

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE120814\  
 Data File : BE089179.D  
 Acq On : 8 Dec 2014 22:54  
 Operator : TP/JJ  
 Sample : SSTDICC0.5  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDICC0.5

Manual Integrations  
 APPROVED

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 12/10/2014 4:30:22 PM

Quant Time: Dec 09 04:11:37 2014  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-ACID-BE120814.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 09 03:43:23 2014  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.95  | 152  | 27786    | 5.00 | ng    | 0.00     |
| 8) Naphthalene-d8              | 8.51  | 136  | 106506   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10           | 10.66 | 164  | 51075    | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10           | 12.72 | 188  | 78274    | 5.00 | ng    | 0.00     |
| 22) Chrysene-d12               | 18.07 | 240  | 59438    | 5.00 | ng    | 0.00     |
| 23) Perylene-d12               | 21.13 | 264  | 54860    | 5.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 2) 2-Fluorophenol              | 5.28  | 112  | 3591     | 0.50 | ng    | 0.00     |
| 3) Phenol-d6                   | 6.56  | 99   | 5021     | 0.55 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 11.67 | 330  | 860      | 0.55 | ng    | 0.00     |
| Target Compounds               |       |      |          |      |       | Qvalue   |
| 4) 2-Chlorophenol              | 6.69  | 128  | 3937     | 0.58 | ng    | 83       |
| 5) Phenol                      | 6.58  | 94   | 5788     | 0.58 | ng    | 90       |
| 6) 2-Methylphenol              | 7.31  | 107  | 4795     | 0.25 | ng    | 93       |
| 7) 3+4-Methylphenols           | 7.52  | 107  | 3825     | 0.16 | ng    | 92       |
| 9) 2-Nitrophenol               | 8.06  | 139  | 1952     | 0.85 | ng    | # 86     |
| 10) 2,4-Dimethylphenol         | 8.15  | 122  | 3351     | 0.58 | ng    | 95       |
| 11) 2,4-Dichlorophenol         | 8.38  | 162  | 2965     | 0.63 | ng    | 90       |
| 12) 4-Chloro-3-methylphenol    | 9.26  | 107  | 3099     | 0.57 | ng    | 94       |
| 15) 2,4,6-Trichlorophenol      | 9.75  | 196  | 1768     | 0.59 | ng    | 82       |
| 16) 2,4,5-Trichlorophenol      | 9.81  | 196  | 2065m    | 0.64 | ng    |          |
| 17) 2,4-Dinitrophenol          | 10.80 | 184  | 312      | 0.99 | ng    | # 82     |
| 18) 4-Nitrophenol              | 10.91 | 139  | 4223     | 1.65 | ng    | 86       |
| 20) 4,6-Dinitro-2-methylphenol | 11.45 | 198  | 517      | 0.85 | ng    | # 64     |
| 21) Pentachlorophenol          | 12.45 | 266  | 427      | 0.57 | ng    | 90       |

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

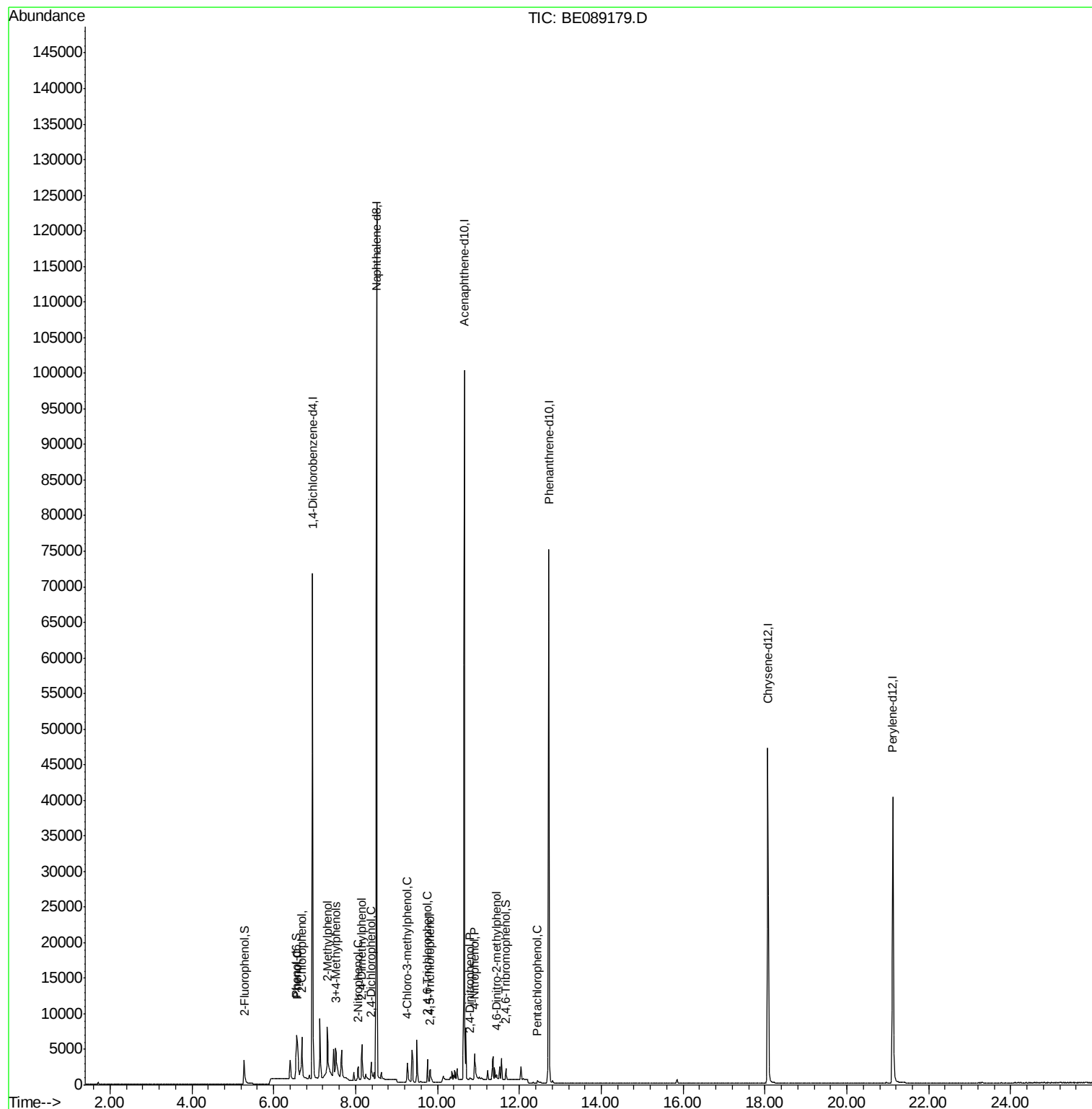
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE120814\  
Data File : BE089179.D  
Acq On : 8 Dec 2014 22:54  
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Sample : SSTDICC0.5  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

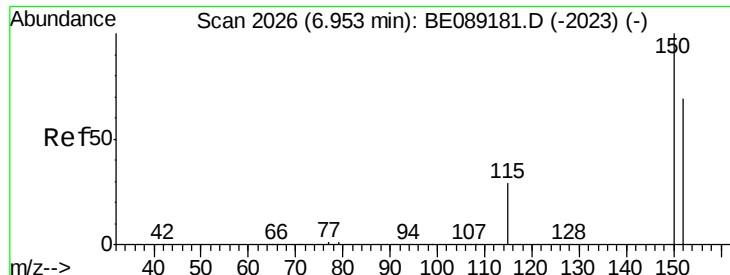
Instrument :  
BNA\_E  
LabSampleId :  
SSTDICC0.5

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QLast Update : Tue Dec 09 03:43:23 2014  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 2026

Delta R.T. -0.00 min

Lab File: BE089179.D

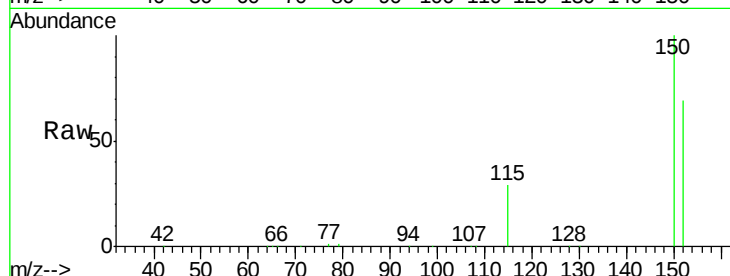
Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.5



