

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\  
 Data File : BF107275.D  
 Acq On : 10 Jul 2018 16:22  
 Operator : JU/SJ  
 Sample : J3897-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 STOCK-PILE-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-BF061918.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         | 5.178       | 479           | 483         | 494          | rBV      | 94715          | 116722        | 11.83%          | 1.125%        |
| 2         | 5.590       | 549           | 553         | 570          | rBV      | 711496         | 745430        | 75.54%          | 7.182%        |
| 3         | 6.590       | 719           | 723         | 737          | rBV      | 715718         | 733279        | 74.31%          | 7.065%        |
| 4         | 6.719       | 741           | 745         | 749          | rBV      | 809638         | 726880        | 73.66%          | 7.003%        |
| 5         | 6.937       | 779           | 782         | 786          | rBV      | 256516         | 234482        | 23.76%          | 2.259%        |
| 6         | 7.095       | 805           | 809         | 813          | rBV      | 668382         | 588831        | 59.67%          | 5.673%        |
| 7         | 7.507       | 874           | 879         | 882          | rBV      | 476290         | 432144        | 43.79%          | 4.164%        |
| 8         | 8.225       | 997           | 1001        | 1017         | rBB      | 302284         | 272438        | 27.61%          | 2.625%        |
| 9         | 9.295       | 1179          | 1183        | 1186         | rBV      | 903224         | 775179        | 78.56%          | 7.469%        |
| 10        | 9.689       | 1244          | 1250        | 1256         | rBB      | 106470         | 88877         | 9.01%           | 0.856%        |
| 11        | 9.984       | 1296          | 1300        | 1304         | rBV2     | 320639         | 272926        | 27.66%          | 2.630%        |
| 12        | 10.783      | 1432          | 1436        | 1441         | rBV      | 535972         | 486023        | 49.25%          | 4.683%        |
| 13        | 10.860      | 1447          | 1449        | 1454         | rVB      | 8574           | 10403         | 1.05%           | 0.100%        |
| 14        | 11.319      | 1523          | 1527        | 1532         | rVB3     | 9535           | 15429         | 1.56%           | 0.149%        |
| 15        | 11.478      | 1551          | 1554        | 1557         | rBV      | 336505         | 328608        | 33.30%          | 3.166%        |
| 16        | 11.507      | 1557          | 1559        | 1562         | rVV      | 148143         | 118778        | 12.04%          | 1.144%        |
| 17        | 11.554      | 1565          | 1567        | 1570         | rVV      | 28349          | 24496         | 2.48%           | 0.236%        |
| 18        | 11.719      | 1588          | 1595        | 1597         | rBV2     | 15711          | 17703         | 1.79%           | 0.171%        |
| 19        | 11.819      | 1608          | 1612        | 1614         | rBV3     | 25722          | 21277         | 2.16%           | 0.205%        |
| 20        | 11.983      | 1637          | 1640        | 1642         | rBV      | 22778          | 20066         | 2.03%           | 0.193%        |
| 21        | 12.013      | 1642          | 1645        | 1650         | rVB2     | 35135          | 34192         | 3.46%           | 0.329%        |
| 22        | 12.095      | 1655          | 1659        | 1662         | rBV2     | 32844          | 38614         | 3.91%           | 0.372%        |
| 23        | 12.278      | 1687          | 1690        | 1692         | rBV      | 15048          | 13206         | 1.34%           | 0.127%        |
| 24        | 12.313      | 1693          | 1696        | 1701         | rVB2     | 18722          | 20078         | 2.03%           | 0.193%        |
| 25        | 12.530      | 1730          | 1733        | 1736         | rBV2     | 25117          | 24600         | 2.49%           | 0.237%        |
| 26        | 12.630      | 1745          | 1750        | 1753         | rBV2     | 18314          | 19371         | 1.96%           | 0.187%        |
| 27        | 12.701      | 1758          | 1762        | 1766         | rBV      | 360597         | 295821        | 29.98%          | 2.850%        |
| 28        | 12.854      | 1783          | 1788        | 1790         | rBV3     | 12341          | 15199         | 1.54%           | 0.146%        |
| 29        | 12.913      | 1795          | 1798        | 1799         | rVV2     | 68296          | 63129         | 6.40%           | 0.608%        |
| 30        | 12.936      | 1799          | 1802        | 1807         | rVV      | 298853         | 279204        | 28.29%          | 2.690%        |
| 31        | 12.977      | 1807          | 1809        | 1813         | rVB2     | 17878          | 19815         | 2.01%           | 0.191%        |
| 32        | 13.066      | 1819          | 1824        | 1827         | rBV      | 1035244        | 986790        | 100.00%         | 9.508%        |
| 33        | 13.101      | 1827          | 1830        | 1834         | rVB      | 22106          | 25433         | 2.58%           | 0.245%        |
| 34        | 13.154      | 1834          | 1839        | 1843         | rBV3     | 23490          | 49393         | 5.01%           | 0.476%        |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 STOCK-PILE-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-BF061918.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.189 | 1843 | 1845 | 1850 | rBV3 | 8206   | 12981  | 1.32%  | 0.125% |
| 36 | 13.260 | 1850 | 1857 | 1862 | rBV3 | 56690  | 94335  | 9.56%  | 0.909% |
| 37 | 13.324 | 1866 | 1868 | 1871 | rBV  | 19643  | 18222  | 1.85%  | 0.176% |
| 38 | 13.366 | 1871 | 1875 | 1877 | rBV2 | 25061  | 28747  | 2.91%  | 0.277% |
| 39 | 13.460 | 1888 | 1891 | 1893 | rBV  | 20070  | 16979  | 1.72%  | 0.164% |
| 40 | 13.489 | 1893 | 1896 | 1899 | rVV2 | 24216  | 24993  | 2.53%  | 0.241% |
| 41 | 13.530 | 1899 | 1903 | 1905 | rVB  | 45627  | 44681  | 4.53%  | 0.431% |
| 42 | 13.607 | 1913 | 1916 | 1919 | rBV2 | 39851  | 38428  | 3.89%  | 0.370% |
| 43 | 13.683 | 1927 | 1929 | 1932 | rBV3 | 13543  | 12778  | 1.29%  | 0.123% |
| 44 | 13.777 | 1942 | 1945 | 1948 | rBV  | 37218  | 34411  | 3.49%  | 0.332% |
| 45 | 13.883 | 1961 | 1963 | 1965 | rBV  | 35761  | 30583  | 3.10%  | 0.295% |
| 46 | 13.907 | 1965 | 1967 | 1970 | rVV  | 31533  | 32033  | 3.25%  | 0.309% |
| 47 | 13.942 | 1970 | 1973 | 1978 | rVV2 | 138554 | 181167 | 18.36% | 1.746% |
| 48 | 13.989 | 1978 | 1981 | 1984 | rVB  | 42094  | 41643  | 4.22%  | 0.401% |
| 49 | 14.077 | 1994 | 1996 | 1998 | rVB  | 25370  | 19949  | 2.02%  | 0.192% |
| 50 | 14.142 | 2001 | 2007 | 2009 | rVV2 | 407267 | 524070 | 53.11% | 5.049% |
| 51 | 14.166 | 2009 | 2011 | 2014 | rVB  | 162460 | 129160 | 13.09% | 1.244% |
| 52 | 14.254 | 2022 | 2026 | 2031 | rBV2 | 50709  | 80690  | 8.18%  | 0.777% |
| 53 | 14.530 | 2071 | 2073 | 2076 | rVB  | 31434  | 21922  | 2.22%  | 0.211% |
| 54 | 14.566 | 2076 | 2079 | 2084 | rBV  | 63172  | 85860  | 8.70%  | 0.827% |
| 55 | 14.889 | 2131 | 2134 | 2137 | rVB  | 46422  | 47849  | 4.85%  | 0.461% |
| 56 | 14.966 | 2144 | 2147 | 2152 | rVB  | 58477  | 65608  | 6.65%  | 0.632% |
| 57 | 15.230 | 2187 | 2192 | 2199 | rVB2 | 137292 | 285140 | 28.90% | 2.747% |
| 58 | 15.548 | 2243 | 2246 | 2254 | rVB  | 63268  | 79859  | 8.09%  | 0.769% |
| 59 | 15.618 | 2254 | 2258 | 2264 | rBV2 | 85344  | 170287 | 17.26% | 1.641% |
| 60 | 15.683 | 2265 | 2269 | 2273 | rBV  | 166769 | 222354 | 22.53% | 2.142% |
| 61 | 16.095 | 2335 | 2339 | 2344 | rVB2 | 78478  | 119278 | 12.09% | 1.149% |

