

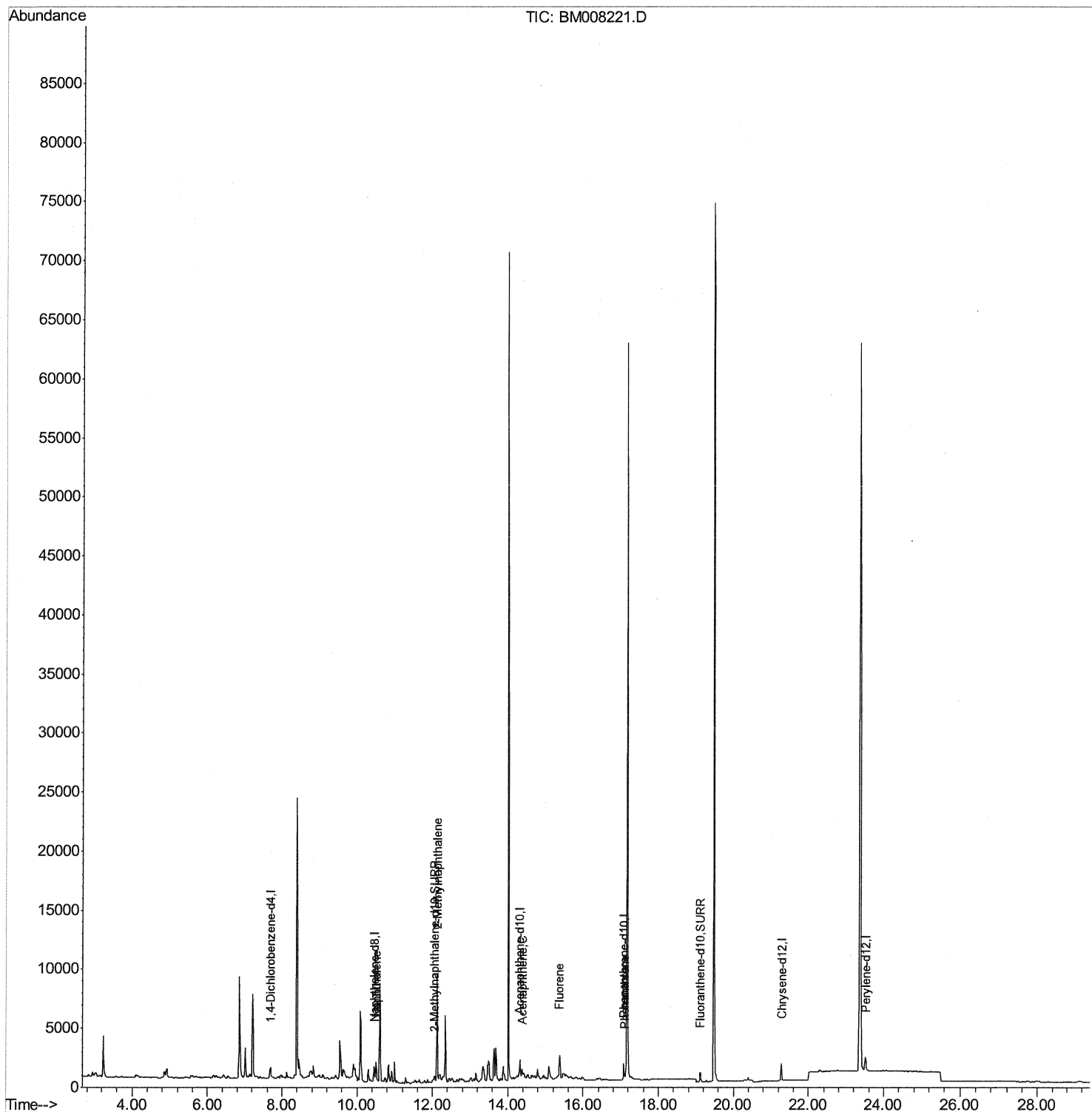
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
Data File : BM008221.D  
Acq On : 10 Dec 2016 00:41  
Operator : UM/SJ  
Sample : H5863-21  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DA801

Manual Integrations  
APPROVED

UMANGI  
12/12/2016 6:49:36 PM

Quant Time: Dec 12 10:27:13 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 12 03:51:49 2016  
Response via : Initial Calibration



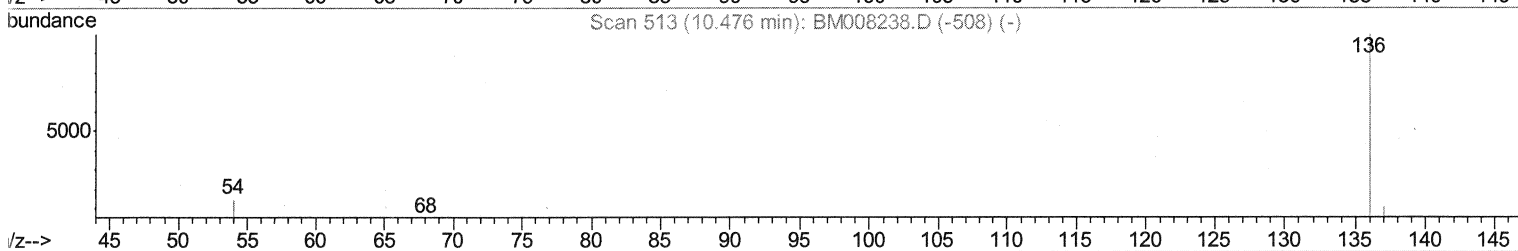
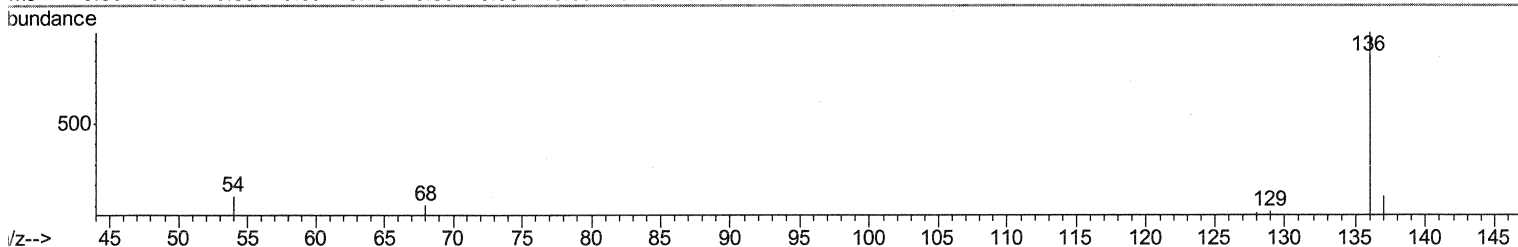
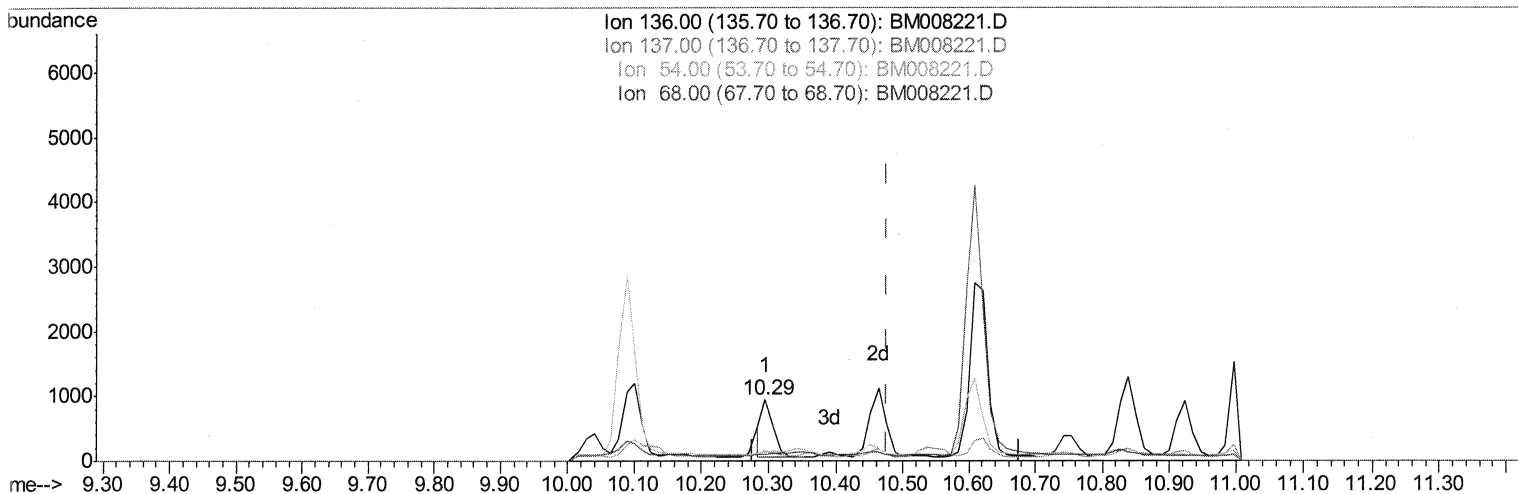
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
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Manual Integrations  
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Quant Time: Dec 12 10:13:45 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 12 03:51:49 2016  
Response via : Initial Calibration



TIC: BM008221.D

(2) Naphthalene-d8 (l)

10.294min (-0.182) 0.40ng/ul

response 1036

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 136.00 | 100   | 100   |
| 137.00 | 13.90 | 15.50 |
| 54.00  | 15.50 | 15.39 |
| 68.00  | 9.90  | 11.04 |

