

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
 Data File : BF112835.D  
 Acq On : 4 Mar 2019 20:13  
 Operator : JU/SJ  
 Sample : K1688-13 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-030119-G

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-BF022719.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         | 5.346       | 551           | 554         | 567          | rVB      | 817811         | 848617        | 11.13%          | 2.136%        |
| 2         | 6.369       | 725           | 728         | 736          | rVB      | 933930         | 879693        | 11.54%          | 2.214%        |
| 3         | 6.510       | 746           | 752         | 761          | rBV      | 1092194        | 973428        | 12.76%          | 2.450%        |
| 4         | 6.598       | 765           | 767         | 773          | rVB      | 103660         | 85604         | 1.12%           | 0.215%        |
| 5         | 6.745       | 789           | 792         | 796          | rBV      | 1103808        | 898427        | 11.78%          | 2.261%        |
| 6         | 6.904       | 815           | 819         | 828          | rVB      | 759909         | 731531        | 9.59%           | 1.841%        |
| 7         | 7.298       | 879           | 886         | 894          | rBV      | 539555         | 607598        | 7.97%           | 1.529%        |
| 8         | 7.357       | 894           | 896         | 900          | rVB      | 225358         | 171990        | 2.26%           | 0.433%        |
| 9         | 7.557       | 926           | 930         | 934          | rVB3     | 62696          | 95622         | 1.25%           | 0.241%        |
| 10        | 7.769       | 961           | 966         | 968          | rBV3     | 67343          | 98297         | 1.29%           | 0.247%        |
| 11        | 7.792       | 968           | 970         | 974          | rVB2     | 77082          | 82975         | 1.09%           | 0.209%        |
| 12        | 8.028       | 1006          | 1010        | 1017         | rBV      | 1530296        | 1414355       | 18.55%          | 3.560%        |
| 13        | 8.328       | 1056          | 1061        | 1064         | rBV4     | 81125          | 109906        | 1.44%           | 0.277%        |
| 14        | 8.416       | 1074          | 1076        | 1080         | rBV2     | 96206          | 94313         | 1.24%           | 0.237%        |
| 15        | 8.463       | 1082          | 1084        | 1089         | rVV3     | 140827         | 152316        | 2.00%           | 0.383%        |
| 16        | 8.534       | 1093          | 1096        | 1100         | rBV2     | 117355         | 117218        | 1.54%           | 0.295%        |
| 17        | 8.634       | 1109          | 1113        | 1120         | rBV      | 438747         | 412104        | 5.40%           | 1.037%        |
| 18        | 8.728       | 1126          | 1129        | 1136         | rVB4     | 68940          | 110229        | 1.45%           | 0.277%        |
| 19        | 8.851       | 1144          | 1150        | 1153         | rBV3     | 103052         | 129410        | 1.70%           | 0.326%        |
| 20        | 9.063       | 1184          | 1186        | 1189         | rVB2     | 141454         | 115525        | 1.51%           | 0.291%        |
| 21        | 9.098       | 1189          | 1192        | 1198         | rBV      | 918764         | 877248        | 11.50%          | 2.208%        |
| 22        | 9.192       | 1205          | 1208        | 1212         | rBV      | 394553         | 389947        | 5.11%           | 0.981%        |
| 23        | 9.363       | 1232          | 1237        | 1243         | rBV7     | 45524          | 104266        | 1.37%           | 0.262%        |
| 24        | 9.516       | 1257          | 1263        | 1265         | rBV4     | 138720         | 226418        | 2.97%           | 0.570%        |
| 25        | 9.722       | 1296          | 1298        | 1302         | rVB      | 432307         | 319843        | 4.19%           | 0.805%        |
| 26        | 9.781       | 1302          | 1308        | 1311         | rBV      | 1164863        | 1214717       | 15.93%          | 3.057%        |
| 27        | 9.957       | 1334          | 1338        | 1340         | rBV3     | 60853          | 95029         | 1.25%           | 0.239%        |
| 28        | 10.045      | 1350          | 1353        | 1357         | rVB3     | 93284          | 101647        | 1.33%           | 0.256%        |
| 29        | 10.222      | 1379          | 1383        | 1386         | rBV      | 406511         | 321093        | 4.21%           | 0.808%        |
| 30        | 10.439      | 1416          | 1420        | 1427         | rBV      | 126611         | 150989        | 1.98%           | 0.380%        |
| 31        | 10.557      | 1437          | 1440        | 1445         | rBV      | 648943         | 627010        | 8.22%           | 1.578%        |
| 32        | 10.692      | 1460          | 1463        | 1470         | rBV      | 407061         | 446565        | 5.86%           | 1.124%        |
| 33        | 11.139      | 1536          | 1539        | 1542         | rBV      | 339533         | 283005        | 3.71%           | 0.712%        |
| 34        | 11.169      | 1542          | 1544        | 1550         | rVB      | 124003         | 123818        | 1.62%           | 0.312%        |