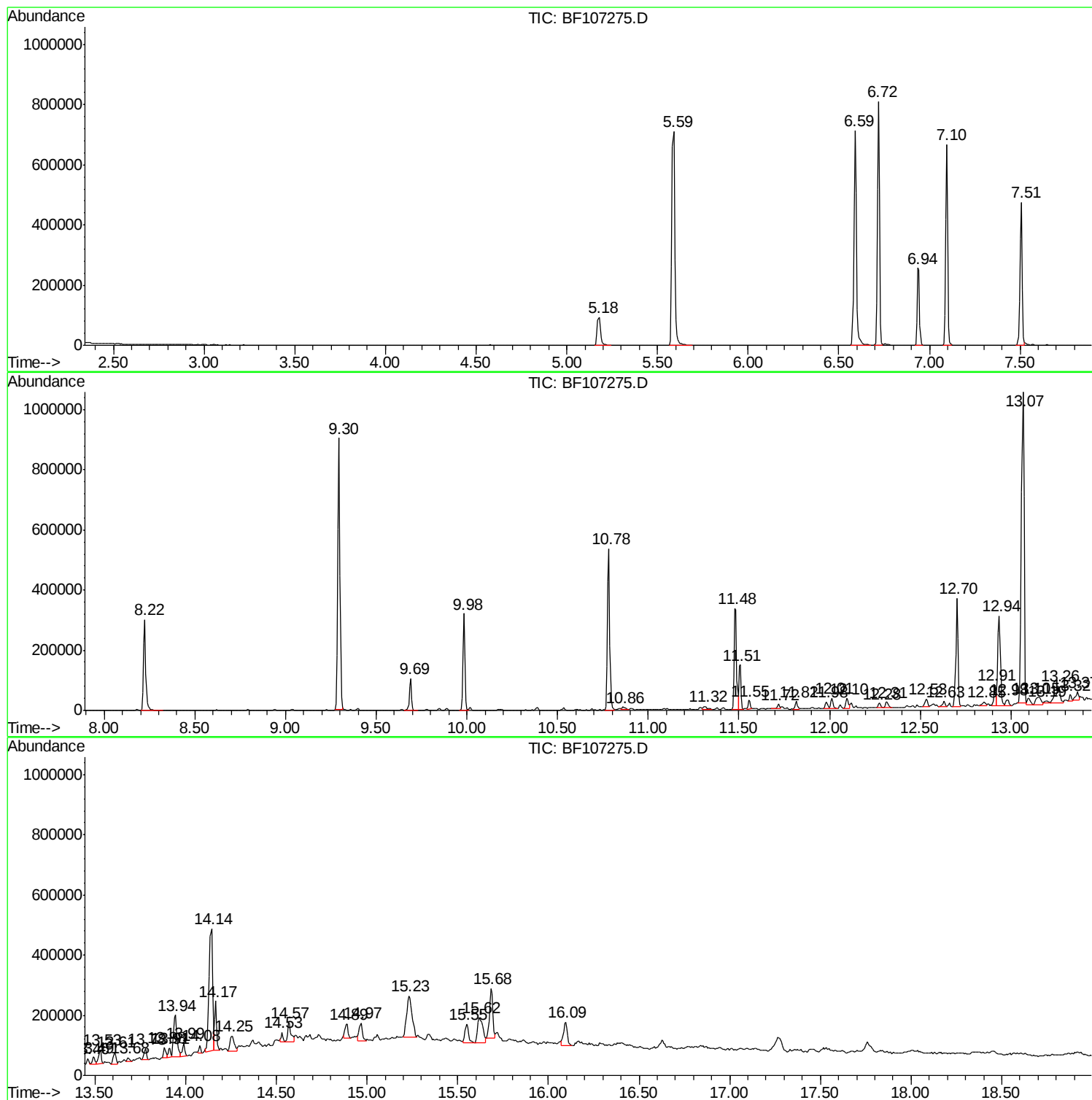
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.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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Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

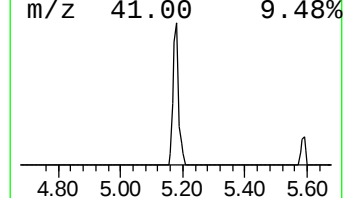
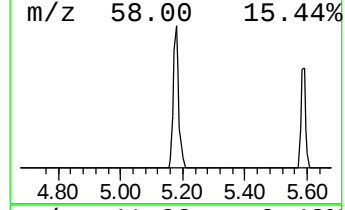
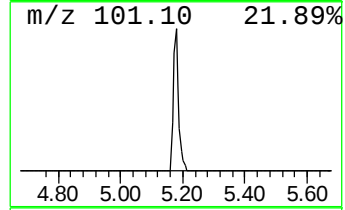
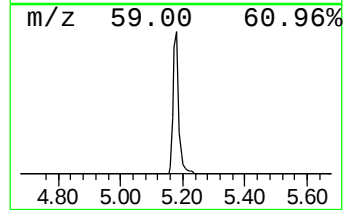
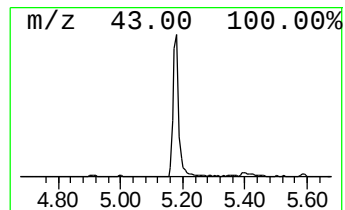
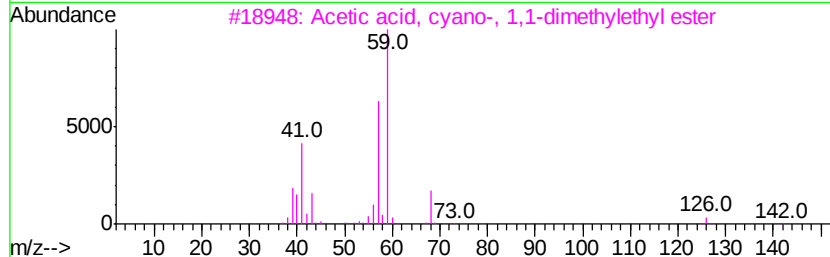
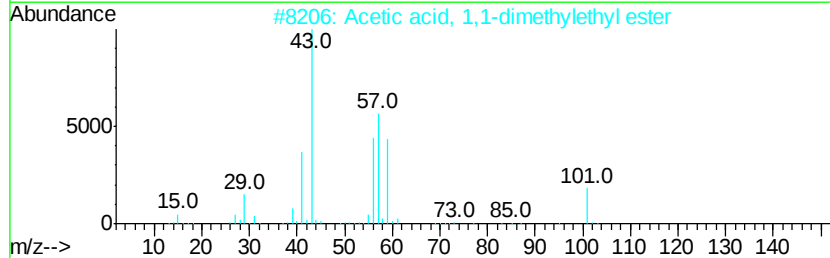
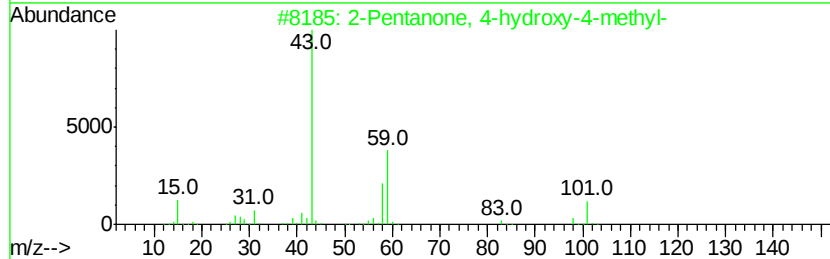
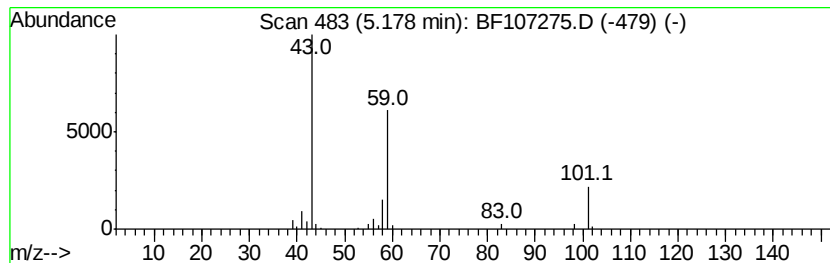
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.18 | 9.96 ng | 116722 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    |   | Acetic acid, 1,1-dimethylethyl e...  | 116 | C6H12O2  | 000540-88-5 | 39   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 4    |    |   | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    |   | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |



