

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
 Data File : BM014801.D  
 Acq On : 24 Apr 2018 06:16  
 Operator : SJ/JU  
 Sample : J2434-20DL 2X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AD5DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM041918.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 3.363    | 8          | 13       | 19        | rVB   | 453920      | 644248     | 4.87%        | 0.444%     |
| 2      | 7.645    | 735        | 741      | 751       | rBV   | 621725      | 1090704    | 8.25%        | 0.751%     |
| 3      | 7.828    | 765        | 772      | 780       | rVB   | 531003      | 845195     | 6.39%        | 0.582%     |
| 4      | 8.045    | 801        | 809      | 814       | rBV   | 672026      | 1118028    | 8.46%        | 0.770%     |
| 5      | 8.528    | 882        | 891      | 903       | rVB   | 1466232     | 2446713    | 18.51%       | 1.685%     |
| 6      | 9.222    | 1002       | 1009     | 1018      | rBV   | 701374      | 1137720    | 8.61%        | 0.784%     |
| 7      | 9.704    | 1083       | 1091     | 1099      | rBV   | 627087      | 1070626    | 8.10%        | 0.737%     |
| 8      | 10.433   | 1208       | 1215     | 1225      | rBV   | 486217      | 837048     | 6.33%        | 0.577%     |
| 9      | 10.975   | 1299       | 1307     | 1315      | rBV   | 784481      | 1335073    | 10.10%       | 0.920%     |
| 10     | 11.369   | 1366       | 1374     | 1382      | rBV   | 2012360     | 3492485    | 26.42%       | 2.406%     |
| 11     | 11.492   | 1388       | 1395     | 1406      | rBV   | 685368      | 1227883    | 9.29%        | 0.846%     |
| 12     | 14.516   | 1902       | 1909     | 1913      | rBV   | 1331048     | 1837488    | 13.90%       | 1.266%     |