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BNA\_F  
ClientSampleId :  
JC-03-030119-G

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Sampling : 1  
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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-BF022719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 11.257 | 1555 | 1559 | 1562 | rBV  | 1353722 | 1238506 | 16.24%  | 3.117%  |
| 36 | 11.563 | 1608 | 1611 | 1613 | rBV  | 302325  | 242298  | 3.18%   | 0.610%  |
| 37 | 11.586 | 1613 | 1615 | 1617 | rVB  | 108831  | 85585   | 1.12%   | 0.215%  |
| 38 | 11.663 | 1624 | 1628 | 1631 | rBV  | 3086897 | 2605852 | 34.17%  | 6.559%  |
| 39 | 11.792 | 1647 | 1650 | 1653 | rBV2 | 129669  | 134277  | 1.76%   | 0.338%  |
| 40 | 11.969 | 1674 | 1680 | 1688 | rBV  | 267099  | 290690  | 3.81%   | 0.732%  |
| 41 | 12.351 | 1740 | 1745 | 1746 | rBV  | 6012115 | 6181490 | 81.06%  | 15.558% |
| 42 | 12.374 | 1746 | 1749 | 1754 | rVV  | 7035627 | 7625843 | 100.00% | 19.194% |
| 43 | 12.416 | 1754 | 1756 | 1759 | rVB2 | 102100  | 80247   | 1.05%   | 0.202%  |
| 44 | 12.451 | 1759 | 1762 | 1765 | rBV2 | 1386600 | 1266415 | 16.61%  | 3.187%  |
| 45 | 12.498 | 1768 | 1770 | 1773 | rVB  | 225752  | 185106  | 2.43%   | 0.466%  |
| 46 | 12.686 | 1798 | 1802 | 1806 | rVB2 | 433339  | 442364  | 5.80%   | 1.113%  |
| 47 | 12.727 | 1806 | 1809 | 1812 | rBV  | 183576  | 147462  | 1.93%   | 0.371%  |
| 48 | 12.833 | 1824 | 1827 | 1831 | rBV  | 986446  | 887995  | 11.64%  | 2.235%  |
| 49 | 13.004 | 1853 | 1856 | 1858 | rBV  | 206118  | 202349  | 2.65%   | 0.509%  |
| 50 | 13.027 | 1858 | 1860 | 1866 | rVV5 | 202259  | 335648  | 4.40%   | 0.845%  |
| 51 | 13.092 | 1866 | 1871 | 1874 | rVB3 | 258345  | 399301  | 5.24%   | 1.005%  |
| 52 | 13.174 | 1882 | 1885 | 1889 | rBV  | 254058  | 241517  | 3.17%   | 0.608%  |
| 53 | 13.327 | 1908 | 1911 | 1915 | rVB5 | 106661  | 118332  | 1.55%   | 0.298%  |
| 54 | 13.421 | 1924 | 1927 | 1932 | rBV  | 150788  | 168272  | 2.21%   | 0.424%  |
| 55 | 13.586 | 1953 | 1955 | 1959 | rVB2 | 79414   | 101063  | 1.33%   | 0.254%  |
| 56 | 13.751 | 1980 | 1983 | 1986 | rVB  | 138341  | 128415  | 1.68%   | 0.323%  |
| 57 | 13.839 | 1995 | 1998 | 2001 | rBV  | 164721  | 160892  | 2.11%   | 0.405%  |
| 58 | 13.886 | 2002 | 2006 | 2009 | rBV  | 1166563 | 1178859 | 15.46%  | 2.967%  |
| 59 | 14.069 | 2034 | 2037 | 2040 | rVB  | 157806  | 137037  | 1.80%   | 0.345%  |
| 60 | 14.368 | 2086 | 2088 | 2091 | rVB  | 182772  | 156107  | 2.05%   | 0.393%  |
| 61 | 14.668 | 2136 | 2139 | 2142 | rBV  | 194374  | 196692  | 2.58%   | 0.495%  |
| 62 | 14.774 | 2153 | 2157 | 2165 | rVB  | 295747  | 438102  | 5.74%   | 1.103%  |
| 63 | 14.986 | 2191 | 2193 | 2201 | rVB  | 224626  | 251304  | 3.30%   | 0.633%  |
| 64 | 15.298 | 2242 | 2246 | 2250 | rVB  | 606940  | 692115  | 9.08%   | 1.742%  |