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Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

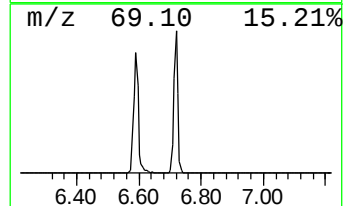
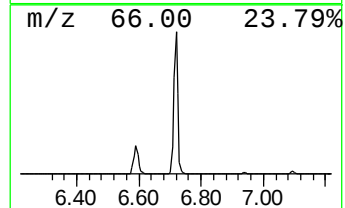
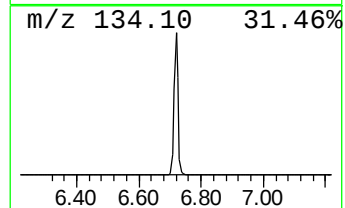
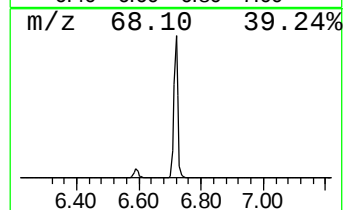
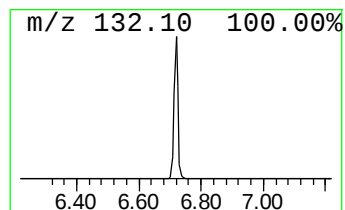
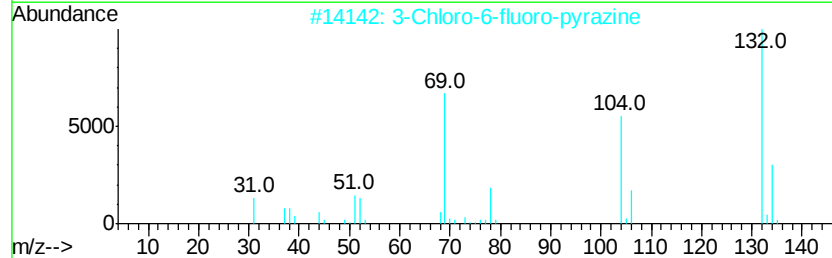
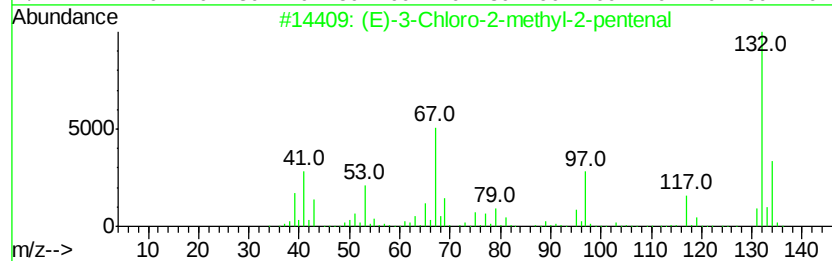
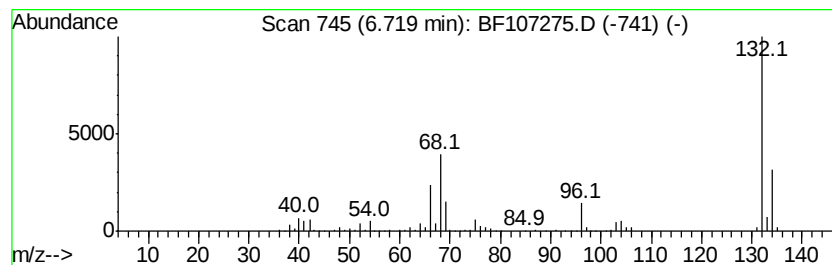
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.72 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.72 | 62.00 ng | 726880 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-59-9  | 9    |



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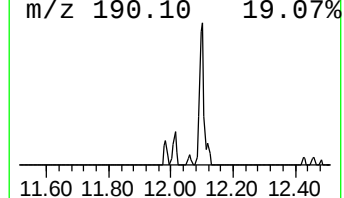
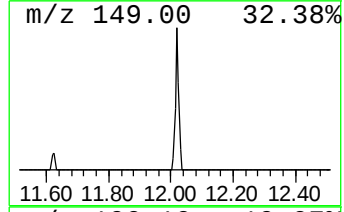
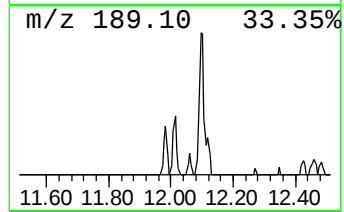
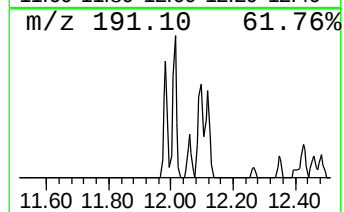
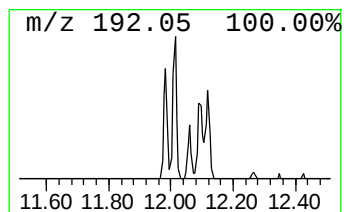
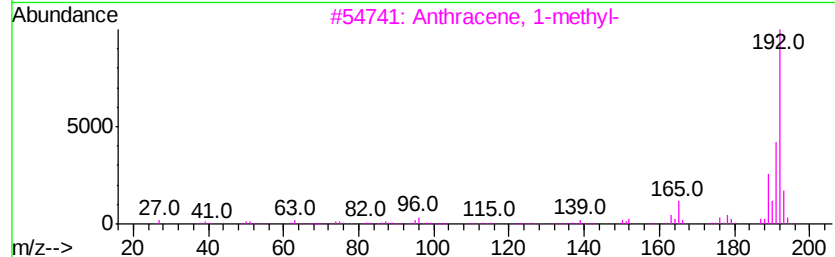
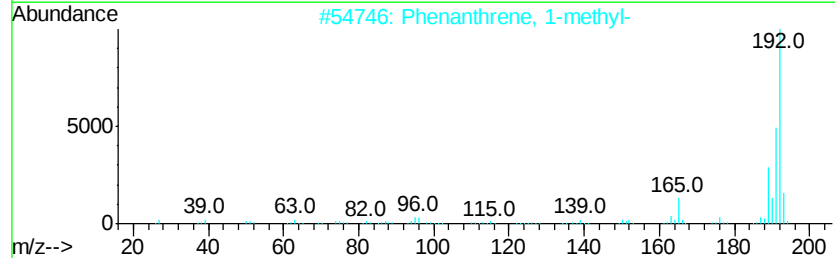
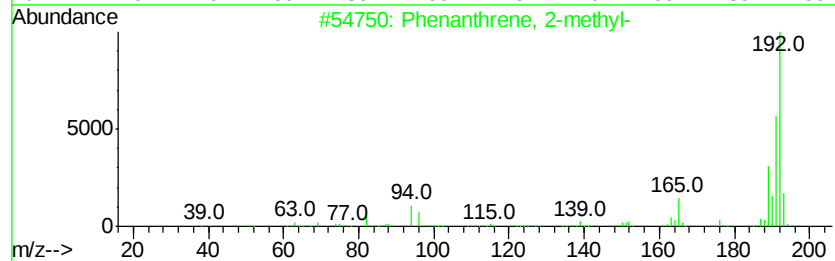
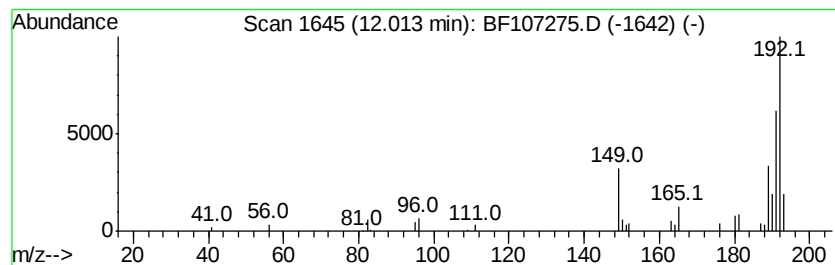
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 12

