

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072916\  
 Data File : BF089410.D  
 Acq On : 29 Jul 2016 14:17  
 Operator : UM/SJ  
 Sample : H4265-02  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WCUL-COMP(1-5)

Quant Time: Jul 29 15:57:53 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 28 16:02:32 2016  
 Response via : Initial Calibration

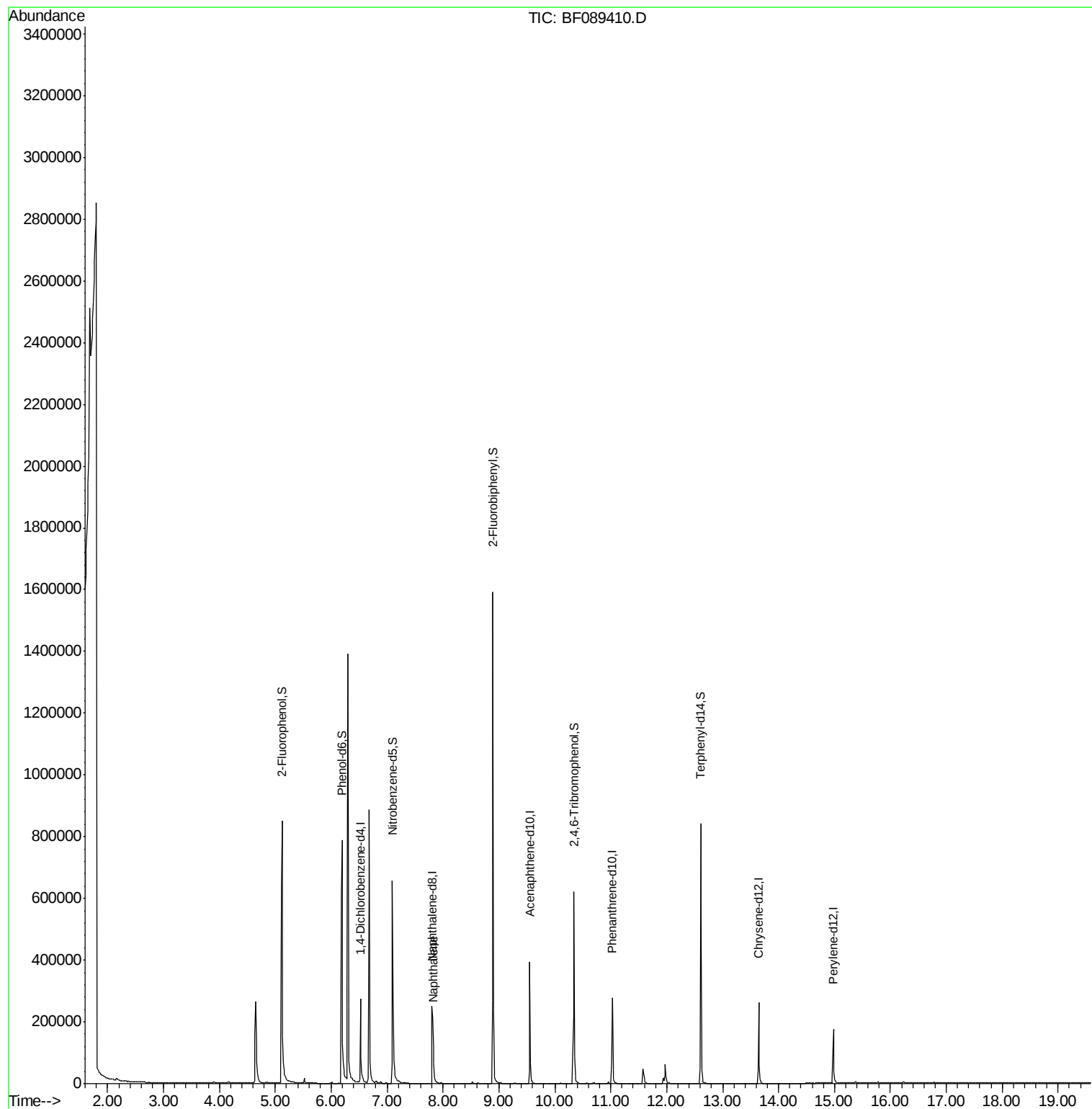
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)      |
|-----------------------------|-------|------|----------|--------|-------|---------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.52  | 152  | 51253    | 20.00  | ng    | -0.02         |
| 21) Naphthalene-d8          | 7.80  | 136  | 187468   | 20.00  | ng    | -0.02         |
| 38) Acenaphthene-d10        | 9.55  | 164  | 77738    | 20.00  | ng    | -0.02         |
| 63) Phenanthrene-d10        | 11.03 | 188  | 122179   | 20.00  | ng    | -0.02         |
| 75) Chrysene-d12            | 13.65 | 240  | 101782   | 20.00  | ng    | -0.02         |
| 86) Perylene-d12            | 14.98 | 264  | 84193    | 20.00  | ng    | -0.02         |
| System Monitoring Compounds |       |      |          |        |       |               |
| 5) 2-Fluorophenol           | 5.12  | 112  | 387961   | 120.86 | ng    | 0.01          |
| 7) Phenol-d6                | 6.19  | 99   | 464461   | 109.49 | ng    | -0.01         |
| 23) Nitrobenzene-d5         | 7.10  | 82   | 304766   | 95.96  | ng    | -0.02         |
| 41) 2,4,6-Tribromophenol    | 10.34 | 330  | 74587    | 115.85 | ng    | -0.02         |
| 44) 2-Fluorobiphenyl        | 8.89  | 172  | 509556   | 96.20  | ng    | -0.02         |
| 78) Terphenyl-d14           | 12.61 | 244  | 344373   | 79.19  | ng    | -0.02         |
| Target Compounds            |       |      |          |        |       |               |
| 31) Naphthalene             | 7.83  | 128  | 62035    | 6.68   | ng    | Qvalue<br>100 |