Tgt Ion:152 Resp: 27786

Ion Ratio Lower Upper

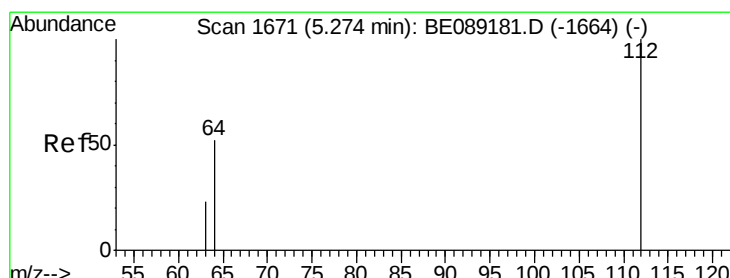
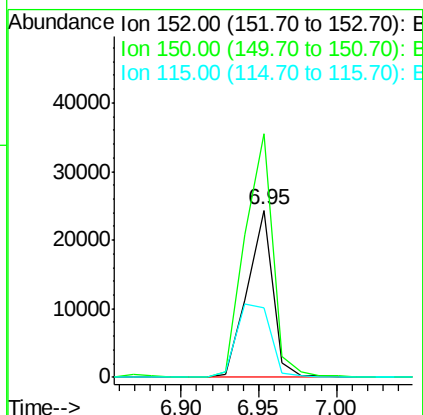
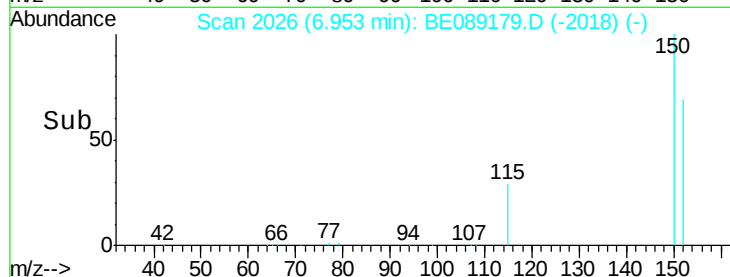
152 100

150 145.4 115.4 173.2

115 41.8 33.3 49.9

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#2

2-Fluorophenol

Concen: 0.50 ng

RT: 5.28 min Scan# 1672

Delta R.T. 0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

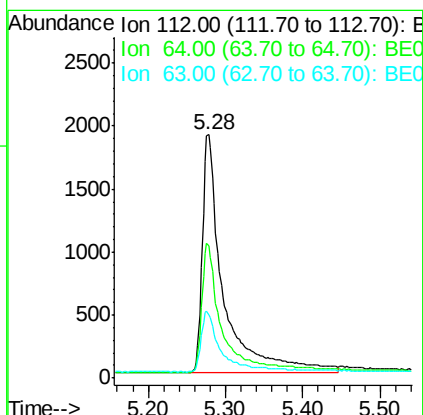
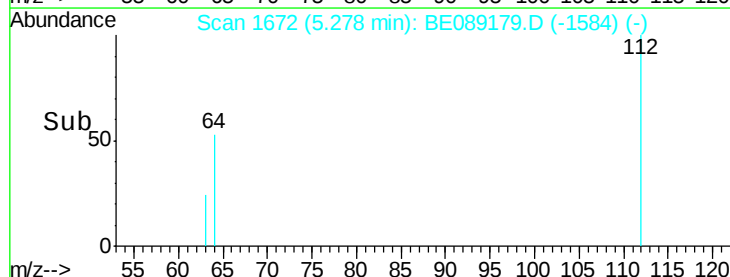
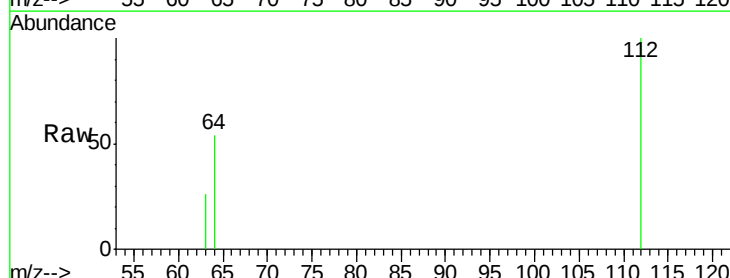
Tgt Ion:112 Resp: 3591

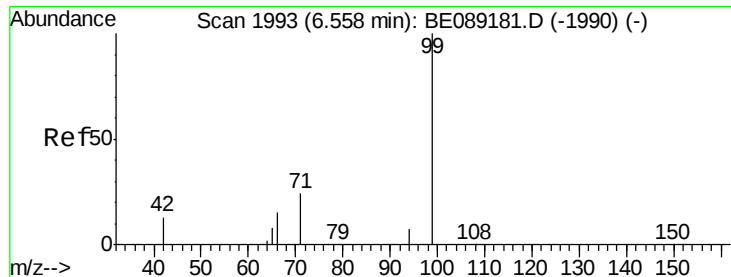
Ion Ratio Lower Upper

112 100

64 54.2 42.3 63.5

63 26.2 20.0 30.0





#3

Phenol-d6

Concen: 0.55 ng

RT: 6.56 min Scan# 1993

Delta R.T. -0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

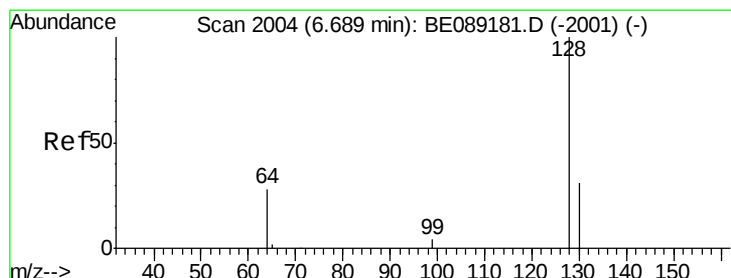
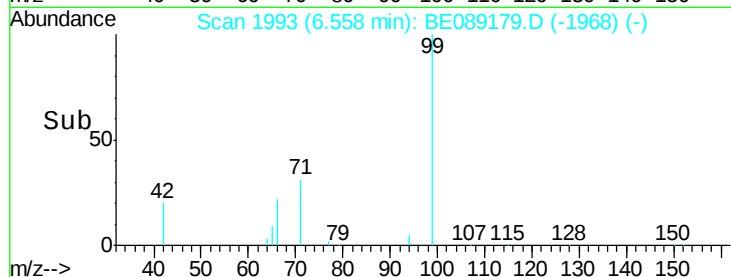
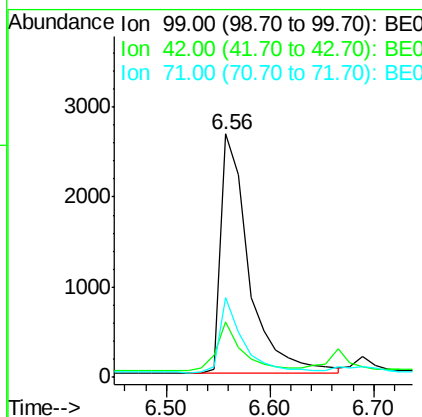
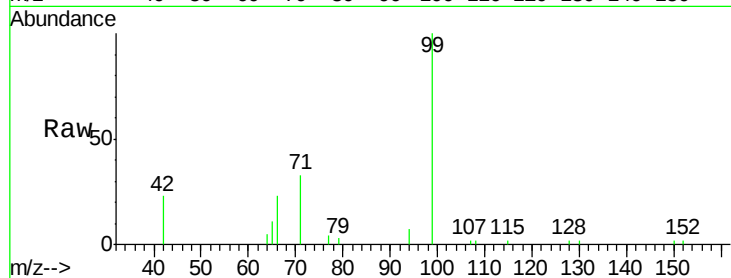
LabSampleId :

SSTDICC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 5021  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 23.0  | 11.2  | 16.8# |
| 71        | 32.8  | 19.3  | 28.9# |

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#4

2-Chlorophenol

Concen: 0.58 ng

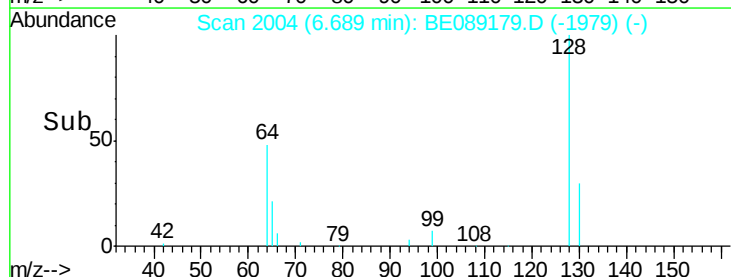
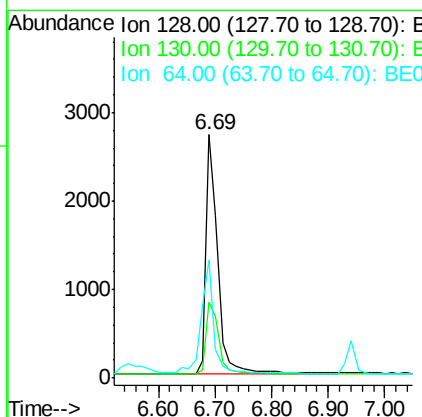
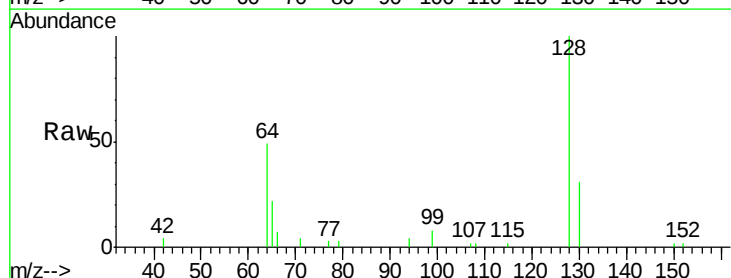
RT: 6.69 min Scan# 2004

