

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF111318\  
 Data File : BF110735.D  
 Acq On : 13 Nov 2018 22:38  
 Operator : JU/SJ  
 Sample : J5770-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-01-111218-A

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110818.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         | 2.240       | 22            | 26          | 40           | rVB      | 65659          | 101473        | 9.89%           | 0.879%        |
| 2         | 5.175       | 522           | 525         | 533          | rBV      | 20937          | 32422         | 3.16%           | 0.281%        |
| 3         | 5.563       | 587           | 591         | 607          | rBV      | 847323         | 935301        | 91.13%          | 8.106%        |
| 4         | 6.569       | 758           | 762         | 778          | rBV      | 882262         | 1026365       | 100.00%         | 8.896%        |
| 5         | 6.710       | 783           | 786         | 794          | rBV      | 1164977        | 999820        | 97.41%          | 8.666%        |
| 6         | 6.945       | 822           | 826         | 833          | rBV      | 563426         | 492040        | 47.94%          | 4.265%        |
| 7         | 7.098       | 848           | 852         | 866          | rBV      | 854852         | 759302        | 73.98%          | 6.581%        |
| 8         | 7.510       | 918           | 922         | 937          | rBV      | 537704         | 595755        | 58.05%          | 5.164%        |
| 9         | 8.228       | 1040          | 1044        | 1059         | rBV      | 578314         | 610372        | 59.47%          | 5.290%        |
| 10        | 9.298       | 1222          | 1226        | 1235         | rBV      | 1075458        | 943547        | 91.93%          | 8.178%        |
| 11        | 9.692       | 1287          | 1293        | 1302         | rVB      | 34556          | 42313         | 4.12%           | 0.367%        |
| 12        | 9.851       | 1315          | 1320        | 1323         | rBV      | 17001          | 18906         | 1.84%           | 0.164%        |
| 13        | 9.892       | 1323          | 1327        | 1337         | rVB5     | 10241          | 16190         | 1.58%           | 0.140%        |
| 14        | 9.986       | 1339          | 1343        | 1347         | rBV      | 595446         | 566040        | 55.15%          | 4.906%        |
| 15        | 10.392      | 1409          | 1412        | 1416         | rBV      | 21356          | 16704         | 1.63%           | 0.145%        |
| 16        | 10.539      | 1434          | 1437        | 1444         | rVB      | 12110          | 15275         | 1.49%           | 0.132%        |
| 17        | 10.775      | 1474          | 1477        | 1490         | rBV      | 435395         | 463610        | 45.17%          | 4.018%        |
| 18        | 10.869      | 1490          | 1493        | 1499         | rVB2     | 10103          | 14042         | 1.37%           | 0.122%        |
| 19        | 11.480      | 1593          | 1597        | 1599         | rBV      | 527990         | 474192        | 46.20%          | 4.110%        |
| 20        | 11.504      | 1599          | 1601        | 1608         | rVB      | 91252          | 82216         | 8.01%           | 0.713%        |
| 21        | 11.557      | 1608          | 1610        | 1614         | rBV      | 22918          | 23572         | 2.30%           | 0.204%        |
| 22        | 11.980      | 1679          | 1682        | 1685         | rBV      | 49119          | 49618         | 4.83%           | 0.430%        |
| 23        | 12.010      | 1685          | 1687        | 1693         | rVB      | 20899          | 24532         | 2.39%           | 0.213%        |
| 24        | 12.098      | 1698          | 1702        | 1704         | rVV2     | 31141          | 35968         | 3.50%           | 0.312%        |
| 25        | 12.116      | 1704          | 1705        | 1709         | rVB      | 17233          | 13712         | 1.34%           | 0.119%        |
| 26        | 12.275      | 1726          | 1732        | 1735         | rBV2     | 12083          | 15428         | 1.50%           | 0.134%        |
| 27        | 12.310      | 1735          | 1738        | 1743         | rVB5     | 9088           | 13689         | 1.33%           | 0.119%        |
| 28        | 12.533      | 1772          | 1776        | 1778         | rBV2     | 36687          | 38387         | 3.74%           | 0.333%        |
| 29        | 12.633      | 1788          | 1793        | 1800         | rVB7     | 13597          | 23407         | 2.28%           | 0.203%        |
| 30        | 12.698      | 1800          | 1804        | 1807         | rBV      | 178387         | 158078        | 15.40%          | 1.370%        |
| 31        | 12.769      | 1812          | 1816        | 1819         | rBV4     | 9439           | 13760         | 1.34%           | 0.119%        |
| 32        | 12.851      | 1826          | 1830        | 1832         | rBV3     | 12306          | 12708         | 1.24%           | 0.110%        |
| 33        | 12.910      | 1837          | 1840        | 1841         | rBV2     | 34905          | 30726         | 2.99%           | 0.266%        |
| 34        | 12.927      | 1841          | 1843        | 1849         | rVB      | 162469         | 159885        | 15.58%          | 1.386%        |

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Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110818.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 12.974 | 1849 | 1851 | 1857 | rBV2 | 11903  | 18312  | 1.78%  | 0.159% |
| 36 | 13.057 | 1861 | 1865 | 1869 | rBV  | 808623 | 730555 | 71.18% | 6.332% |
| 37 | 13.139 | 1876 | 1879 | 1880 | rBV2 | 14665  | 14709  | 1.43%  | 0.127% |
| 38 | 13.257 | 1892 | 1899 | 1903 | rBV2 | 34854  | 64191  | 6.25%  | 0.556% |
| 39 | 13.322 | 1908 | 1910 | 1914 | rVV2 | 17954  | 18741  | 1.83%  | 0.162% |
| 40 | 13.363 | 1914 | 1917 | 1920 | rBV2 | 23414  | 22130  | 2.16%  | 0.192% |
| 41 | 13.457 | 1930 | 1933 | 1935 | rBV  | 17663  | 18251  | 1.78%  | 0.158% |
| 42 | 13.486 | 1935 | 1938 | 1941 | rVV  | 15116  | 17306  | 1.69%  | 0.150% |
| 43 | 13.880 | 2003 | 2005 | 2007 | rBV  | 15192  | 15199  | 1.48%  | 0.132% |
| 44 | 13.904 | 2007 | 2009 | 2011 | rVV  | 17212  | 13645  | 1.33%  | 0.118% |
| 45 | 13.933 | 2011 | 2014 | 2021 | rVV4 | 63753  | 81376  | 7.93%  | 0.705% |
| 46 | 14.127 | 2042 | 2047 | 2050 | rBV2 | 535900 | 583721 | 56.87% | 5.059% |
| 47 | 14.157 | 2050 | 2052 | 2058 | rVB  | 96913  | 89775  | 8.75%  | 0.778% |
| 48 | 14.557 | 2117 | 2120 | 2124 | rBV3 | 53114  | 73473  | 7.16%  | 0.637% |
| 49 | 14.874 | 2171 | 2174 | 2179 | rVB  | 65261  | 70365  | 6.86%  | 0.610% |
| 50 | 15.221 | 2227 | 2233 | 2237 | rVB2 | 105187 | 189025 | 18.42% | 1.638% |
| 51 | 15.527 | 2282 | 2285 | 2289 | rVB  | 33799  | 34221  | 3.33%  | 0.297% |
| 52 | 15.592 | 2293 | 2296 | 2298 | rVV  | 44640  | 54717  | 5.33%  | 0.474% |
| 53 | 15.621 | 2298 | 2301 | 2303 | rVV  | 85351  | 100775 | 9.82%  | 0.873% |
| 54 | 15.657 | 2303 | 2307 | 2311 | rVB  | 230843 | 282987 | 27.57% | 2.453% |
| 55 | 16.074 | 2373 | 2378 | 2385 | rVB  | 87073  | 140475 | 13.69% | 1.218% |
| 56 | 16.604 | 2464 | 2468 | 2473 | rVB  | 53120  | 84502  | 8.23%  | 0.732% |