| 13     | 14.563   | 1913       | 1917     | 1923      | rVB   | 179062      | 258436     | 1.95%        | 0.178%     |
| 14     | 14.827   | 1955       | 1962     | 1972      | rBV   | 1587611     | 2383650    | 18.03%       | 1.642%     |
| 15     | 15.127   | 2003       | 2013     | 2019      | rBV2  | 2747997     | 4273819    | 32.33%       | 2.944%     |
| 16     | 15.186   | 2019       | 2023     | 2030      | rVB   | 120137      | 183810     | 1.39%        | 0.127%     |
| 17     | 15.280   | 2032       | 2039     | 2048      | rBV   | 297642      | 455068     | 3.44%        | 0.313%     |
| 18     | 15.915   | 2135       | 2147     | 2151      | rBV2  | 132041      | 246228     | 1.86%        | 0.170%     |
| 19     | 16.104   | 2172       | 2179     | 2185      | rBV   | 1899973     | 2830508    | 21.41%       | 1.950%     |
| 20     | 16.204   | 2191       | 2196     | 2202      | rVB   | 161847      | 232630     | 1.76%        | 0.160%     |
| 21     | 16.762   | 2286       | 2291     | 2294      | rBV   | 116712      | 159243     | 1.20%        | 0.110%     |
| 22     | 17.839   | 2466       | 2474     | 2478      | rBV   | 3322530     | 4860362    | 36.76%       | 3.348%     |
| 23     | 17.880   | 2478       | 2481     | 2485      | rVB   | 823541      | 1065616    | 8.06%        | 0.734%     |
| 24     | 17.933   | 2485       | 2490     | 2495      | rBV2  | 1923823     | 2812171    | 21.27%       | 1.937%     |
| 25     | 18.227   | 2534       | 2540     | 2545      | rVB2  | 175695      | 264208     | 2.00%        | 0.182%     |
| 26     | 18.662   | 2610       | 2614     | 2617      | rBV2  | 292456      | 386131     | 2.92%        | 0.266%     |