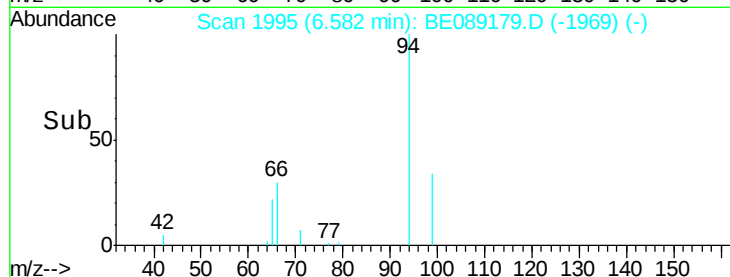
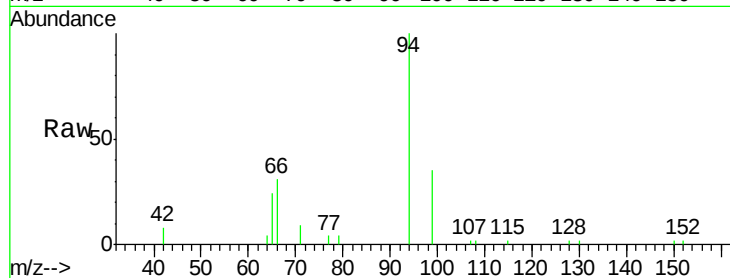
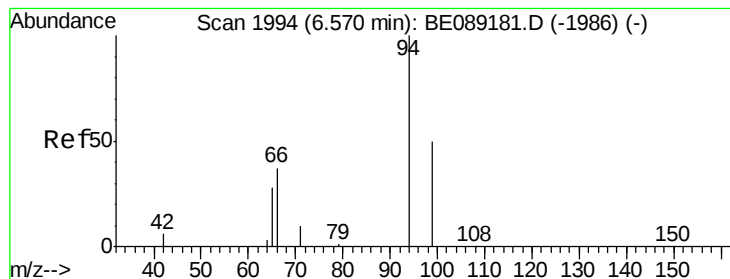
Delta R.T. -0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 3937 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 130       | 31.4  | 11.2  | 51.2 |
| 64        | 48.7  | 10.6  | 50.6 |





#5

Phenol

Concen: 0.58 ng

RT: 6.58 min Scan# 1995

Delta R.T. 0.01 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 5788  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 23.8  | 9.0   | 49.0  |
| 66       | 31.4  | 17.7  | 57.7  |

Instrument :

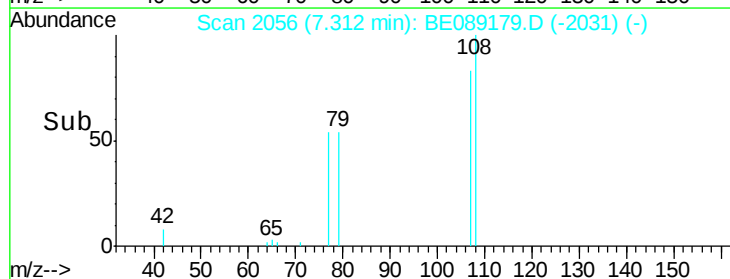
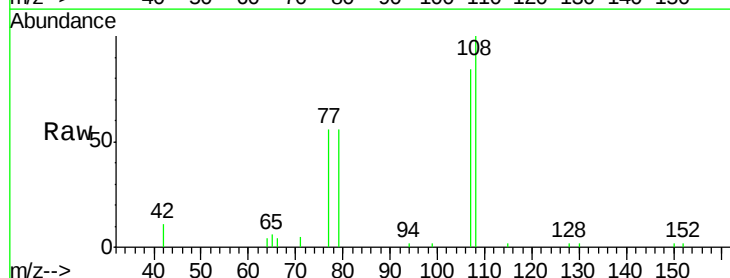
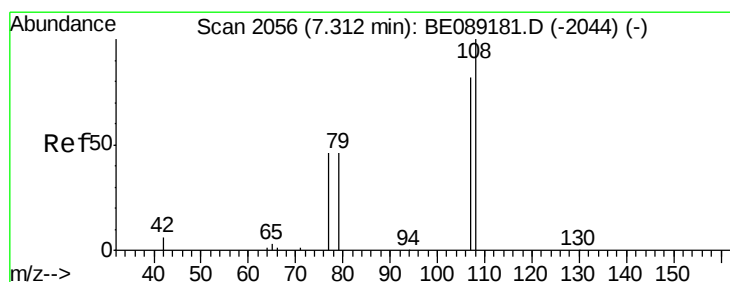
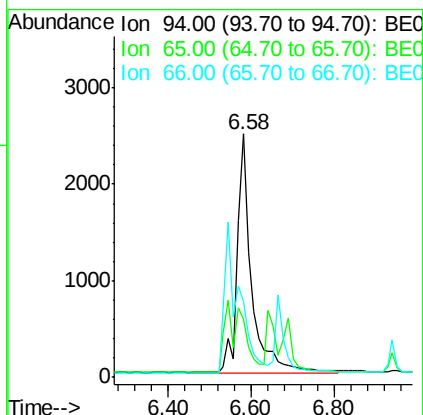
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#6

2-Methylphenol

Concen: 0.25 ng

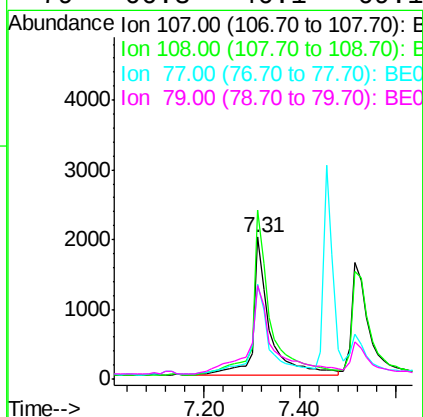
RT: 7.31 min Scan# 2056

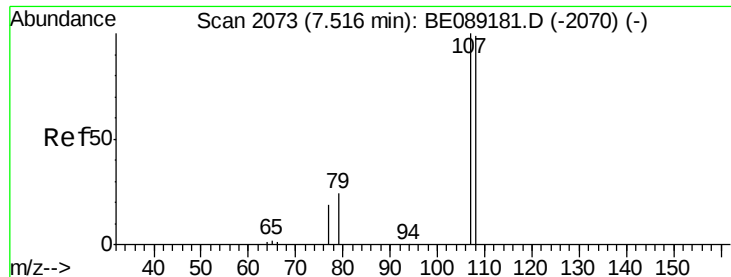
Delta R.T. -0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 4795  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 119.1 | 97.6  | 146.4 |
| 77       | 66.9  | 45.8  | 68.6  |
| 79       | 66.3  | 46.1  | 69.1  |





#7

3+4-Methylphenols

Concen: 0.16 ng

RT: 7.52 min Scan# 2073

Delta R.T. -0.00 min

Lab File: BE089179.D

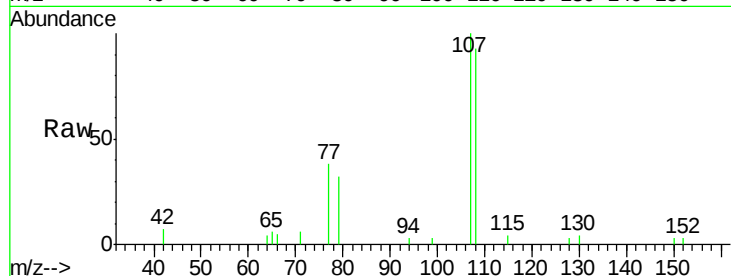
Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

LabSampleId :

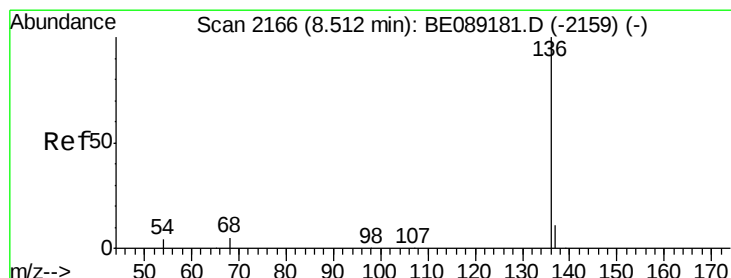
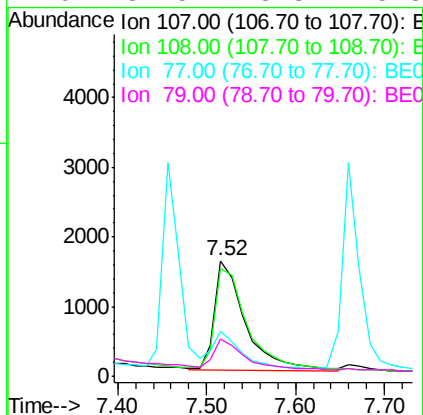
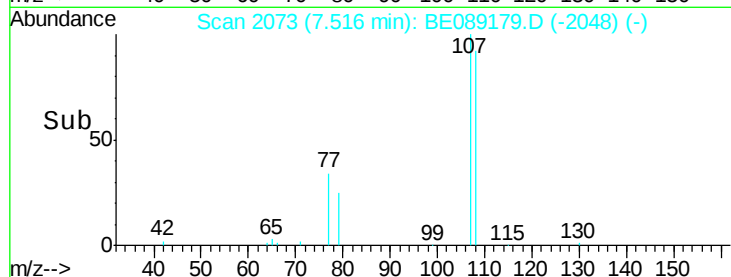
SSTDICC0.5