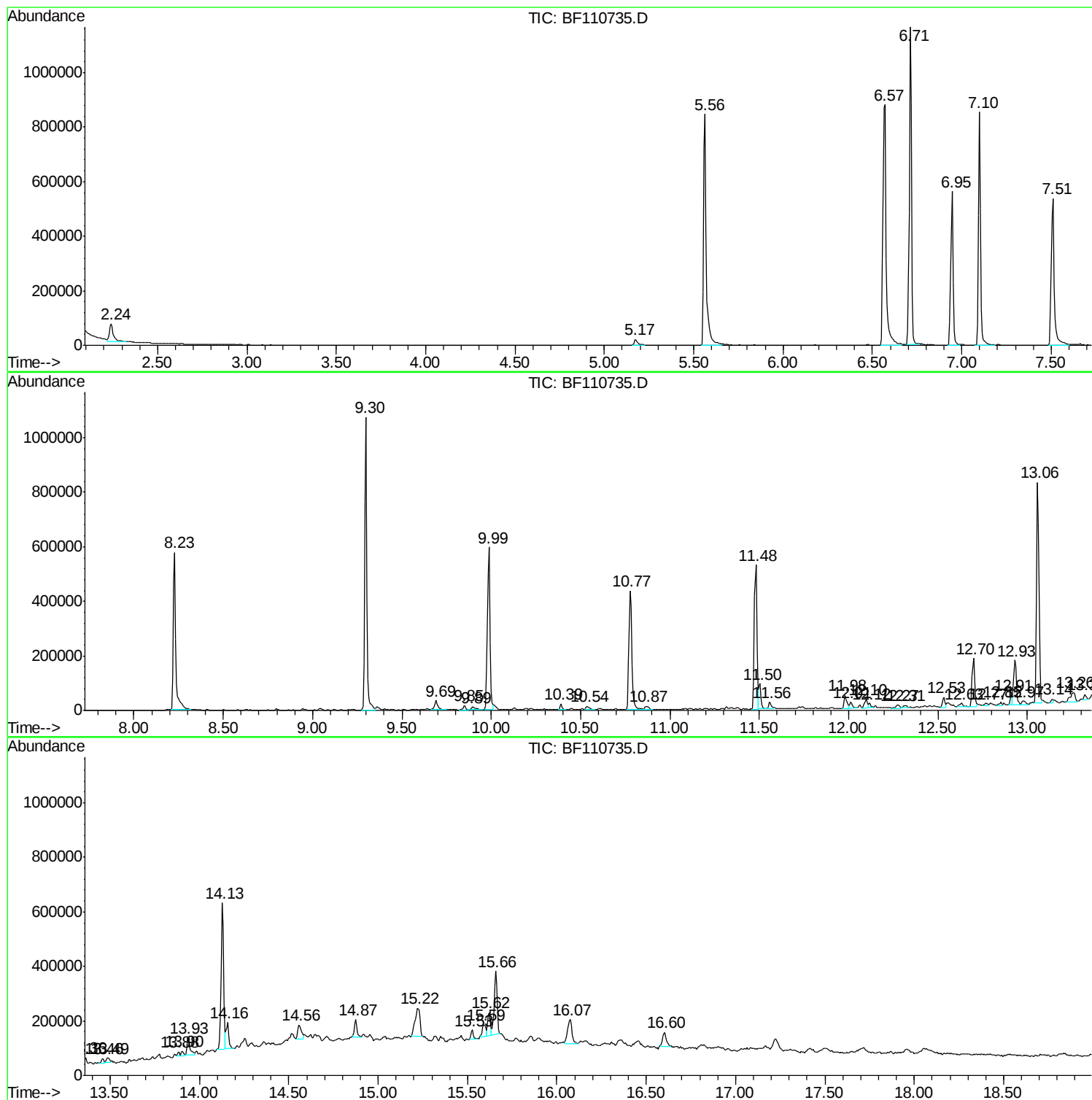
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Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
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Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110735.D  
Acq On : 13 Nov 2018 22:38  
Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

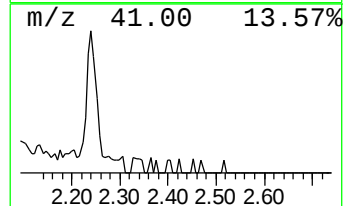
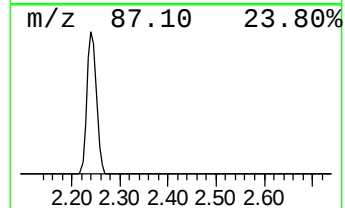
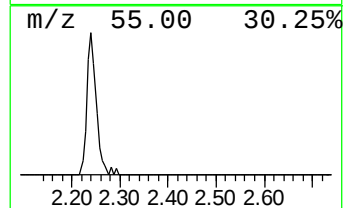
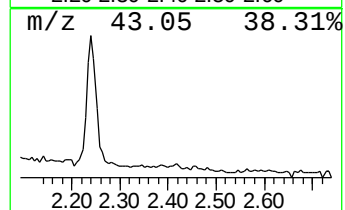
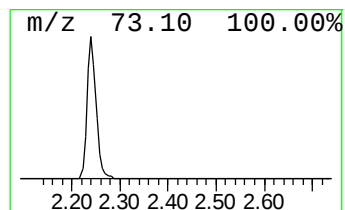
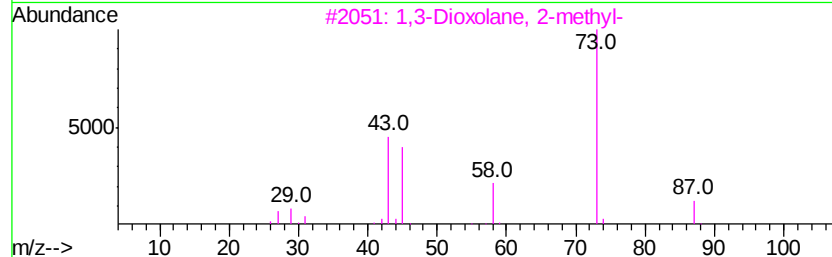
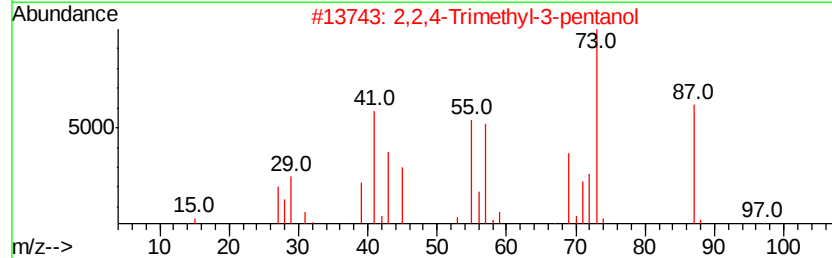
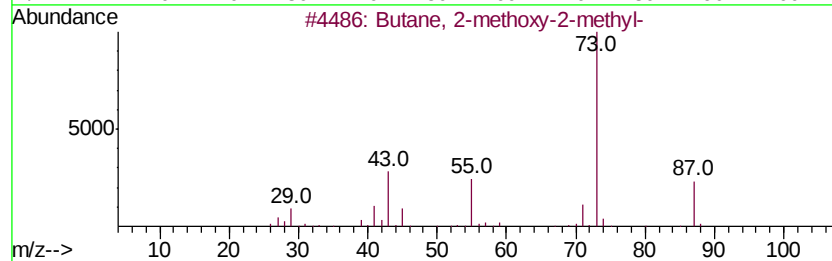
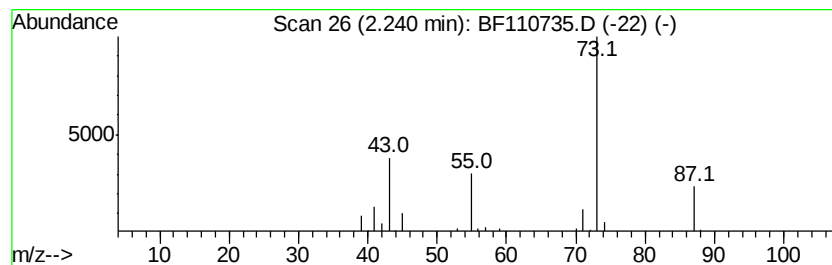
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.24 | 4.12 ng | 101473 | 1,4-Dichlorobenzene-d4 | 6.95 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 39   |
| 3    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 4    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 25   |
| 5    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 12   |