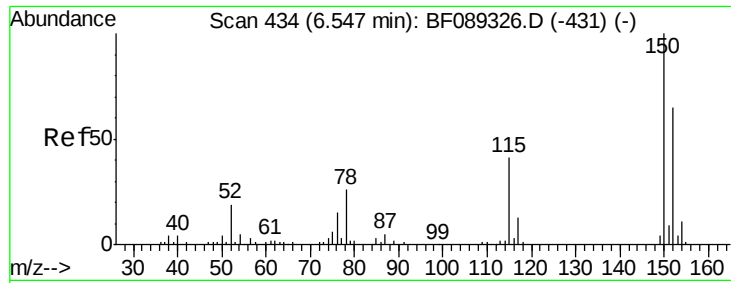
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072916\  
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Acq On : 29 Jul 2016 14:17  
Operator : UM/SJ  
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Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WCUL-COMP(1-5)

Quant Time: Jul 29 15:57:53 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 28 16:02:32 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.52 min Scan# 432

Delta R.T. -0.02 min

Lab File: BF089410.D

Acq: 29 Jul 2016 14:17

Instrument :

BNA\_F

ClientSampleId :

WCUL-COMP(1-5)

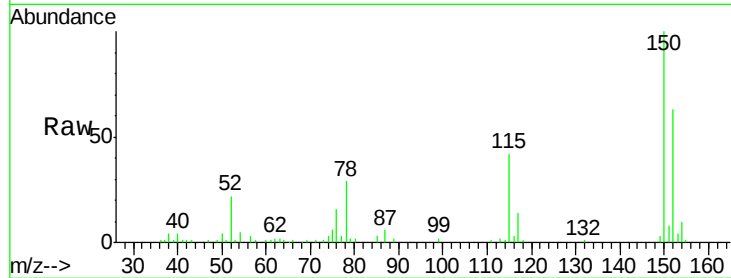
Tgt Ion:152 Resp: 51253

Ion Ratio Lower Upper

152 100

150 158.1 129.5 194.3

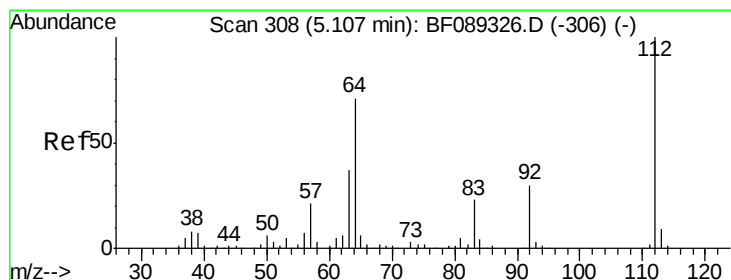
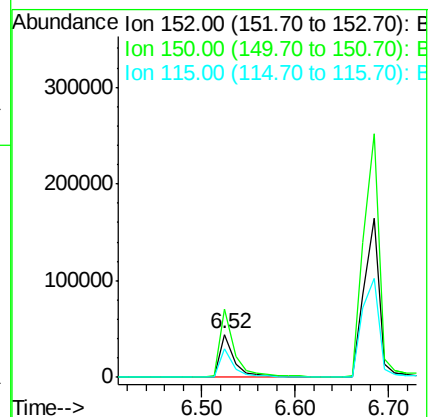
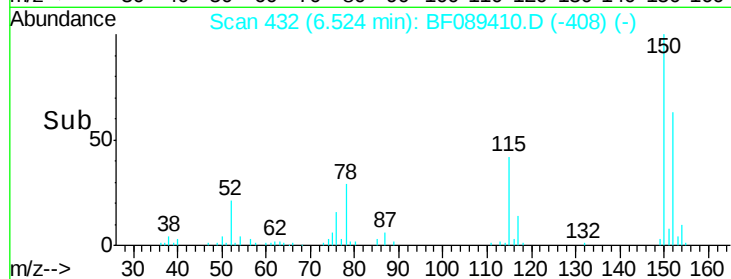
115 65.6 51.4 77.2