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 3825  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 92.8  | 80.4  | 120.4 |
| 77       | 38.4  | 12.4  | 52.4  |
| 79       | 32.5  | 8.3   | 48.3  |

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#8

Naphthalene-d8

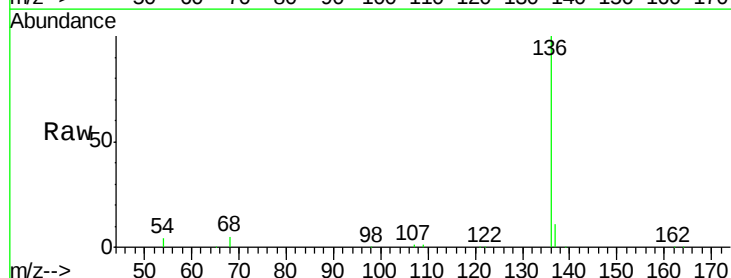
Concen: 5.00 ng

RT: 8.51 min Scan# 2166

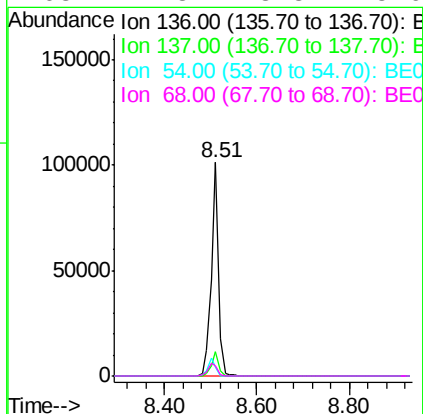
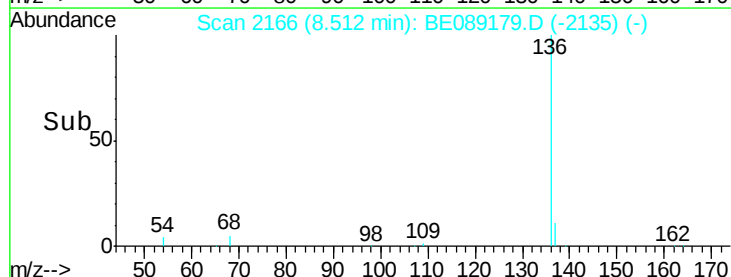
Delta R.T. -0.00 min

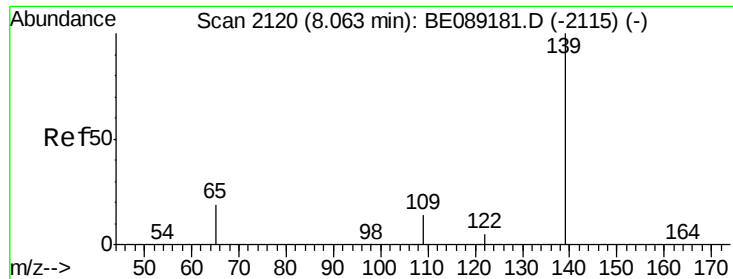
Lab File: BE089179.D

Acq: 8 Dec 2014 22:54



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 106506 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.9   | 13.3   |
| 54       | 4.3   | 3.4   | 5.2    |
| 68       | 4.8   | 3.8   | 5.6    |





#9

2-Nitrophenol

Concen: 0.85 ng

RT: 8.06 min Scan# 2120

Delta R.T. -0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

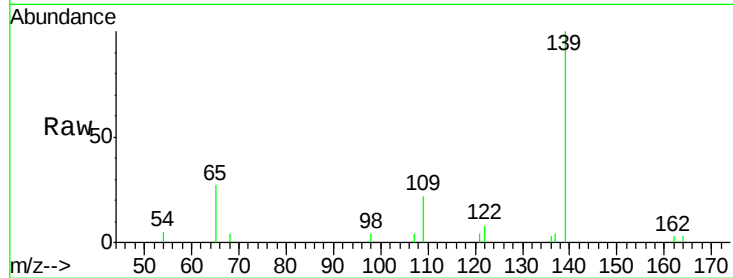
LabSampleId :

SSTDICC0.5

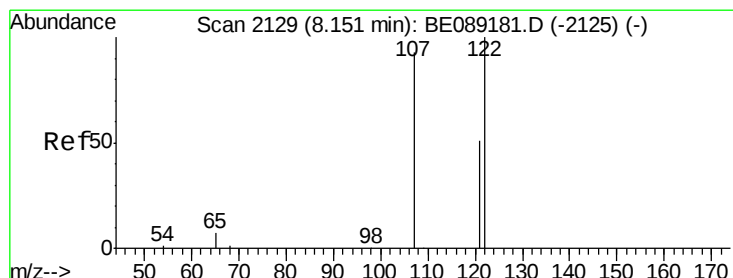
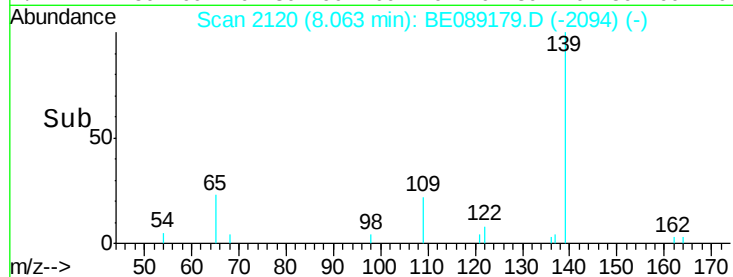
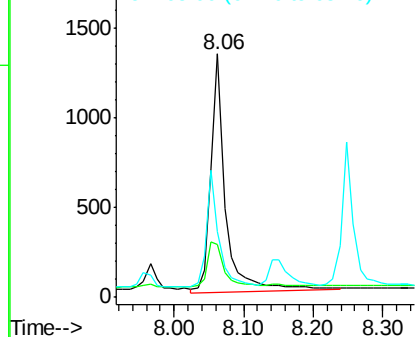
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 139   | Resp: | 1952  |
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 21.6  | 13.0  | 19.4# |
| 65        | 27.2  | 16.4  | 24.6# |

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Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): E



#10

2,4-Dimethylphenol

Concen: 0.58 ng

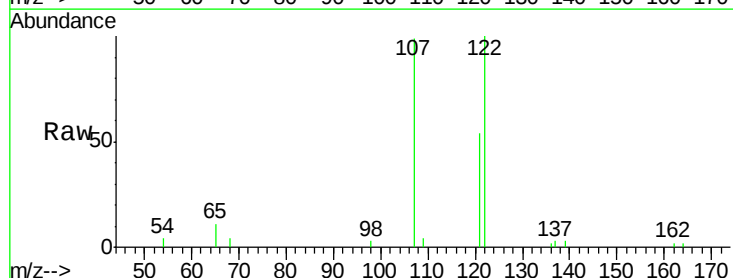
RT: 8.15 min Scan# 2129

Delta R.T. -0.00 min

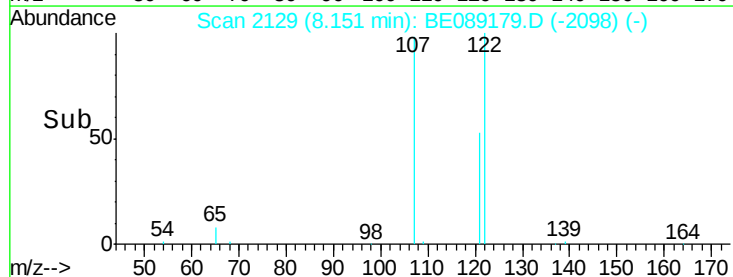
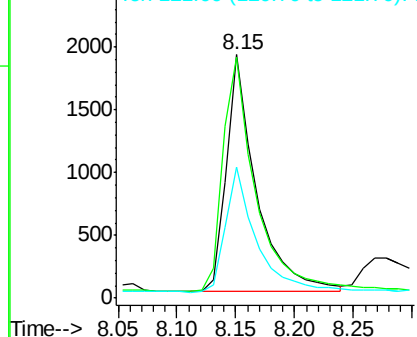
Lab File: BE089179.D

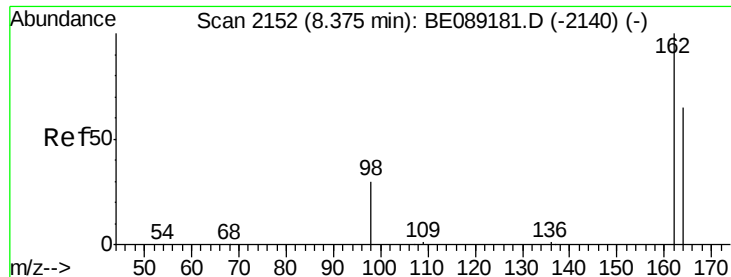
Acq: 8 Dec 2014 22:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 122   | Resp: | 3351  |
| Ion Ratio | Lower | Upper |       |
| 122       | 100   |       |       |
| 107       | 99.1  | 74.3  | 111.5 |
| 121       | 53.8  | 41.5  | 62.3  |