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Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

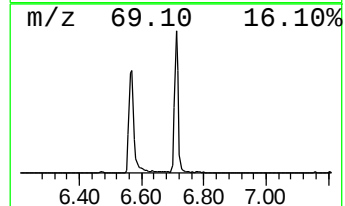
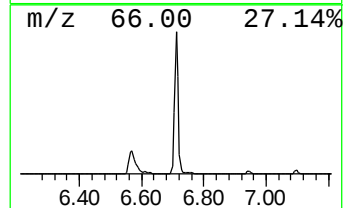
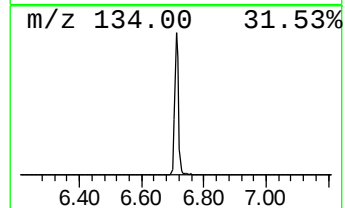
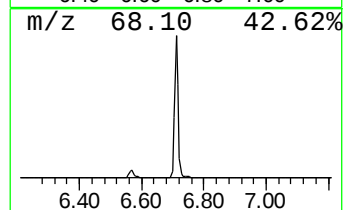
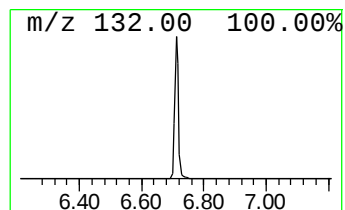
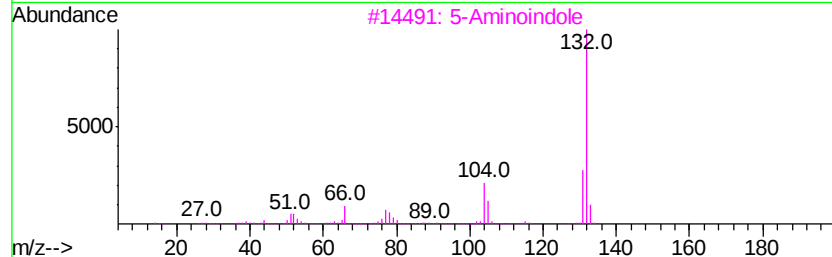
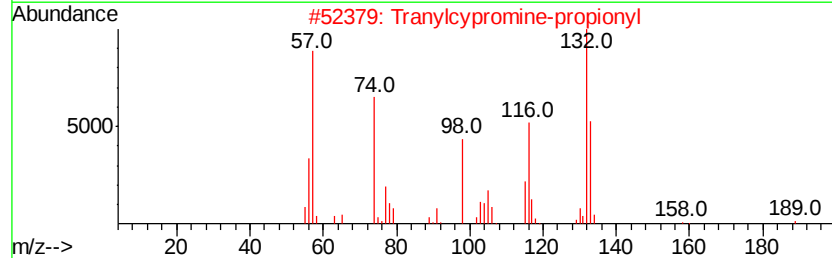
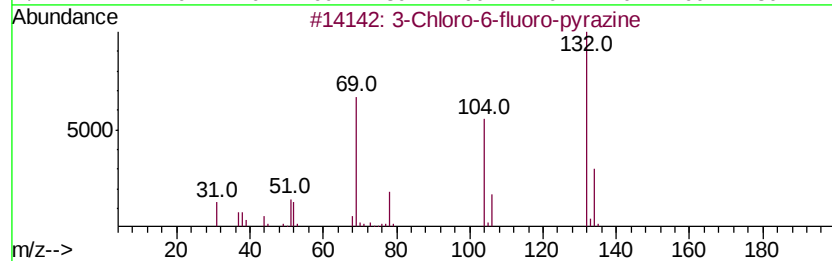
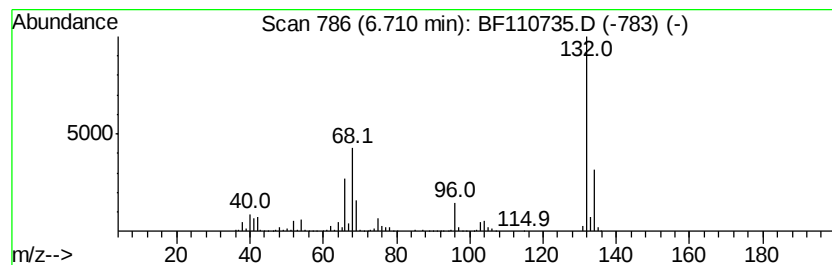
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.71 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.71 | 40.64 ng | 999820 | 1,4-Dichlorobenzene-d4 | 6.95 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 3    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 10   |
| 4    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

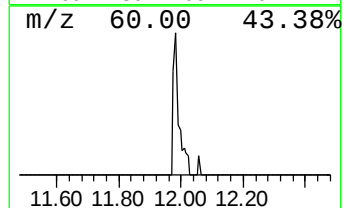
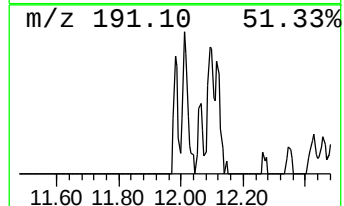
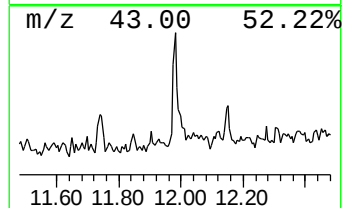
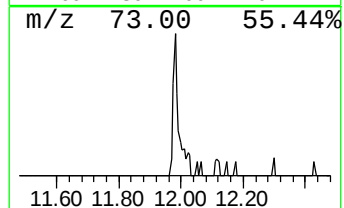
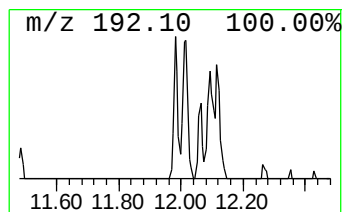
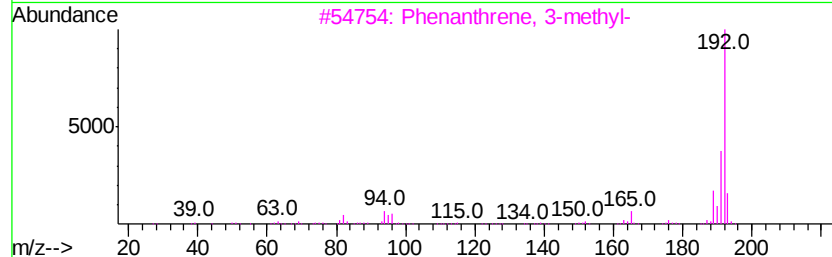
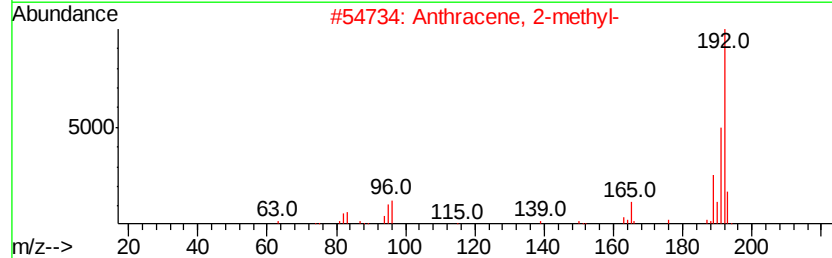
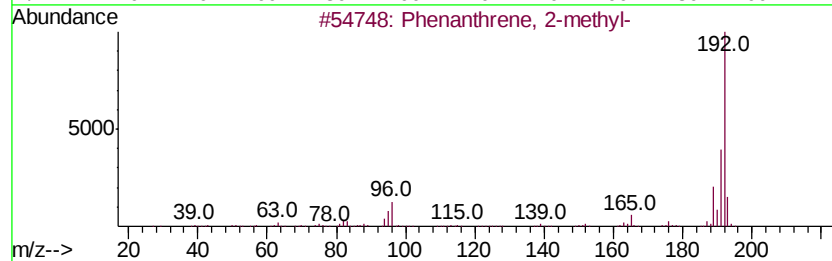
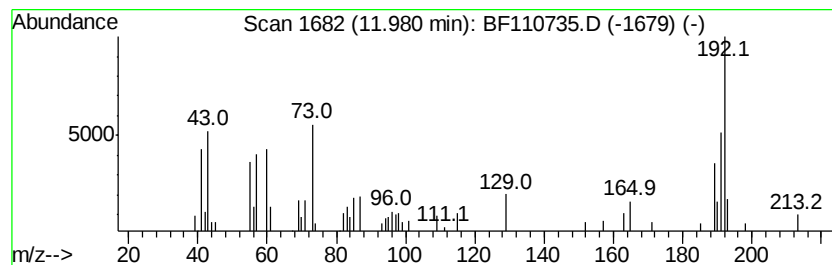
Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 11

