

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF071217\  
 Data File : BF096702.D  
 Acq On : 12 Jul 2017 20:07  
 Operator : SJ/JU  
 Sample : I4140-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP-03

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % 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\_F\METHODS\8270-BF070117.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 4.851       | 466           | 470         | 480          | rBV      | 347054         | 483479        | 17.41%          | 2.190%        |
| 2         | 5.281       | 538           | 543         | 546          | rBV      | 2503888        | 2517235       | 90.66%          | 11.403%       |
| 3         | 6.310       | 713           | 718         | 729          | rBV      | 2390317        | 2776610       | 100.00%         | 12.578%       |
| 4         | 6.440       | 735           | 740         | 743          | rBV      | 2577442        | 2446000       | 88.09%          | 11.080%       |
| 5         | 6.669       | 775           | 779         | 782          | rBV      | 802767         | 710778        | 25.60%          | 3.220%        |
| 6         | 6.822       | 801           | 805         | 809          | rBV      | 1876263        | 1804678       | 65.00%          | 8.175%        |
| 7         | 7.228       | 869           | 874         | 877          | rBV      | 1525964        | 1517161       | 54.64%          | 6.872%        |
| 8         | 7.945       | 992           | 996         | 999          | rBV      | 904011         | 844456        | 30.41%          | 3.825%        |
| 9         | 9.028       | 1175          | 1180        | 1183         | rBV      | 2583694        | 2278577       | 82.06%          | 10.322%       |
| 10        | 9.422       | 1243          | 1247        | 1250         | rBV      | 339667         | 287369        | 10.35%          | 1.302%        |