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E





#11

2,4-Dichlorophenol

Concen: 0.63 ng

RT: 8.38 min Scan# 2152

Delta R.T. -0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

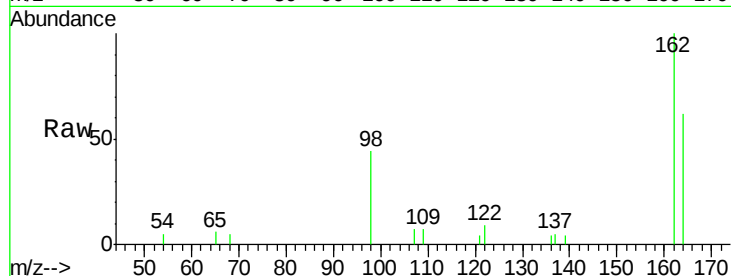
LabSampleId :

SSTDIC0.5

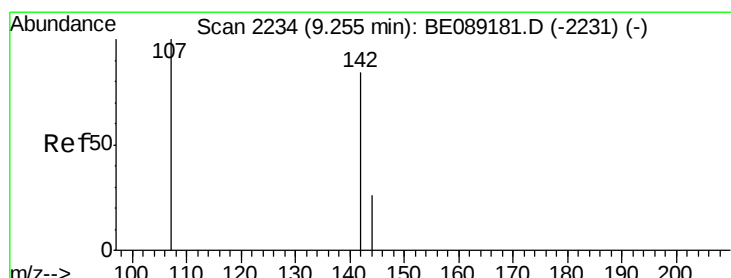
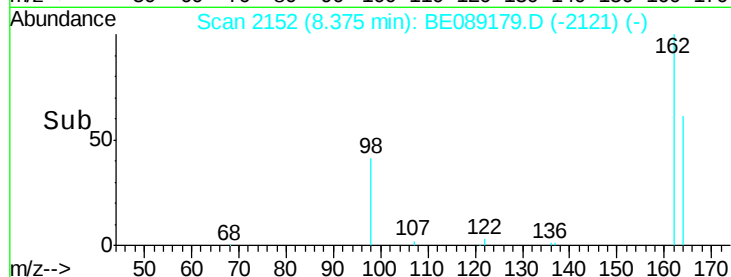
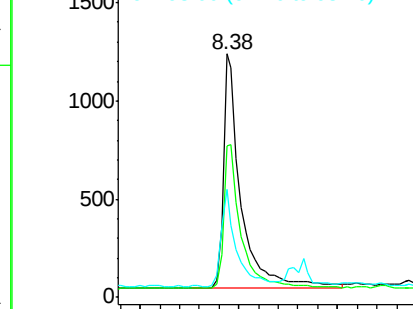
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 162   | Resp: | 2965 |
| Ion Ratio | Lower | Upper |      |
| 162       | 100   |       |      |
| 164       | 62.5  | 45.3  | 85.3 |
| 98        | 44.2  | 10.9  | 50.9 |

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Abundance Ion 162.00 (161.70 to 162.70): E  
Ion 164.00 (163.70 to 164.70): E  
Ion 98.00 (97.70 to 98.70): E



#12

4-Chloro-3-methylphenol

Concen: 0.57 ng

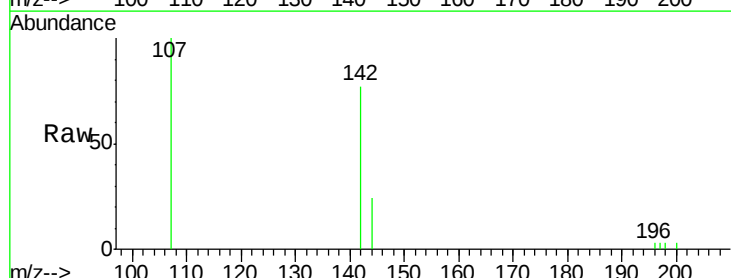
RT: 9.26 min Scan# 2234

Delta R.T. 0.00 min

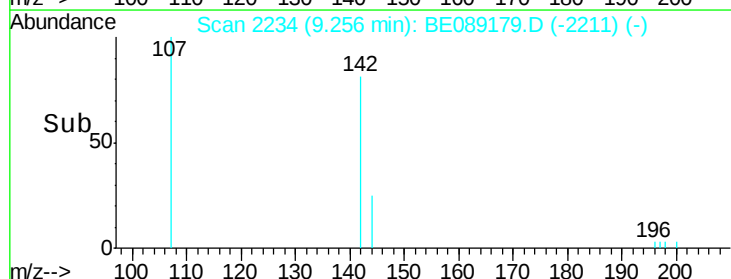
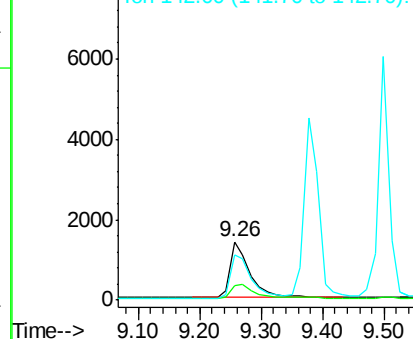
Lab File: BE089179.D

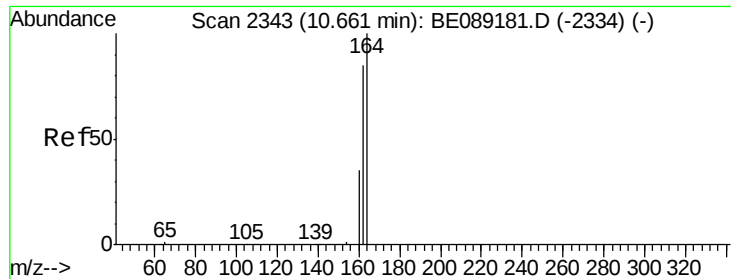
Acq: 8 Dec 2014 22:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 107   | Resp: | 3099  |
| Ion Ratio | Lower | Upper |       |
| 107       | 100   |       |       |
| 144       | 24.1  | 21.3  | 31.9  |
| 142       | 77.1  | 66.7  | 100.1 |



Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 144.00 (143.70 to 144.70): E  
Ion 142.00 (141.70 to 142.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.66 min Scan# 2343

Delta R.T. -0.00 min

Lab File: BE089179.D

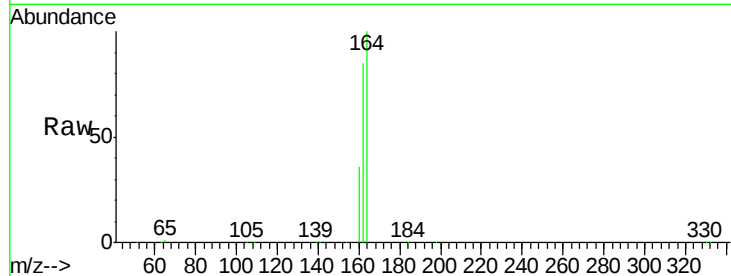
Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

LabSampleId :

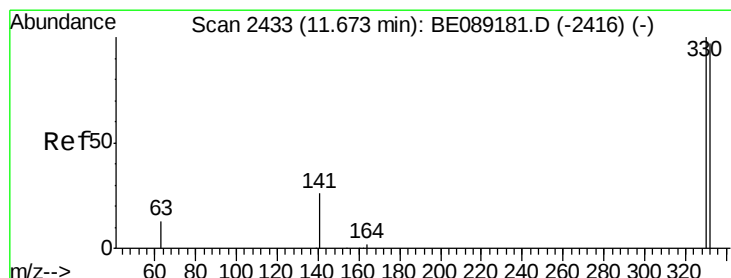
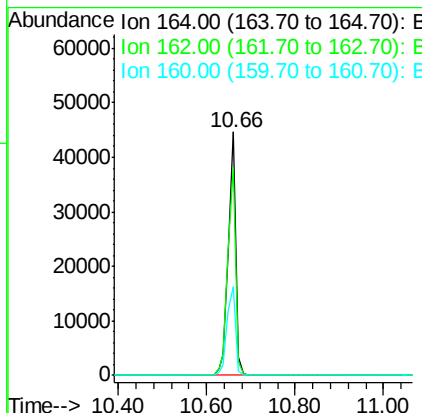
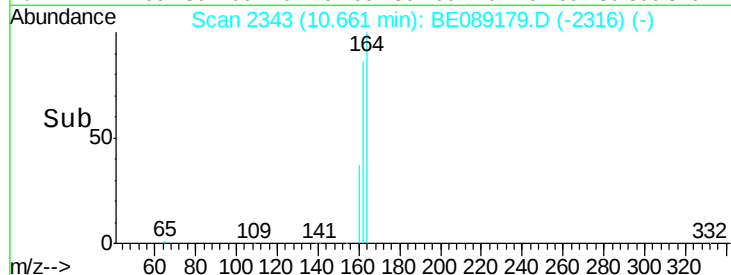
SSTDICC0.5



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 51075 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 85.5  | 68.0  | 102.0 |
| 160       | 36.2  | 28.2  | 42.2  |