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.01 | 2.08 ng | 34192 | Phenanthrene-d10 | 11.48 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 94   |
| 2    |    | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 93   |
| 3    |    | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 76   |
| 4    |    | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 76   |
| 5    |    | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 76   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

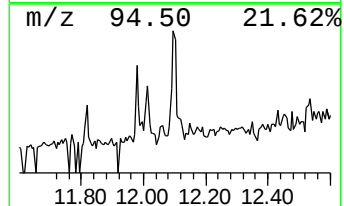
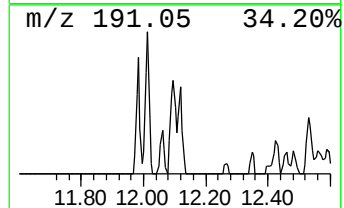
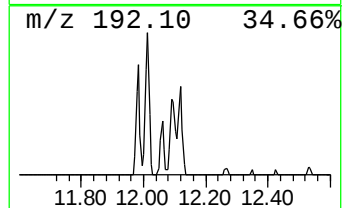
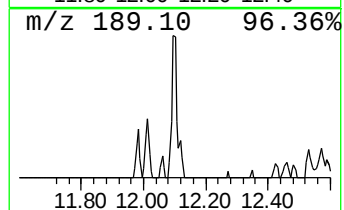
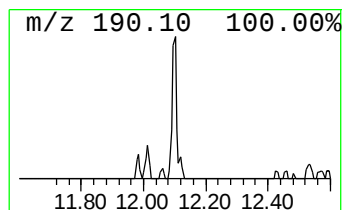
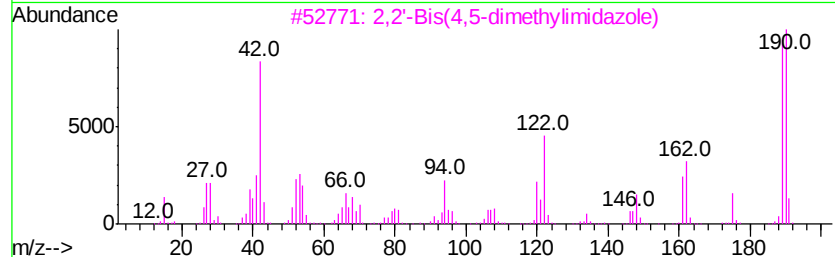
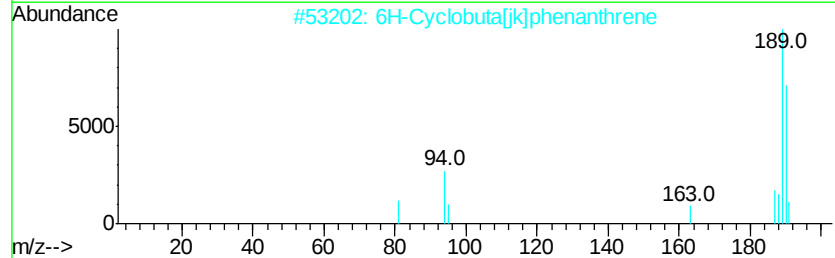
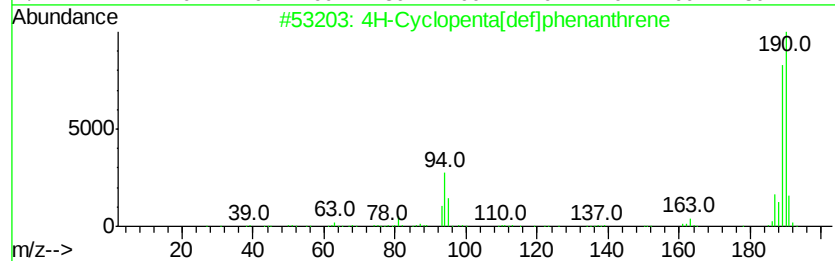
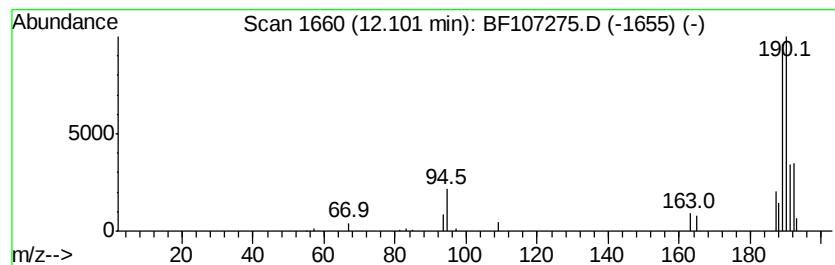
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.10 | 2.35 ng | 38614 | Phenanthrene-d10 | 11.48 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-----------|--------------|------|
| 1       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5  | 50   |
| 2       |   | 6H-Cyclobuta[ik]phenanthrene        | 190 | C15H10    | 083469-43-6  | 40   |
| 3       |   | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4  | 069286-06-2  | 38   |
| 4       |   | 5-Thiazolecarboxamide, 4-amino-2... | 189 | C5H7N3OS2 | 1000338-08-9 | 27   |
| 5       |   | Naphtho[1,2-b]norbornadiene         | 192 | C15H12    | 1000210-14-8 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\  
Data File : BF107275.D  
Acq On : 10 Jul 2018 16:22  
Operator : JU/SJ  
Sample : J3897-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

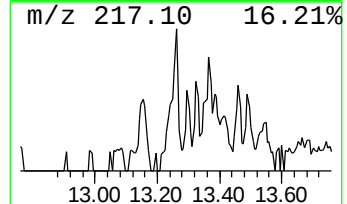
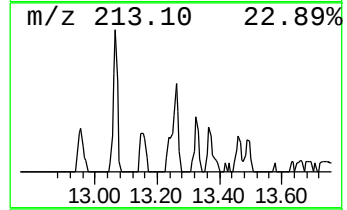
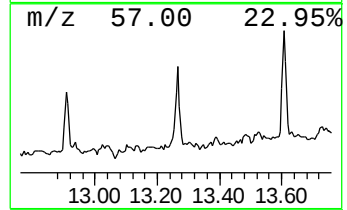
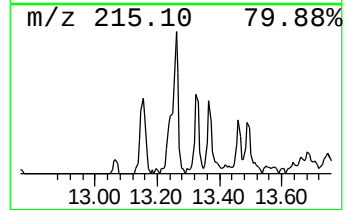
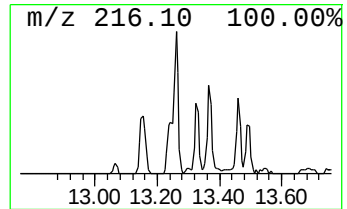
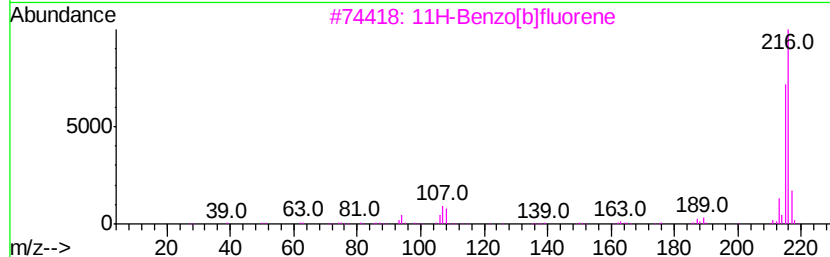
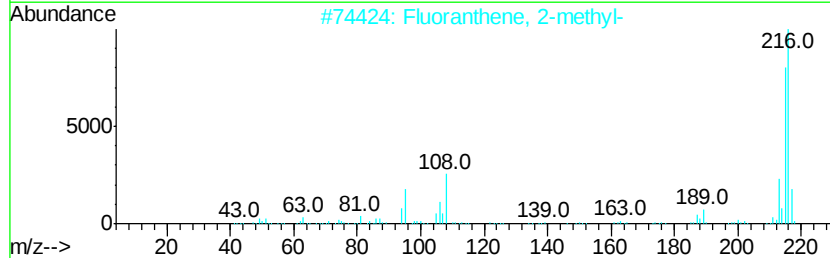
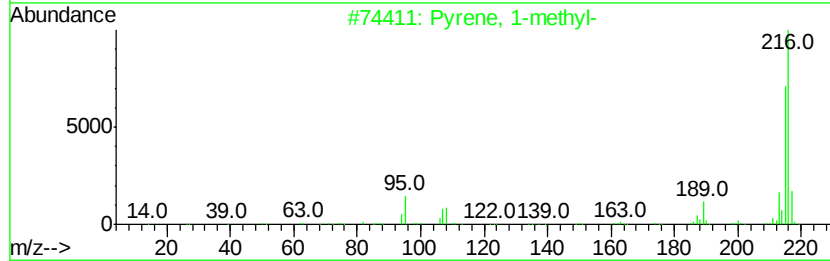
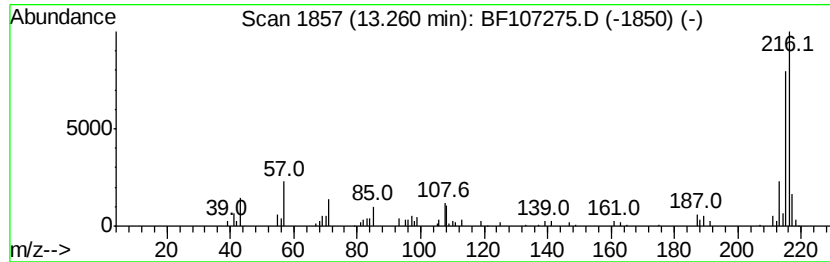
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Pyrene, 1-methyl- Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.26 | 3.60 ng | 94335 | Chrysene-d12     | 14.14 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 90   |
| 2       |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 90   |
| 3       |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 87   |
| 4       |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 64   |
| 5       |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 62   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\  
Data File : BF107275.D  
Acq On : 10 Jul 2018 16:22  
Operator : JU/SJ  
Sample : J3897-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