| 11        | 9.698       | 1290          | 1294        | 1297         | rBV2     | 975424         | 800172        | 28.82%          | 3.625%        |
| 12        | 9.728       | 1297          | 1299        | 1303         | rVB      | 35786          | 30234         | 1.09%           | 0.137%        |
| 13        | 10.145      | 1368          | 1370        | 1373         | rVB      | 41481          | 31771         | 1.14%           | 0.144%        |
| 14        | 10.245      | 1384          | 1387        | 1391         | rBV      | 45155          | 40695         | 1.47%           | 0.184%        |
| 15        | 10.369      | 1403          | 1408        | 1412         | rBV4     | 15183          | 27994         | 1.01%           | 0.127%        |
| 16        | 10.486      | 1424          | 1428        | 1431         | rBV      | 1107970        | 1063399       | 38.30%          | 4.817%        |
| 17        | 10.616      | 1447          | 1450        | 1458         | rBV      | 67149          | 74131         | 2.67%           | 0.336%        |
| 18        | 11.063      | 1523          | 1526        | 1530         | rBV2     | 31360          | 31237         | 1.13%           | 0.141%        |
| 19        | 11.175      | 1542          | 1545        | 1548         | rBV      | 702266         | 657808        | 23.69%          | 2.980%        |
| 20        | 11.198      | 1548          | 1549        | 1553         | rVV      | 231683         | 147522        | 5.31%           | 0.668%        |
| 21        | 11.251      | 1555          | 1558        | 1561         | rVB      | 75472          | 61907         | 2.23%           | 0.280%        |
| 22        | 11.710      | 1633          | 1636        | 1641         | rVV2     | 35247          | 46134         | 1.66%           | 0.209%        |