| R.T.    | EstConc | Area                        | Relative to ISTD |         | R.T.        |      |
|---------|---------|-----------------------------|------------------|---------|-------------|------|
| 11.98   | 2.09 ng | 49618                       | Phenanthrene-d10 |         | 11.48       |      |
| Hit# of | 5       | Tentative ID                | MW               | MolForm | CAS#        | Qual |
| 1       |         | Phenanthrene, 2-methyl-     | 192              | C15H12  | 002531-84-2 | 55   |
| 2       |         | Anthracene, 2-methyl-       | 192              | C15H12  | 000613-12-7 | 52   |
| 3       |         | Phenanthrene, 3-methyl-     | 192              | C15H12  | 000832-71-3 | 46   |
| 4       |         | Anthracene, 1-methyl-       | 192              | C15H12  | 000610-48-0 | 46   |
| 5       |         | Naphtho[2,3-b]norbornadiene | 192              | C15H12  | 107426-38-0 | 46   |



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Sample : J5770-01 2X  
Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

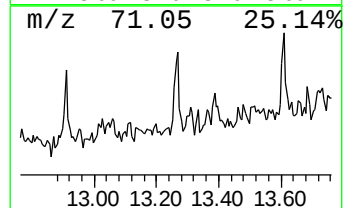
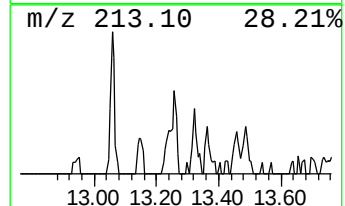
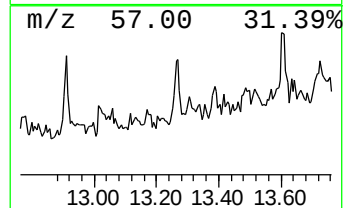
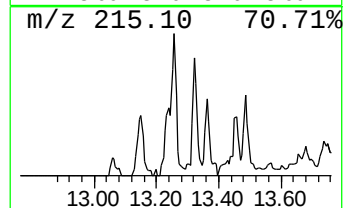
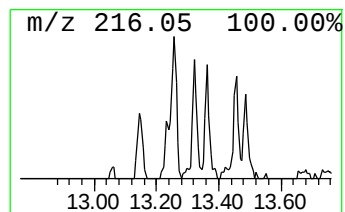
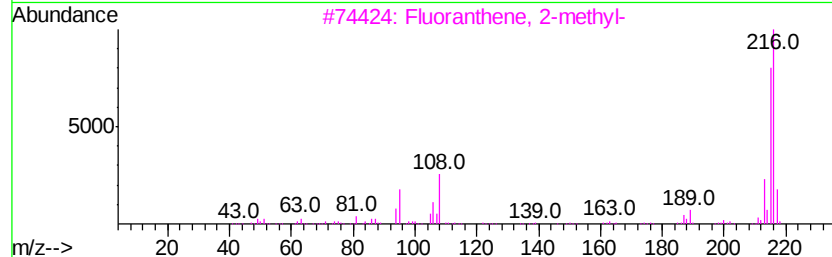
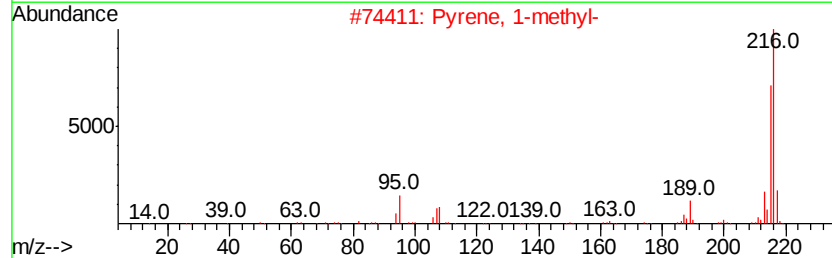
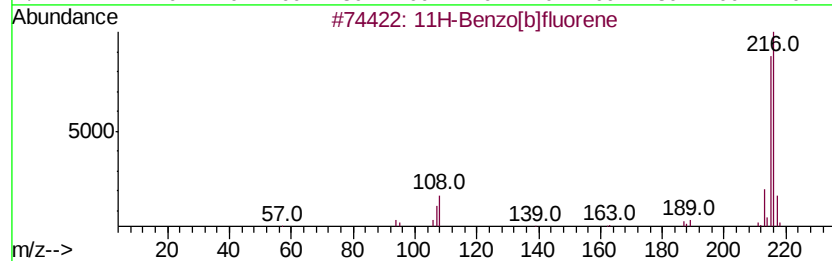
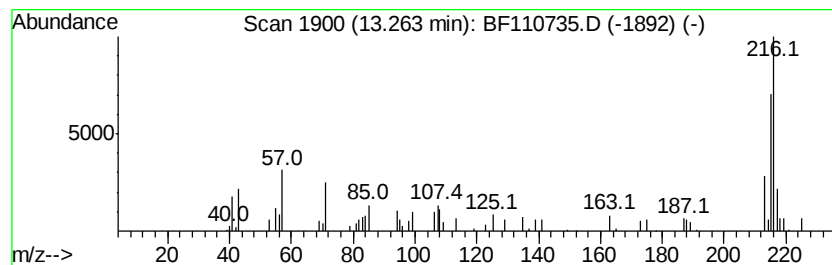
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 11H-Benzo[b]fluorene Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.26 | 2.20 ng | 64191 | Chrysene-d12     | 14.13 |

| Hit# of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|-------------------------|-----|---------|-------------|------|
| 1       | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 81   |
| 2       | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 80   |
| 3       | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 74   |
| 4       | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 64   |
| 5       | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110735.D  
Acq On : 13 Nov 2018 22:38  
Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