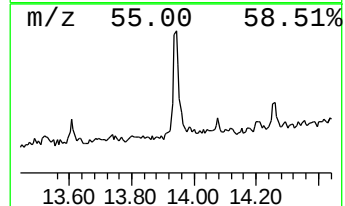
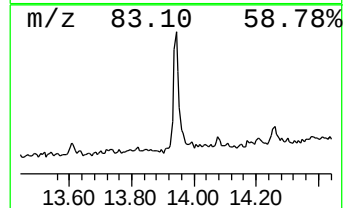
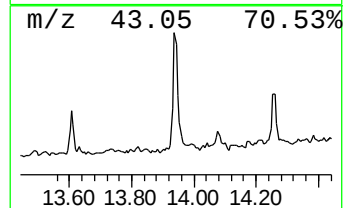
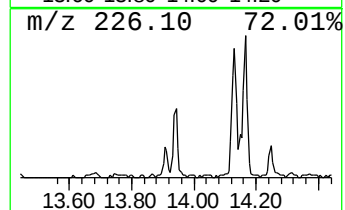
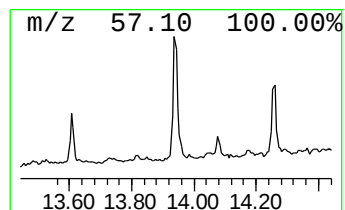
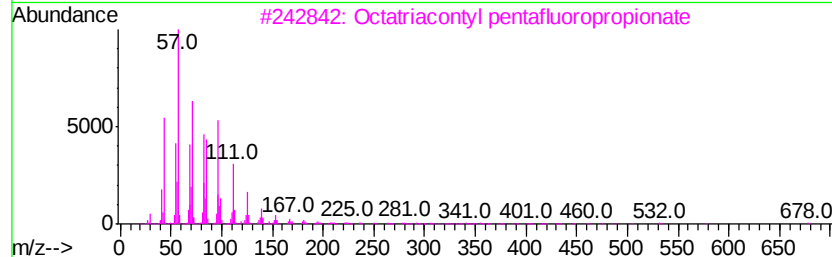
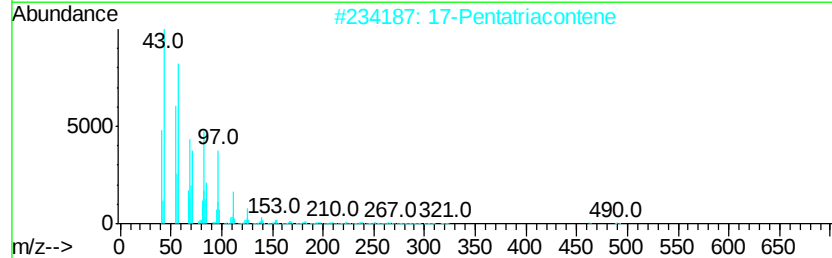
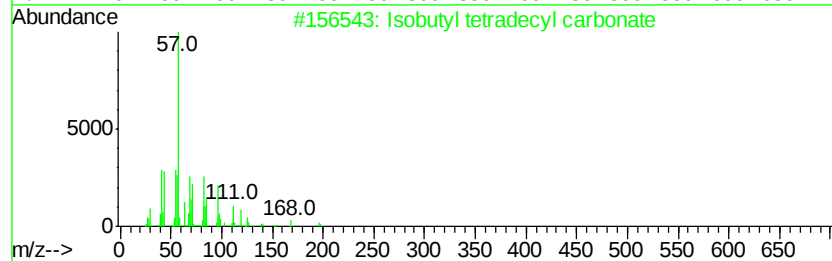
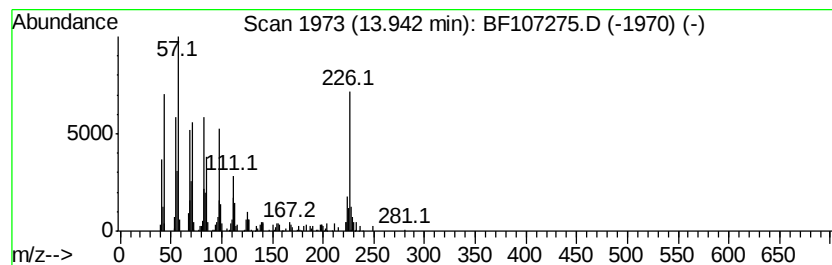
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Isobutyl tetradecyl carbonate Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.94 | 6.91 ng | 181167 | Chrysene-d12     | 14.14 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Isobutyl tetradecyl carbonate       | 314 | C19H38O3   | 959275-58-2  | 68   |
| 2    |    | 17-Pentatriacontene                 | 491 | C35H70     | 006971-40-0  | 62   |
| 3    |    | Octatriacontyl pentafluoropropio... | 697 | C41H77F5O2 | 1000351-89-1 | 62   |
| 4    |    | Hexatriacontyl pentafluoropropio... | 669 | C39H73F5O2 | 1000351-89-0 | 62   |
| 5    |    | Tetratriacontyl heptafluorobutyrate | 691 | C38H69F7O2 | 1000351-84-1 | 62   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\  
Data File : BF107275.D  
Acq On : 10 Jul 2018 16:22  
Operator : JU/SJ  
Sample : J3897-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