| 23        | 11.786      | 1646          | 1649        | 1652         | rBV      | 48075          | 48891         | 1.76%           | 0.221%        |
| 24        | 12.380      | 1747          | 1750        | 1754         | rVB      | 120657         | 106532        | 3.84%           | 0.483%        |
| 25        | 12.610      | 1784          | 1789        | 1792         | rBV      | 115027         | 125055        | 4.50%           | 0.566%        |
| 26        | 12.763      | 1811          | 1815        | 1818         | rBV      | 1457581        | 1350425       | 48.64%          | 6.117%        |
| 27        | 13.010      | 1854          | 1857        | 1859         | rVB      | 32404          | 29402         | 1.06%           | 0.133%        |
| 28        | 13.463      | 1930          | 1934        | 1938         | rBV      | 71585          | 67841         | 2.44%           | 0.307%        |
| 29        | 13.668      | 1965          | 1969        | 1976         | rBV      | 125406         | 158351        | 5.70%           | 0.717%        |
| 30        | 13.721      | 1976          | 1978        | 1981         | rVB      | 37422          | 32985         | 1.19%           | 0.149%        |
| 31        | 13.804      | 1987          | 1992        | 1995         | rBV      | 623112         | 609952        | 21.97%          | 2.763%        |
| 32        | 13.827      | 1995          | 1996        | 2000         | rVB      | 51790          | 35960         | 1.30%           | 0.163%        |
| 33        | 14.110      | 2041          | 2044        | 2050         | rVB6     | 35431          | 42564         | 1.53%           | 0.193%        |
| 34        | 14.298      | 2073          | 2076        | 2083         | rBV3     | 51330          | 95035         | 3.42%           | 0.430%        |

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Misc :  
ALS Vial : 17 Sample Multiplier: 1