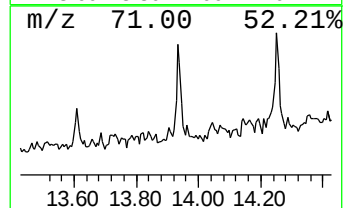
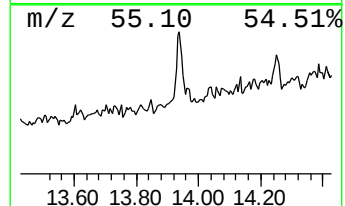
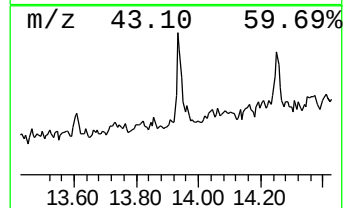
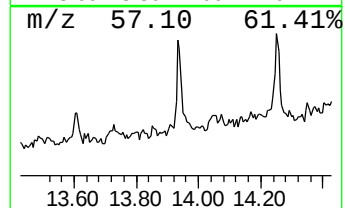
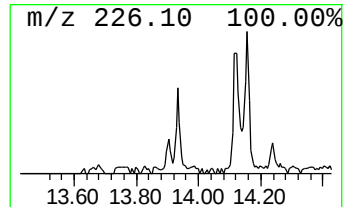
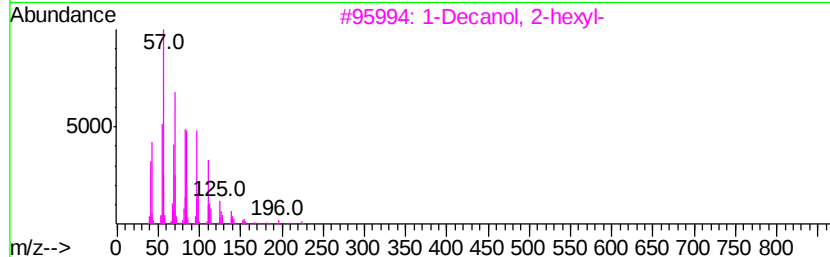
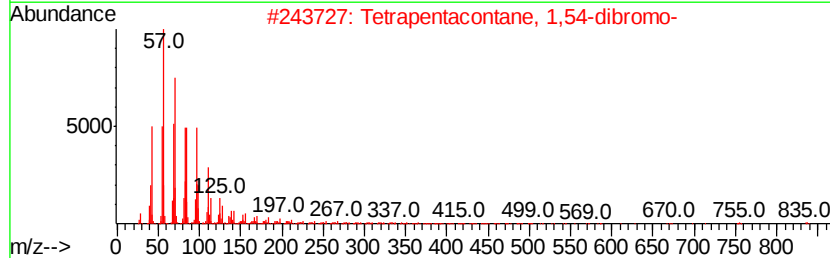
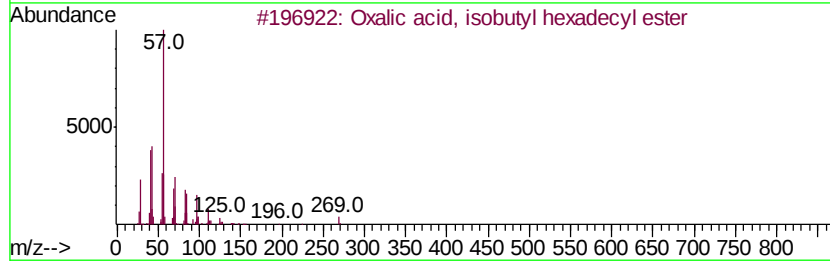
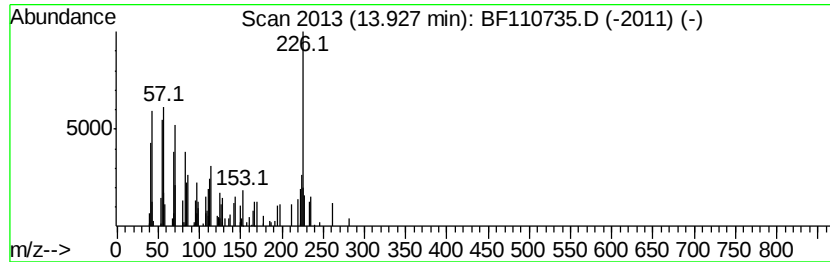
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown13.93 Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.93 | 2.79 ng | 81376 | Chrysene-d12     | 14.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4   | 1000309-38-1 | 46   |
| 2    |    | Tetrapentacontane, 1,54-dibromo-    | 915 | C54H108Br2 | 1000156-09-4 | 41   |
| 3    |    | 1-Decanol, 2-hexyl-                 | 242 | C16H34O    | 002425-77-6  | 41   |
| 4    |    | 1-Dodecanol, 2-hexyl-               | 270 | C18H38O    | 110225-00-8  | 41   |
| 5    |    | 1-Decanol, 2-octyl-                 | 270 | C18H38O    | 045235-48-1  | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110735.D  
Acq On : 13 Nov 2018 22:38  
Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

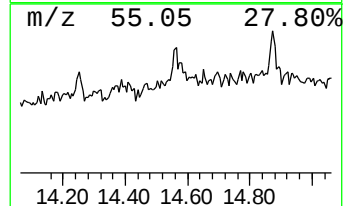
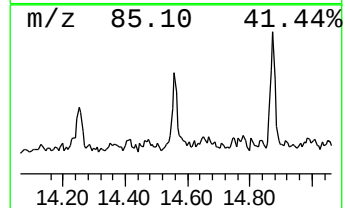
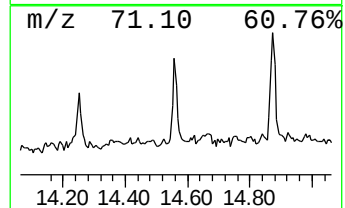
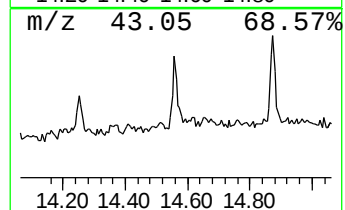
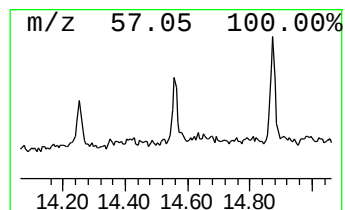
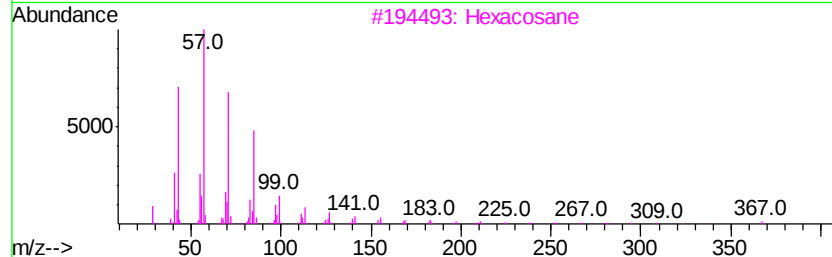
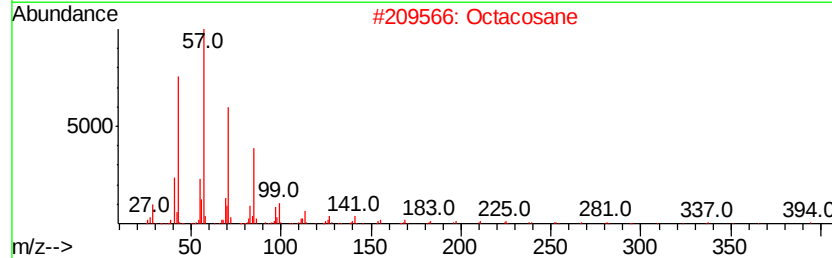
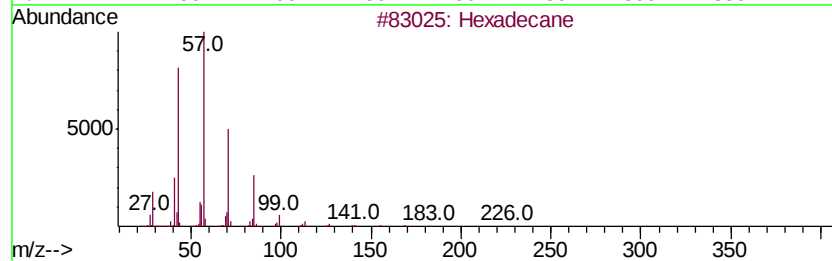
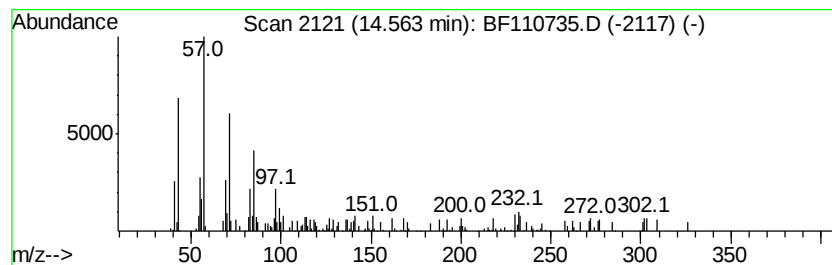
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Hexadecane Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.56 | 2.52 ng | 73473 | Chrysene-d12     | 14.13 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane        | 226 | C16H34  | 000544-76-3 | 93   |
| 2    |    | Octacosane        | 394 | C28H58  | 000630-02-4 | 58   |
| 3    |    | Hexacosane        | 366 | C26H54  | 000630-01-3 | 58   |
| 4    |    | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 58   |
| 5    |    | Tetracosane       | 338 | C24H50  | 000646-31-1 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110735.D  
Acq On : 13 Nov 2018 22:38  
Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