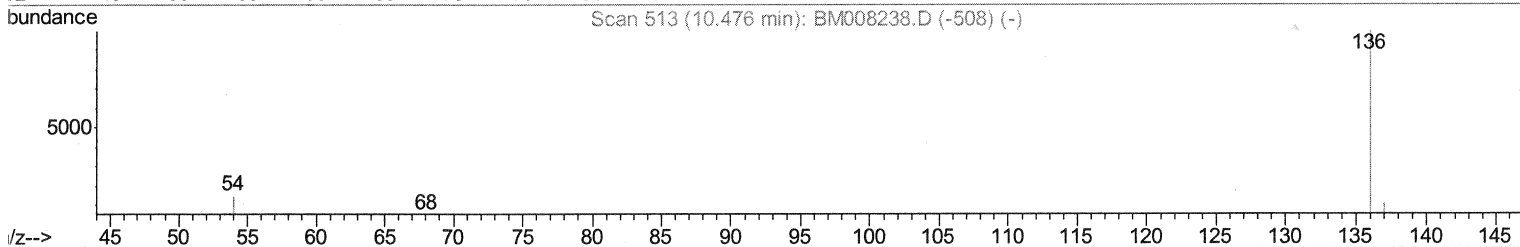
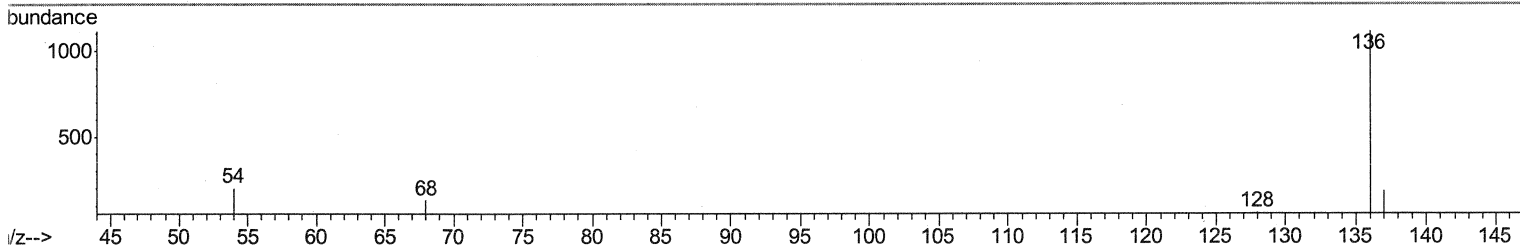
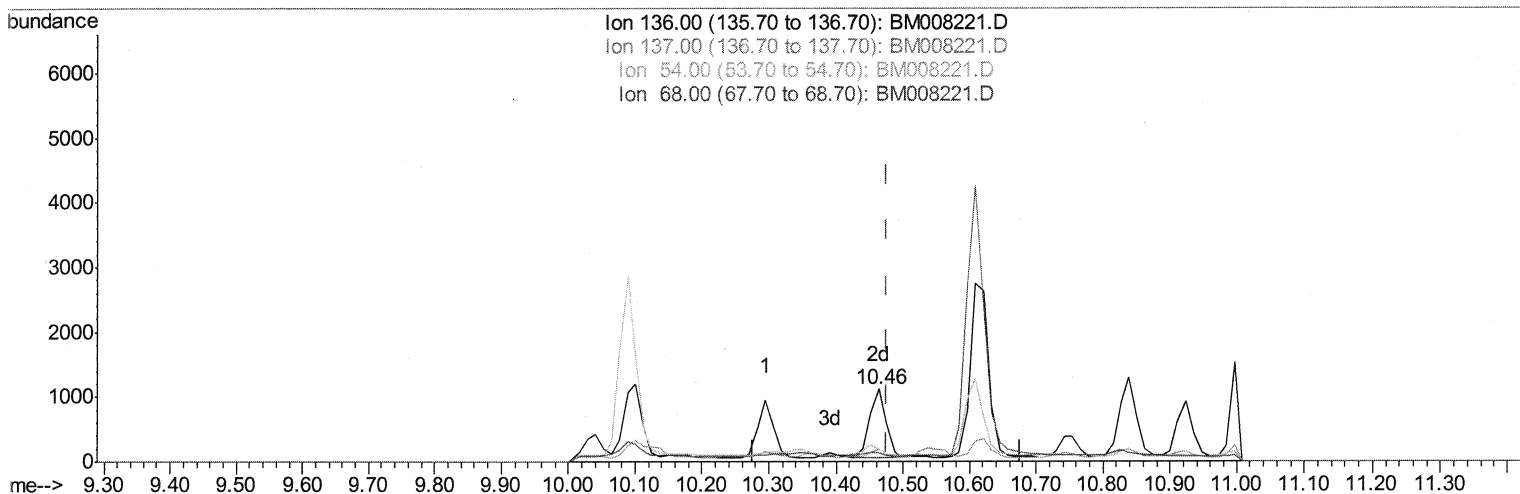
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
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Instrument :  
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Manual Integrations  
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Quant Time: Dec 12 10:13:45 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
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 Response via : Initial Calibration



TIC: BM008221.D

(2) Naphthalene-d8 (l)

10.464min (-0.012) 0.40ng/ul m

*SJ 12/12/16*

response 1781

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 136.00 | 100   | 100    |
| 137.00 | 13.90 | 16.74# |
| 54.00  | 15.50 | 17.82  |
| 68.00  | 9.90  | 11.64  |

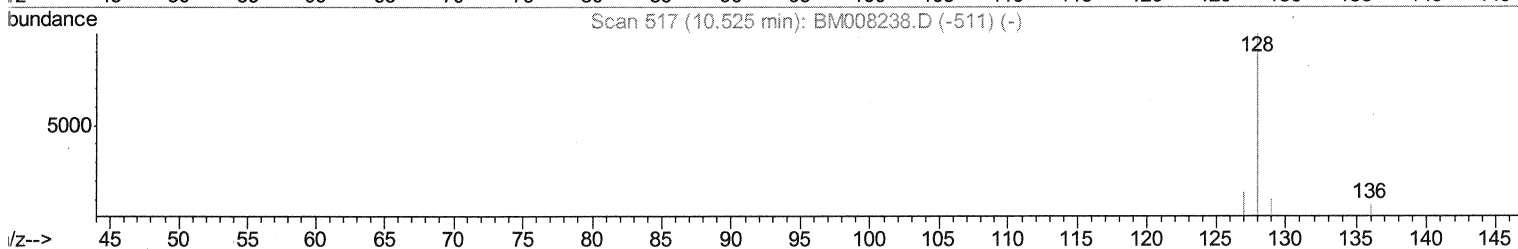
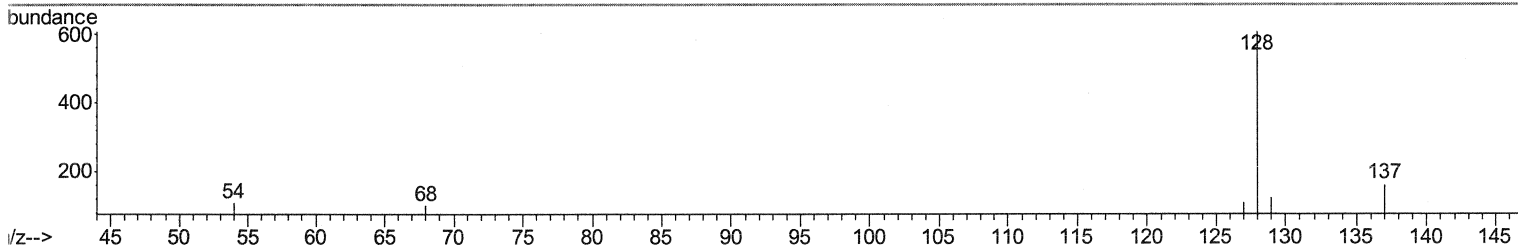
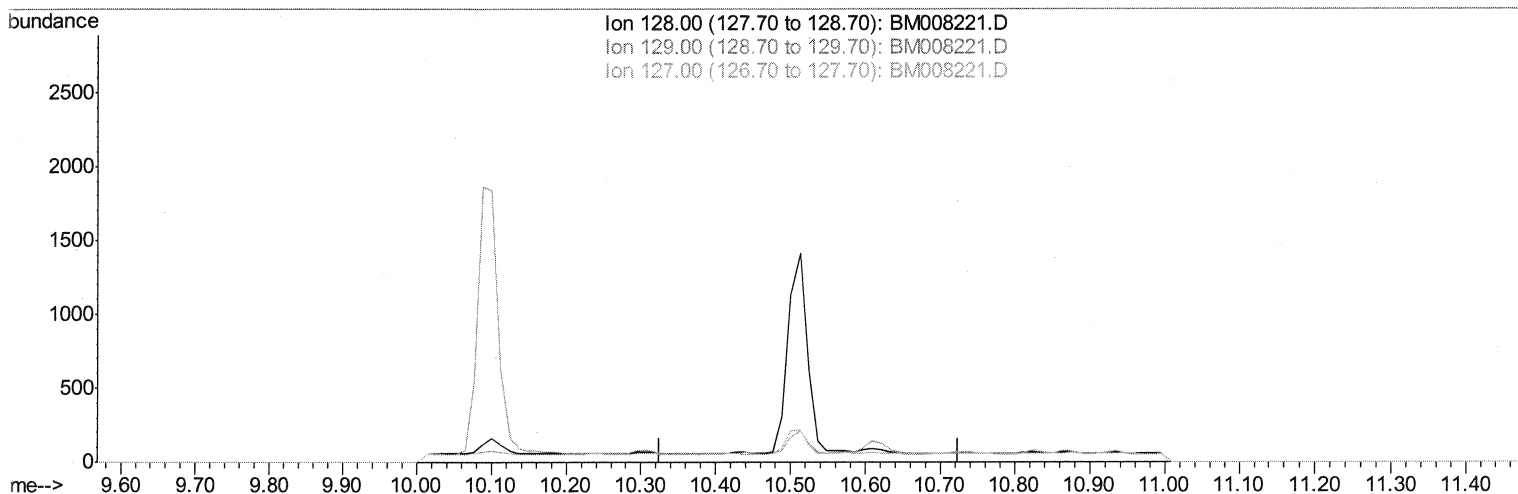
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
Data File : BM008221.D  
Acq On : 10 Dec 2016 00:41  
Operator : UM/SJ  
Sample : H5863-21  
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Instrument :  
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Manual Integrations  
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Quant Time: Dec 12 10:14:16 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
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Response via : Initial Calibration



TIC: BM008221.D

(3) Naphthalene

10.525min (-10.525) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 128.00 | 100   | 0.00  |
| 129.00 | 14.10 | 0.00# |
| 127.00 | 16.00 | 0.00# |
| 0.00   | 0.00  | 0.00  |