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



#5

2-Fluorophenol

Concen: 120.86 ng

RT: 5.12 min Scan# 309

Delta R.T. 0.01 min

Lab File: BF089410.D

Acq: 29 Jul 2016 14:17

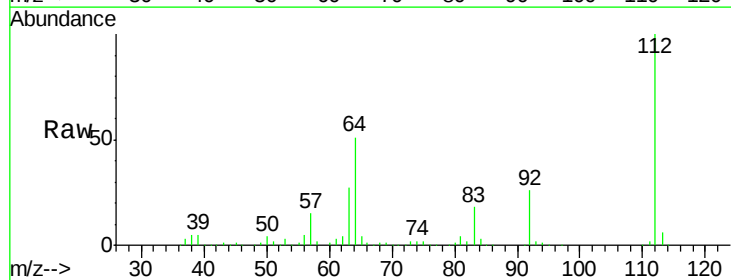
Tgt Ion:112 Resp: 387961

Ion Ratio Lower Upper

112 100

64 50.5 55.0 82.6#

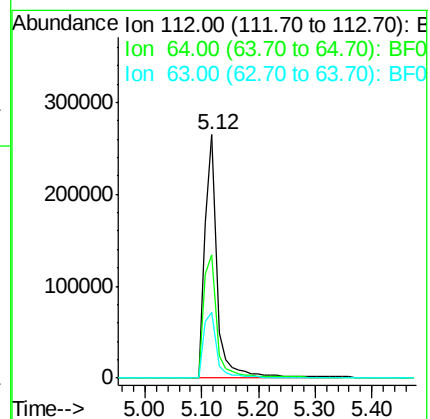
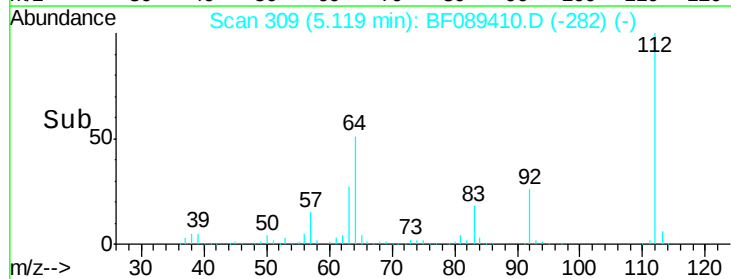
63 27.2 29.4 44.2#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 109.49 ng

RT: 6.19 min Scan# 403

Delta R.T. -0.01 min

Lab File: BF089410.D

Acq: 29 Jul 2016 14:17

Instrument :

BNA\_F

ClientSampleId :

WCUL-COMP(1-5)

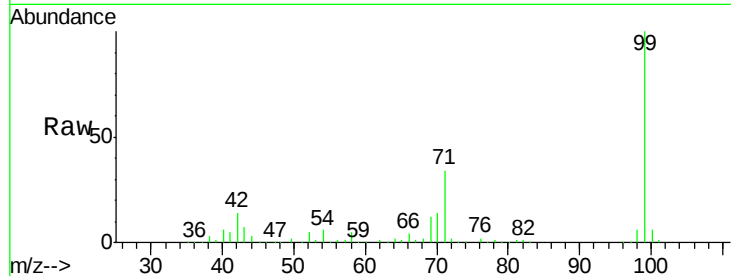
Tgt Ion: 99 Resp: 464461

Ion Ratio Lower Upper

99 100

42 13.9 13.6 20.4

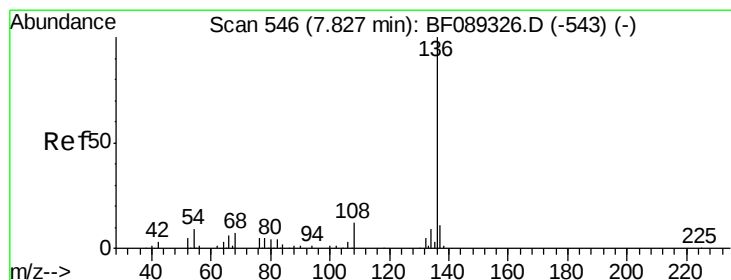
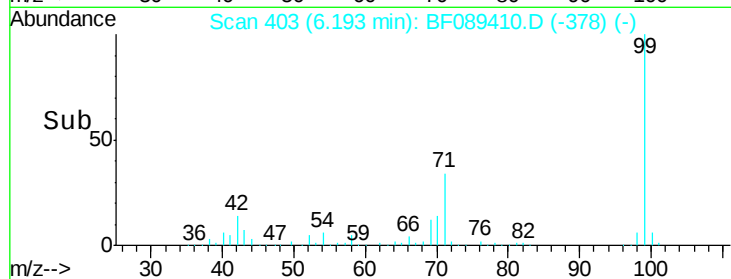
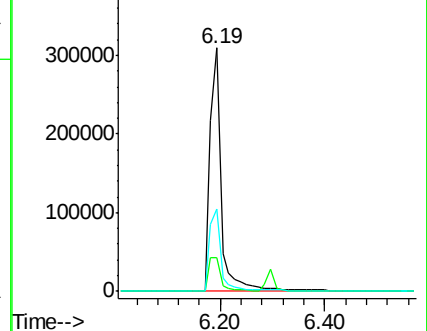
71 33.9 29.4 44.2



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.80 min Scan# 544

Delta R.T. -0.02 min

Lab File: BF089410.D

Acq: 29 Jul 2016 14:17

Tgt Ion: 136 Resp: 187468

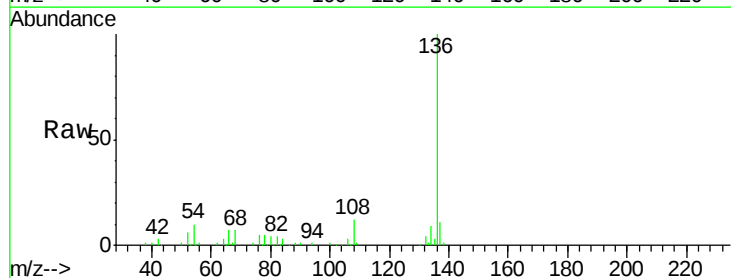
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 9.8 7.0 10.4