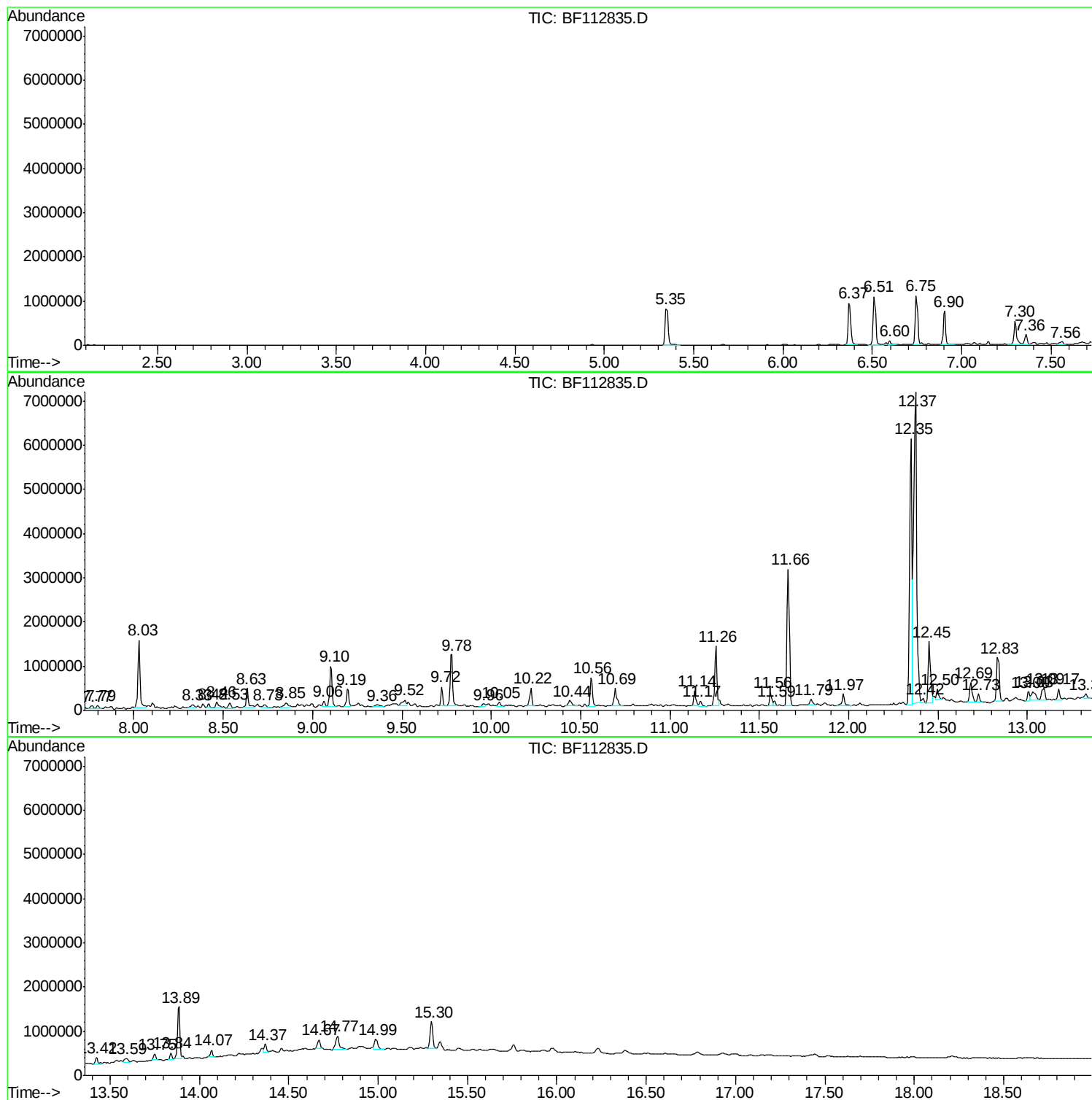
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BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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\BF030419\  
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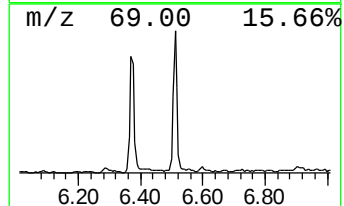
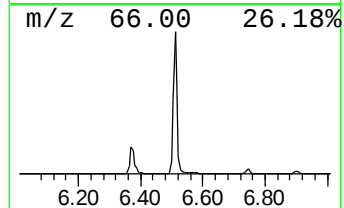
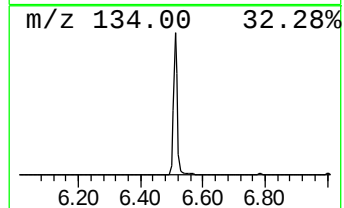
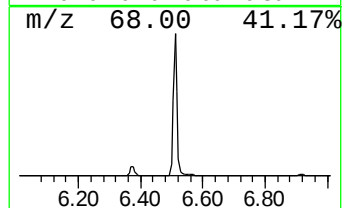
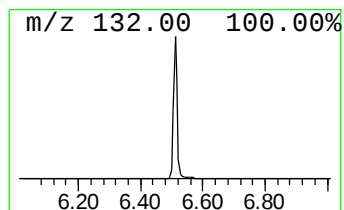
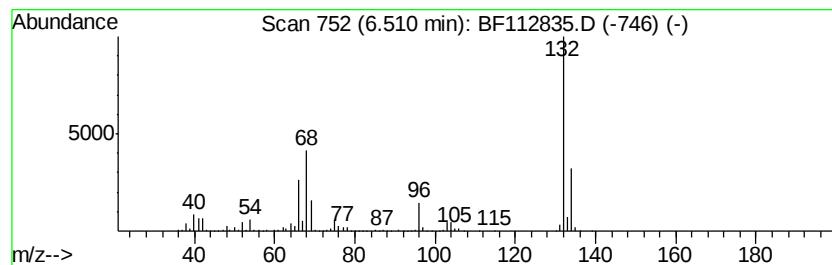
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.51 Concentration Rank 4