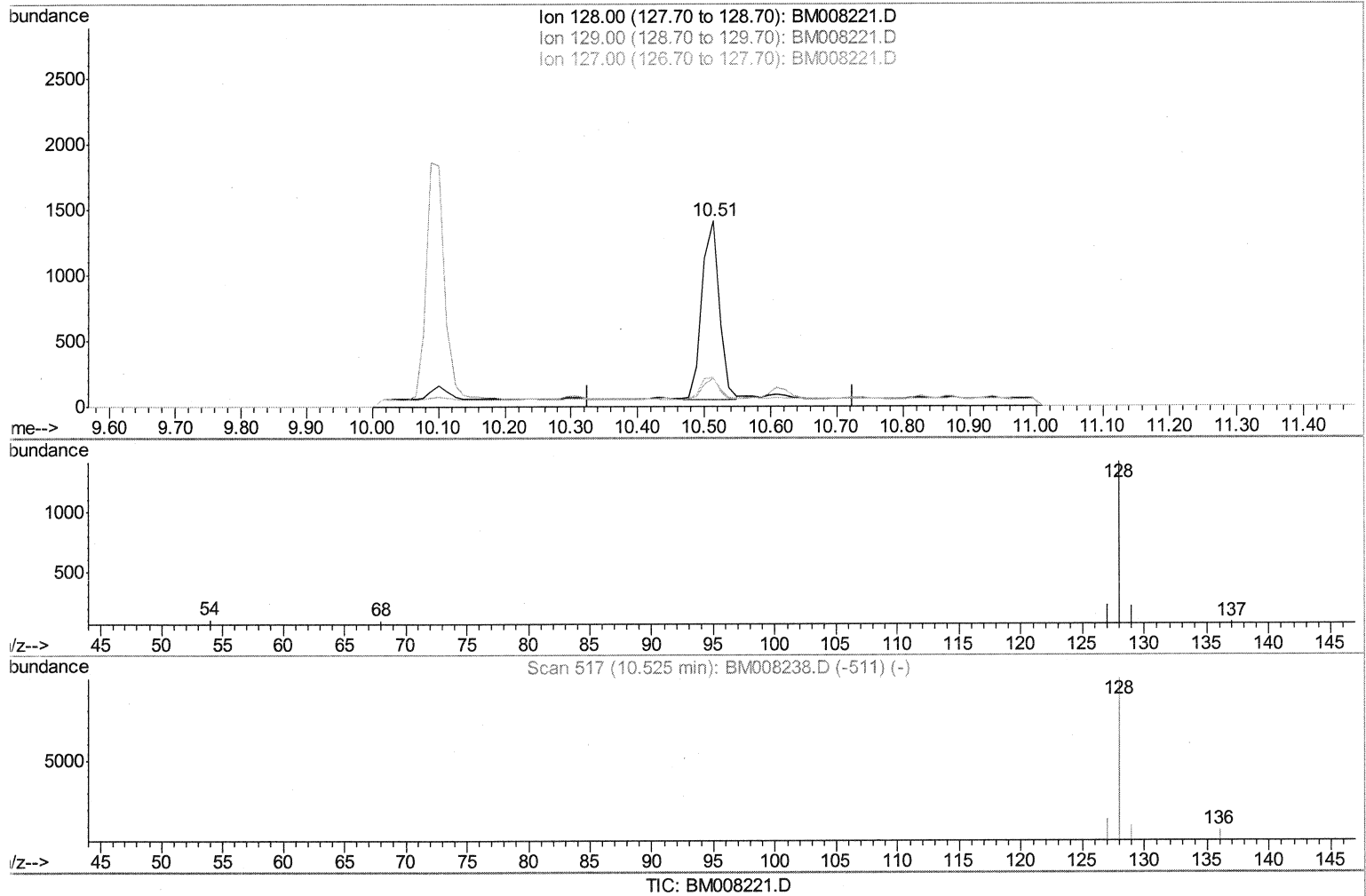
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
Data File : BM008221.D  
Acq On : 10 Dec 2016 00:41  
Operator : UM/SJ  
Sample : H5863-21  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Manual Integrations  
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Quant Time: Dec 12 10:14:16 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
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(3) Naphthalene

10.512min (-0.012) 0.49ng/ul m

61 12/12/16

response 2440

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 128.00 | 100   | 100   |
| 129.00 | 14.10 | 15.30 |
| 127.00 | 16.00 | 15.86 |
| 0.00   | 0.00  | 0.00  |

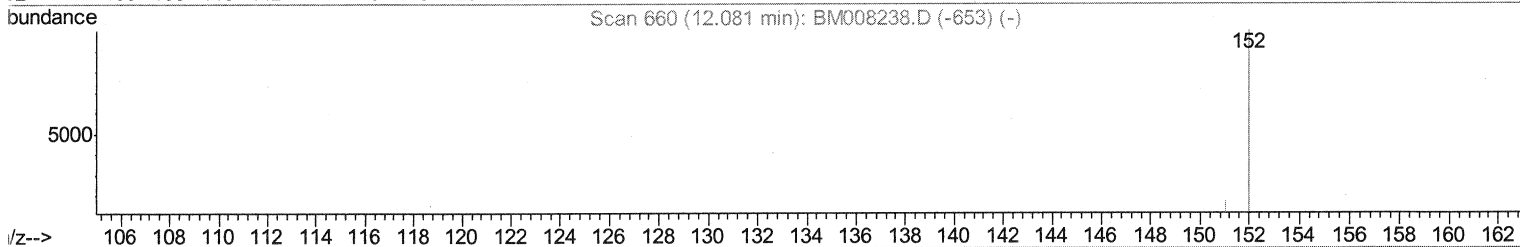
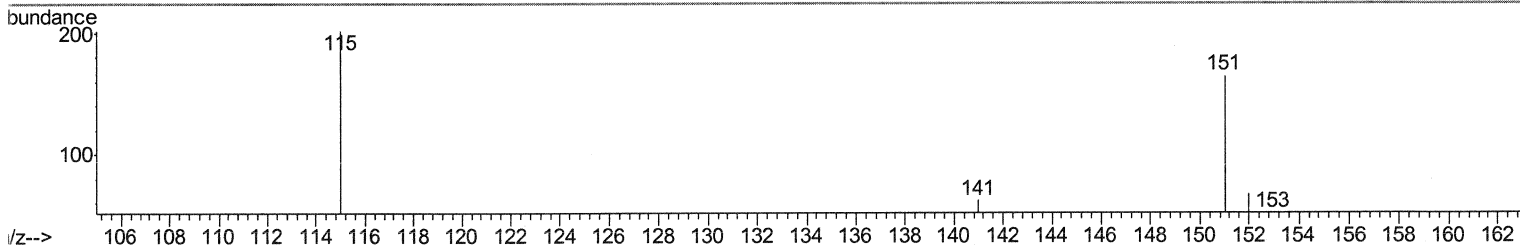
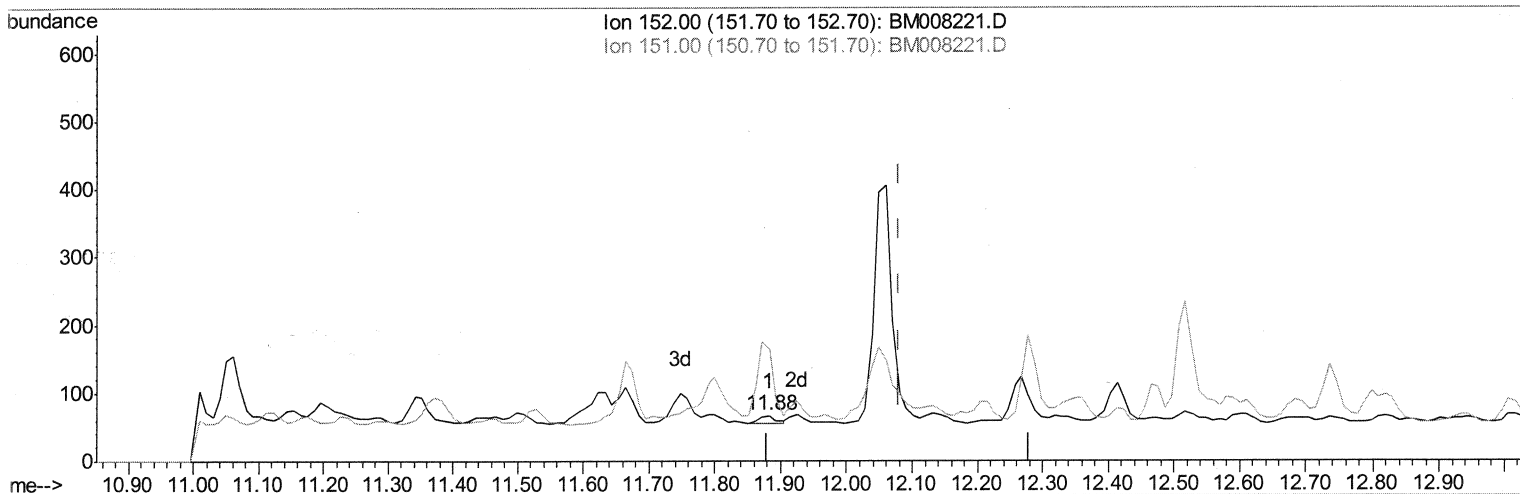
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 Data File : BM008221.D  
 Acq On : 10 Dec 2016 00:41  
 Operator : UM/SJ  
 Sample : H5863-21  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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TIC: BM008221.D

(4) 2-Methylnaphthalene-d10 (SURR)

11.882min (-0.198) 0.01ng/ul

response 21

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 152.00 | 100   | 100     |
| 151.00 | 19.30 | 852.38# |
| 0.00   | 0.00  | 0.00    |
| 0.00   | 0.00  | 0.00    |

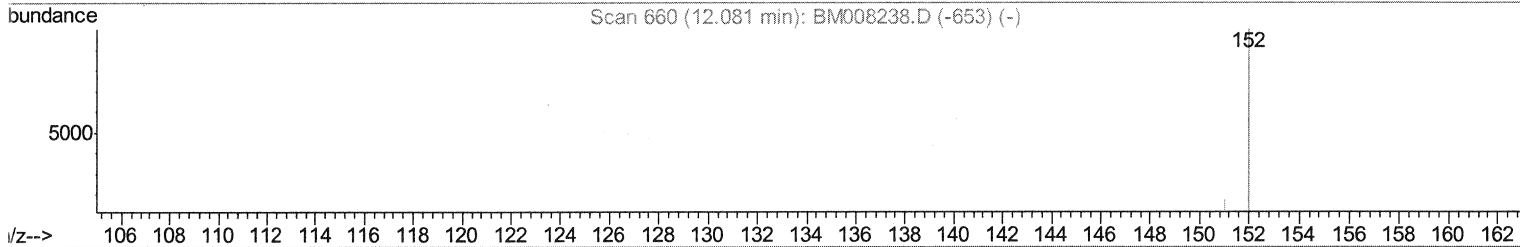
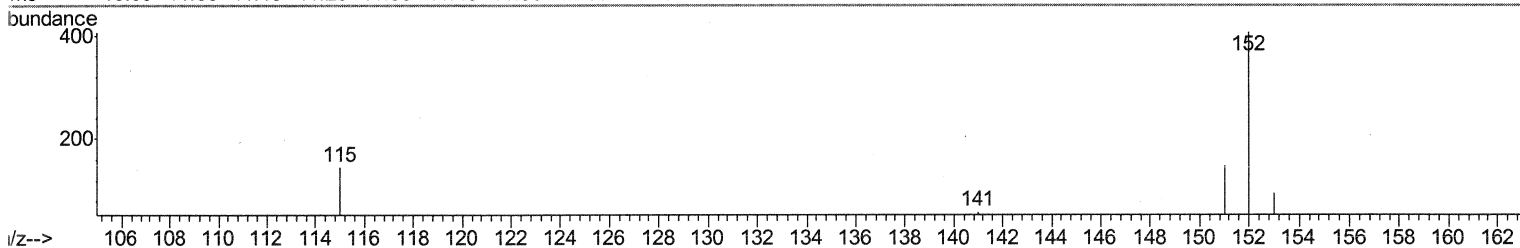
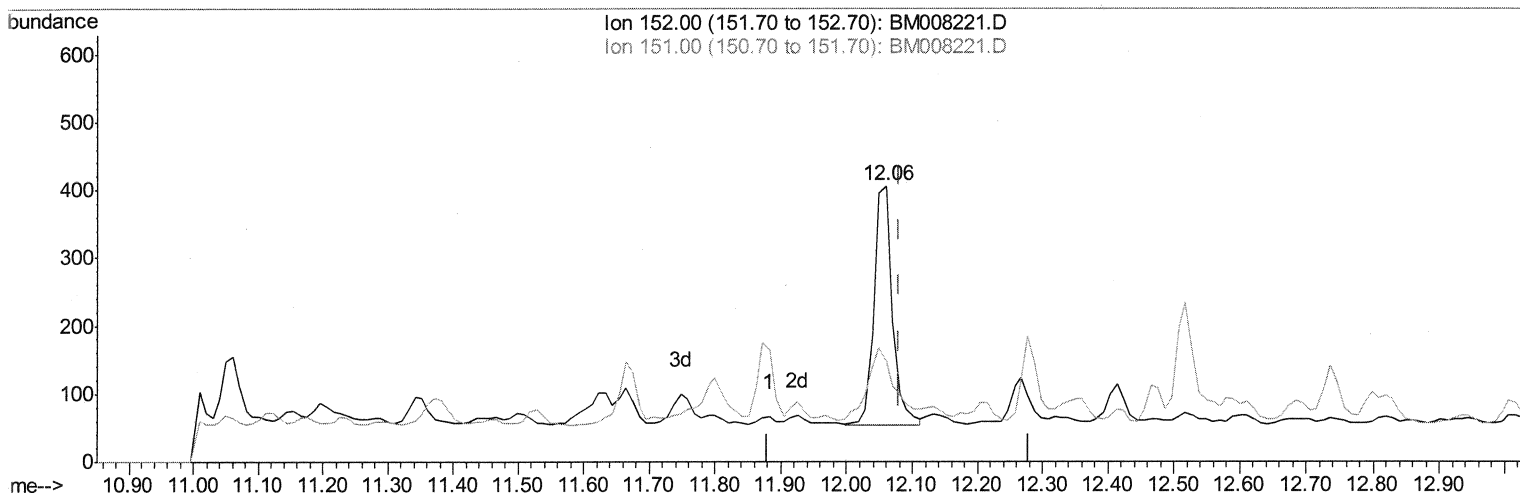
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
 Data File : BM008221.D  
 Acq On : 10 Dec 2016 00:41  
 Operator : UM/SJ  
 Sample : H5863-21  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA801