68 7.3 4.9 7.3#

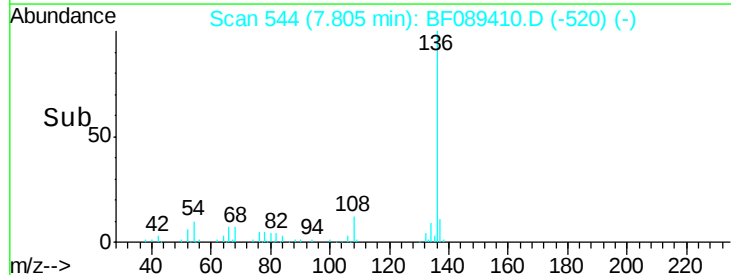
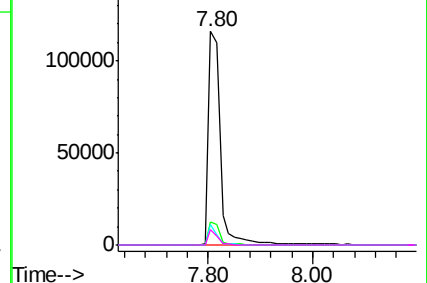


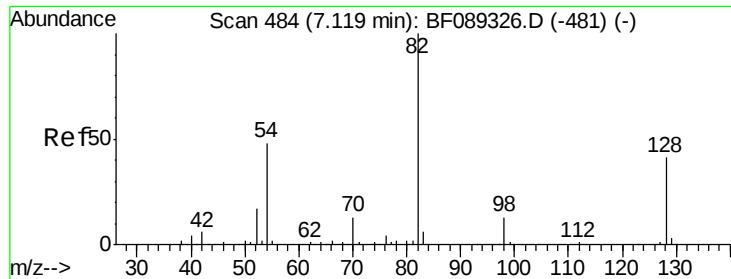
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

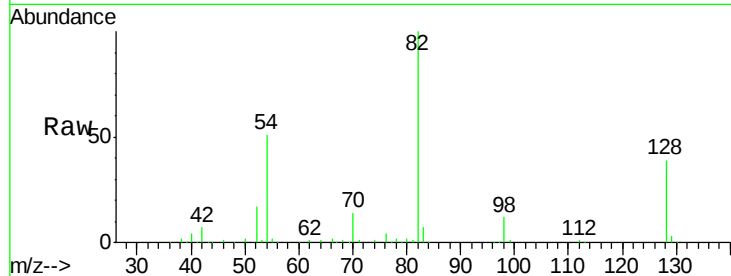




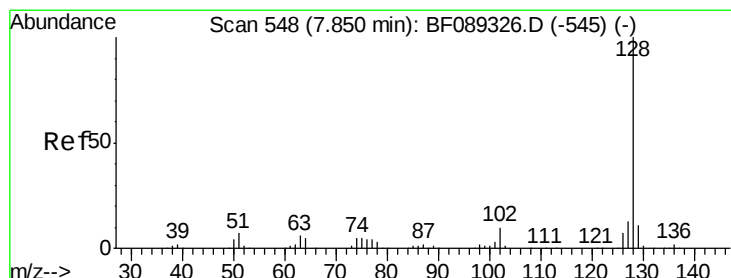
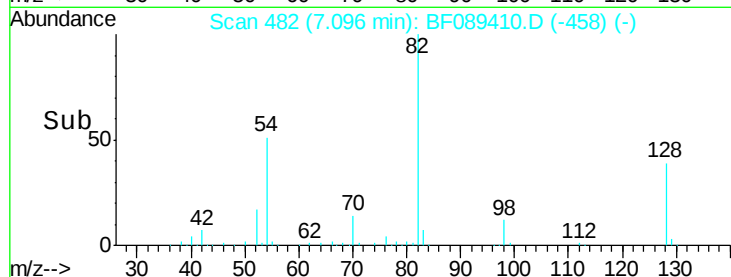
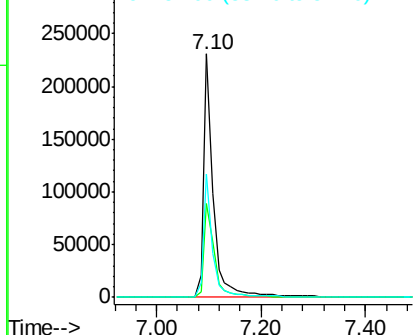
#23  
 Nitrobenzene-d5  
 Concen: 95.96 ng  
 RT: 7.10 min Scan# 482  
 Delta R.T. -0.02 min  
 Lab File: BF089410.D  
 Acq: 29 Jul 2016 14:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WCUL-COMP(1-5)

Tgt Ion: 82 Resp: 304766  
 Ion Ratio Lower Upper  
 82 100  
 128 38.7 32.5 48.7  
 54 50.5 38.8 58.2