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#14

2,4,6-Tribromophenol

Concen: 0.55 ng

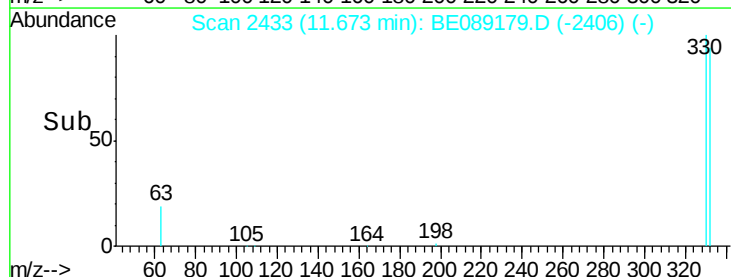
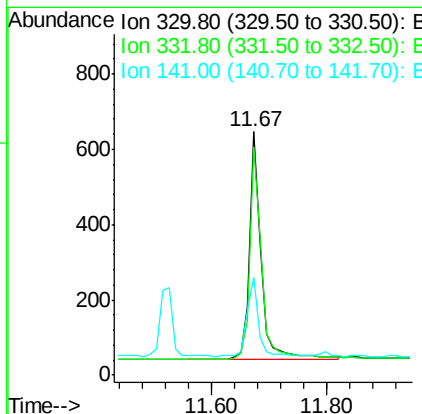
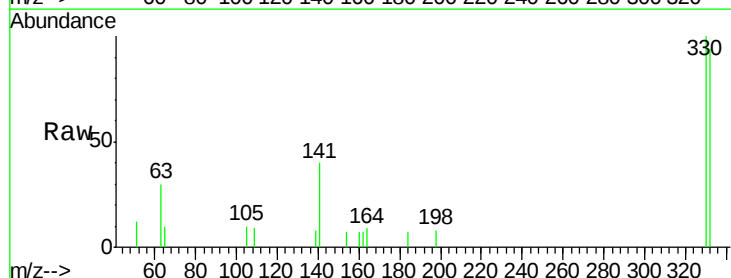
RT: 11.67 min Scan# 2433

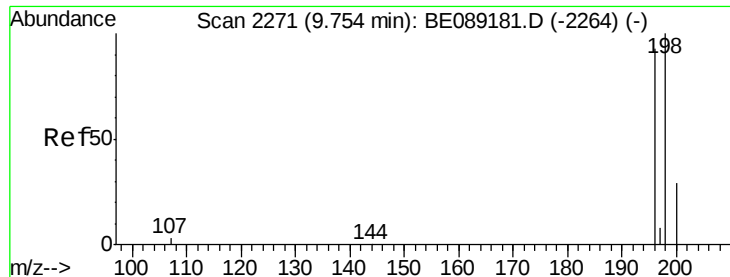
Delta R.T. -0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 860   |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 97.0  | 76.8  | 115.2 |
| 141       | 35.0  | 28.4  | 42.6  |





#15

2,4,6-Trichlorophenol

Concen: 0.59 ng

RT: 9.75 min Scan# 2271

Delta R.T. 0.00 min

Lab File: BE089179.D

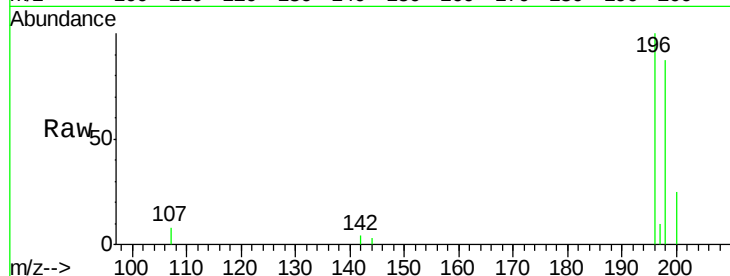
Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

LabSampleId :

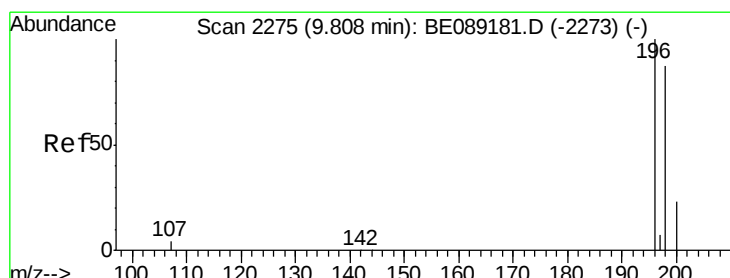
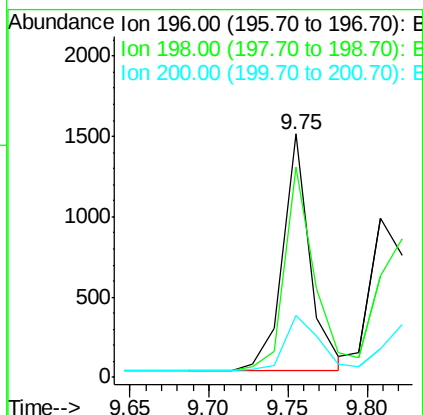
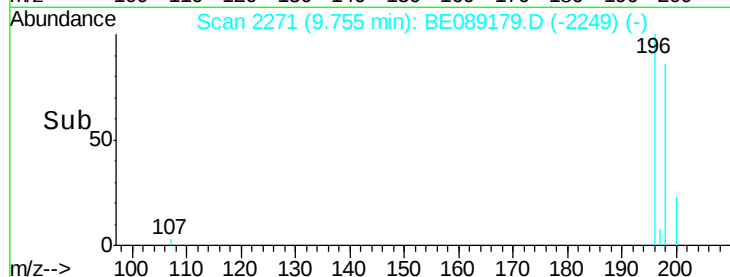
SSTDIC0.5



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 196   | Resp: | 1768  |
| Ion Ratio | Lower | Upper |       |
| 196       | 100   |       |       |
| 198       | 86.6  | 85.6  | 128.4 |
| 200       | 25.5  | 25.4  | 38.2  |

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#16

2,4,5-Trichlorophenol

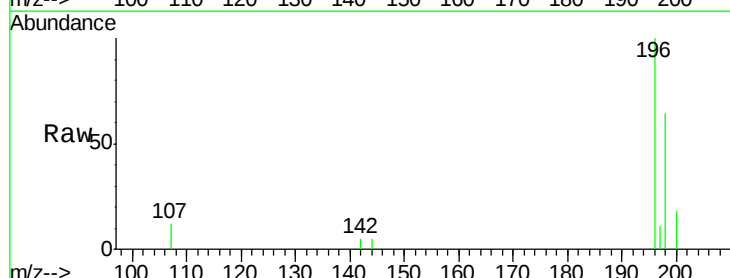
Concen: 0.64 ng m

RT: 9.81 min Scan# 2275

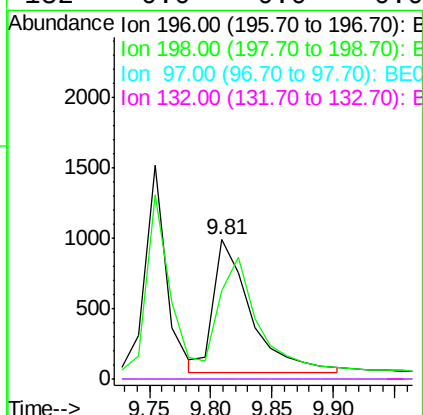
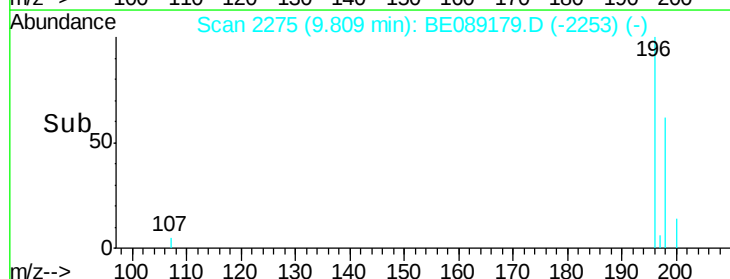
Delta R.T. 0.00 min

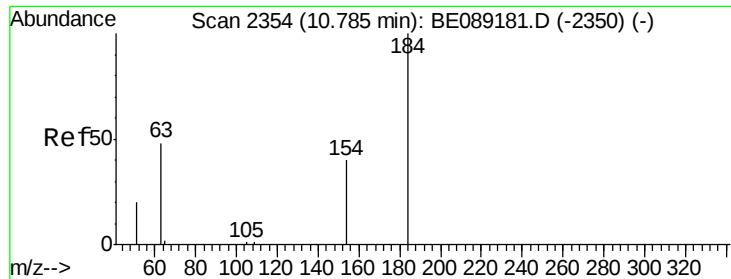
Lab File: BE089179.D

Acq: 8 Dec 2014 22:54



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 2065   |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 63.7  | 70.8  | 106.2# |
| 97        | 0.0   | 0.0   | 0.0    |
| 132       | 0.0   | 0.0   | 0.0    |