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BNA\_F  
ClientSampleId :  
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Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
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|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 14.810 | 2159 | 2163 | 2170 | rBV2 | 39797  | 89041  | 3.21%  | 0.403% |
| 36 | 14.898 | 2175 | 2178 | 2181 | rBV3 | 17295  | 29703  | 1.07%  | 0.135% |
| 37 | 15.139 | 2216 | 2219 | 2222 | rBV  | 30452  | 29184  | 1.05%  | 0.132% |
| 38 | 15.198 | 2224 | 2229 | 2235 | rBV  | 424921 | 498341 | 17.95% | 2.257% |
| 39 | 15.686 | 2309 | 2312 | 2320 | rVB8 | 24226  | 47222  | 1.70%  | 0.214% |

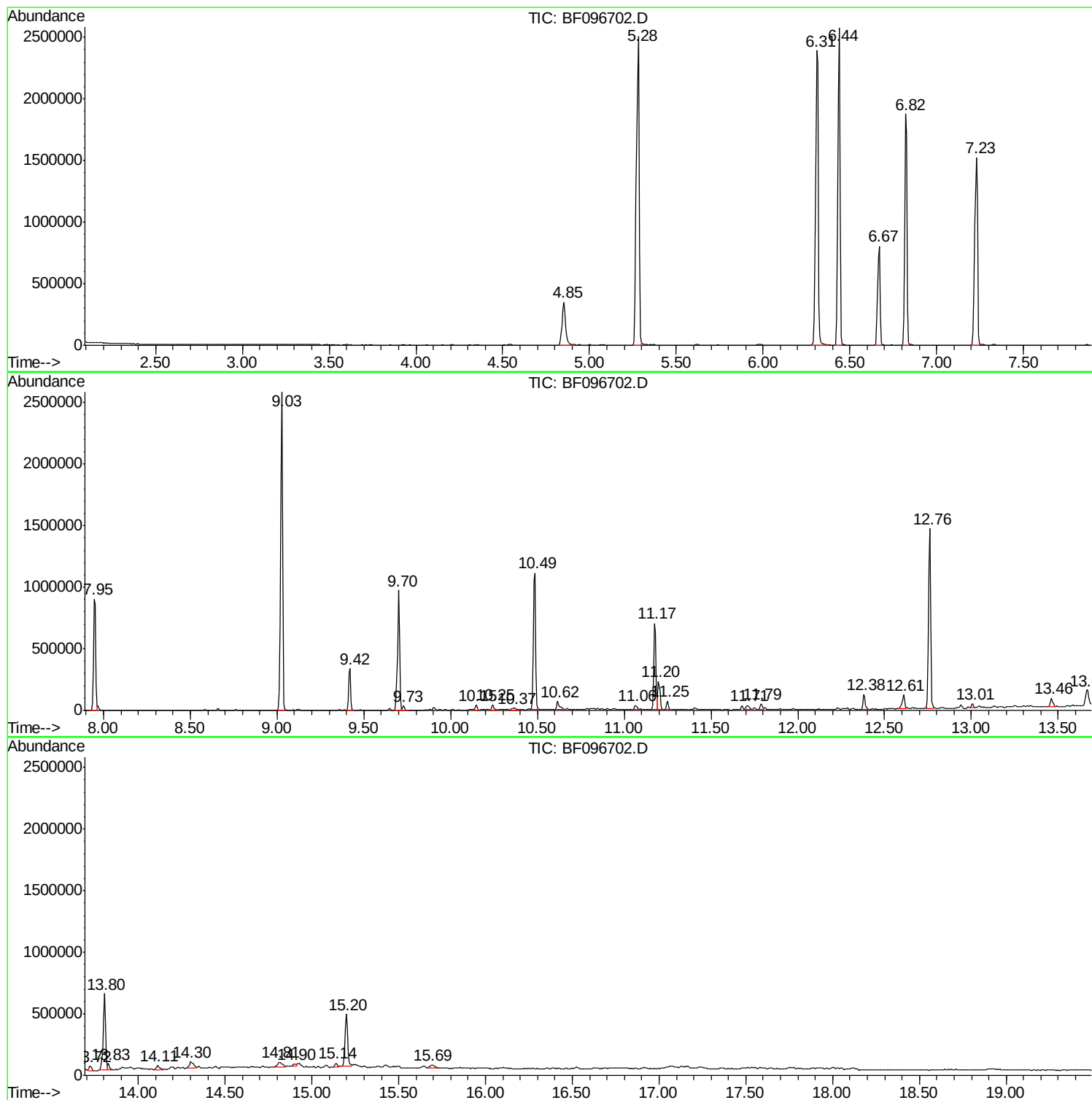
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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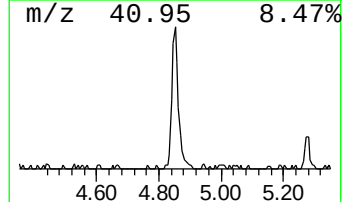
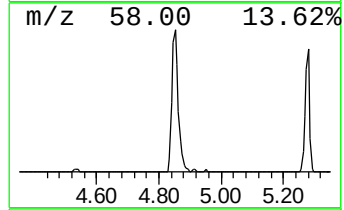
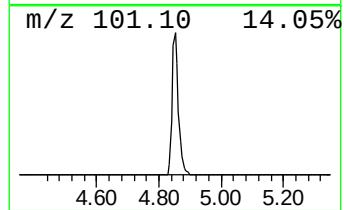
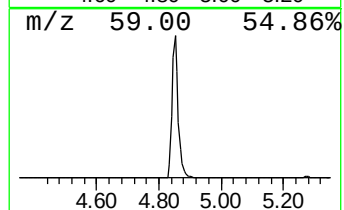
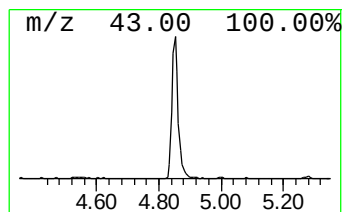
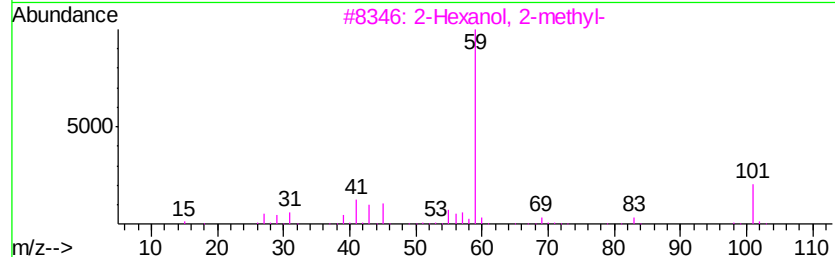
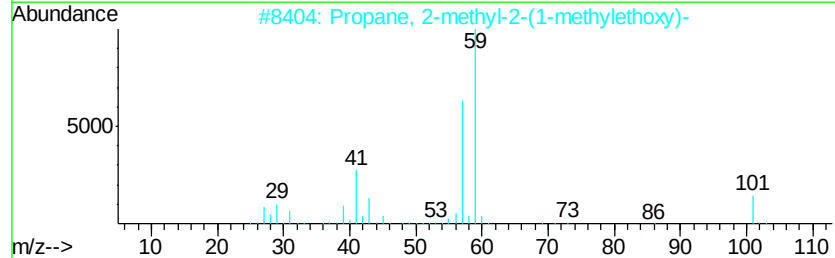
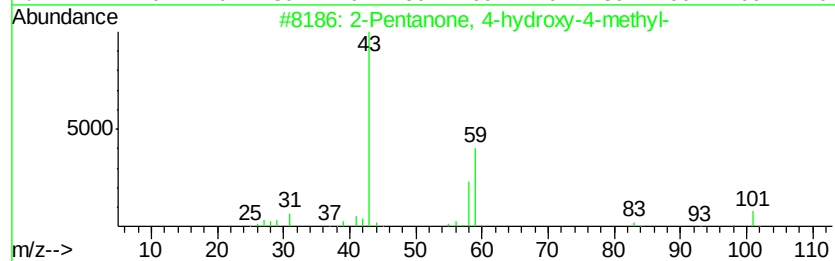
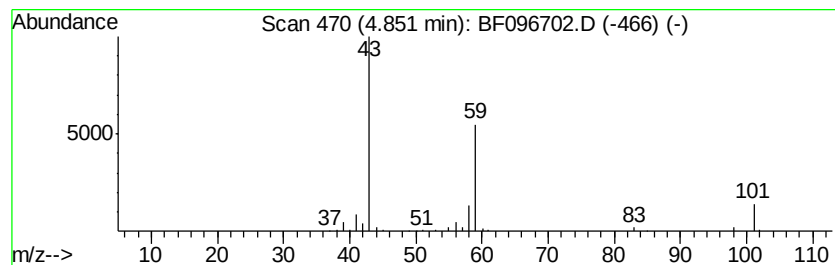
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.85 | 13.60 ng | 483479 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 36   |
| 3    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 28   |
| 4    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 5    |    |   | 1-Propen-2-ol, acetate              | 100 | C5H8O2   | 000108-22-5 | 10   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
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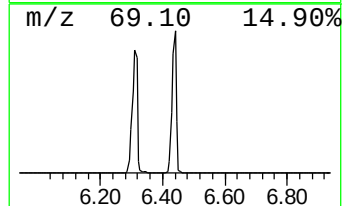
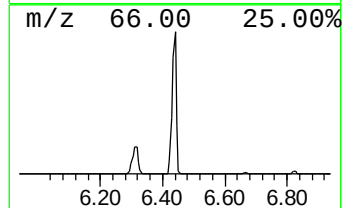
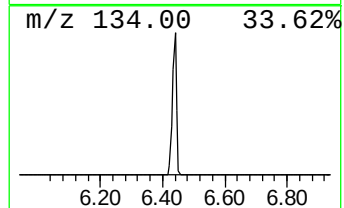
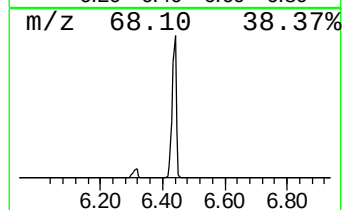
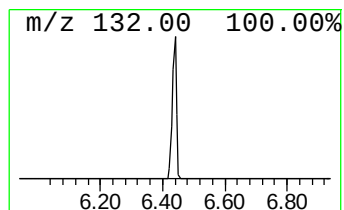