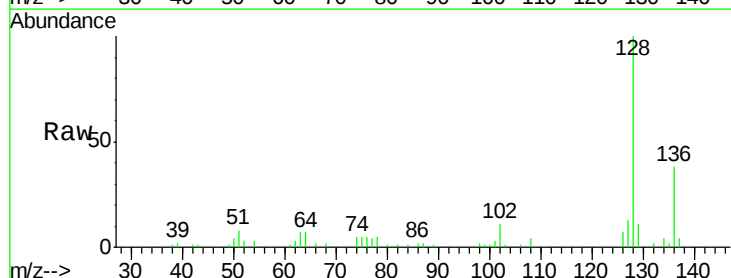


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

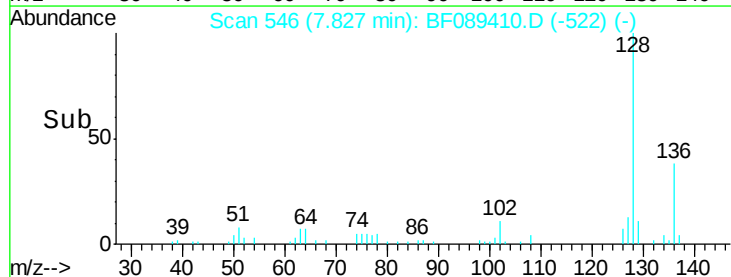
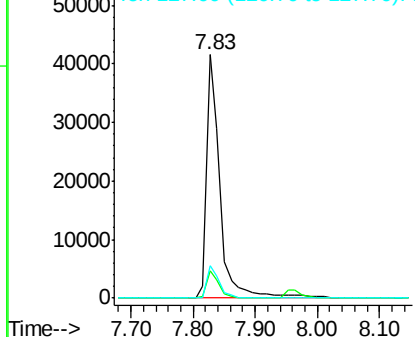


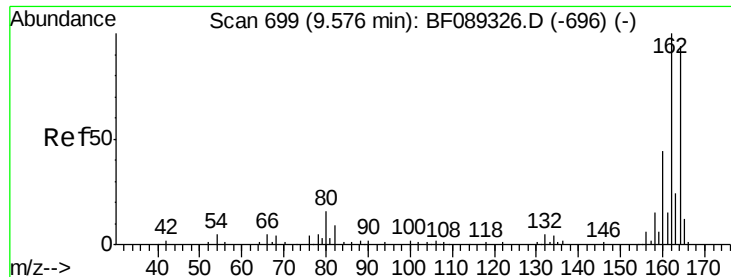
#31  
 Naphthalene  
 Concen: 6.68 ng  
 RT: 7.83 min Scan# 546  
 Delta R.T. -0.02 min  
 Lab File: BF089410.D  
 Acq: 29 Jul 2016 14:17

Tgt Ion: 128 Resp: 62035  
 Ion Ratio Lower Upper  
 128 100  
 129 11.2 8.8 13.2  
 127 13.4 10.8 16.2



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.02 min

Lab File: BF089410.D

Acq: 29 Jul 2016 14:17

Instrument :

BNA\_F

ClientSampleId :

WCUL-COMP(1-5)

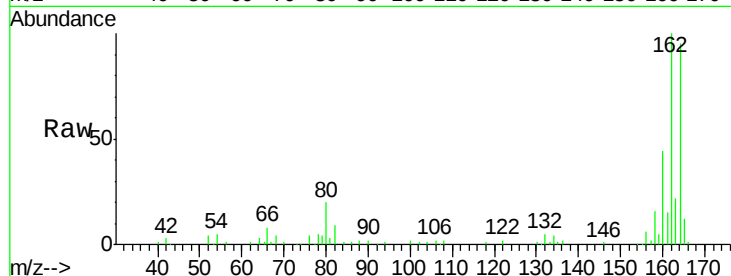
Tgt Ion:164 Resp: 77738

Ion Ratio Lower Upper

164 100

162 105.4 83.7 125.5

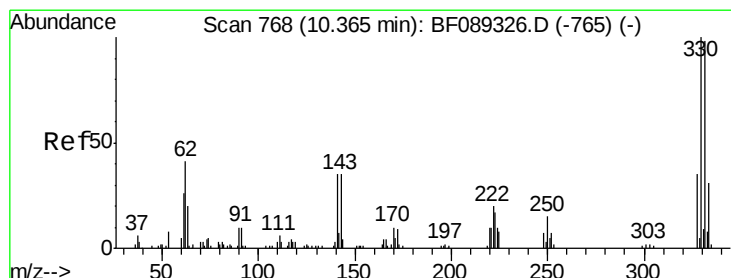
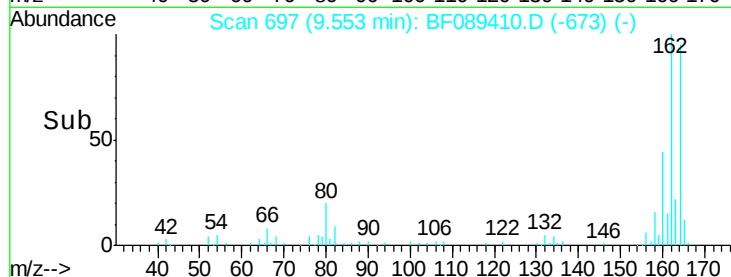
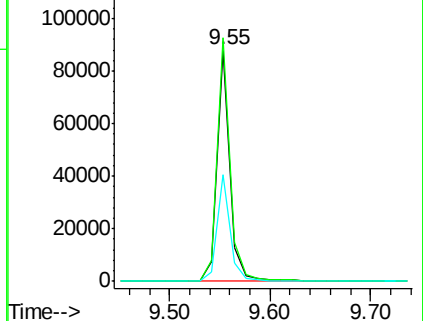
160 46.1 37.8 56.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 115.85 ng