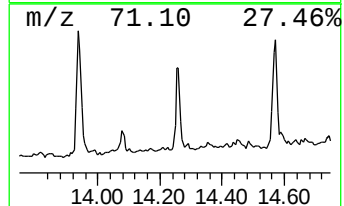
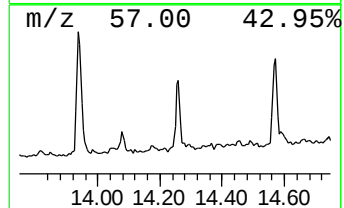
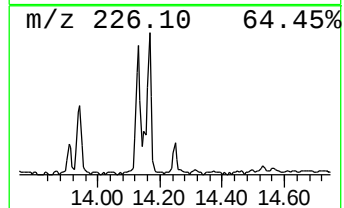
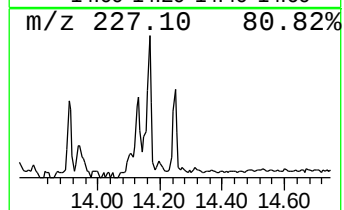
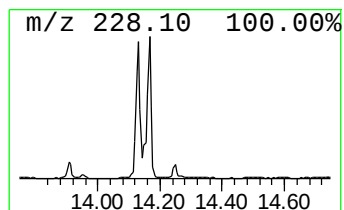
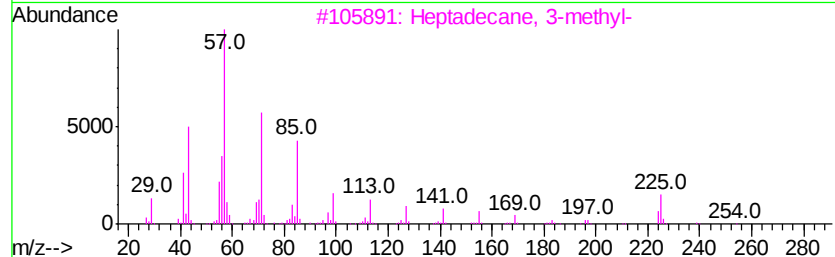
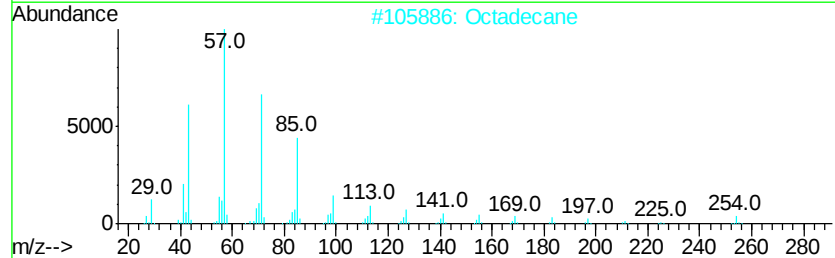
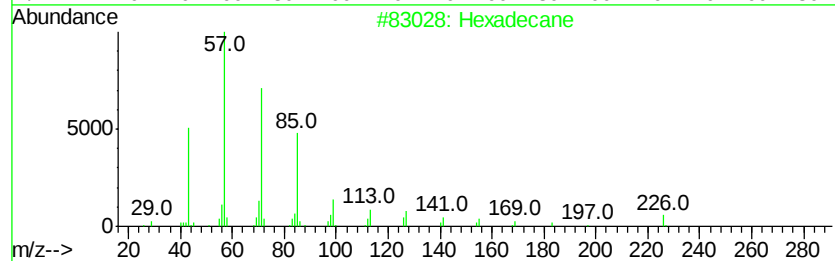
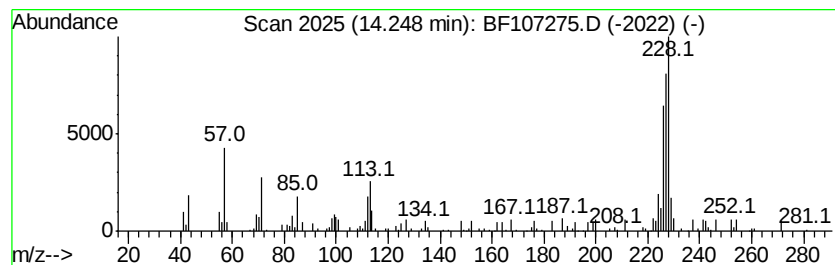
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Hexadecane Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.25 | 3.08 ng | 80690 | Chrysene-d12     | 14.14 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane             | 226 | C16H34  | 000544-76-3 | 83   |
| 2    |    | Octadecane             | 254 | C18H38  | 000593-45-3 | 78   |
| 3    |    | Heptadecane, 3-methyl- | 254 | C18H38  | 006418-44-6 | 49   |
| 4    |    | Tetracosane            | 338 | C24H50  | 000646-31-1 | 49   |
| 5    |    | Heneicosane            | 296 | C21H44  | 000629-94-7 | 49   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\  
Data File : BF107275.D  
Acq On : 10 Jul 2018 16:22  
Operator : JU/SJ  
Sample : J3897-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

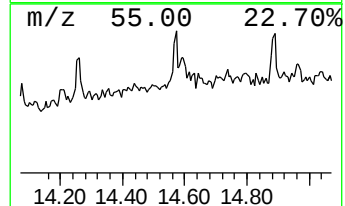
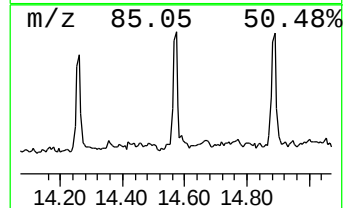
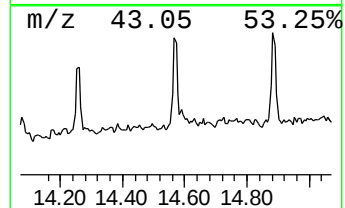
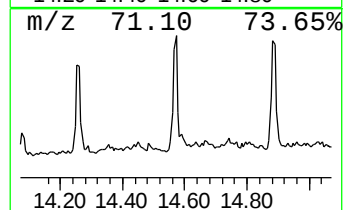
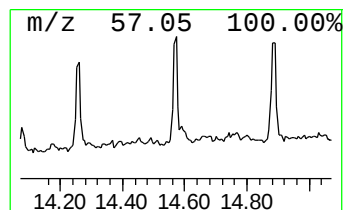
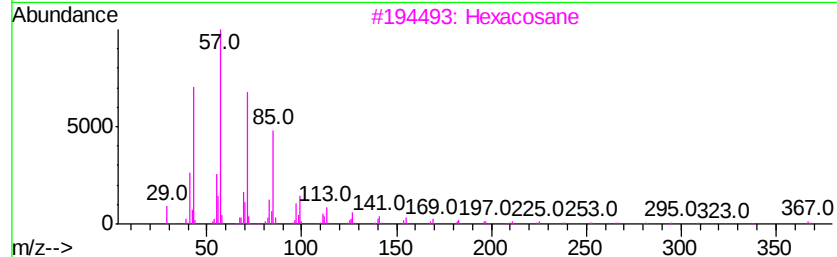
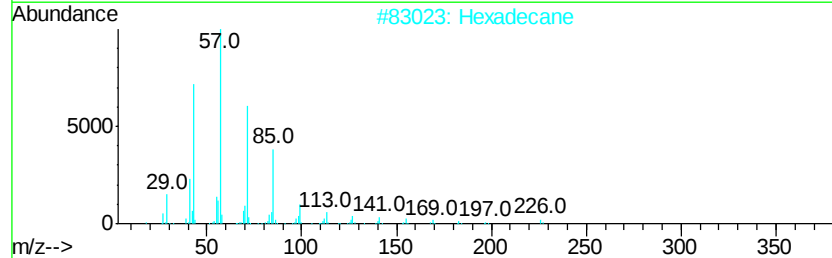
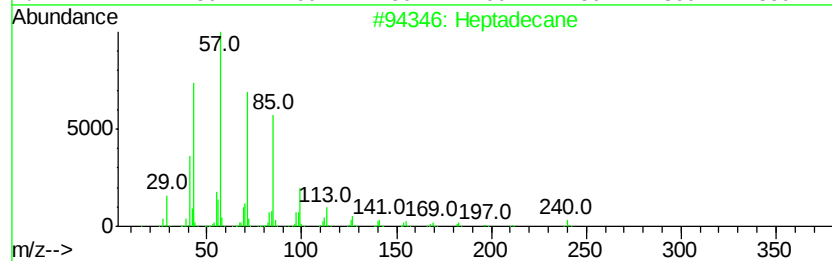
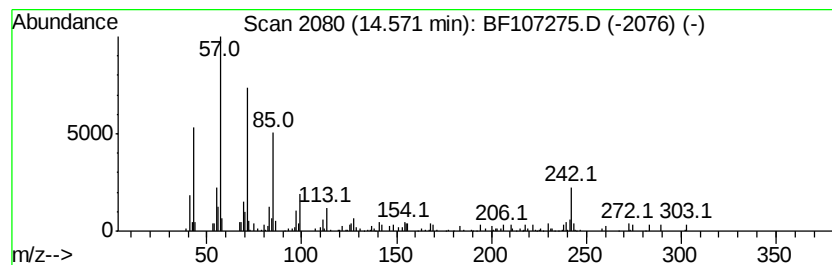
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Heptadecane Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.57 | 3.28 ng | 85860 | Chrysene-d12     | 14.14 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 87   |
| 2       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 83   |
| 3       | Hexacosane  |              | 366 | C26H54  | 000630-01-3 | 46   |
| 4       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 41   |
| 5       | Nonadecane  |              | 268 | C19H40  | 000629-92-5 | 41   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\  
Data File : BF107275.D  
Acq On : 10 Jul 2018 16:22  
Operator : JU/SJ  
Sample : J3897-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