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.51 | 21.67 ng | 973428 | 1,4-Dichlorobenzene-d4 | 6.75 |

| 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  | 12   |
| 3    |    | Tranvlcyproline-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 9    |
| 5    |    | Xenon                            | 132 | Xe        | 007440-63-3  | 9    |



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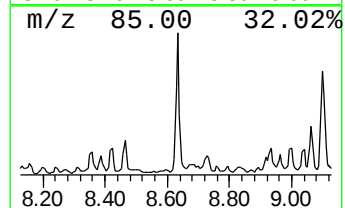
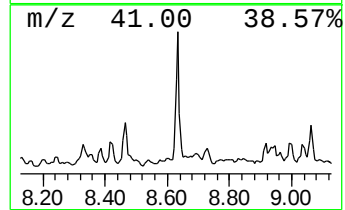
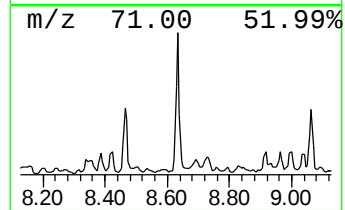
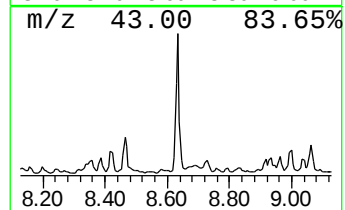
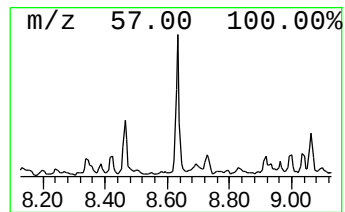
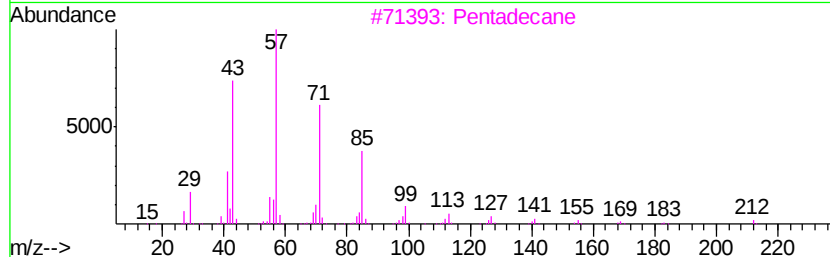
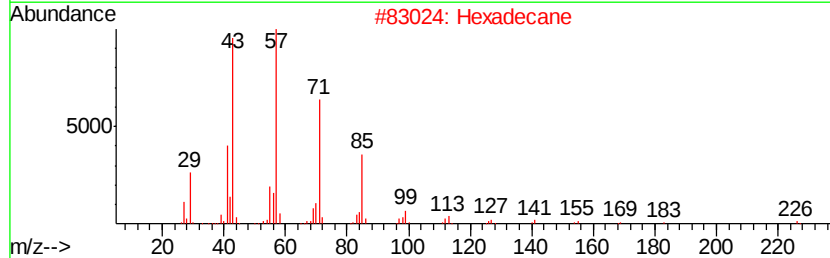
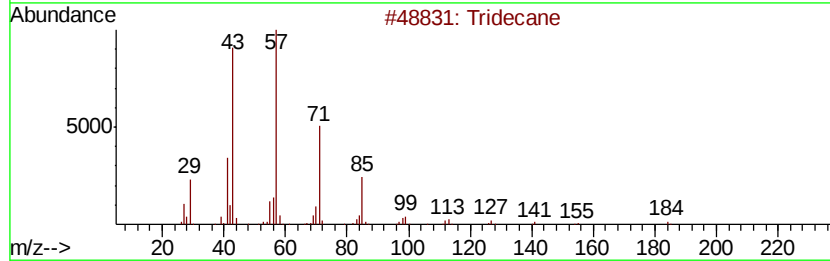
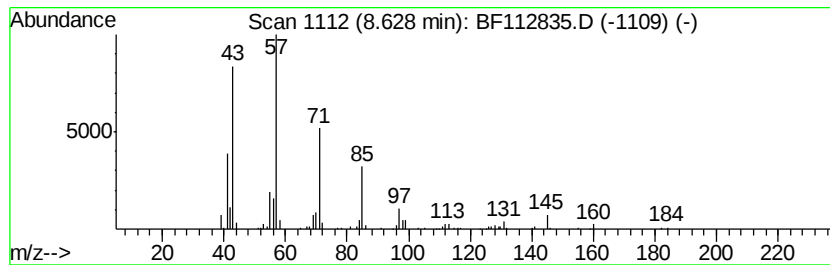
Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Tridecane Concentration Rank 12