Manual Integrations  
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Quant Time: Dec 12 10:14:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
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 Response via : Initial Calibration



TIC: BM008221.D

(4) 2-Methylnaphthalene-d10 (SURR)

12.059min (-0.021) 0.27ng/ul m

SJ 12/12/16

response 693

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 152.00 | 100   | 100    |
| 151.00 | 19.30 | 25.83# |
| 0.00   | 0.00  | 0.00   |
| 0.00   | 0.00  | 0.00   |



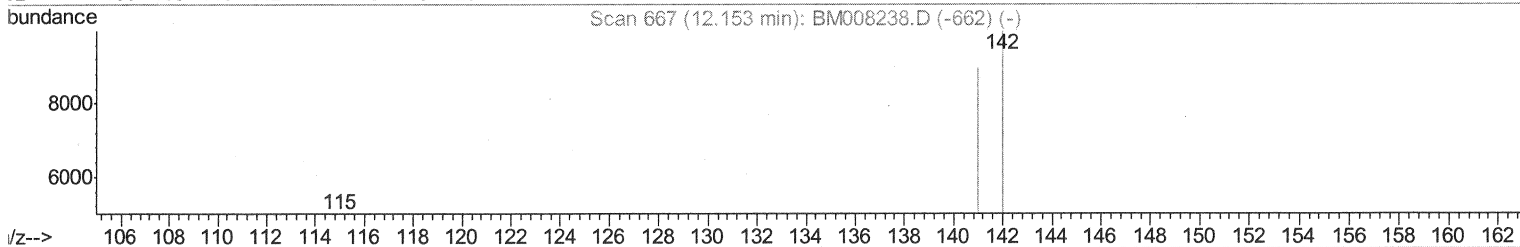
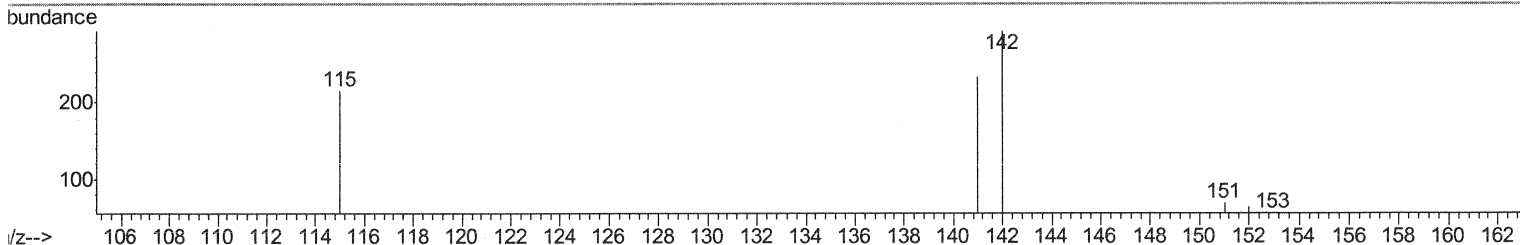
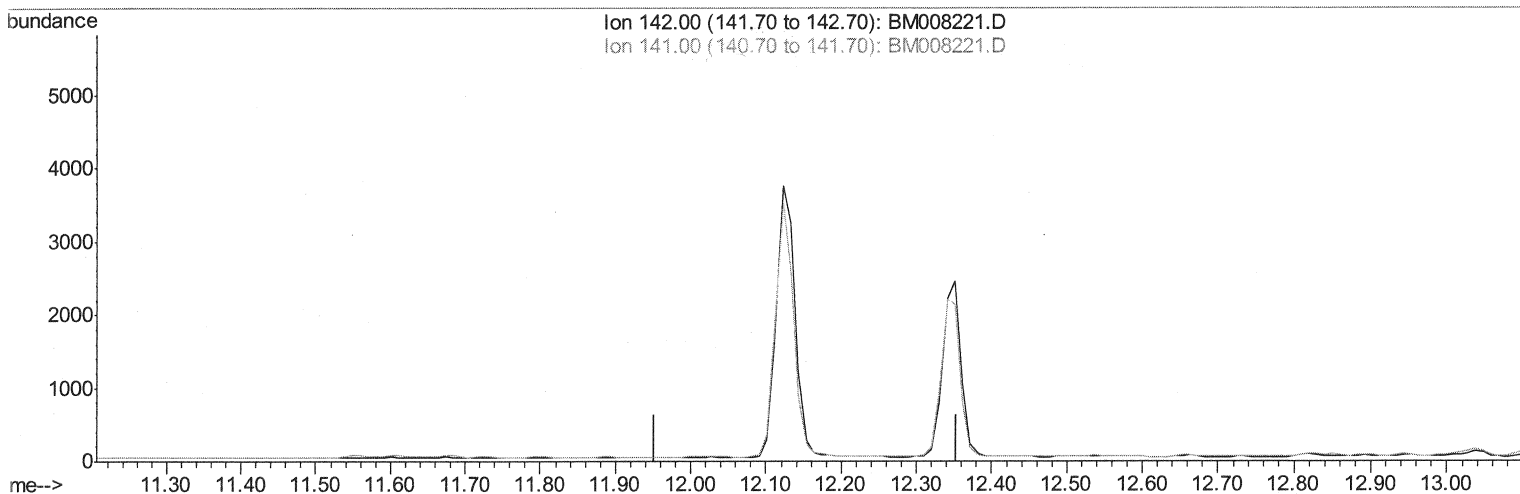
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Data File : BM008221.D  
Acq On : 10 Dec 2016 00:41  
Operator : UM/SJ  
Sample : H5863-21  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DA801

Manual Integrations  
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Quant Time: Dec 12 10:14:16 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 12 03:51:49 2016  
Response via : Initial Calibration



TIC: BM008221.D

(5) 2-Methylnaphthalene

12.153min (-12.153) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 142.00 | 100   | 0.00  |
| 141.00 | 90.70 | 0.00# |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |



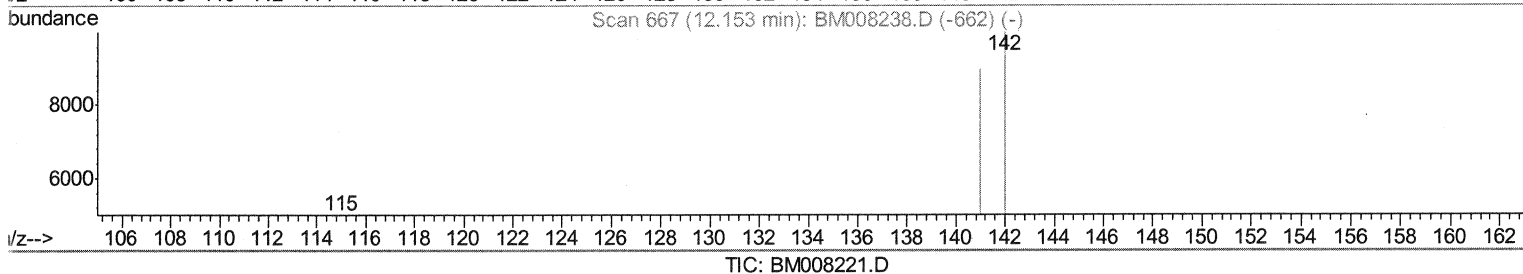
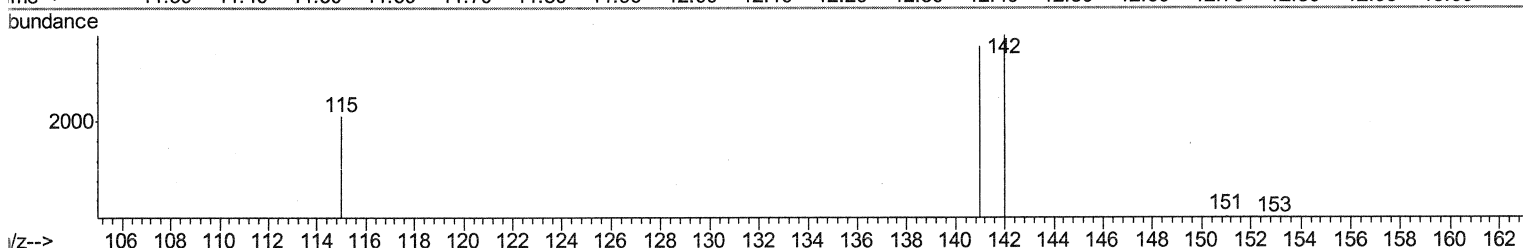
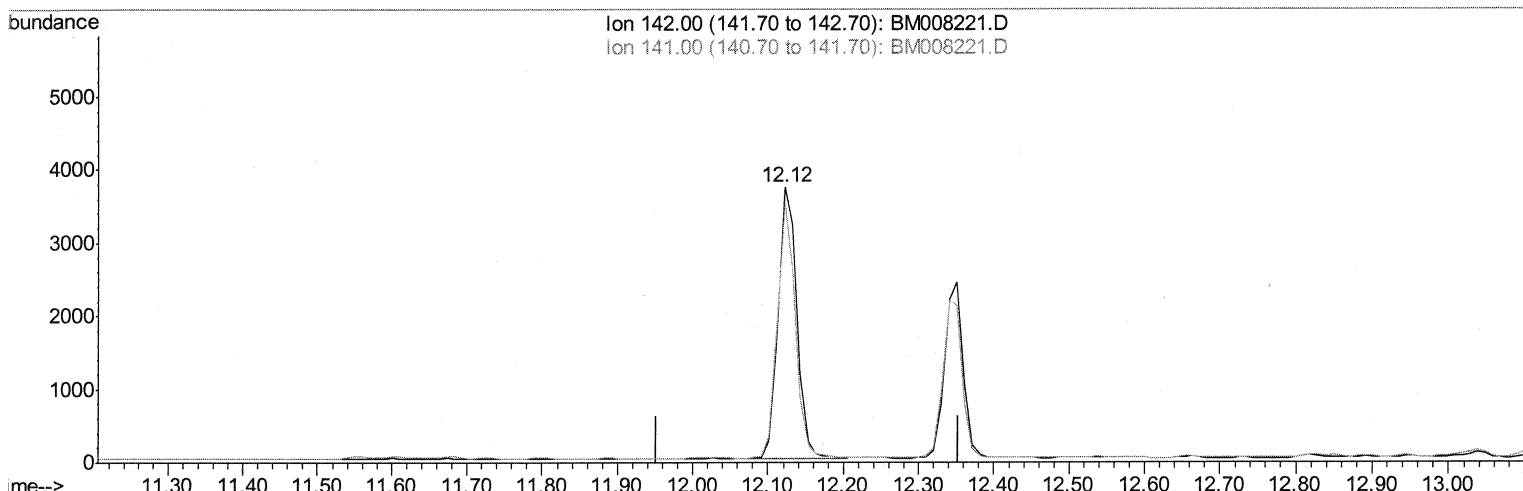
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
 Data File : BM008221.D  
 Acq On : 10 Dec 2016 00:41  
 Operator : UM/SJ  
 Sample : H5863-21  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA801