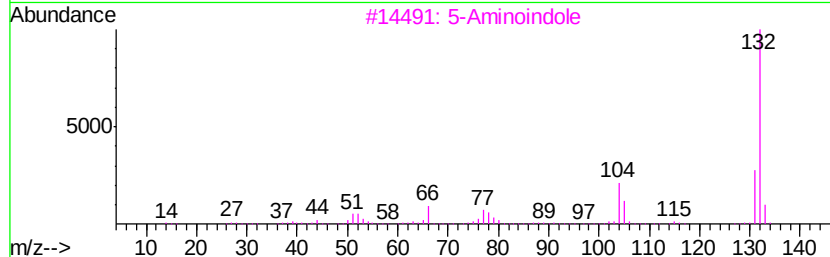
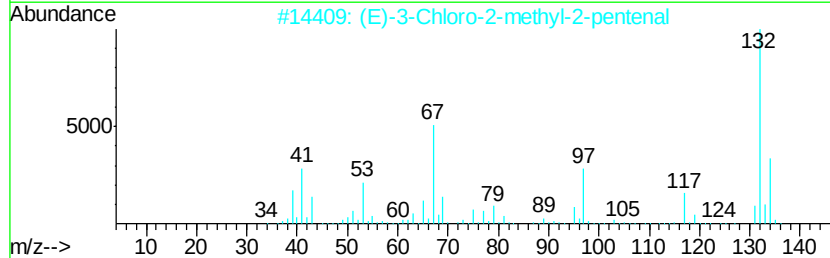
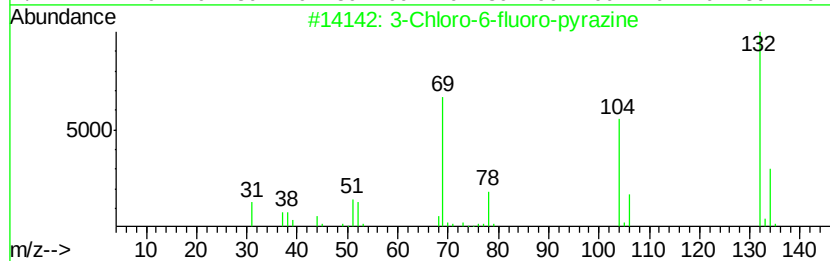
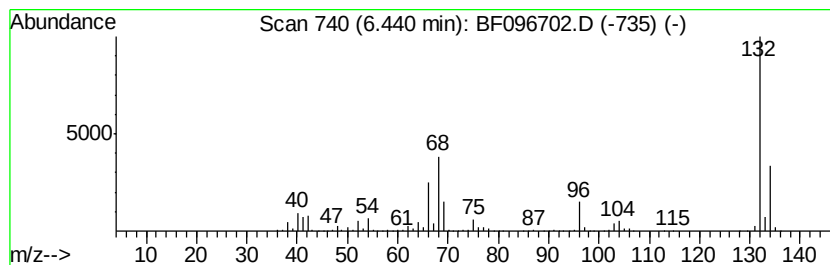
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.44 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.44 | 68.83 ng | 2446000 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
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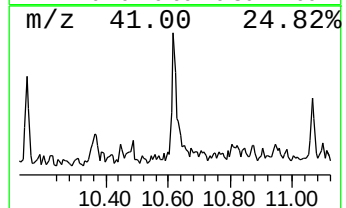
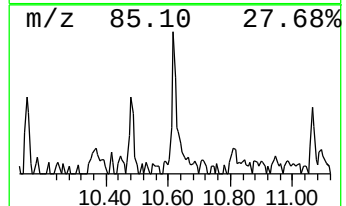
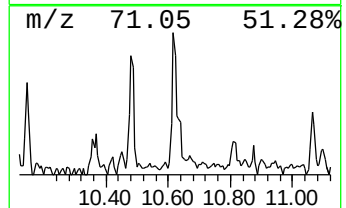
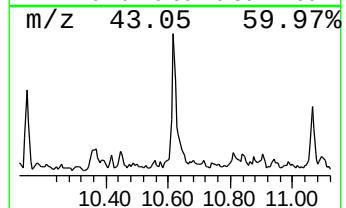
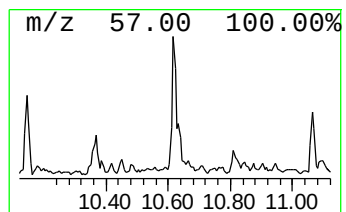
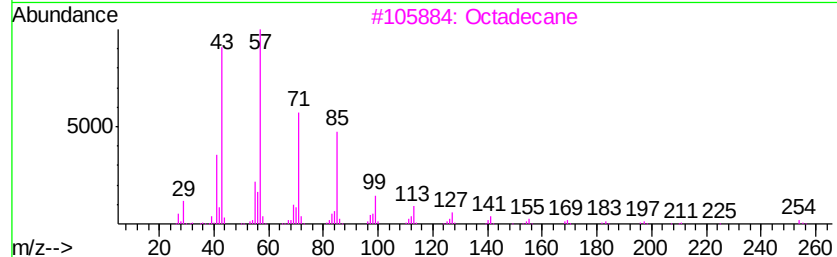
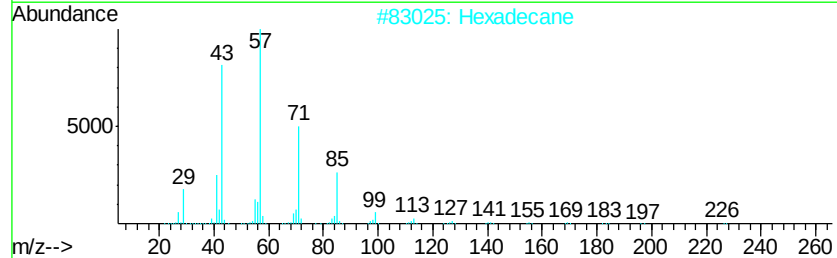
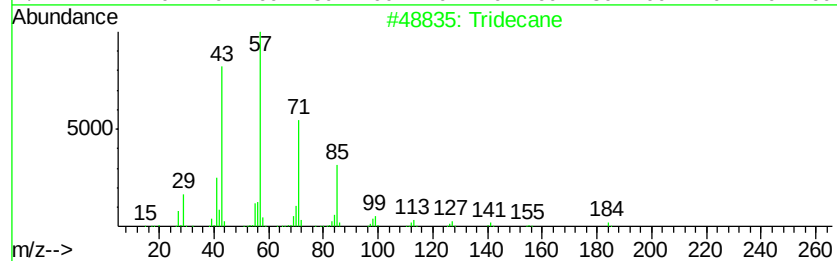
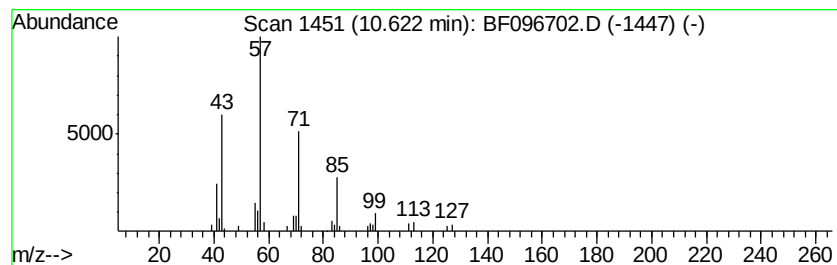
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Tridecane Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 10.62 | 2.25 ng | 74131 | Phenanthrene-d10 | 11.17 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 94   |
| 2       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 86   |
| 3       | Octadecane  |              | 254 | C18H38  | 000593-45-3 | 86   |
| 4       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 86   |
| 5       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 83   |



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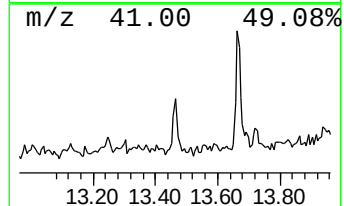
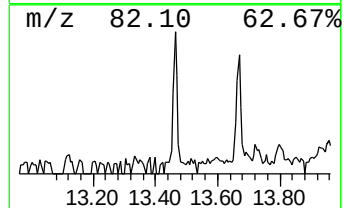
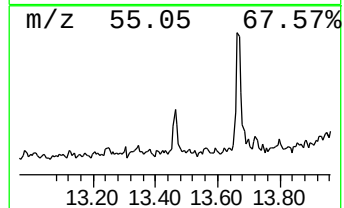
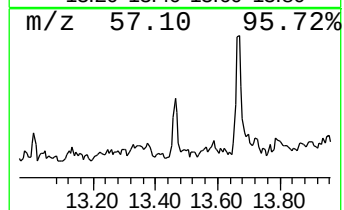
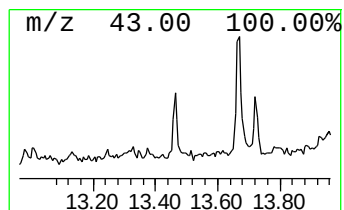
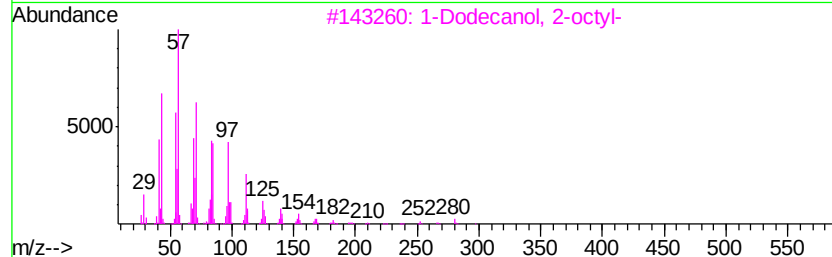
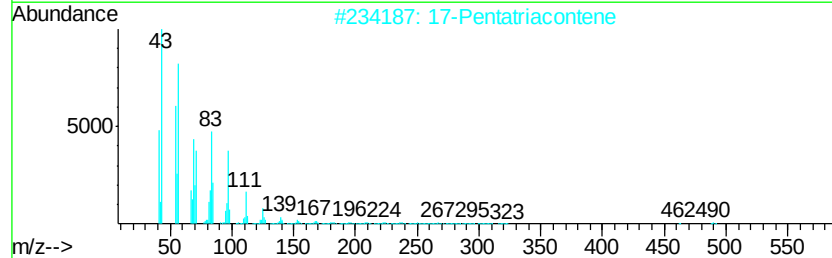
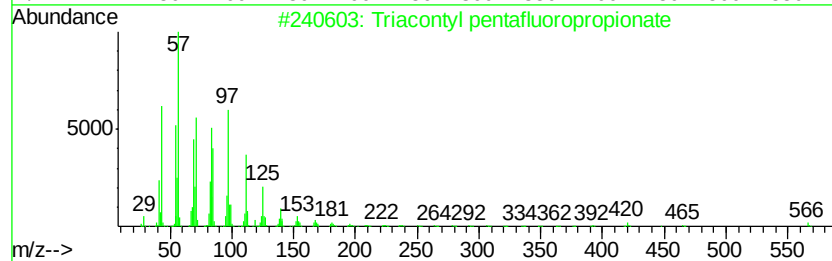
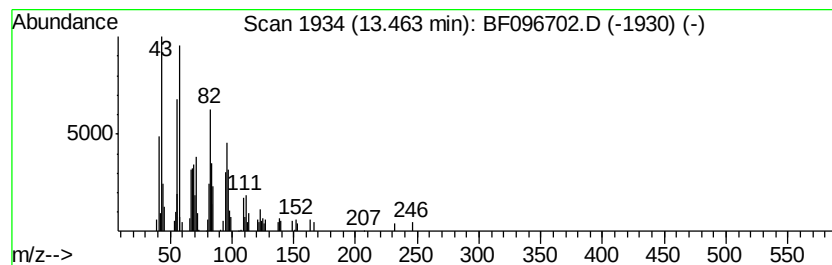
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 unknown13.46 Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.46 | 2.22 ng | 67841 | Chrysene-d12     | 13.80 |