| 27     | 18.698   | 2617       | 2620     | 2623      | rVV   | 127895      | 161981     | 1.23%        | 0.112%     |
| 28     | 18.739   | 2623       | 2627     | 2633      | rVB3  | 220334      | 348170     | 2.63%        | 0.240%     |
| 29     | 18.892   | 2647       | 2653     | 2656      | rBV2  | 245909      | 425805     | 3.22%        | 0.293%     |
| 30     | 19.586   | 2765       | 2771     | 2776      | rBV2  | 76648       | 181698     | 1.37%        | 0.125%     |
| 31     | 19.845   | 2809       | 2815     | 2821      | rVB   | 4376659     | 5685017    | 43.00%       | 3.916%     |
| 32     | 19.903   | 2821       | 2825     | 2828      | rBV2  | 111427      | 148744     | 1.13%        | 0.102%     |
| 33     | 20.174   | 2864       | 2871     | 2873      | rBV2  | 2833771     | 4656352    | 35.22%       | 3.207%     |
| 34     | 20.203   | 2873       | 2876     | 2882      | rVV   | 4475119     | 5815782    | 43.99%       | 4.006%     |

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014801.D  
Acq On : 24 Apr 2018 06:16  
Operator : SJ/JU  
Sample : J2434-20DL 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AD5DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF  
Sampling : 1  
Start Thrs: 0.2  
Stop Thrs : 0

Filtering: 5  
Min Area: 1 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM041918.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |          |         |        |
|----|--------|------|------|------|------|---------|----------|---------|--------|
| 35 | 20.262 | 2882 | 2886 | 2891 | rVB  | 155925  | 233893   | 1.77%   | 0.161% |
| 36 | 20.368 | 2900 | 2904 | 2909 | rVB  | 254856  | 310241   | 2.35%   | 0.214% |