Manual Integrations  
 APPROVED

UMANGI  
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Quant Time: Dec 12 10:14:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
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 Response via : Initial Calibration



(5) 2-Methylnaphthalene

12.122min (-0.031) 1.99ng/ul m SJ 12/12/16

response 6403

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 142.00 | 100   | 100   |
| 141.00 | 90.70 | 0.00# |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

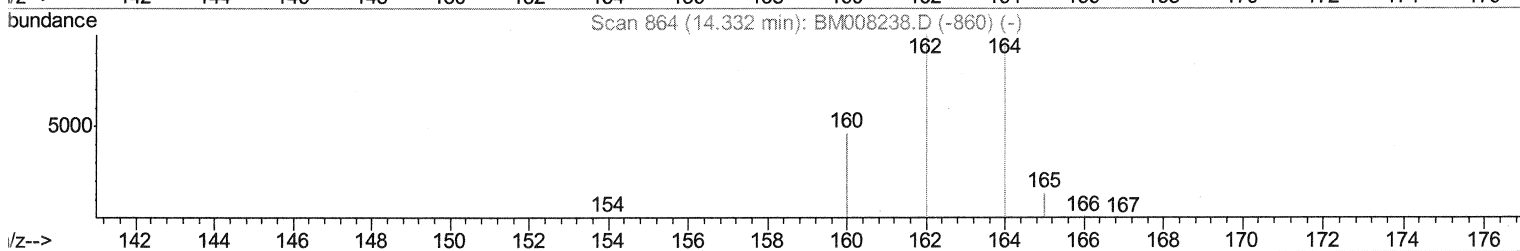
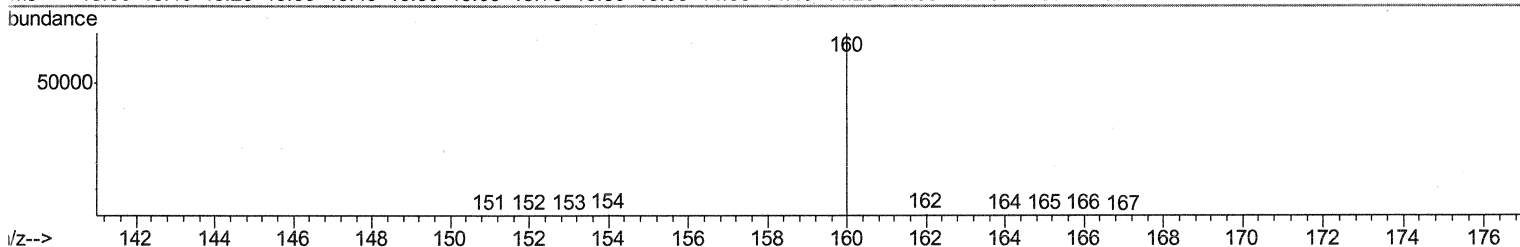
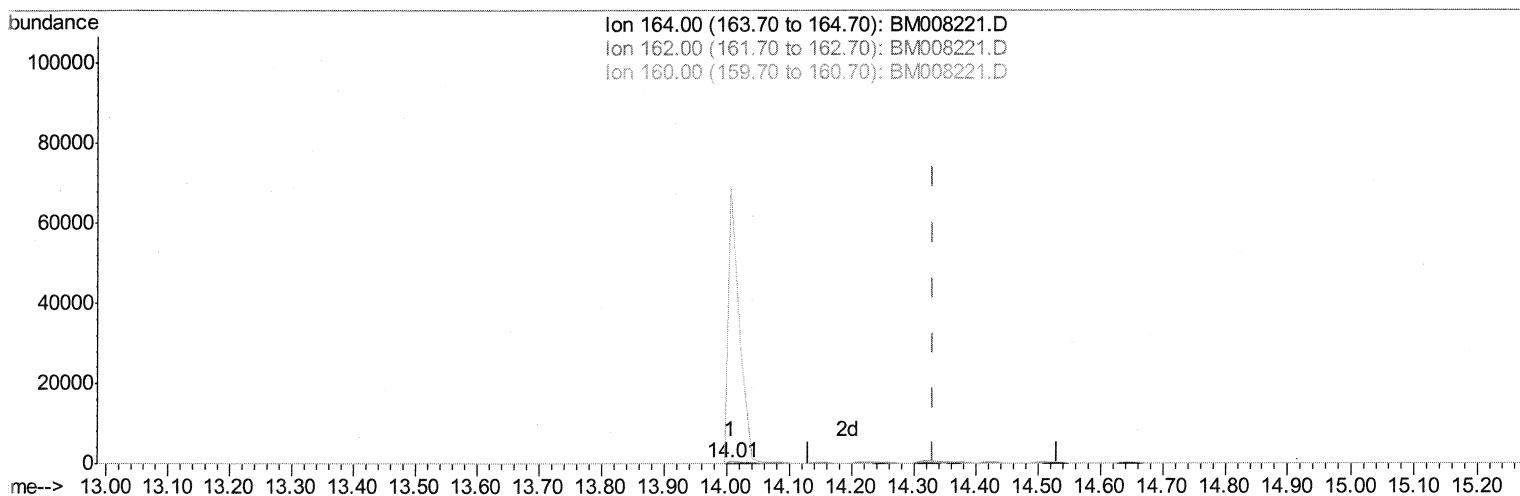
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 Acq On : 10 Dec 2016 00:41  
 Operator : UM/SJ  
 Sample : H5863-21  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
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 DA801

Manual Integrations  
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Quant Time: Dec 12 10:14:16 2016  
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 Response via : Initial Calibration



TIC: BM008221.D

(6) Acenaphthene-d10 (I)

14.006min (-0.326) 0.40ng/ul

response 212

| Ion    | Exp%  | Act%       |
|--------|-------|------------|
| 164.00 | 100   | 100        |
| 162.00 | 98.60 | 1001.54#   |
| 160.00 | 48.80 | 105895.38# |
| 0.00   | 0.00  | 0.00       |

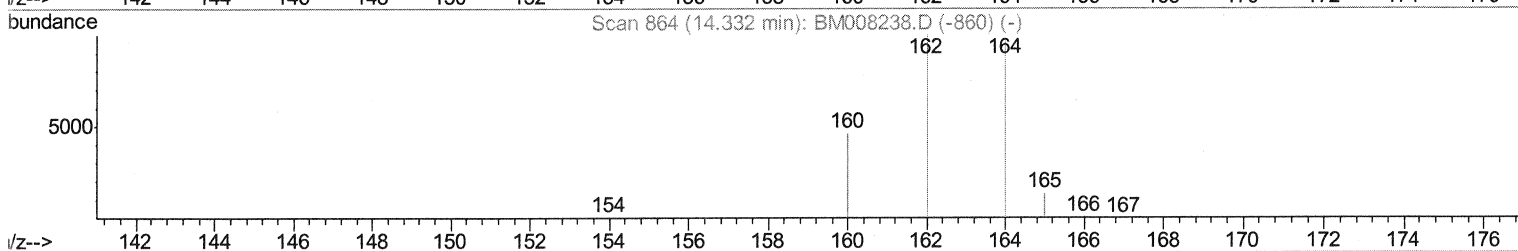
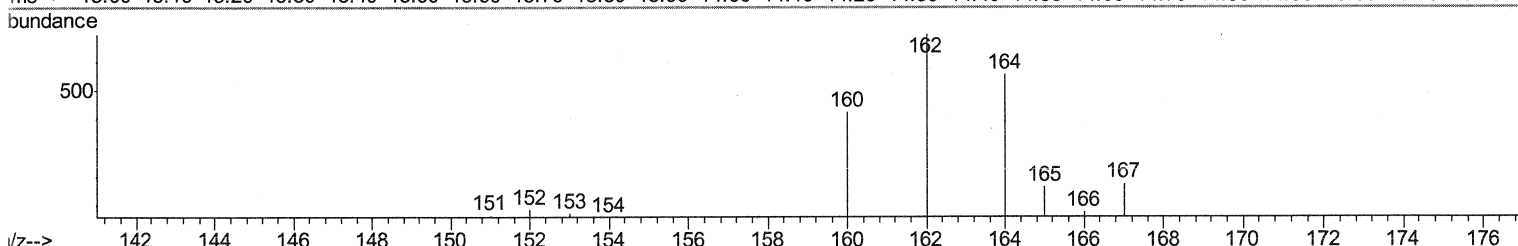
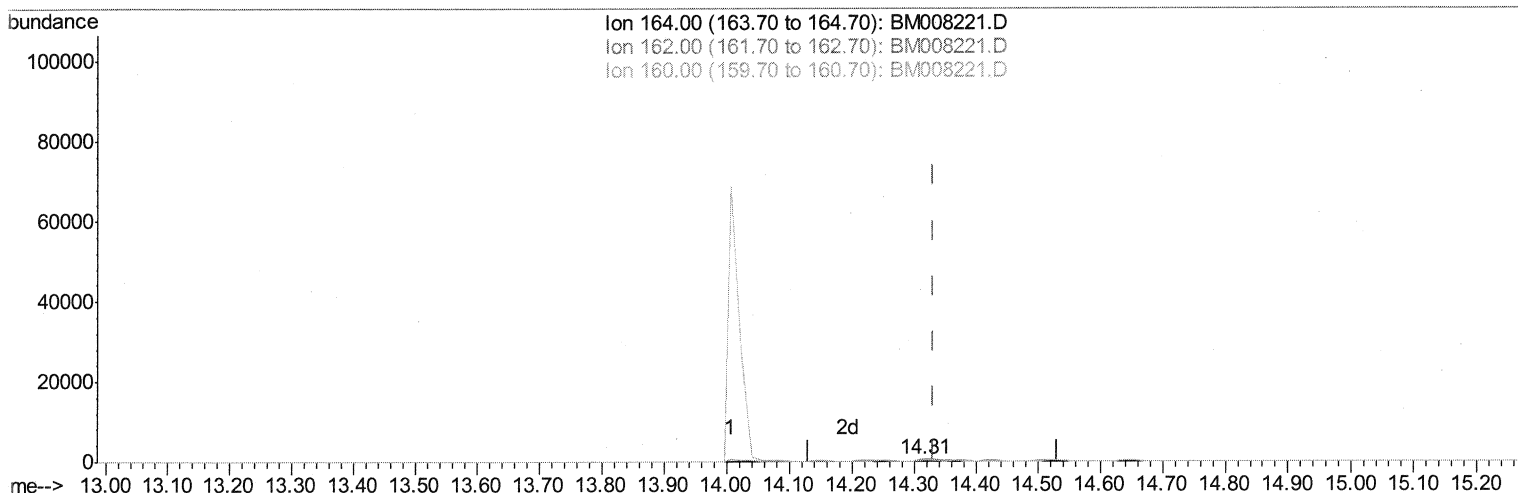
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
 Data File : BM008221.D  
 Acq On : 10 Dec 2016 00:41  
 Operator : UM/SJ  
 Sample : H5863-21  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
 APPROVED