| Hit# of | 5 | Tentative ID                     | MW  | MolForm    | CAS#         | Qual |
|---------|---|----------------------------------|-----|------------|--------------|------|
| 1       |   | Triacetyl pentafluoropropionate  | 584 | C33H61F5O2 | 1000351-80-0 | 43   |
| 2       |   | 17-Pentatriacontene              | 491 | C35H70     | 006971-40-0  | 43   |
| 3       |   | 1-Dodecanol, 2-octyl-            | 298 | C20H42O    | 005333-42-6  | 41   |
| 4       |   | Heptacosyl pentafluoropropionate | 542 | C30H55F5O2 | 1000351-81-6 | 41   |
| 5       |   | Tetratriacontyl trifluoroacetate | 591 | C36H69F3O2 | 1000351-75-3 | 38   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

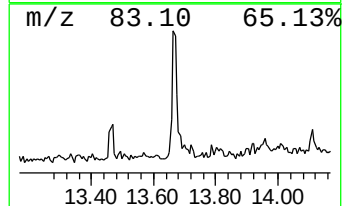
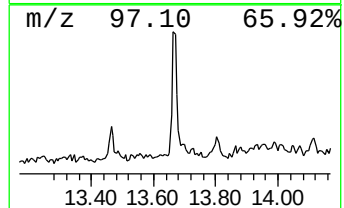
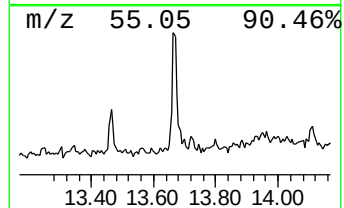
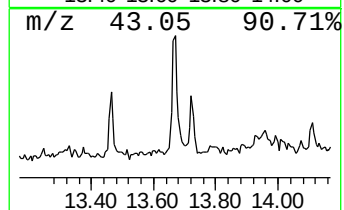
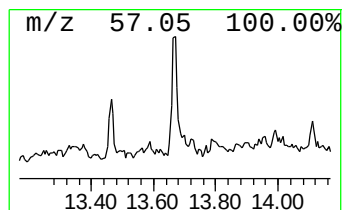
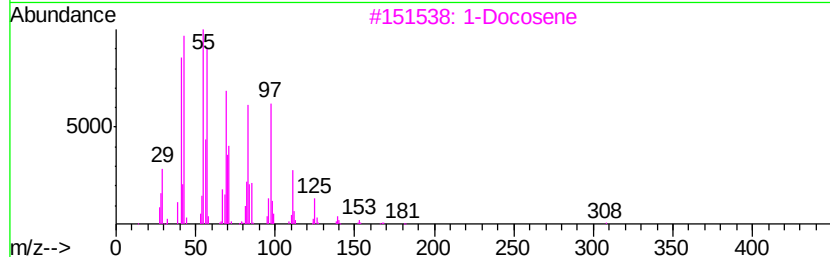
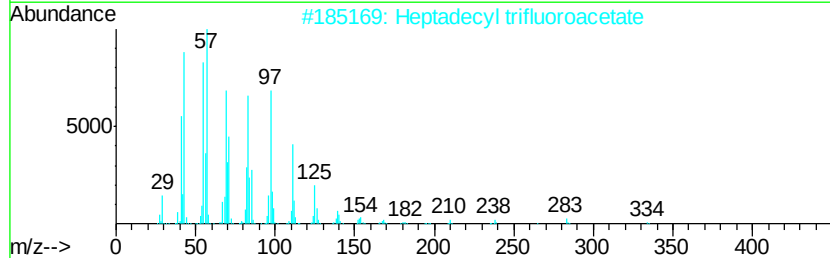
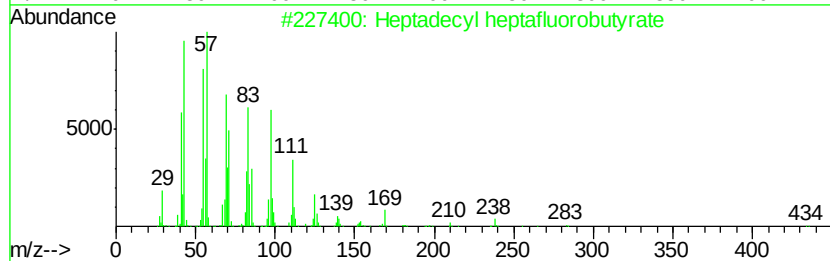
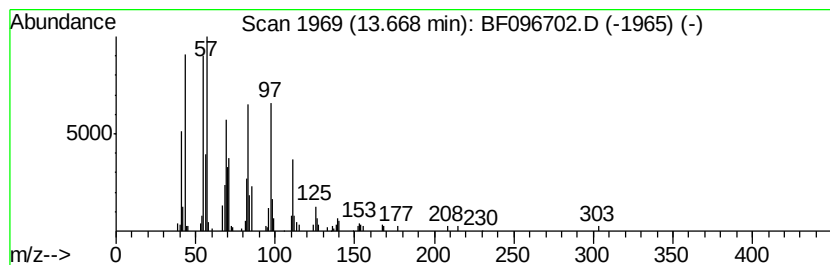
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heptadecyl heptafluorobutyrate Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.67 | 5.19 ng | 158351 | Chrysene-d12     | 13.80 |

| Hit# | of | Tentative ID                   | MW  | MolForm    | CAS#         | Qual |
|------|----|--------------------------------|-----|------------|--------------|------|
| 1    | 5  | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6  | 95   |
| 2    |    | Heptadecyl trifluoroacetate    | 352 | C19H35F3O2 | 1000351-87-0 | 94   |
| 3    |    | 1-Docosene                     | 308 | C22H44     | 001599-67-3  | 94   |
| 4    |    | Behenic alcohol                | 326 | C22H46O    | 000661-19-8  | 91   |
| 5    |    | n-Heptadecanol-1               | 256 | C17H36O    | 001454-85-9  | 91   |