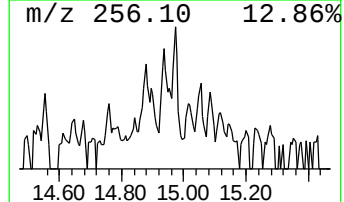
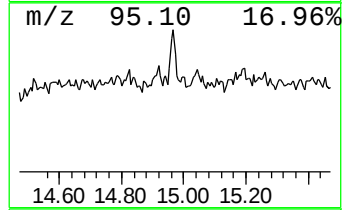
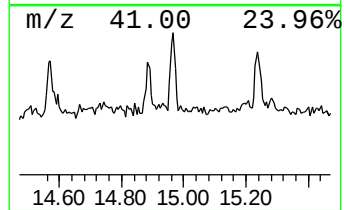
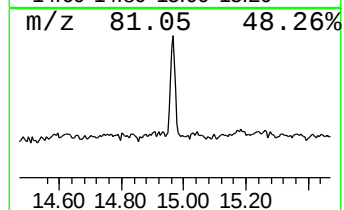
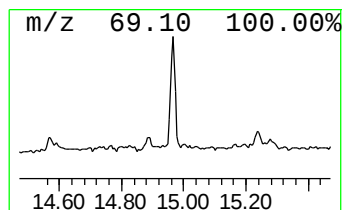
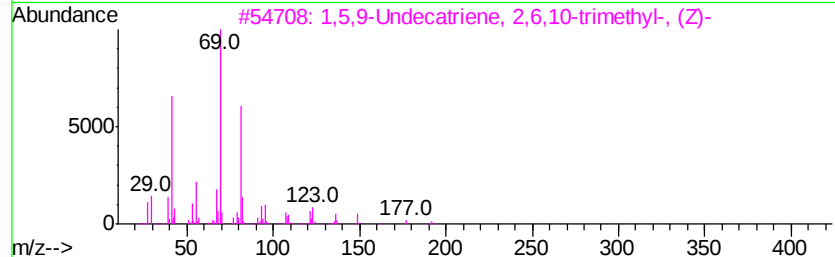
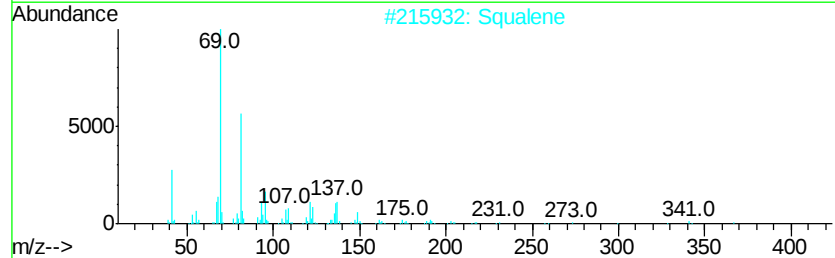
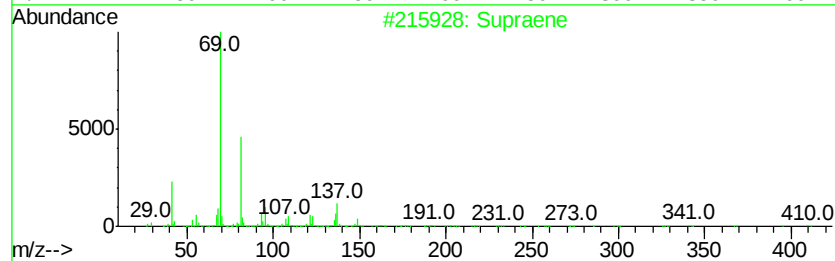
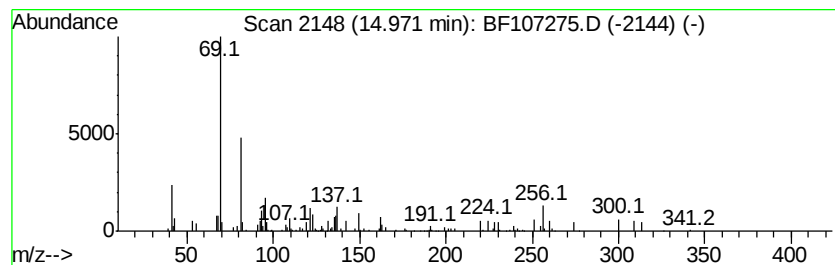
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Supraene Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.97 | 5.90 ng | 65608 | Perylene-d12     | 15.68 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Supraene                            | 410 | C30H50  | 007683-64-9 | 83   |
| 2    |    | Squalene                            | 410 | C30H50  | 000111-02-4 | 83   |
| 3    |    | 1,5,9-Undecatriene, 2,6,10-trime... | 192 | C14H24  | 062951-96-6 | 81   |
| 4    |    | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O | 125529-10-4 | 64   |
| 5    |    | 3,7,11-Tridecatrienitrile, 4,8...   | 231 | C16H25N | 006006-01-5 | 56   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\  
Data File : BF107275.D  
Acq On : 10 Jul 2018 16:22  
Operator : JU/SJ  
Sample : J3897-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

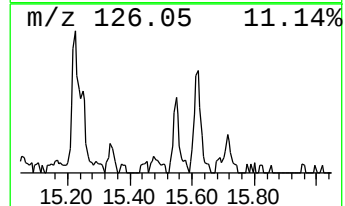
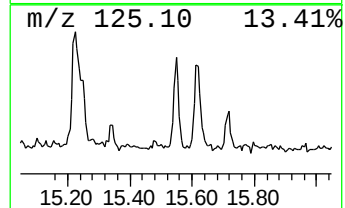
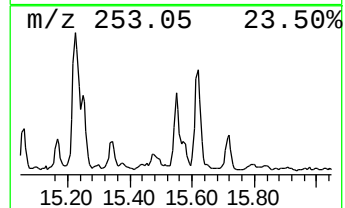
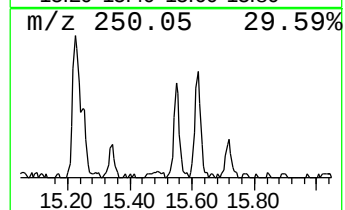
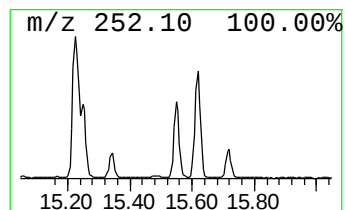
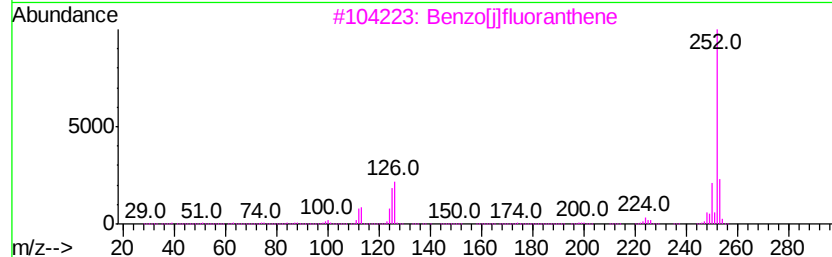
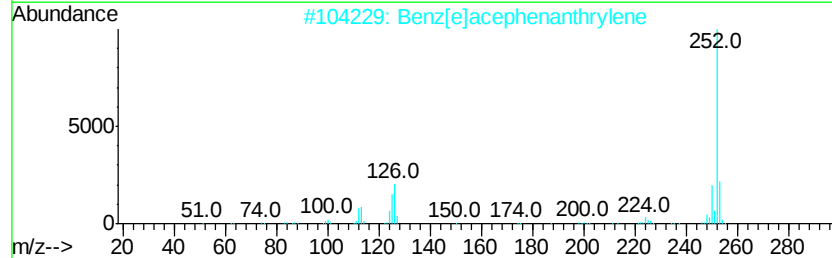
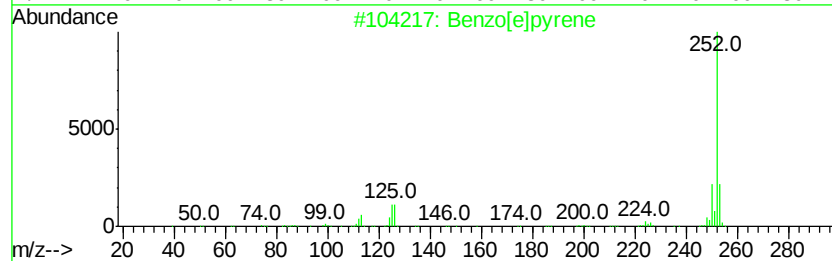
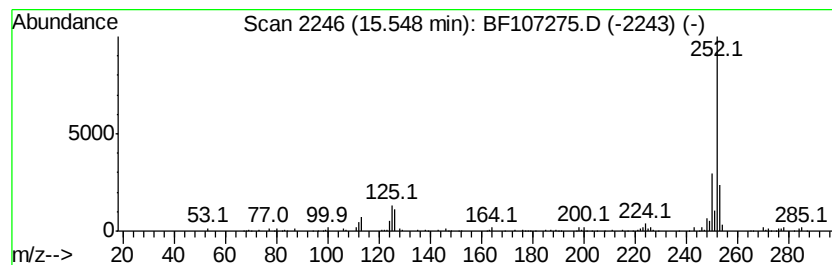
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Benzo[e]pyrene Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.55 | 7.18 ng | 79859 | Perylene-d12     | 15.68 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]bpvrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 95   |
| 3    |    | Benzo[i]fluoranthene      | 252 | C20H12  | 000205-82-3 | 94   |
| 4    |    | Benzo[a]bpvrene           | 252 | C20H12  | 000050-32-8 | 93   |
| 5    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\  
Data File : BF107275.D  
Acq On : 10 Jul 2018 16:22  
Operator : JU/SJ  
Sample : J3897-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