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Quant Time: Dec 12 10:14:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
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 Response via : Initial Calibration



TIC: BM008221.D

(6) Acenaphthene-d10 (I)

14.314min (-0.017) 0.40ng/ul m SJ 12/12/16

response 1053

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 164.00 | 100   | 100     |
| 162.00 | 98.60 | 125.00# |
| 160.00 | 48.80 | 76.44#  |
| 0.00   | 0.00  | 0.00    |

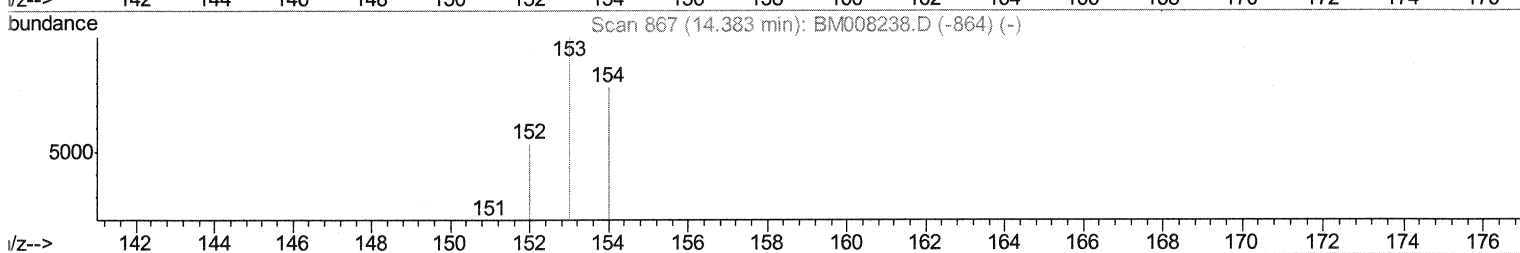
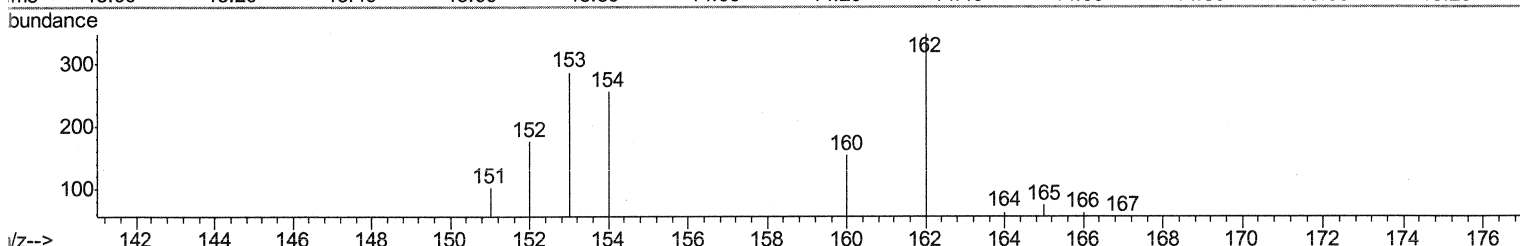
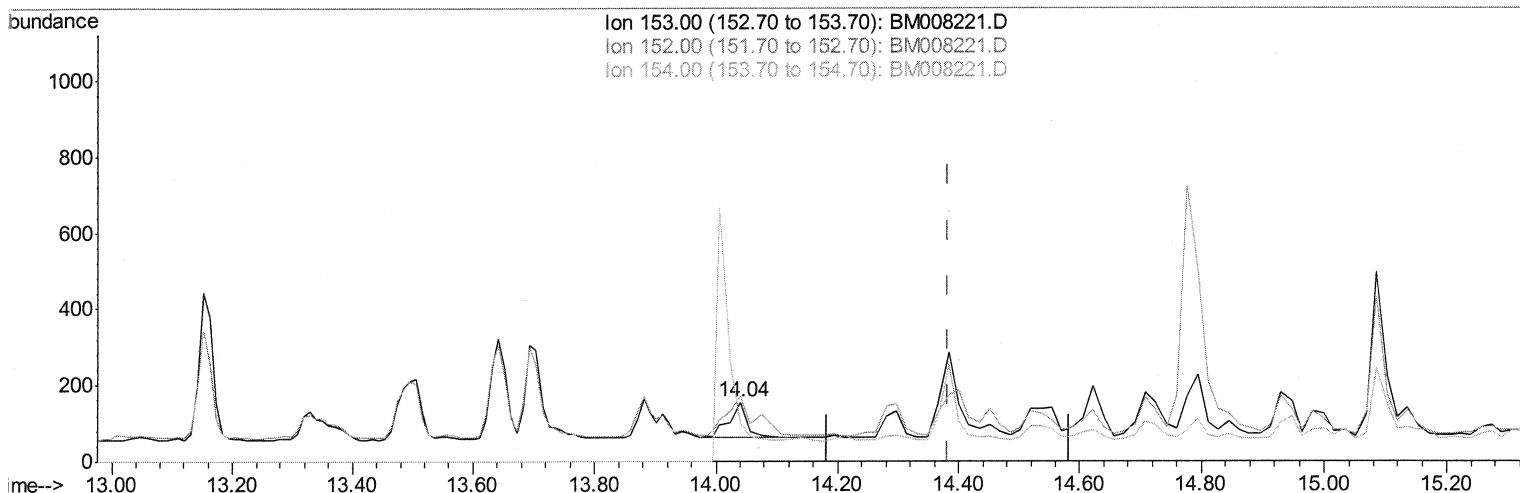
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Data File : BM008221.D  
Acq On : 10 Dec 2016 00:41  
Operator : UM/SJ  
Sample : H5863-21  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
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Manual Integrations  
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UMANGI  
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Quant Time: Dec 12 10:16:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 12 03:51:49 2016  
Response via : Initial Calibration



TIC: BM008221.D

(8) Acenaphthene (C)

14.040min (-0.343) 0.05ng/ul

response 184

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 153.00 | 100   | 100     |
| 152.00 | 50.40 | 110.26# |
| 154.00 | 89.30 | 64.74#  |
| 0.00   | 0.00  | 0.00    |

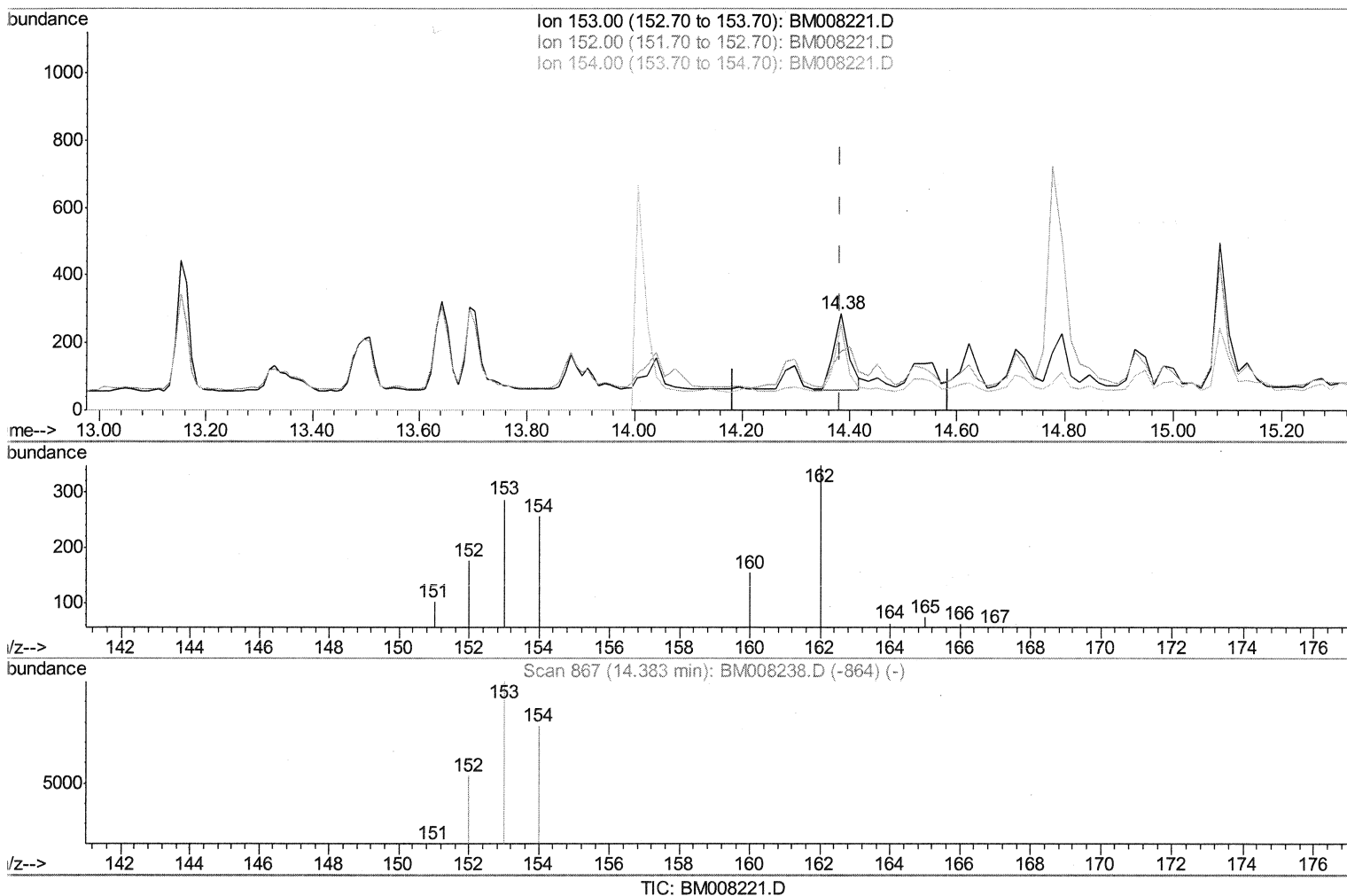
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
Data File : BM008221.D  
Acq On : 10 Dec 2016 00:41  
Operator : UM/SJ  
Sample : H5863-21  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Manual Integrations  
APPROVED