RT: 10.34 min Scan# 766

Delta R.T. -0.02 min

Lab File: BF089410.D

Acq: 29 Jul 2016 14:17

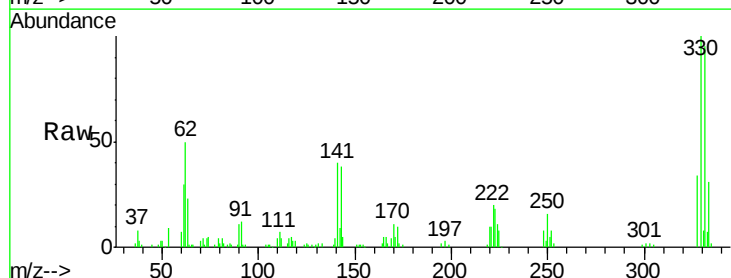
Tgt Ion:330 Resp: 74587

Ion Ratio Lower Upper

330 100

332 96.5 76.8 115.2

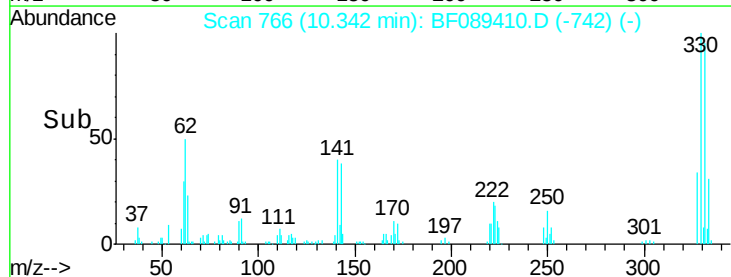
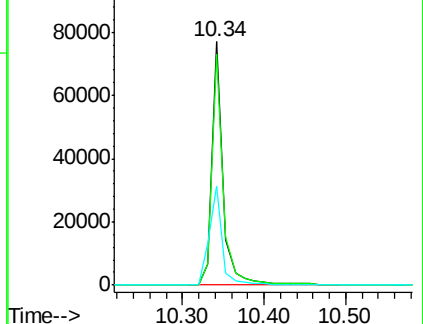
141 47.8 37.3 55.9

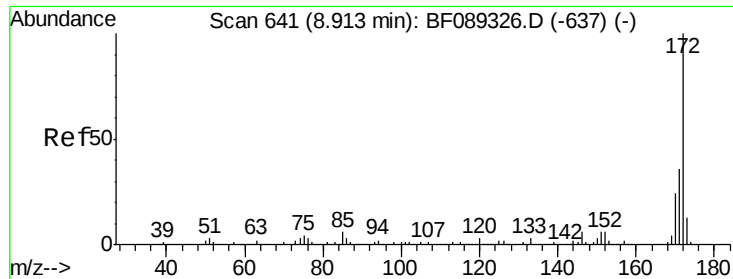


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

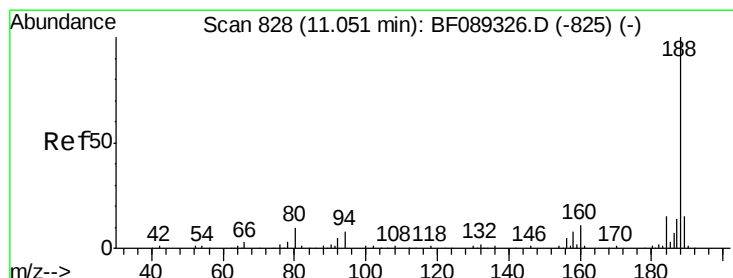
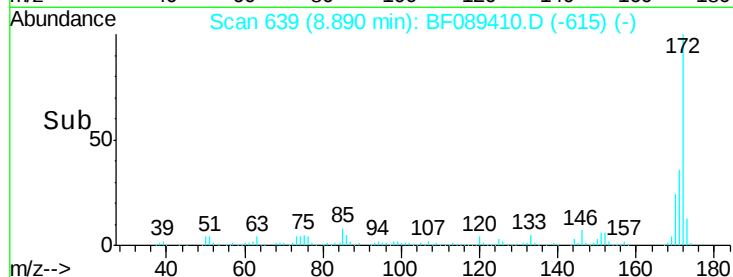
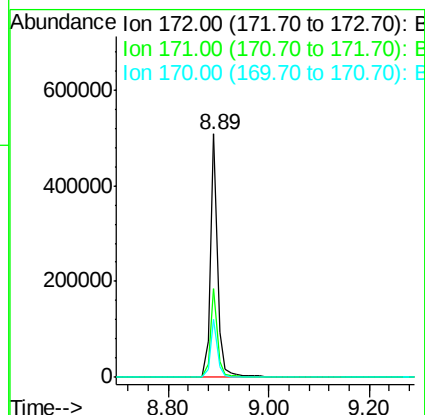
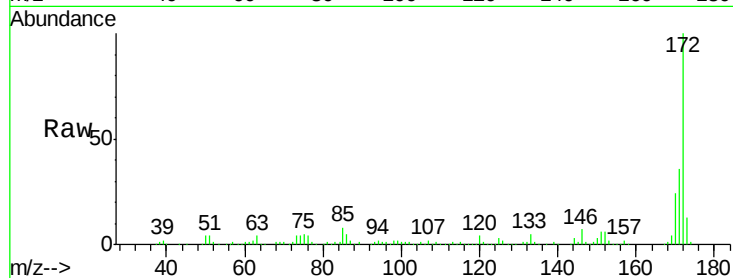