Data Path : Z:\HPCHEM1\BNA\_F\Data\BF071217\  
Data File : BF096702.D  
Acq On : 12 Jul 2017 20:07  
Operator : SJ/JU  
Sample : I4140-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EP-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

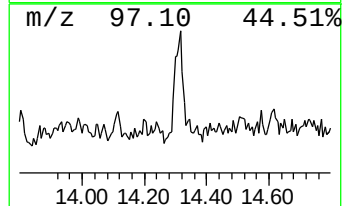
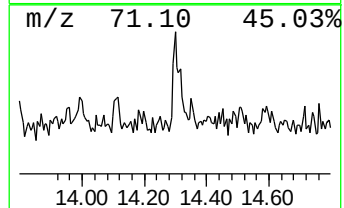
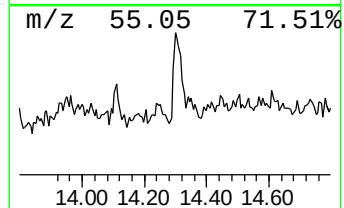
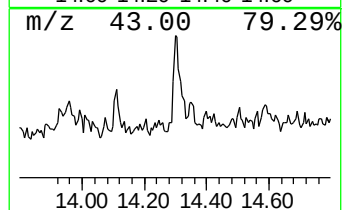
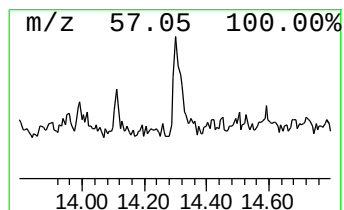
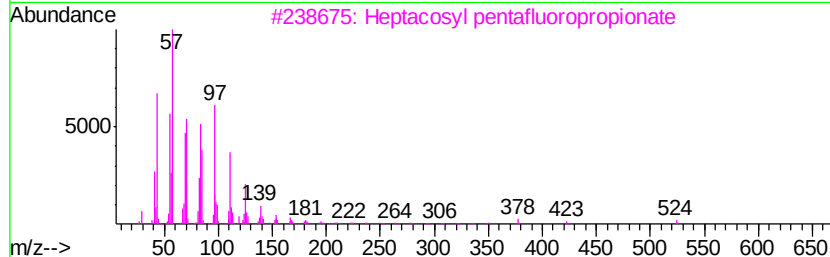
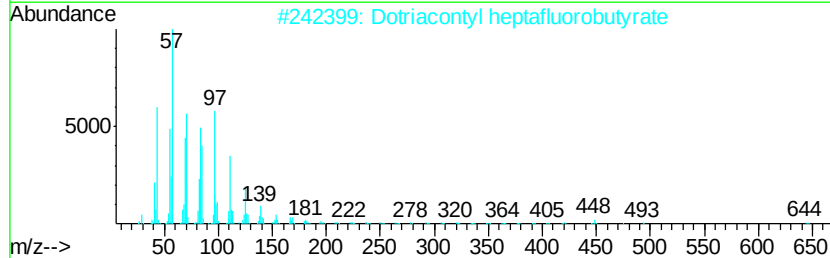
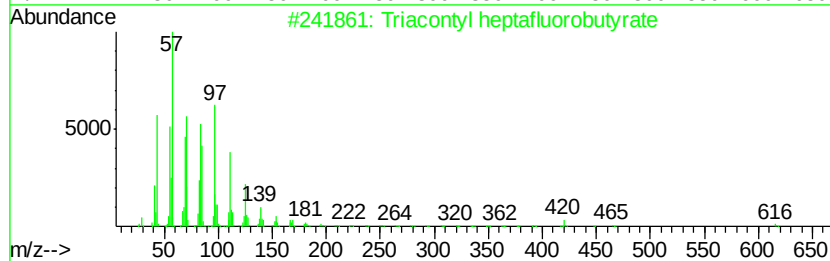
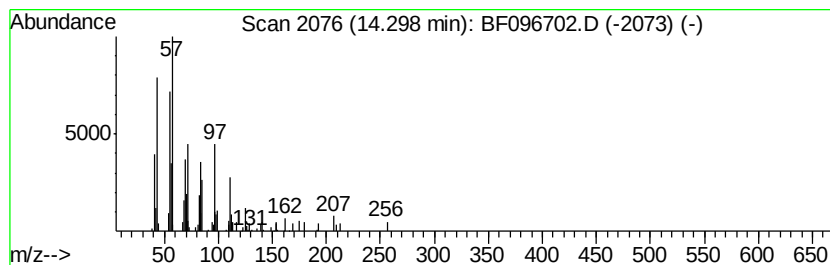
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Triacontyl heptafluorobutyrate Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.30 | 3.12 ng | 95035 | Chrysene-d12     | 13.80 |

| Hit# | of | Tentative ID                       | MW  | MolForm    | CAS#         | Qual |
|------|----|------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Triacontyl heptafluorobutyrate     | 634 | C34H61F7O2 | 1000351-83-2 | 91   |
| 2    |    | Dotriacontyl heptafluorobutyrate   | 662 | C36H65F7O2 | 1000351-84-2 | 91   |
| 3    |    | Heptacosyl pentafluoropropionate   | 542 | C30H55F5O2 | 1000351-81-6 | 91   |
| 4    |    | Dotriacontyl pentafluoropropionate | 612 | C35H65F5O2 | 1000351-81-4 | 91   |
| 5    |    | Triacontyl pentafluoropropionate   | 584 | C33H61F5O2 | 1000351-80-0 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\Data\BF071217\  
Data File : BF096702.D  
Acq On : 12 Jul 2017 20:07  
Operator : SJ/JU  
Sample : I4140-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EP-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

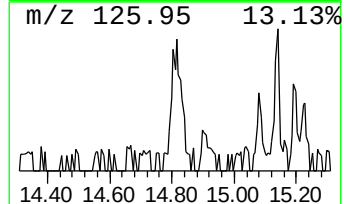
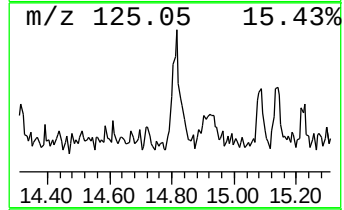
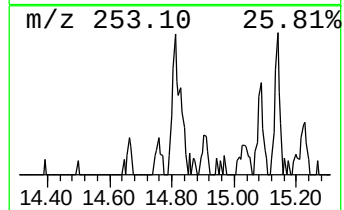
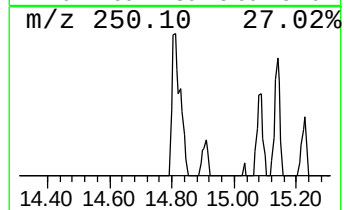