| 37 | 20.433 | 2911 | 2915 | 2921 | rVB  | 343543  | 459758   | 3.48%   | 0.317% |
| 38 | 20.509 | 2923 | 2928 | 2934 | rVV3 | 306148  | 686148   | 5.19%   | 0.473% |
| 39 | 20.562 | 2934 | 2937 | 2942 | rVV  | 164026  | 213419   | 1.61%   | 0.147% |
| 40 | 20.674 | 2952 | 2956 | 2961 | rVB  | 1072132 | 1528246  | 11.56%  | 1.053% |
| 41 | 20.774 | 2968 | 2973 | 2976 | rBV2 | 859922  | 1156436  | 8.75%   | 0.797% |
| 42 | 20.833 | 2980 | 2983 | 2986 | rVV  | 444024  | 545514   | 4.13%   | 0.376% |
| 43 | 20.868 | 2986 | 2989 | 2992 | rVB2 | 158763  | 181286   | 1.37%   | 0.125% |
| 44 | 20.968 | 3002 | 3006 | 3010 | rBV2 | 503365  | 697065   | 5.27%   | 0.480% |
| 45 | 21.015 | 3010 | 3014 | 3021 | rVB  | 481285  | 754340   | 5.71%   | 0.520% |
| 46 | 21.574 | 3105 | 3109 | 3112 | rBV  | 504887  | 700048   | 5.30%   | 0.482% |
| 47 | 21.603 | 3112 | 3114 | 3117 | rVB  | 477567  | 487703   | 3.69%   | 0.336% |
| 48 | 21.650 | 3118 | 3122 | 3126 | rBV2 | 828998  | 1203568  | 9.10%   | 0.829% |
| 49 | 21.915 | 3161 | 3167 | 3172 | rBV2 | 5878032 | 13220925 | 100.00% | 9.107% |
| 50 | 21.968 | 3172 | 3176 | 3180 | rVB  | 4183918 | 5861488  | 44.33%  | 4.038% |
| 51 | 22.092 | 3194 | 3197 | 3205 | rVB  | 601441  | 880209   | 6.66%   | 0.606% |
| 52 | 22.262 | 3221 | 3226 | 3230 | rBV  | 1073688 | 1922556  | 14.54%  | 1.324% |
| 53 | 23.662 | 3457 | 3464 | 3469 | rBV  | 4933563 | 12416126 | 93.91%  | 8.553% |
| 54 | 23.850 | 3492 | 3496 | 3501 | rVB  | 693111  | 1126174  | 8.52%   | 0.776% |
| 55 | 24.203 | 3549 | 3556 | 3561 | rBV  | 3497556 | 7657090  | 57.92%  | 5.274% |
| 56 | 24.256 | 3562 | 3565 | 3569 | rVV2 | 1915609 | 3895299  | 29.46%  | 2.683% |
