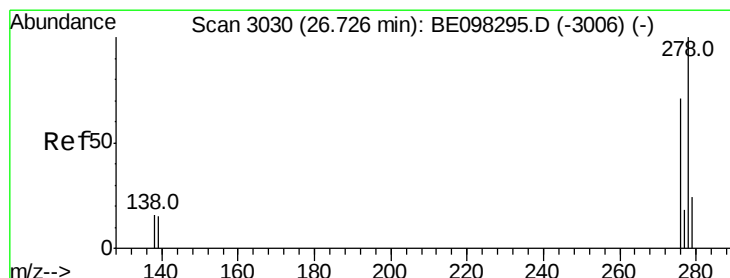
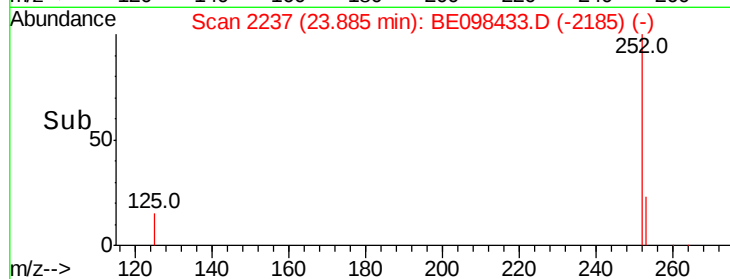
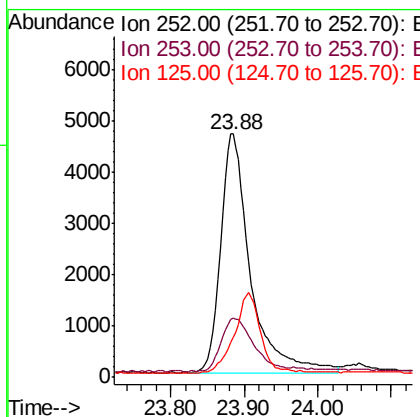
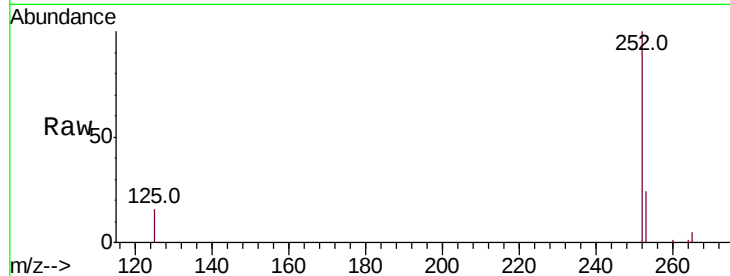
#37  
Benzo(a)pyrene  
Concen: 0.390 ng  
RT: 23.88 min Scan# 2237  
Delta R.T. -0.01 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 20.6  | 30.8  |
| 125     | 16.5  | 10.5  | 15.7  |

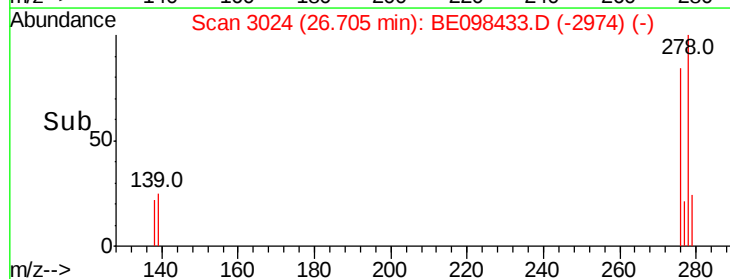
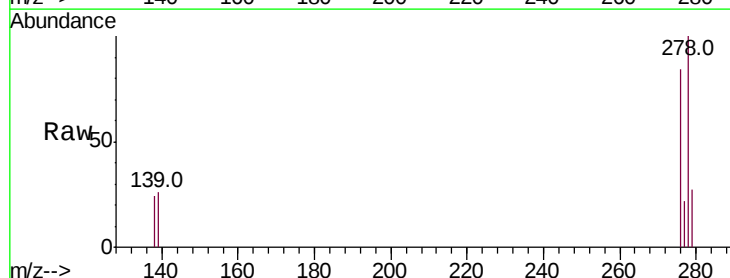
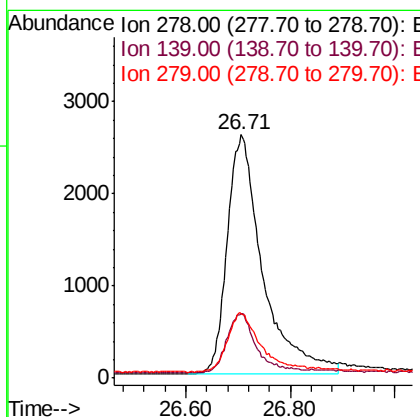
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.381 ng  
RT: 26.71 min Scan# 3024  
Delta R.T. -0.02 min  
Lab File: BE098433.D  
Acq: 14 Dec 2018 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 26.5  | 14.5  | 21.7  |
| 279     | 26.5  | 21.8  | 32.8  |





#39

Benzo(a,h,i)perylene

Concen: 0.380 ng

RT: 27.50 min Scan# 3246

Delta R.T. -0.02 min

Lab File: BE098433.D

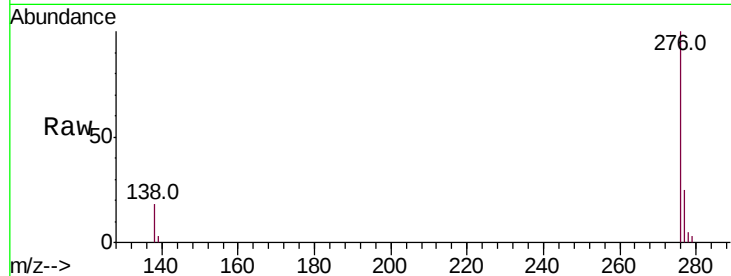
Acq: 14 Dec 2018 13:25

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 12308 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.1  | 20.8  | 31.2  |
| 138       | 18.1  | 15.8  | 23.6  |

Manual Integrations  
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