UMANGI  
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Quant Time: Dec 12 10:16:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 12 03:51:49 2016  
Response via : Initial Calibration



(8) Acenaphthene (C)

14.383min (-0.000) 0.13ng/ul m

SJ 12/12/16

response 457

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 153.00 | 100   | 100    |
| 152.00 | 50.40 | 61.19# |
| 154.00 | 89.30 | 89.16  |
| 0.00   | 0.00  | 0.00   |

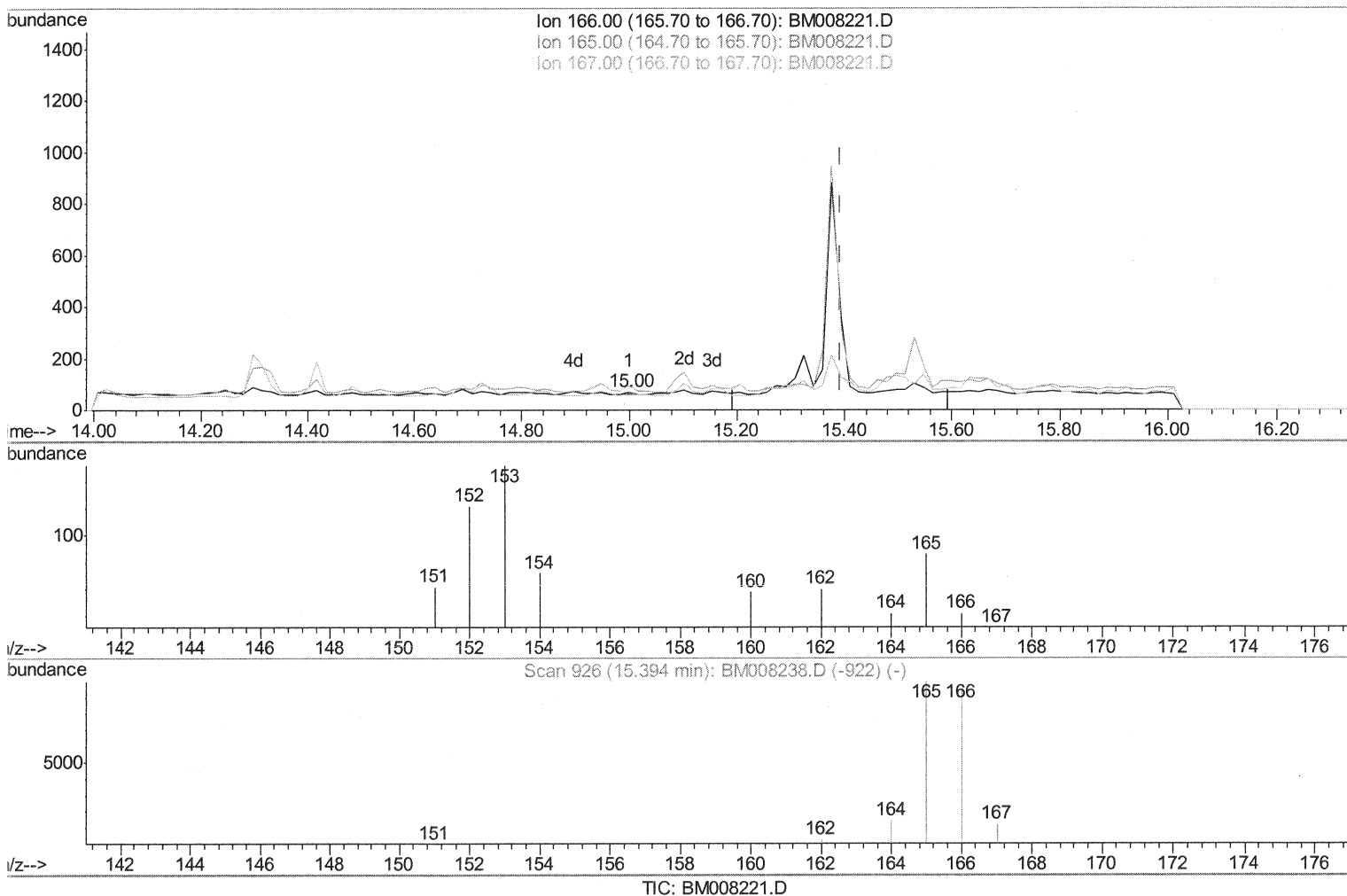
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 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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UMANGI  
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Quant Time: Dec 12 10:16:06 2016  
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 Response via : Initial Calibration



(9) Fluorene

14.999min (-0.394) 0.00ng/ul

response 17

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 166.00 | 100   | 100     |
| 165.00 | 91.80 | 130.99# |
| 167.00 | 18.30 | 92.96#  |
| 0.00   | 0.00  | 0.00    |

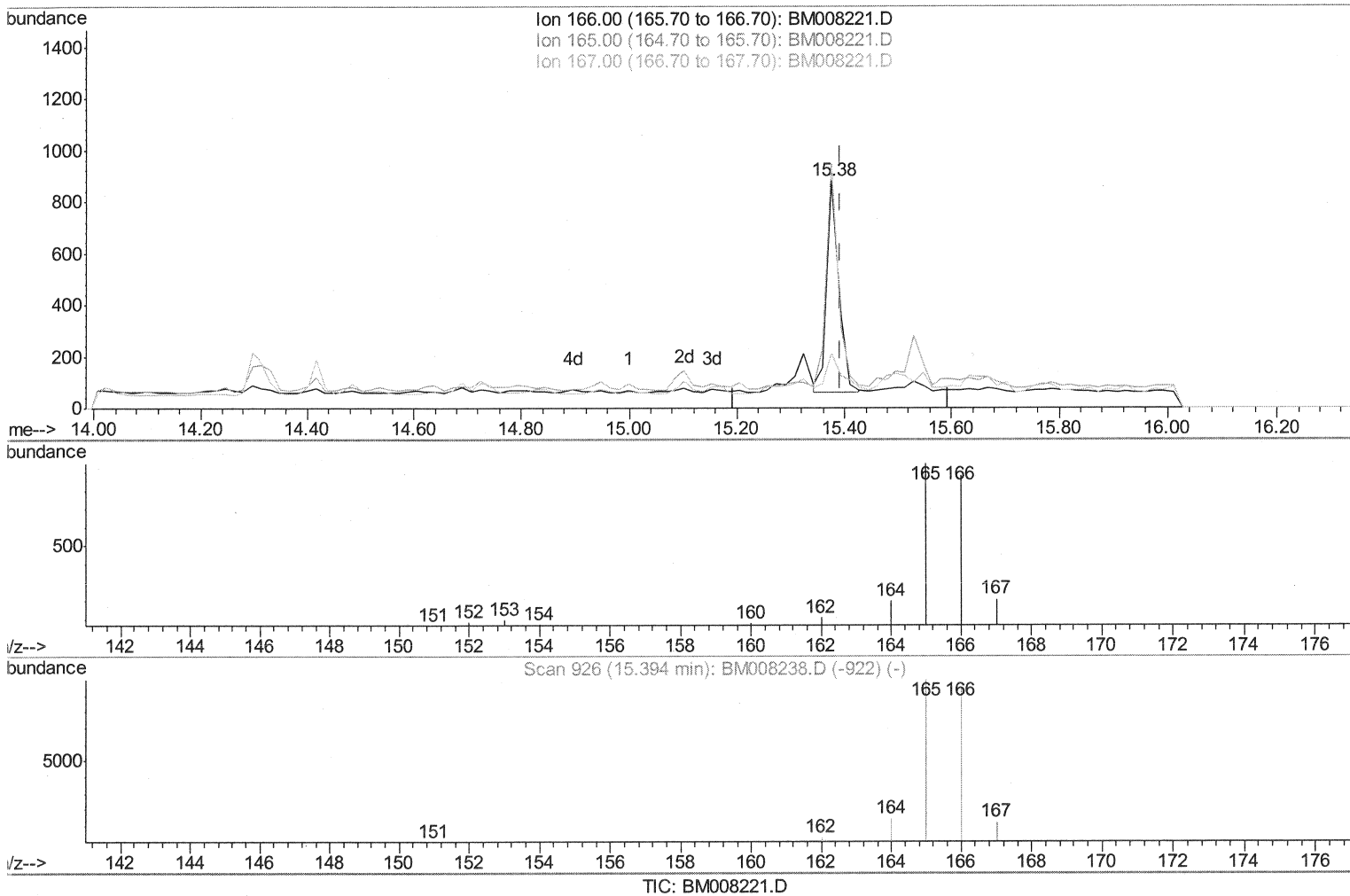
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
 Data File : BM008221.D  
 Acq On : 10 Dec 2016 00:41  
 Operator : UM/SJ  
 Sample : H5863-21  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
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Manual Integrations  
 APPROVED

UMANGI  
 12/12/2016 6:49:36 PM

Quant Time: Dec 12 10:16:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 12 03:51:49 2016  
 Response via : Initial Calibration



(9) Fluorene

15.376min (-0.017) 0.31ng/ul m SJ 12/12/16

response 1281

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 166.00 | 100   | 100    |
| 165.00 | 91.80 | 107.37 |
| 167.00 | 18.30 | 23.81# |
| 0.00   | 0.00  | 0.00   |