| 57 | 24.309 | 3569 | 3574 | 3582 | rVB  | 5267718 | 10706003 | 80.98%  | 7.375% |
| 58 | 24.421 | 3587 | 3593 | 3598 | rVV  | 2421765 | 5139506  | 38.87%  | 3.540% |
| 59 | 24.474 | 3598 | 3602 | 3609 | rVB2 | 1442624 | 2933728  | 22.19%  | 2.021% |
| 60 | 27.003 | 4023 | 4032 | 4044 | rVB  | 2716288 | 8716744  | 65.93%  | 6.004% |
| 61 | 27.809 | 4160 | 4169 | 4179 | rVB  | 2079926 | 6623200  | 50.10%  | 4.562% |

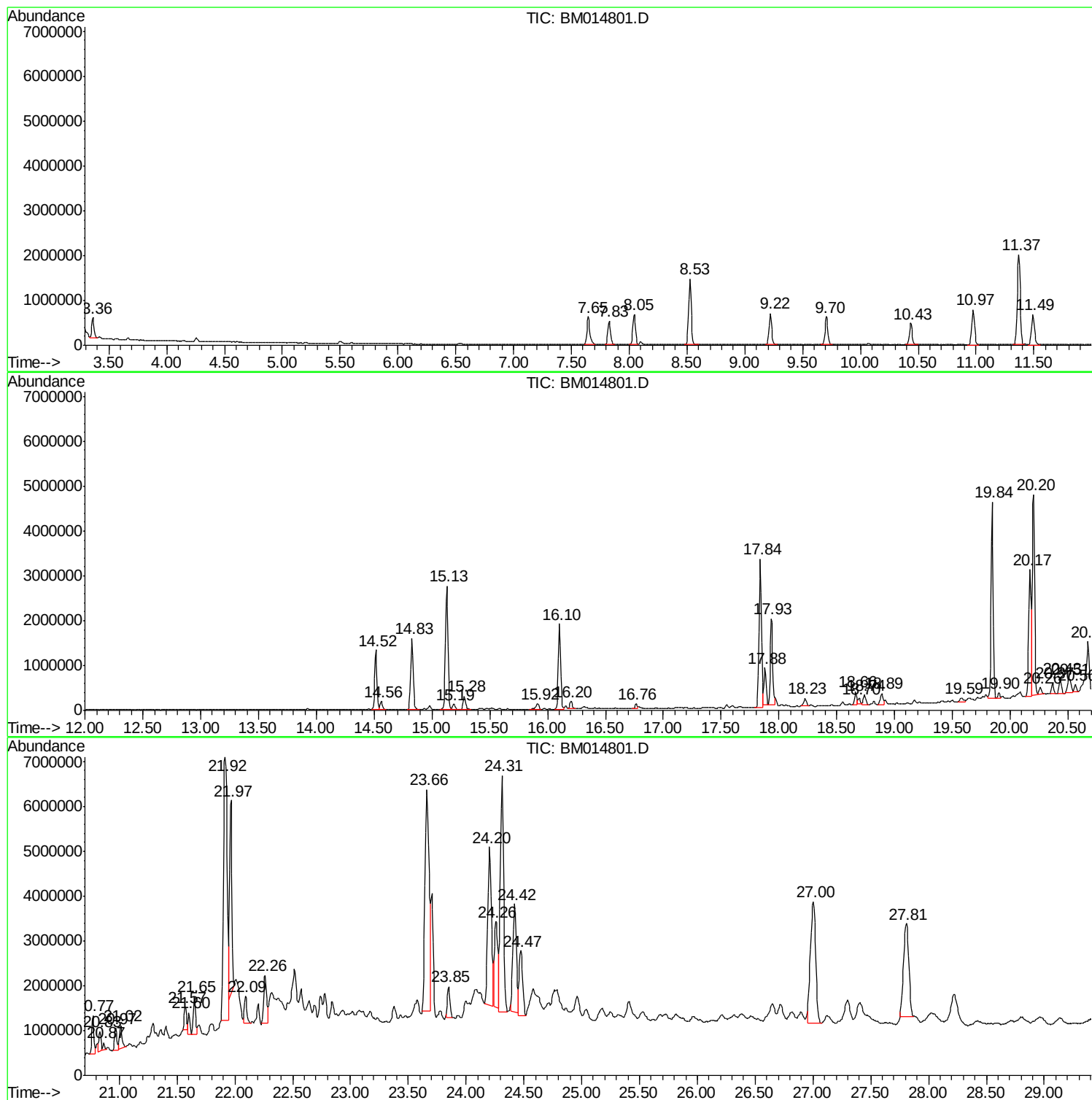
Sum of corrected areas: 145175353

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014801.D  
Acq On : 24 Apr 2018 06:16  
Operator : SJ/JU  
Sample : J2434-20DL 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AD5DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014801.D  
Acq On : 24 Apr 2018 06:16  
Operator : SJ/JU  
Sample : J2434-20DL 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AD5DL

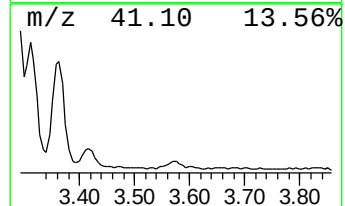
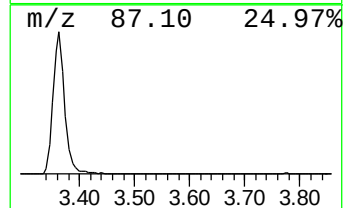
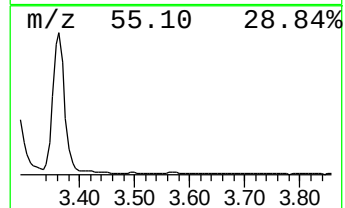
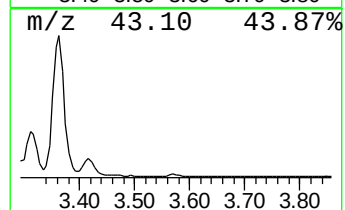
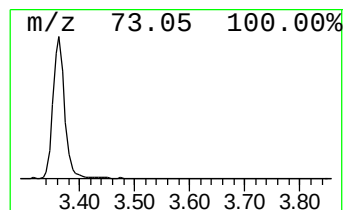
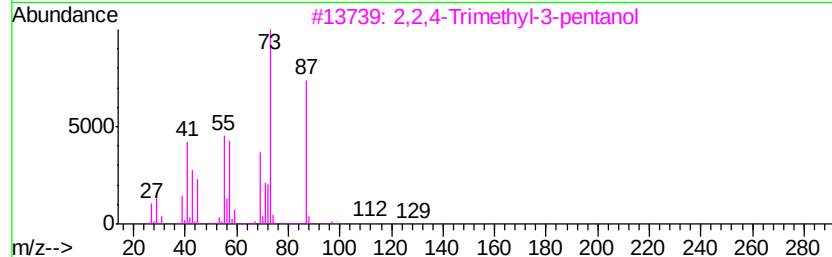
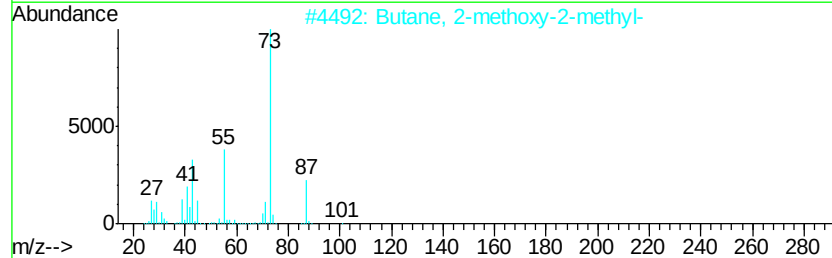
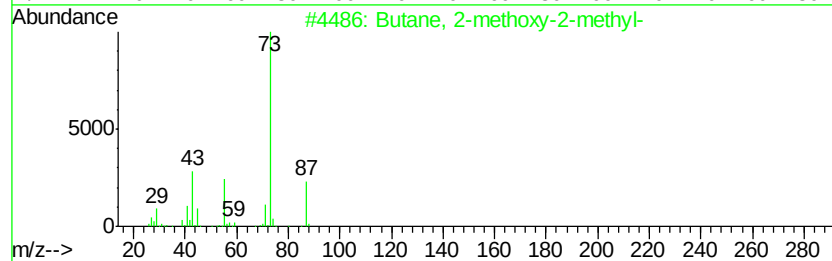
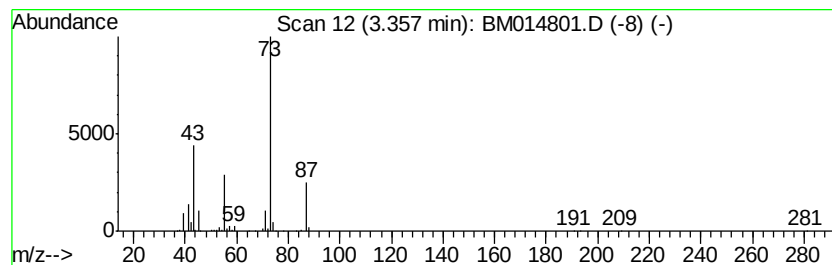
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 3.36 | 5.27 ng/ul | 644248 | 1,4-Dichlorobenzene-d4 | 8.53 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 3    |    |   | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 40   |
| 4    |    |   | Silane, ethyltrimethyl-     | 102 | C5H14Si | 003439-38-1 | 36   |
| 5    |    |   | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 12   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014801.D  
Acq On : 24 Apr 2018 06:16  