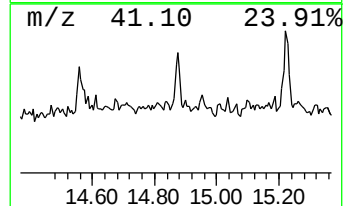
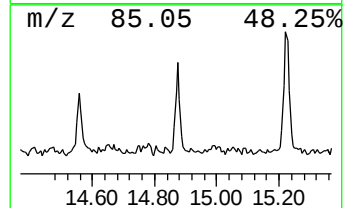
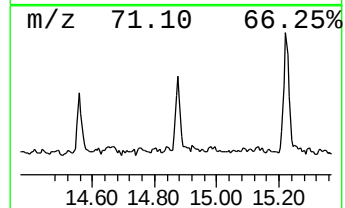
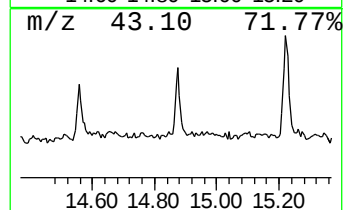
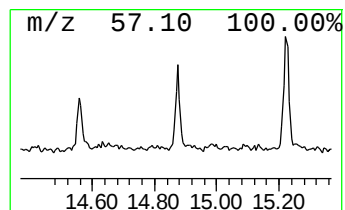
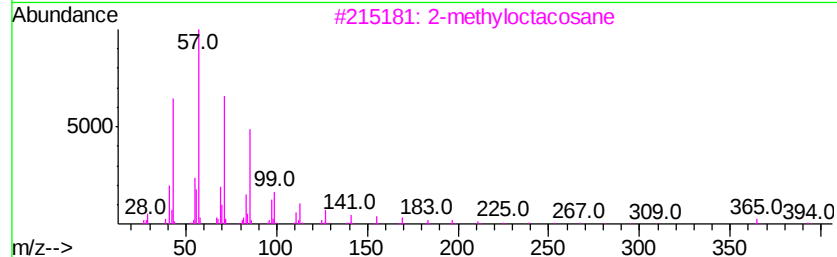
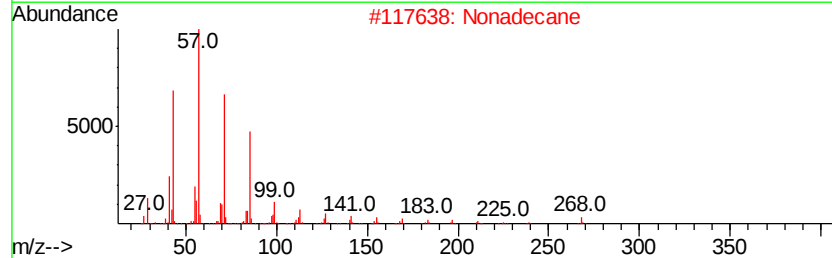
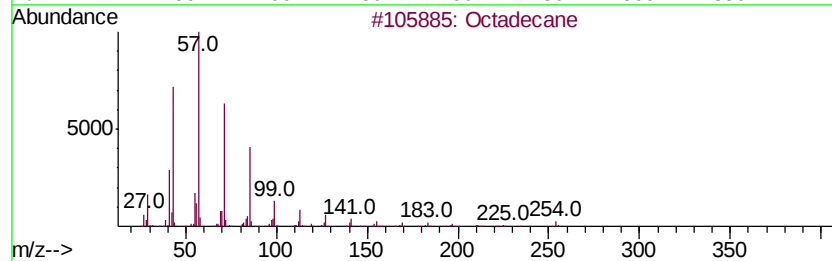
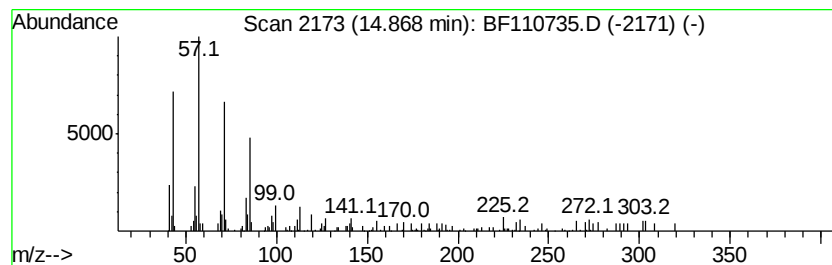
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Octadecane Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.87 | 2.41 ng | 70365 | Chrysene-d12     | 14.13 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Octadecane         | 254 | C18H38  | 000593-45-3  | 93   |
| 2    |    | Nonadecane         | 268 | C19H40  | 000629-92-5  | 89   |
| 3    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 81   |
| 4    |    | Octacosane         | 394 | C28H58  | 000630-02-4  | 74   |
| 5    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110735.D  
Acq On : 13 Nov 2018 22:38  
Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