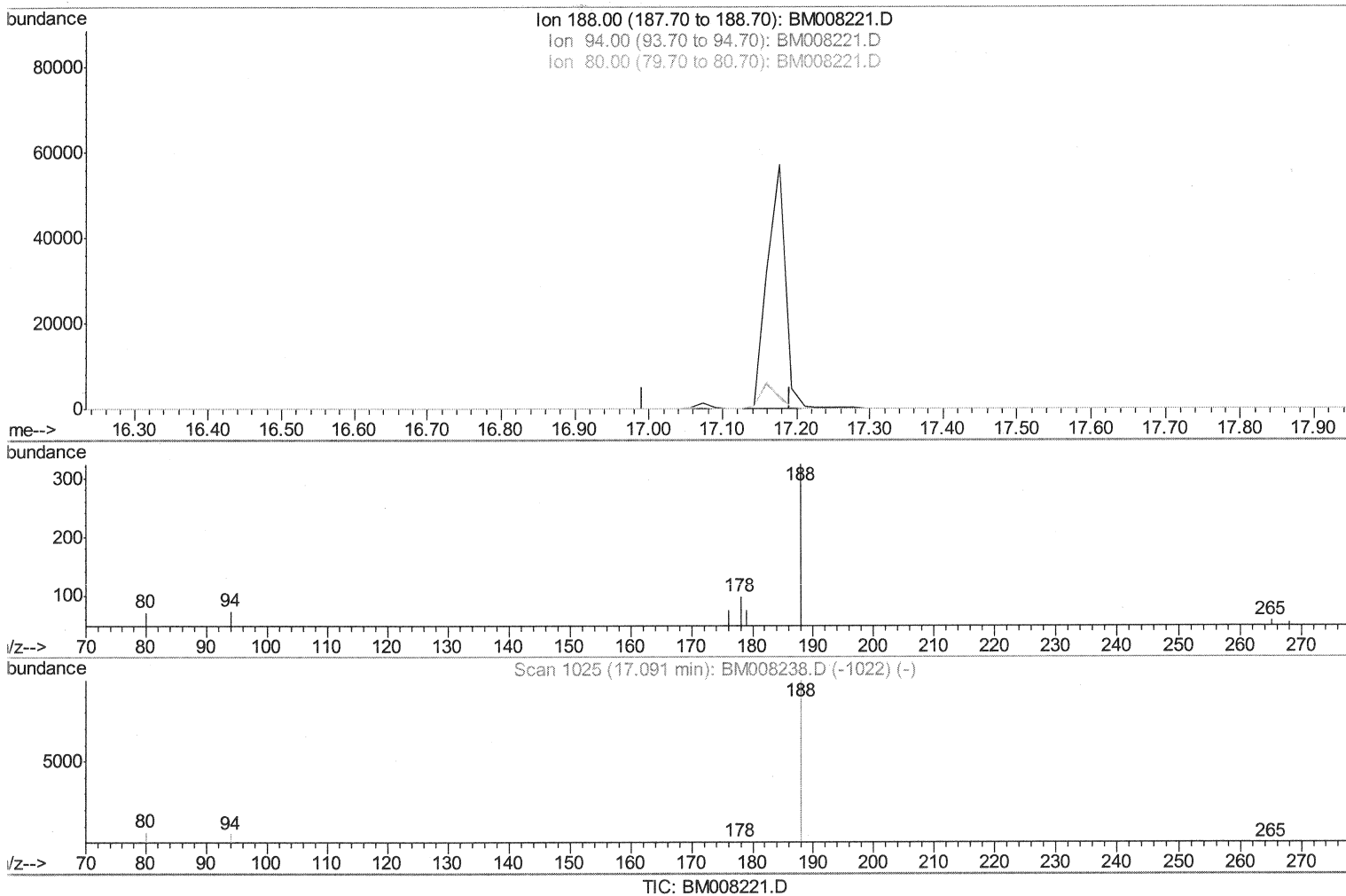
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
Data File : BM008221.D  
Acq On : 10 Dec 2016 00:41  
Operator : UM/SJ  
Sample : H5863-21  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DA801

Manual Integrations  
APPROVED

UMANGI  
12/12/2016 6:49:36 PM

Quant Time: Dec 12 10:16:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 12 03:51:49 2016  
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.091min (-17.091) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 0.00  |
| 94.00  | 11.00 | 0.00# |
| 80.00  | 11.80 | 0.00# |
| 0.00   | 0.00  | 0.00  |

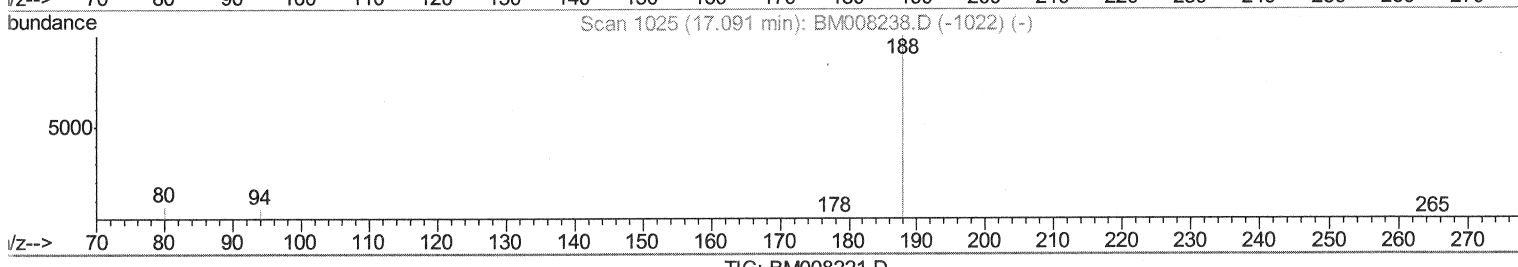
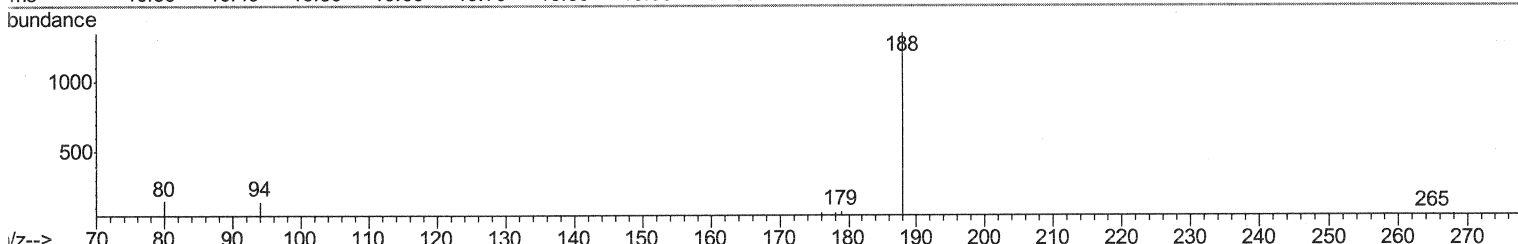
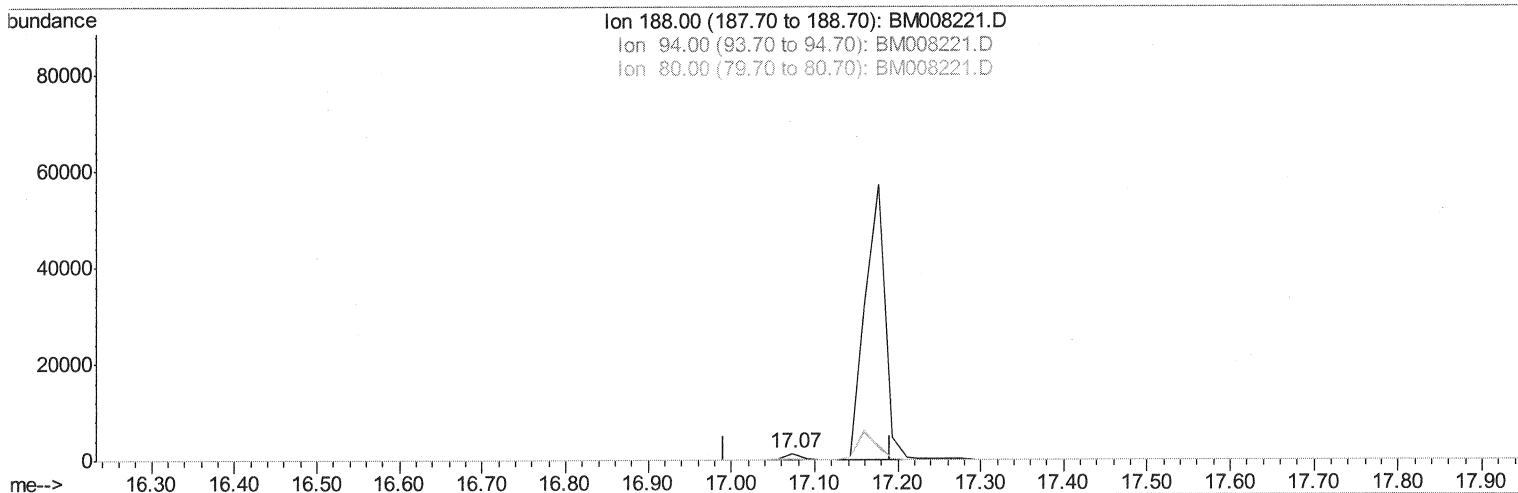
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
 Data File : BM008221.D  
 Acq On : 10 Dec 2016 00:41  
 Operator : UM/SJ  
 Sample : H5863-21  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA801

Manual Integrations  
 APPROVED

UMANGI  
 12/12/2016 6:49:36 PM

Quant Time: Dec 12 10:16:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 12 03:51:49 2016  
 Response via : Initial Calibration



TIC: BM008221.D

(10) Phenanthrene-d10 (I)

17.073min (-0.017) 0.40ng/ul m

*SJ 12/12/16*

response 1848

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 11.00 | 11.12 |
| 80.00  | 11.80 | 11.19 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM120916\  
Data File : BM008221.D  
Acq On : 10 Dec 2016 00:41  
Operator : UM/SJ  
Sample : H5863-21  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DA801

Manual Integrations  
APPROVED

UMANGI  
12/12/2016 6:49:36 PM

Quant Time: Dec 12 10:27:13 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 12 03:51:49 2016  
Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc | Units  | Dev(Min)      |
|-----------------------------|-------|------|----------|------|--------|---------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.70  | 152  | 565      | 0.40 | ng/ul  | -0.02         |
| 2) Naphthalene-d8           | 10.46 | 136  | 1781m    | 0.40 | ng/ul  | -0.01         |
| 6) Acenaphthene-d10         | 14.31 | 164  | 1053m    | 0.40 | ng/ul  | -0.02         |
| 10) Phenanthrene-d10        | 17.07 | 188  | 1848m    | 0.40 | ng/ul  | -0.02         |
| 16) Chrysene-d12            | 21.28 | 240  | 1699     | 0.40 | ng/ul  | 0.00          |
| 20) Perylene-d12            | 23.51 | 264  | 1649     | 0.40 | ng/ul  | 0.00          |
| System Monitoring Compounds |       |      |          |      |        |               |
| 4) 2-Methylnaphthalene-d10  | 12.06 | 152  | 693m     | 0.27 | ng/ul  | -0.02         |
| 14) Fluoranthene-d10        | 19.12 | 212  | 1499     | 0.29 | ng/ul  | 0.00          |
| Target Compounds            |       |      |          |      |        | Qvalue        |
| 3) Naphthalene              | 10.51 | 128  | 2440m    | 0.49 | ng/ul  | } SJ 12/12/16 |
| 5) 2-Methylnaphthalene      | 12.12 | 142  | 6403m    | 1.99 | ng/ul  |               |
| 8) Acenaphthene             | 14.38 | 153  | 457m     | 0.13 | ng/ul  |               |
| 9) Fluorene                 | 15.38 | 166  | 1281m    | 0.31 | ng/ul  |               |
| 12) Phenanthrene            | 17.11 | 178  | 701      | 0.12 | ng/ul# |               |
|                             |       |      |          |      |        | 78            |

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