Operator : SJ/JU  
Sample : J2434-20DL 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AD5DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

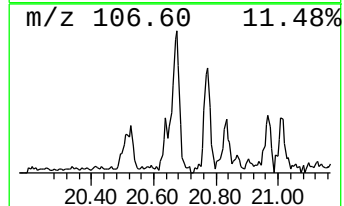
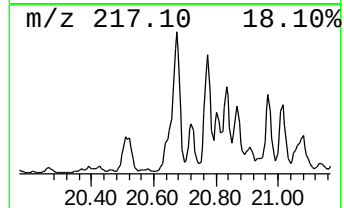
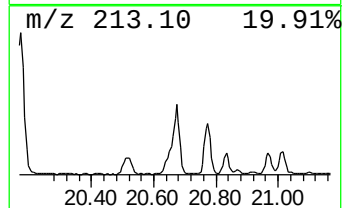
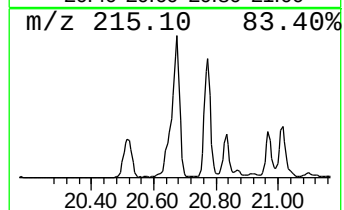
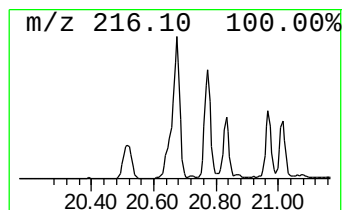
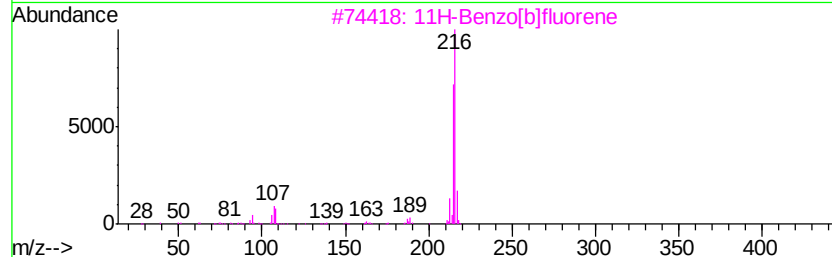
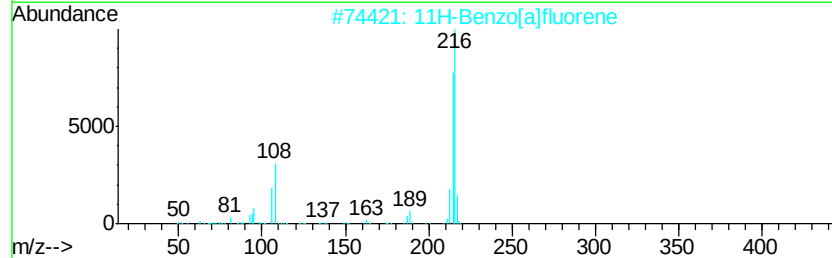
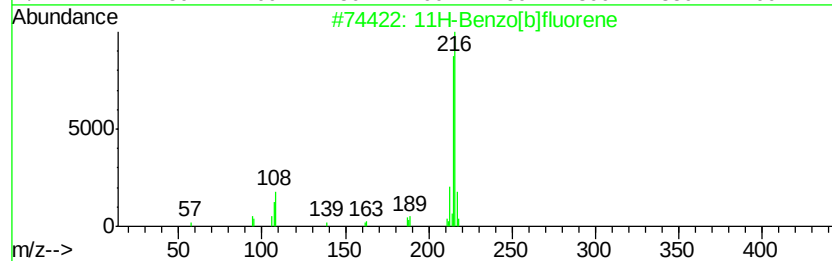
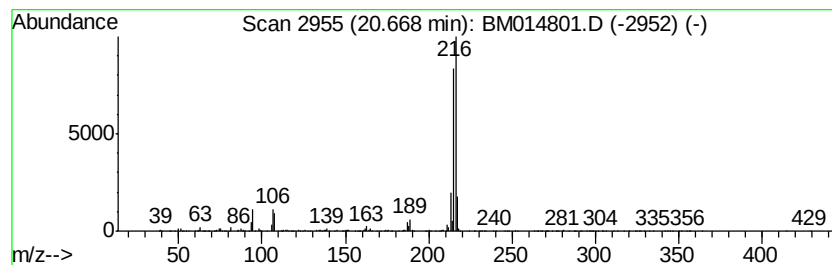
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 11H-Benzo[b]fluorene Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.67 | 2.31 ng/ul | 1528250 | Chrysene-d12     | 21.93 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------|--------------|-----|---------|-------------|------|
| 1       | 11H-Benzo[b]fluorene |              | 216 | C17H12  | 000243-17-4 | 91   |
| 2       | 11H-Benzo[a]fluorene |              | 216 | C17H12  | 000238-84-6 | 91   |
| 3       | 11H-Benzo[b]fluorene |              | 216 | C17H12  | 000243-17-4 | 90   |
| 4       | 11H-Benzo[b]fluorene |              | 216 | C17H12  | 000243-17-4 | 87   |
| 5       | Pyrene, 1-methyl-    |              | 216 | C17H12  | 002381-21-7 | 87   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014801.D  
Acq On : 24 Apr 2018 06:16  
Operator : SJ/JU  
Sample : J2434-20DL 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

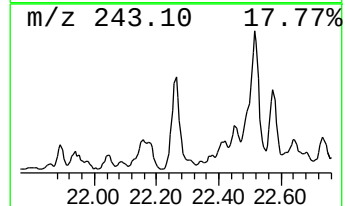
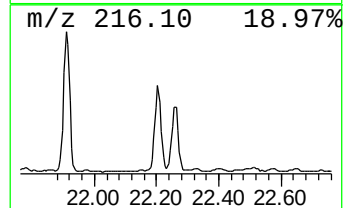
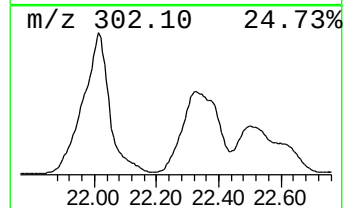
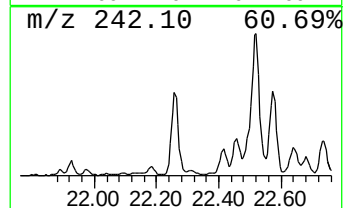
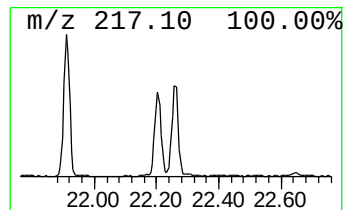
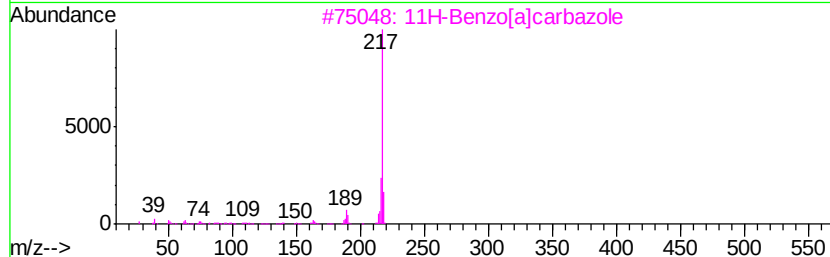
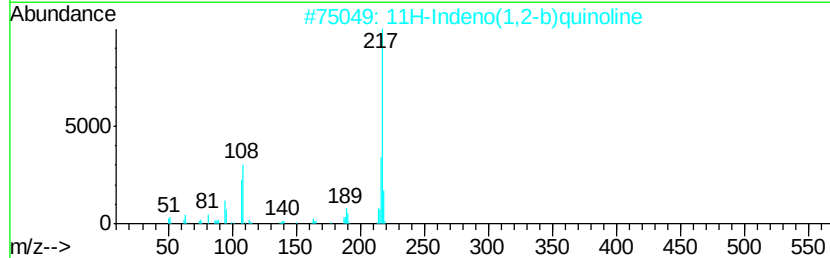