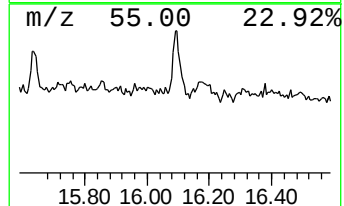
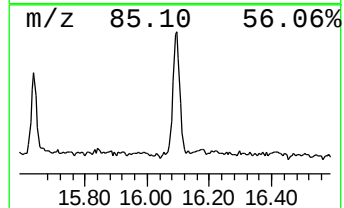
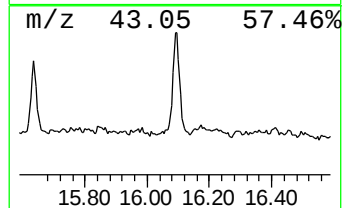
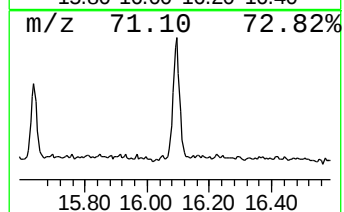
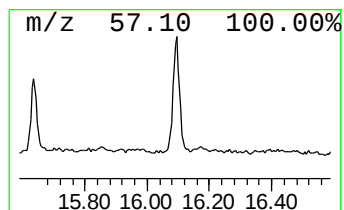
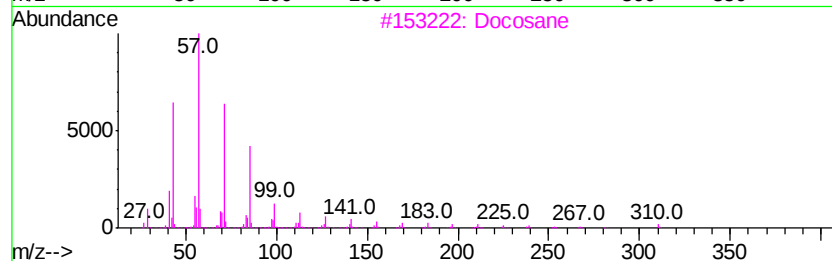
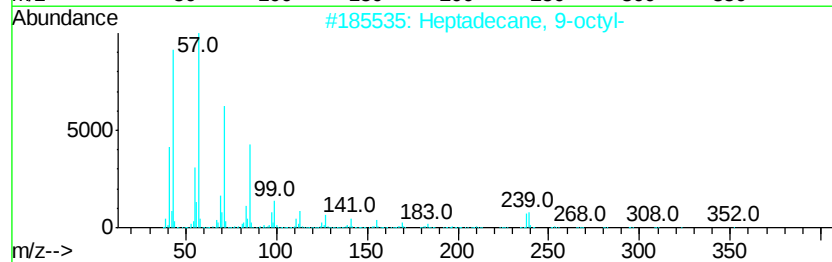
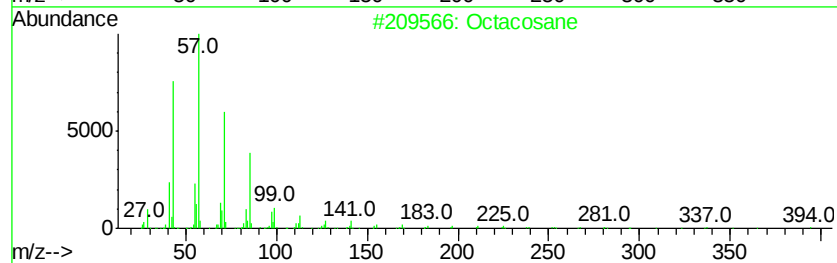
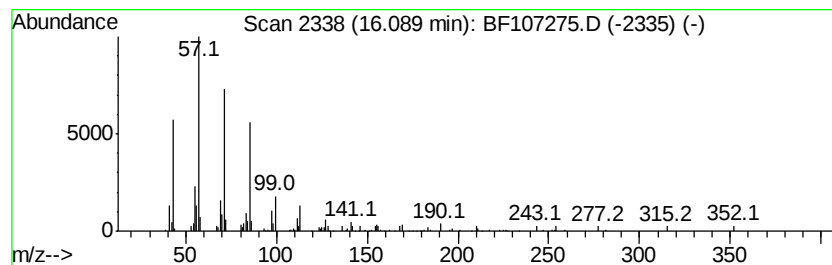
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Octacosane Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 16.09 | 10.73 ng | 119278 | Perylene-d12     | 15.68 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------|-----|---------|--------------|------|
| 1    | 5  | Octacosane                    | 394 | C28H58  | 000630-02-4  | 91   |
| 2    |    | Heptadecane, 9-octyl-         | 352 | C25H52  | 007225-64-1  | 91   |
| 3    |    | Docosane                      | 310 | C22H46  | 000629-97-0  | 91   |
| 4    |    | Tridecanol, 2-ethyl-2-methyl- | 242 | C16H34O | 1000115-66-1 | 90   |
| 5    |    | Nonadecane, 2-methyl-         | 282 | C20H42  | 001560-86-7  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071018\  
Data File : BF107275.D  
Acq On : 10 Jul 2018 16:22  
Operator : JU/SJ  
Sample : J3897-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCK-PILE-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.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... | 5.18  | 10.0    | ng    | 116722   | 1                     | 6.94  | 234482 | 20.0 |
| unknown6.72          | 6.72  | 62.0    | ng    | 726880   | 1                     | 6.94  | 234482 | 20.0 |
| Phenanthrene, 2-m... | 12.01 | 2.1     | ng    | 34192    | 4                     | 11.48 | 328608 | 20.0 |
| 4H-Cyclopenta[def... | 12.10 | 2.4     | ng    | 38614    | 4                     | 11.48 | 328608 | 20.0 |
| Pyrene, 1-methyl-    | 13.26 | 3.6     | ng    | 94335    | 5                     | 14.14 | 524070 | 20.0 |
| Isobutyl tetradec... | 13.94 | 6.9     | ng    | 181167   | 5                     | 14.14 | 524070 | 20.0 |
| Hexadecane           | 14.25 | 3.1     | ng    | 80690    | 5                     | 14.14 | 524070 | 20.0 |
| Heptadecane          | 14.57 | 3.3     | ng    | 85860    | 5                     | 14.14 | 524070 | 20.0 |
| Supraene             | 14.97 | 5.9     | ng    | 65608    | 6                     | 15.68 | 222354 | 20.0 |
| Benzo[e]pyrene       | 15.55 | 7.2     | ng    | 79859    | 6                     | 15.68 | 222354 | 20.0 |
| Octacosane           | 16.09 | 10.7    | ng    | 119278   | 6                     | 15.68 | 222354 | 20.0 |