#44  
 2-Fluorobiphenyl  
 Concen: 96.20 ng  
 RT: 8.89 min Scan# 639  
 Delta R.T. -0.02 min  
 Lab File: BF089410.D  
 Acq: 29 Jul 2016 14:17

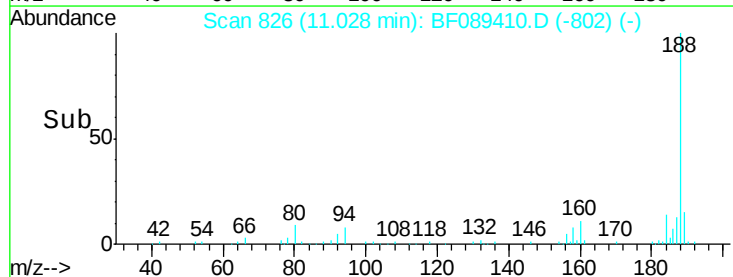
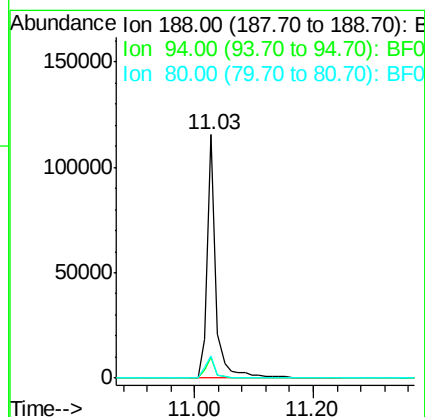
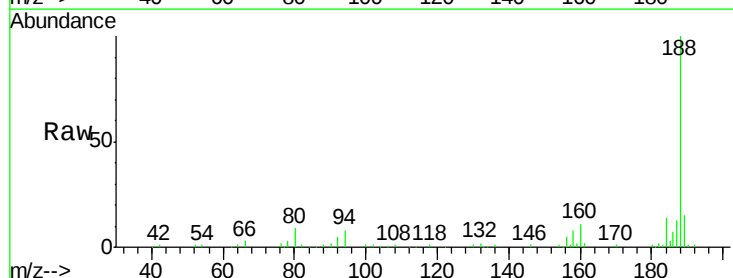
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WCUL-COMP(1-5)

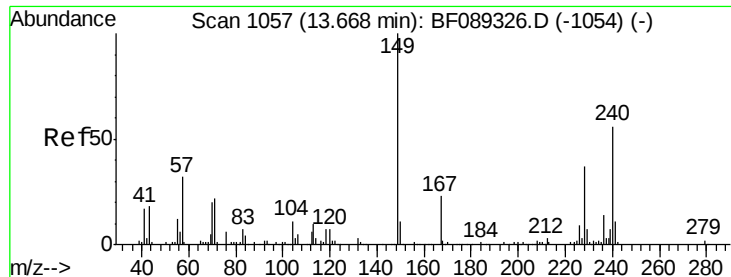
Tgt Ion:172 Resp: 509556  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.2 43.8  
 170 23.9 19.2 28.8



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.03 min Scan# 826  
 Delta R.T. -0.02 min  
 Lab File: BF089410.D  
 Acq: 29 Jul 2016 14:17

Tgt Ion:188 Resp: 122179  
 Ion Ratio Lower Upper  
 188 100  
 94 8.4 6.5 9.7  
 80 9.1 7.2 10.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.65 min Scan# 1055

Delta R.T. -0.02 min

Lab File: BF089410.D

Acq: 29 Jul 2016 14:17

Instrument :

BNA\_F

ClientSampleId :

WCUL-COMP(1-5)