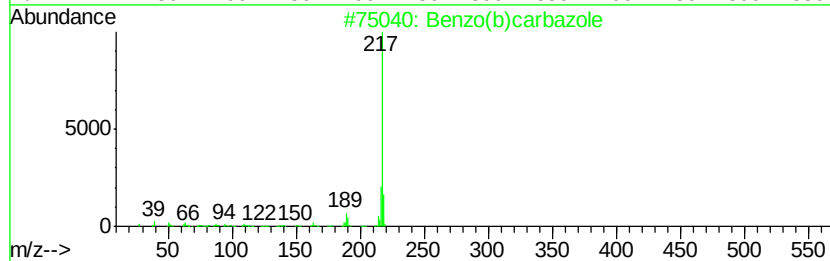
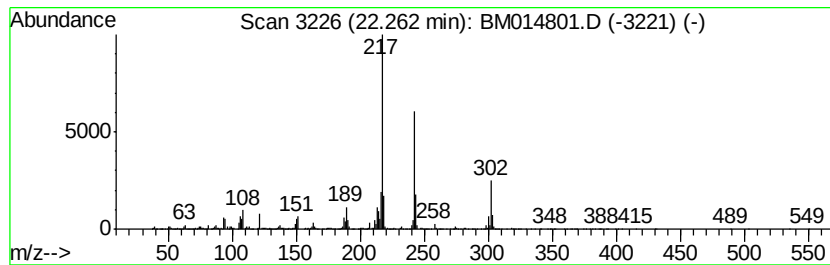
Instrument :  
BNA\_M  
ClientSampleId :  
C0AD5DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzo(b)carbazole Concentration Rank 5

| R.T.    | EstConc                    | Area         | Relative to ISTD | R.T.           |
|---------|----------------------------|--------------|------------------|----------------|
| 22.26   | 2.91 ng/ul                 | 1922560      | Chrysene-d12     | 21.93          |
| Hit# of | 5                          | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Benzo(b)carbazole          | 217          | C16H11N          | 000243-28-7 87 |
| 2       | 11H-Indeno(1,2-b)quinoline | 217          | C16H11N          | 000243-51-6 64 |
| 3       | 11H-Benzo[a]carbazole      | 217          | C16H11N          | 000239-01-0 64 |
| 4       | 11H-Benzo[a]carbazole      | 217          | C16H11N          | 000239-01-0 55 |
| 5       | 7H-Benzo[c]carbazole       | 217          | C16H11N          | 000205-25-4 55 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014801.D  
Acq On : 24 Apr 2018 06:16  
Operator : SJ/JU  
Sample : J2434-20DL 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

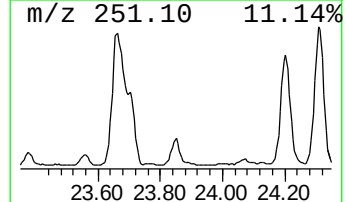
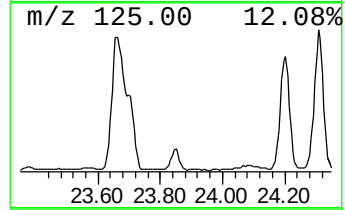
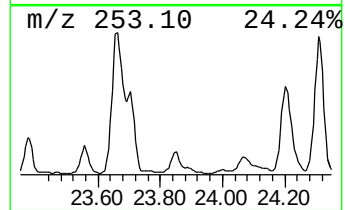
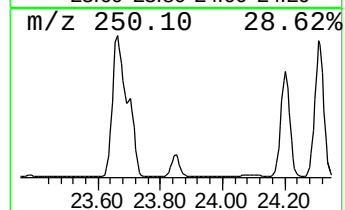
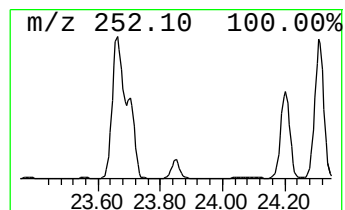
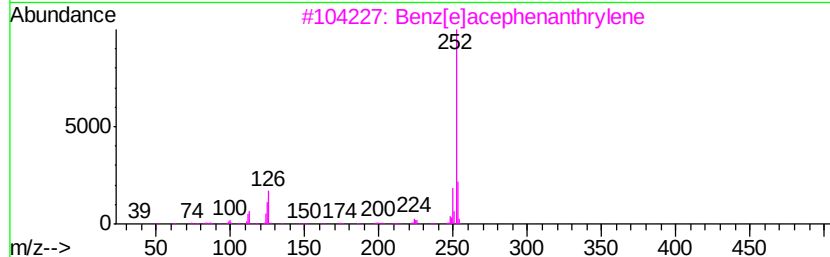
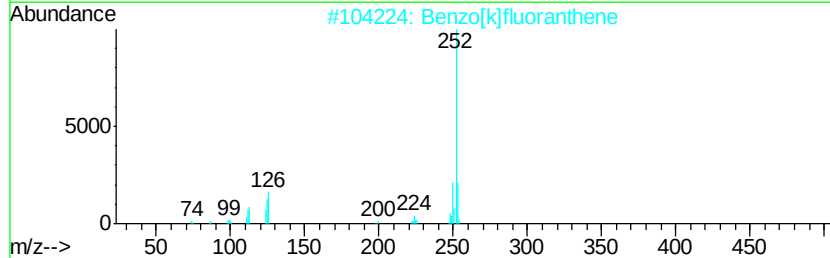
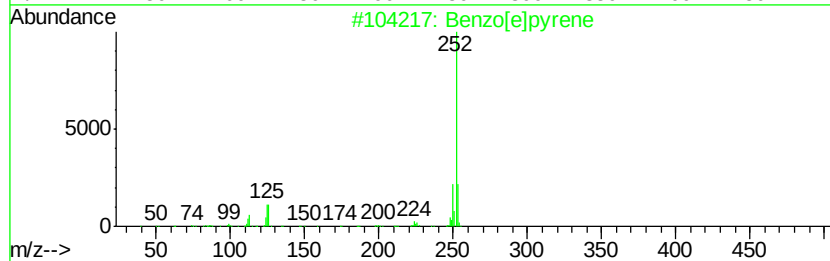
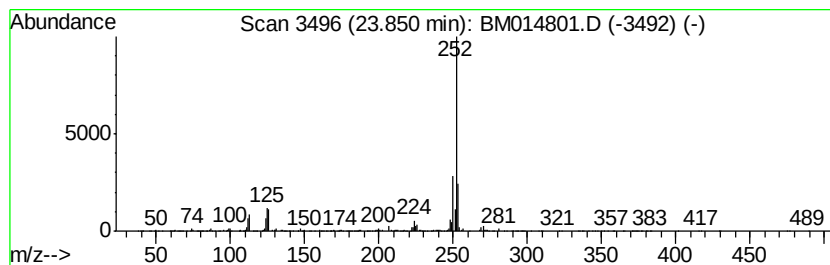
Instrument :  
BNA\_M  
ClientSampleId :  
C0AD5DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzo[e]pyrene Concentration Rank 4