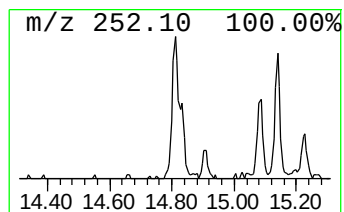
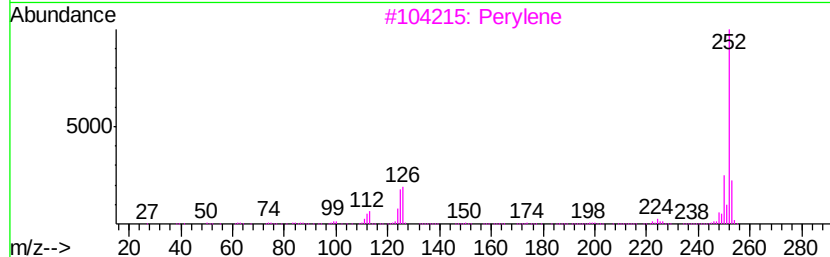
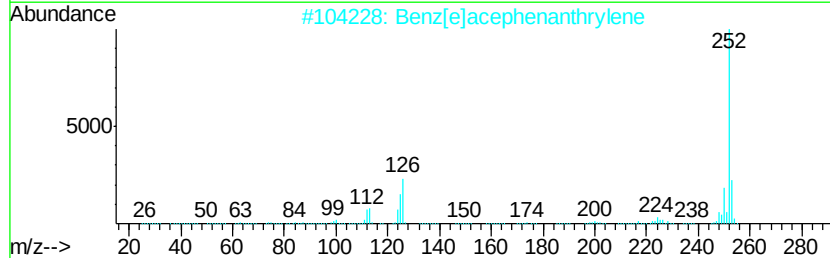
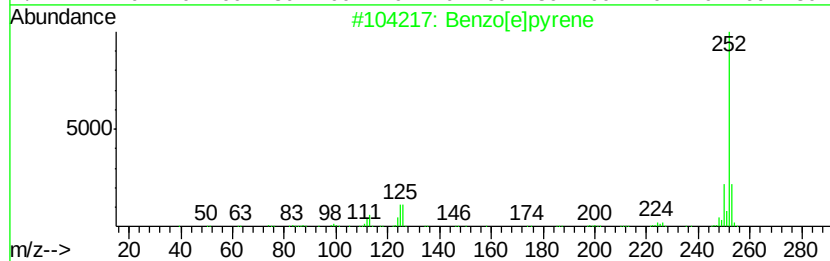
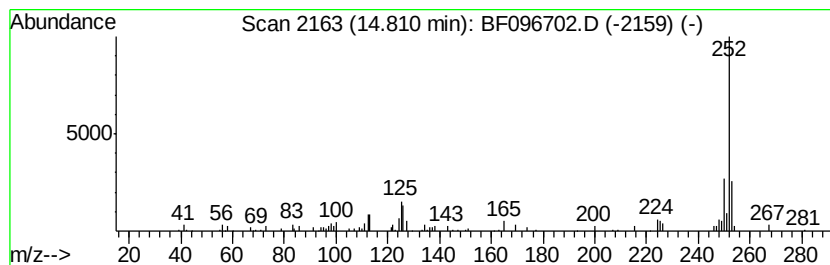
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Benzo[e]pyrene Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.81 | 3.57 ng | 89041 | Perylene-d12     | 15.20 |

| Hit# of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|-----------|--------------------------|-----|---------|-------------|------|
| 1         | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 94   |
| 2         | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 90   |
| 3         | Perylene                 | 252 | C20H12  | 000198-55-0 | 90   |
| 4         | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 90   |
| 5         | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\Data\BF071217\  
Data File : BF096702.D  
Acq On : 12 Jul 2017 20:07  
Operator : SJ/JU  
Sample : I4140-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EP-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| 2-Pentanone, 4-hy... | 4.85  | 13.6    | ng    | 483479   | 1                     | 6.67  | 710778 | 20.0 |
| unknown6.44          | 6.44  | 68.8    | ng    | 2446000  | 1                     | 6.67  | 710778 | 20.0 |
| Tridecane            | 10.62 | 2.3     | ng    | 74131    | 4                     | 11.17 | 657808 | 20.0 |
| unknown13.46         | 13.46 | 2.2     | ng    | 67841    | 5                     | 13.80 | 609952 | 20.0 |
| Heptadecyl heptaf... | 13.67 | 5.2     | ng    | 158351   | 5                     | 13.80 | 609952 | 20.0 |
| Triacontyl heptaf... | 14.30 | 3.1     | ng    | 95035    | 5                     | 13.80 | 609952 | 20.0 |
| Benzo[e]pyrene       | 14.81 | 3.6     | ng    | 89041    | 6                     | 15.20 | 498341 | 20.0 |