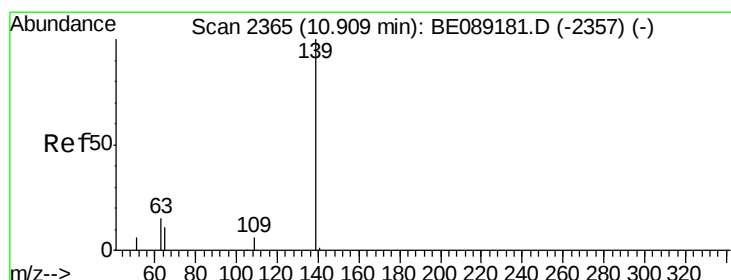
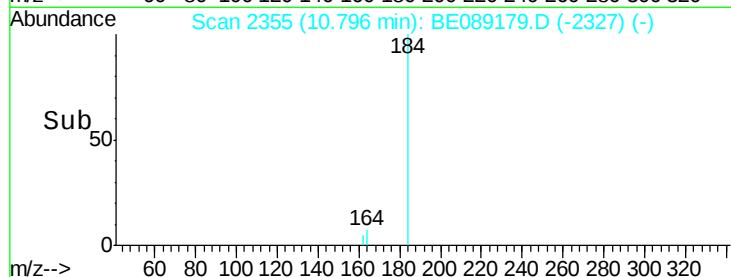
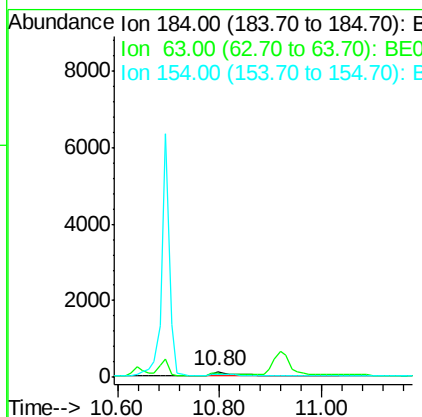
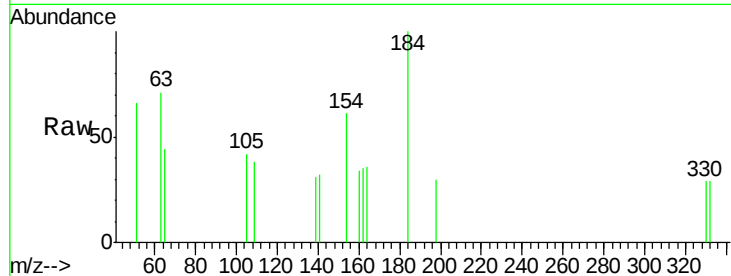
#17  
2,4-Dinitrophenol  
Concen: 0.99 ng  
RT: 10.80 min Scan# 2355  
Delta R.T. 0.01 min  
Lab File: BE089179.D  
Acq: 8 Dec 2014 22:54

Instrument :  
BNA\_E  
LabSampleId :  
SSTDIC0.5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 63      | 70.9  | 45.2  | 67.8# |
| 154     | 60.9  | 39.5  | 59.3# |

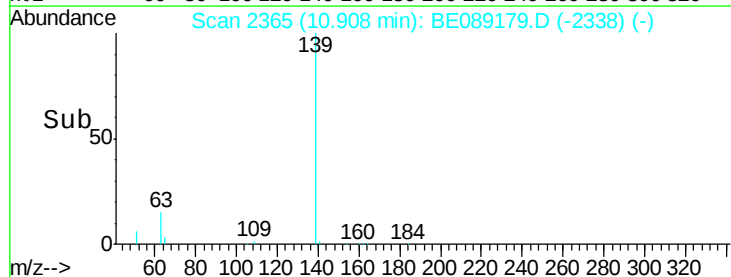
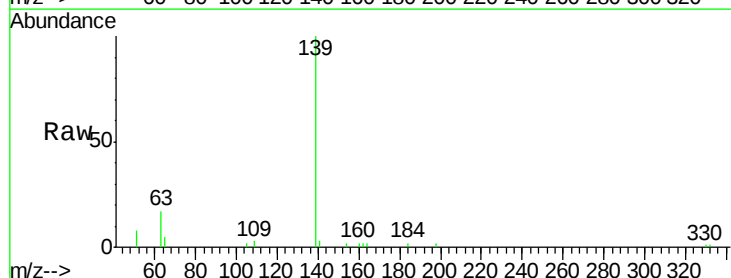
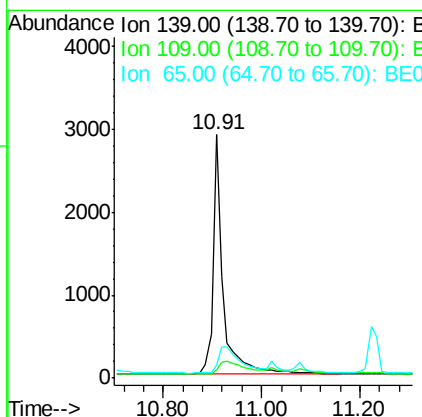
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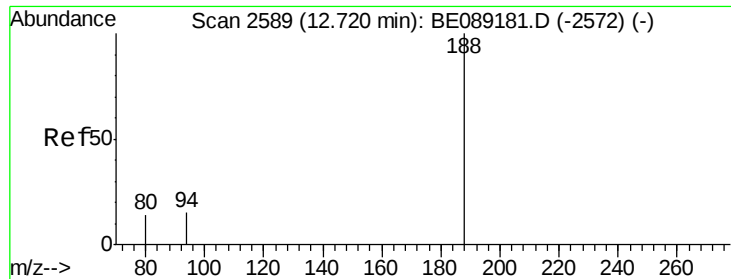
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#18  
4-Nitrophenol  
Concen: 1.65 ng  
RT: 10.91 min Scan# 2365  
Delta R.T. -0.00 min  
Lab File: BE089179.D  
Acq: 8 Dec 2014 22:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 3.1   | 0.0   | 26.6  |
| 65      | 5.3   | 0.0   | 31.7  |





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.72 min Scan# 2589

Delta R.T. -0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

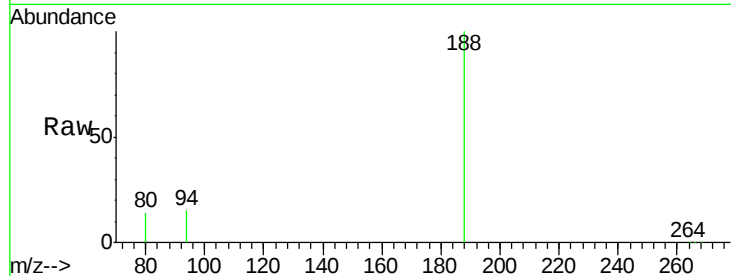
LabSampleId :

SSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 78274 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 14.9  | 11.7  | 17.5  |
| 80        | 14.4  | 11.0  | 16.4  |

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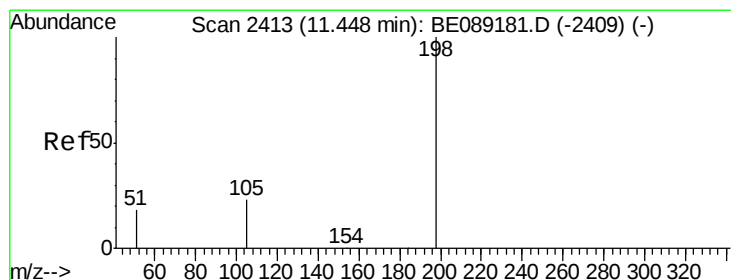
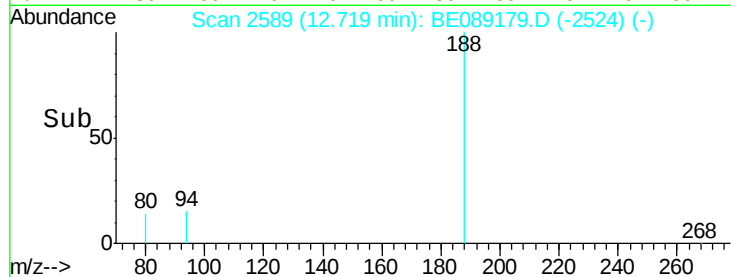
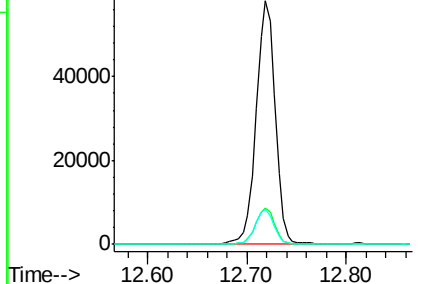
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.85 ng