| R.T.    | EstConc                   | Area         | Relative to ISTD | R.T.      |
|---------|---------------------------|--------------|------------------|-----------|
| 23.85   | 4.38 ng/ul                | 1126170      | Perylene-d12     | 24.42     |
| Hit# of | 5                         | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Benzo[e]pyrene            | 252 C20H12   | 000192-97-2      | 98        |
| 2       | Benzo[k]fluoranthene      | 252 C20H12   | 000207-08-9      | 98        |
| 3       | Benzo[e]acephenanthrylene | 252 C20H12   | 000205-99-2      | 93        |
| 4       | Benzo[e]acephenanthrylene | 252 C20H12   | 000205-99-2      | 89        |
| 5       | Benzo[a]pyrene            | 252 C20H12   | 000050-32-8      | 87        |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042318\  
Data File : BM014801.D  
Acq On : 24 Apr 2018 06:16  
Operator : SJ/JU  
Sample : J2434-20DL 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AD5DL

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |          |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|----------|------|
|                      |       |         |       |          | #                     | RT    | Resp     | Conc |
| Butane, 2-methoxy... | 3.36  | 5.3     | ng/ul | 644248   | 1                     | 8.53  | 2446710  | 20.0 |
| 11H-Benzo[b]fluorene | 20.67 | 2.3     | ng/ul | 1528250  | 5                     | 21.93 | 13220900 | 20.0 |
| Benzo(b)carbazole    | 22.26 | 2.9     | ng/ul | 1922560  | 5                     | 21.93 | 13220900 | 20.0 |
| Benzo[e]pyrene       | 23.85 | 4.4     | ng/ul | 1126170  | 6                     | 24.42 | 5139510  | 20.0 |