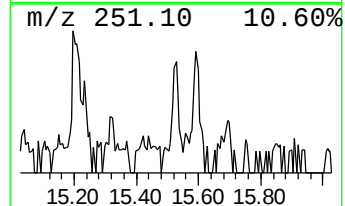
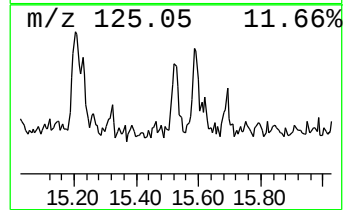
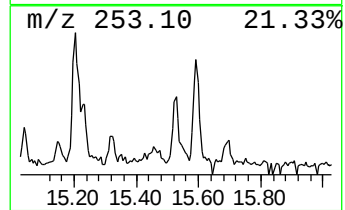
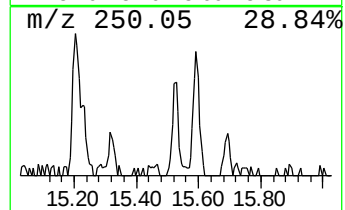
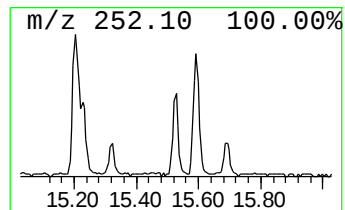
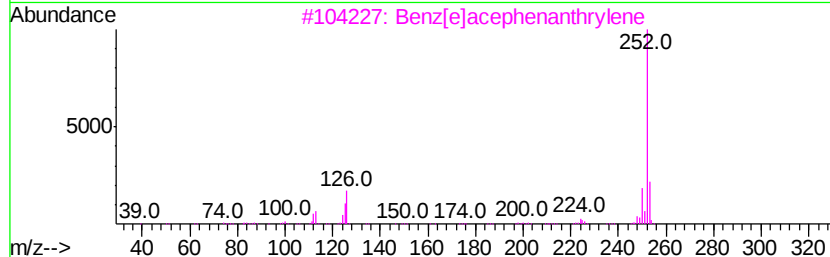
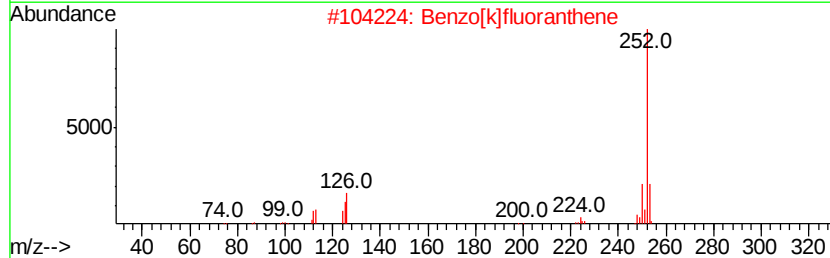
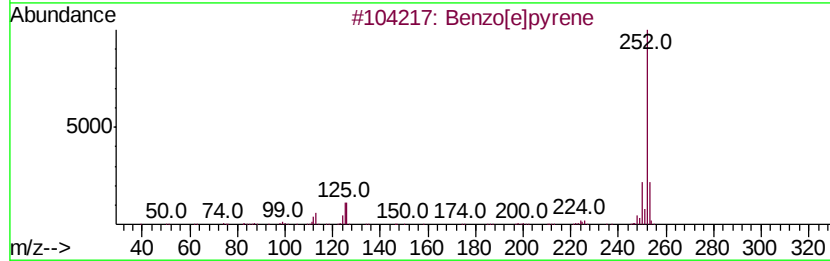
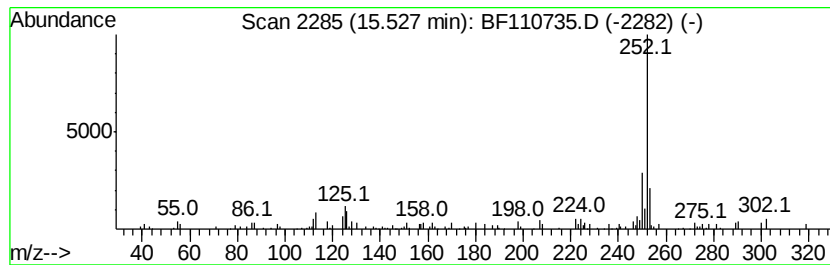
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzo[e]pyrene Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.53 | 2.42 ng | 34221 | Perylene-d12     | 15.66 |

| Hit# | of | Tentative ID               | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------------|-----|----------|-------------|------|
| 1    | 5  | Benzo[e]pyrene             | 252 | C20H12   | 000192-97-2 | 95   |
| 2    |    | Benzo[k]fluoranthene       | 252 | C20H12   | 000207-08-9 | 89   |
| 3    |    | Benzo[e]acephenanthrylene  | 252 | C20H12   | 000205-99-2 | 89   |
| 4    |    | Benzo[a]pyrene             | 252 | C20H12   | 000050-32-8 | 76   |
| 5    |    | (1-Cyclopentenyl)ferrocene | 252 | C15H16Fe | 012260-67-2 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110735.D  
Acq On : 13 Nov 2018 22:38  
Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

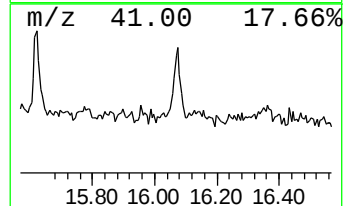
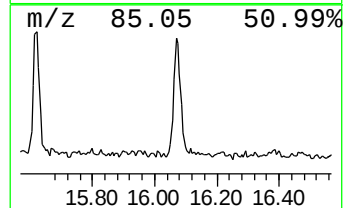
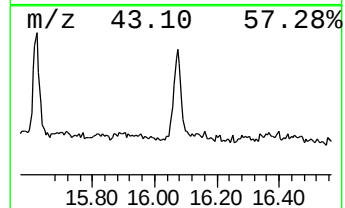
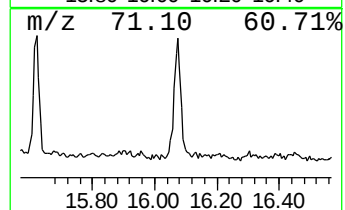
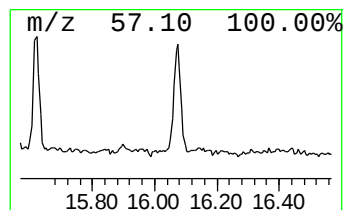
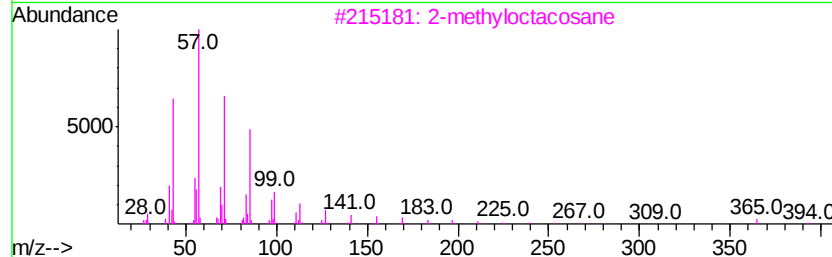
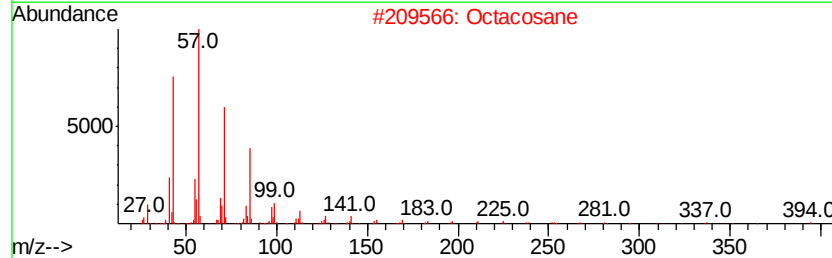
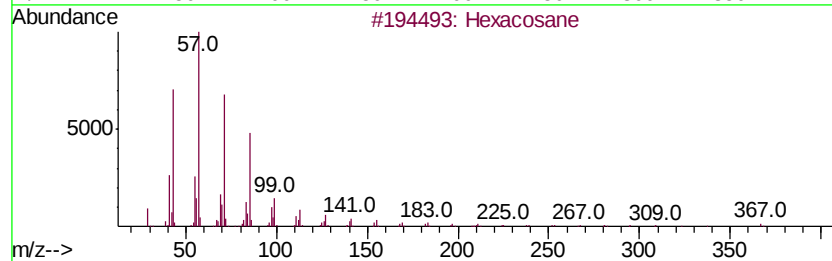
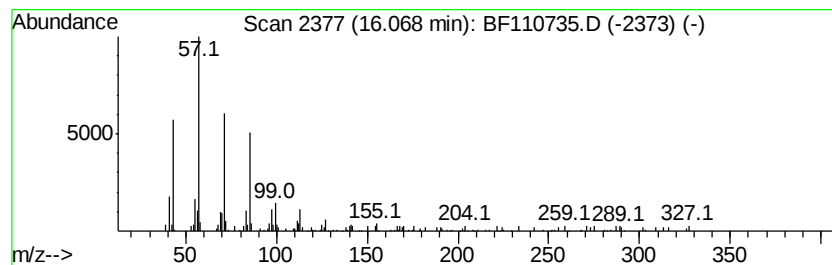
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Hexacosane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.07 | 9.93 ng | 140475 | Perylene-d12     | 15.66 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Hexacosane         | 366 | C26H54  | 000630-01-3  | 90   |
| 2    |    | Octacosane         | 394 | C28H58  | 000630-02-4  | 90   |
| 3    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 90   |
| 4    |    | Tetracosane        | 338 | C24H50  | 000646-31-1  | 87   |
| 5    |    | Octadecane         | 254 | C18H38  | 000593-45-3  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110735.D  
Acq On : 13 Nov 2018 22:38  
Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