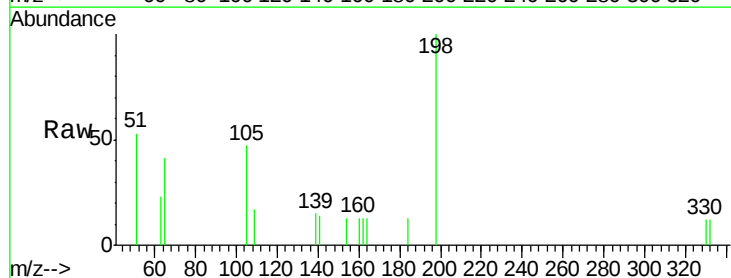
RT: 11.45 min Scan# 2413

Delta R.T. -0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

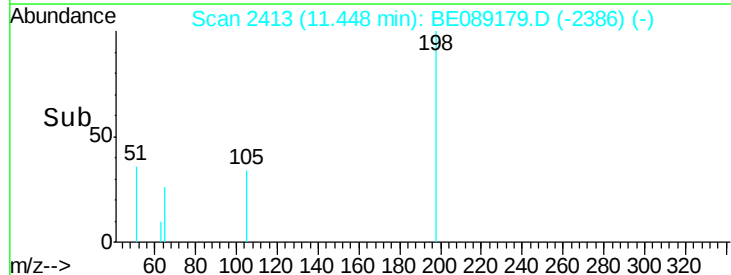
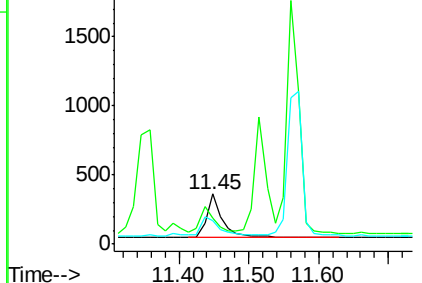
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 198   | Resp: | 517   |
| Ion Ratio | Lower | Upper |       |
| 198       | 100   |       |       |
| 51        | 52.6  | 10.8  | 50.8# |
| 105       | 47.4  | 10.4  | 50.4  |

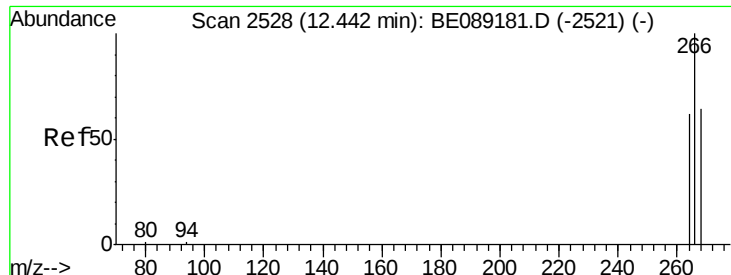


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BE0

Ion 105.00 (104.70 to 105.70): E





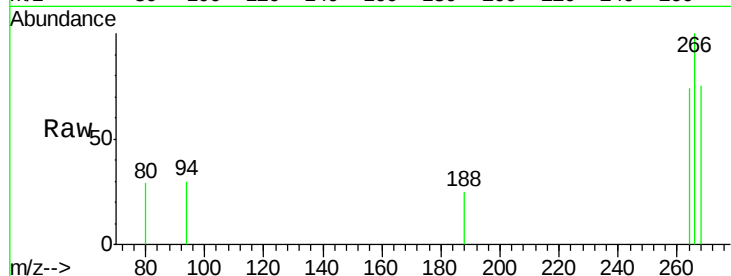
#21  
 Pentachlorophenol  
 Concen: 0.57 ng  
 RT: 12.45 min Scan# 2529  
 Delta R.T. 0.00 min  
 Lab File: BE089179.D  
 Acq: 8 Dec 2014 22:54

Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDICC0.5

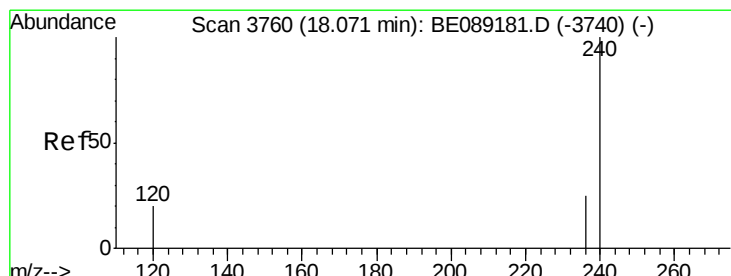
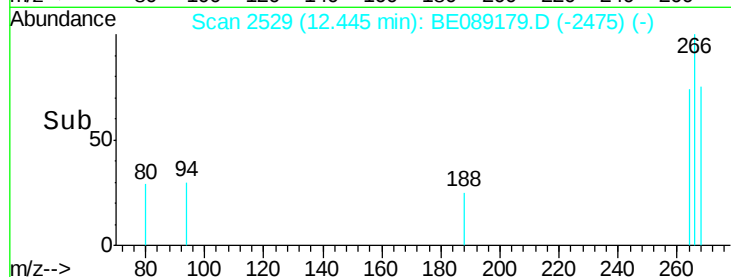
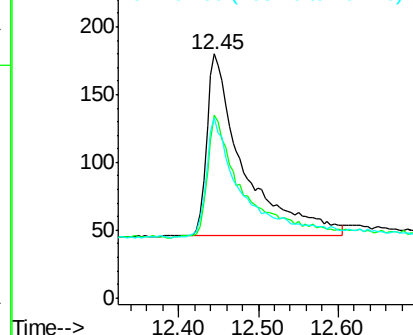
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 75.0  | 53.9  | 80.9  |
| 264     | 73.9  | 52.6  | 78.8  |

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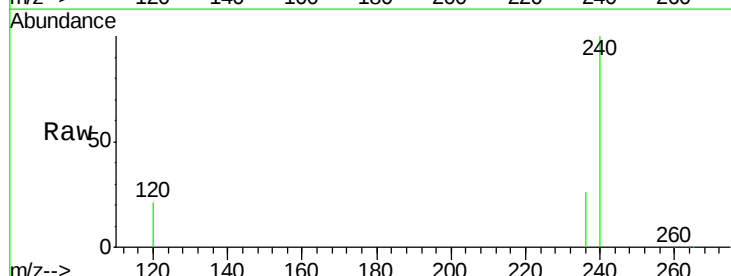


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

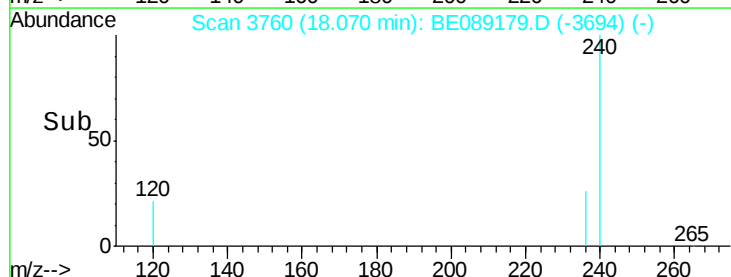
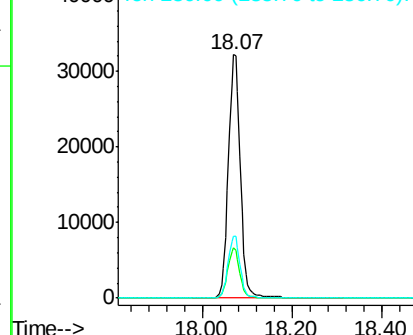


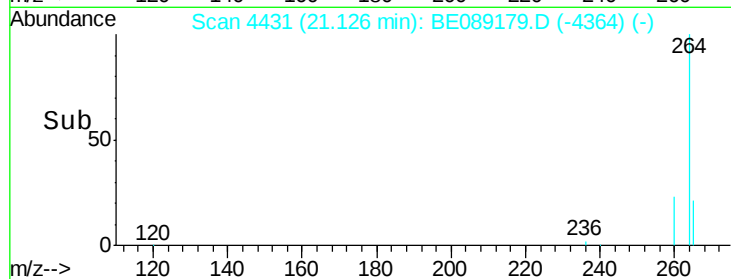
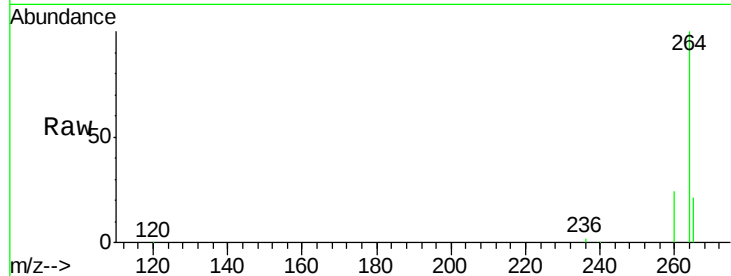
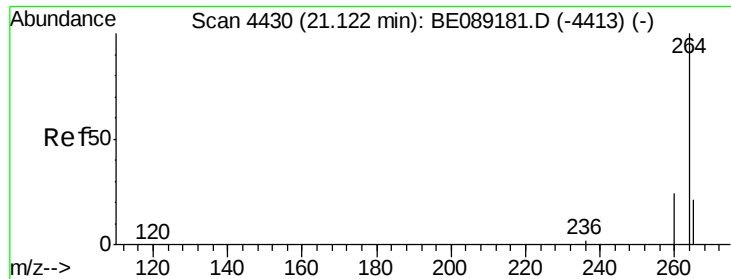
#22  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 18.07 min Scan# 3760  
 Delta R.T. -0.00 min  
 Lab File: BE089179.D  
 Acq: 8 Dec 2014 22:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 20.8  | 15.8  | 23.8  |
| 236     | 25.7  | 20.2  | 30.4  |



Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#23

Perylene-d12

Concen: 5.00 ng

RT: 21.13 min Scan# 4431

Delta R.T. 0.00 min

Lab File: BE089179.D

Acq: 8 Dec 2014 22:54

Instrument :

BNA\_E

LabSampleId :

SSTDIC0.5

Tgt Ion: 264 Resp: 54860

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

265 21.4 17.2 25.8

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