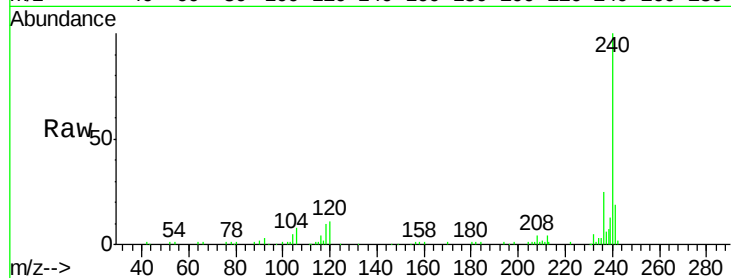
Tgt Ion:240 Resp: 101782

Ion Ratio Lower Upper

240 100

120 11.3 9.1 13.7

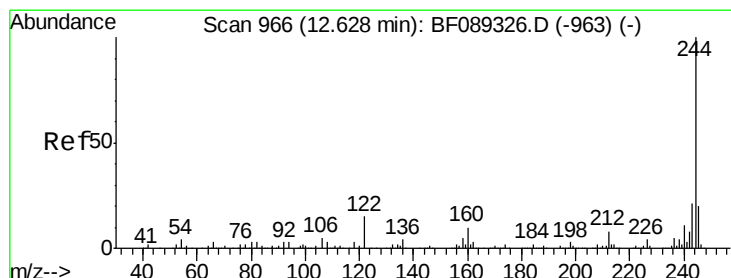
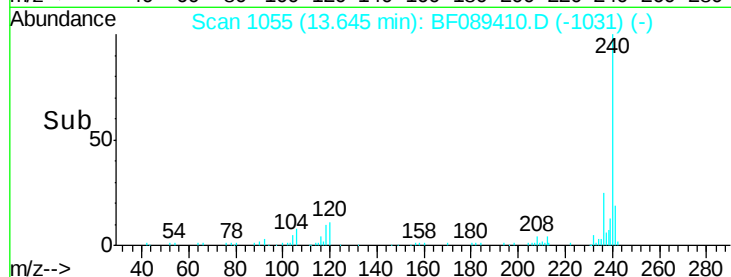
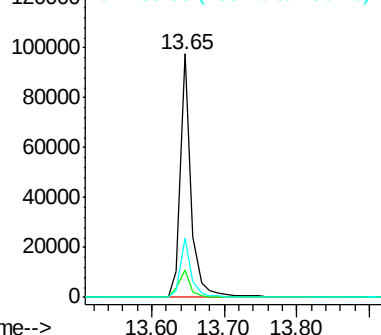
236 24.5 20.6 30.8



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



#78

Terphenyl-d14

Concen: 79.19 ng

RT: 12.61 min Scan# 964

Delta R.T. -0.02 min

Lab File: BF089410.D

Acq: 29 Jul 2016 14:17

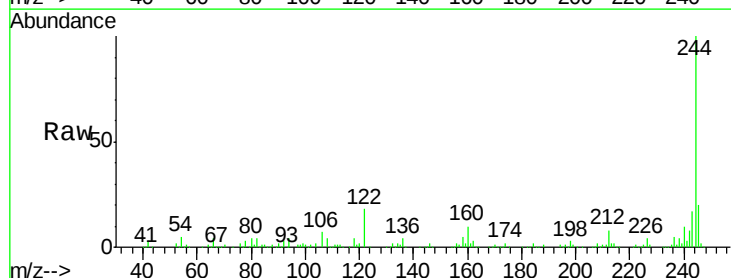
Tgt Ion:244 Resp: 344373

Ion Ratio Lower Upper

244 100

212 8.3 6.5 9.7

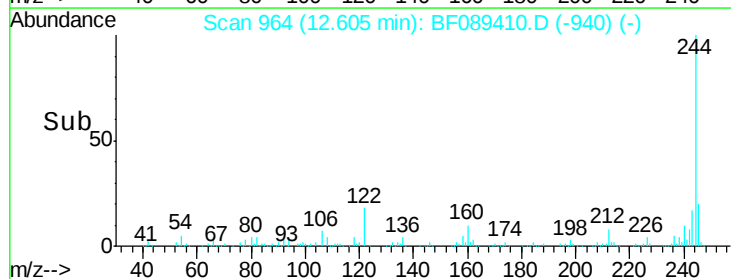
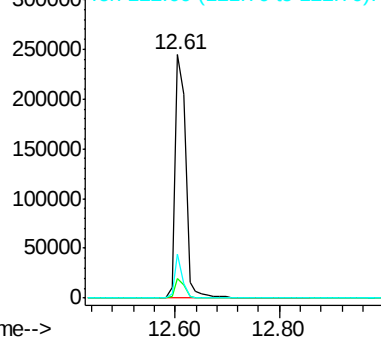
122 18.0 11.4 17.0#

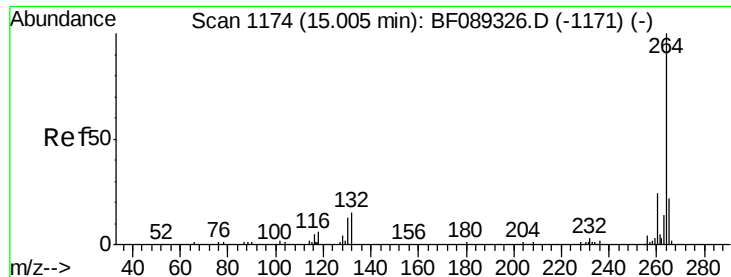


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

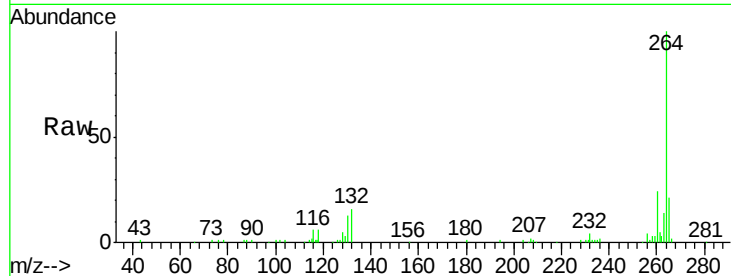




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 14.98 min Scan# 1172  
Delta R.T. -0.02 min  
Lab File: BF089410.D  
Acq: 29 Jul 2016 14:17

Instrument :  
BNA\_F  
ClientSampleId :  
WCUL-COMP(1-5)

Tgt Ion: 264 Resp: 84193  
Ion Ratio Lower Upper  
264 100  
260 23.6 19.0 28.4  
265 20.8 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