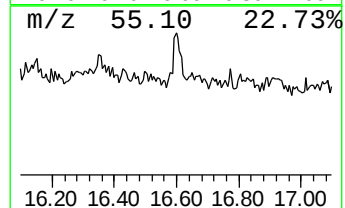
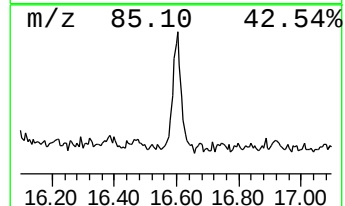
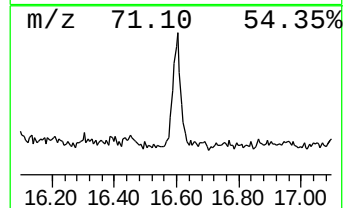
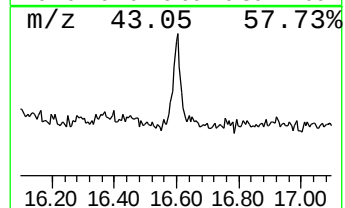
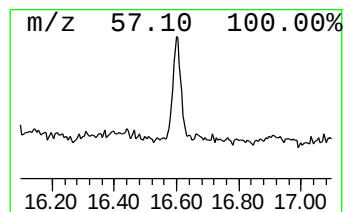
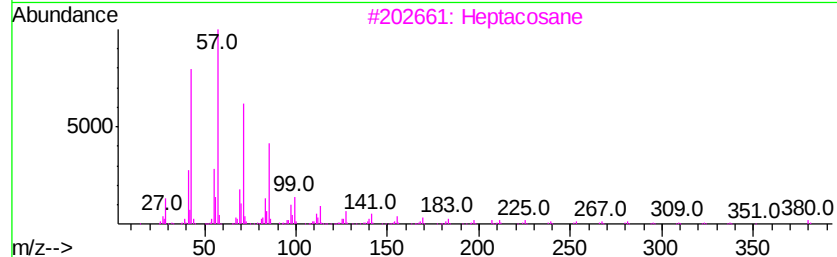
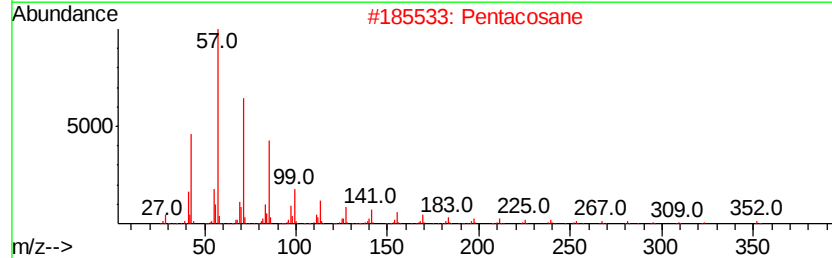
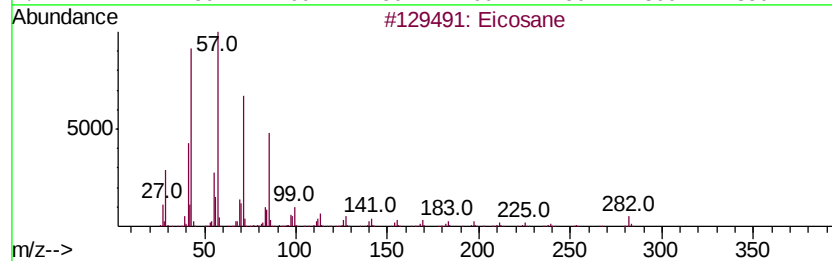
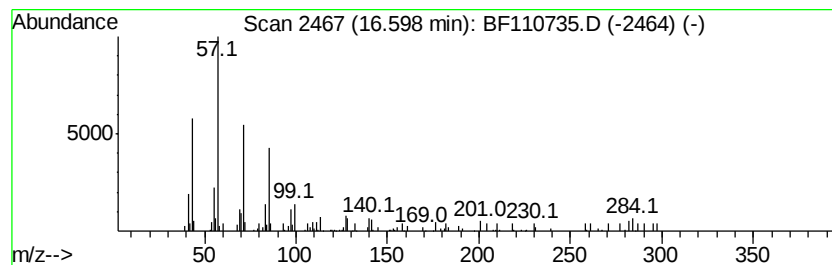
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Eicosane Concentration Rank 4

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.60 | 5.97 ng | 84502 | Perylene-d12     | 15.66 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane             | 282 | C20H42  | 000112-95-8 | 70   |
| 2    |    | Pentacosane          | 352 | C25H52  | 000629-99-2 | 64   |
| 3    |    | Heptacosane          | 380 | C27H56  | 000593-49-7 | 64   |
| 4    |    | Tetratetracontane    | 619 | C44H90  | 007098-22-8 | 64   |
| 5    |    | Tricosane, 2-methyl- | 338 | C24H50  | 001928-30-9 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF111318\  
Data File : BF110735.D  
Acq On : 13 Nov 2018 22:38  
Operator : JU/SJ  
Sample : J5770-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-111218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110818.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 |
| Butane, 2-methoxy... | 2.24  | 4.1 ng  |       | 101473   | 1                     | 6.95  | 492040 | 20.0 |
| unknown6.71          | 6.71  | 40.6 ng |       | 999820   | 1                     | 6.95  | 492040 | 20.0 |
| Phenanthrene, 2-m... | 11.98 | 2.1 ng  |       | 49618    | 4                     | 11.48 | 474192 | 20.0 |
| 11H-Benzo[b]fluorene | 13.26 | 2.2 ng  |       | 64191    | 5                     | 14.13 | 583721 | 20.0 |
| unknown13.93         | 13.93 | 2.8 ng  |       | 81376    | 5                     | 14.13 | 583721 | 20.0 |
| Hexadecane           | 14.56 | 2.5 ng  |       | 73473    | 5                     | 14.13 | 583721 | 20.0 |
| Octadecane           | 14.87 | 2.4 ng  |       | 70365    | 5                     | 14.13 | 583721 | 20.0 |
| Benzo[e]pyrene       | 15.53 | 2.4 ng  |       | 34221    | 6                     | 15.66 | 282987 | 20.0 |
| Hexacosane           | 16.07 | 9.9 ng  |       | 140475   | 6                     | 15.66 | 282987 | 20.0 |
| Eicosane             | 16.60 | 6.0 ng  |       | 84502    | 6                     | 15.66 | 282987 | 20.0 |