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 8.63      | 5.83 ng                 | 412104 | Naphthalene-d8   | 8.03        |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Tridecane               | 184    | C13H28           | 000629-50-5 | 95   |
| 2         | Hexadecane              | 226    | C16H34           | 000544-76-3 | 87   |
| 3         | Pentadecane             | 212    | C15H32           | 000629-62-9 | 86   |
| 4         | Tetradecane             | 198    | C14H30           | 000629-59-4 | 86   |
| 5         | Undecane, 2,6-dimethyl- | 184    | C13H28           | 017301-23-4 | 76   |



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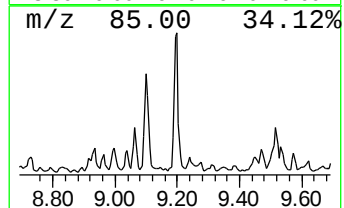
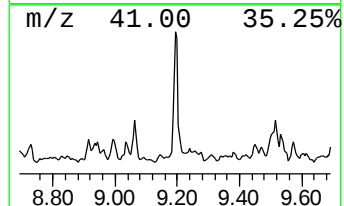
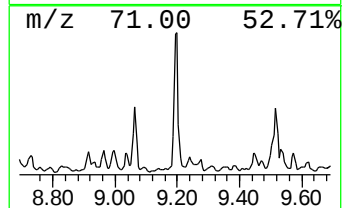
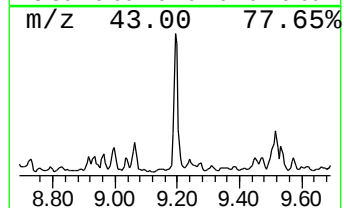
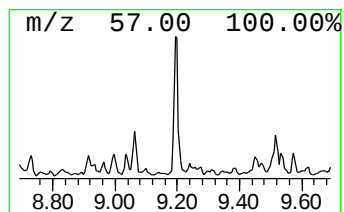
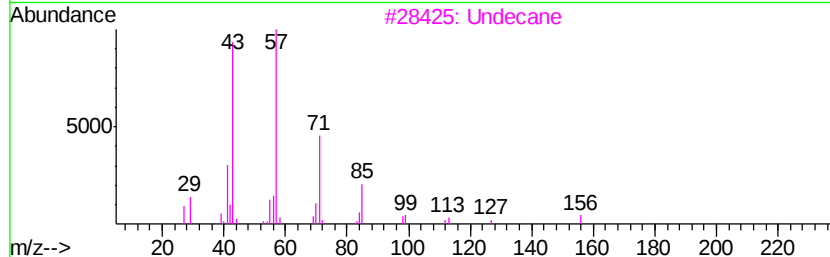
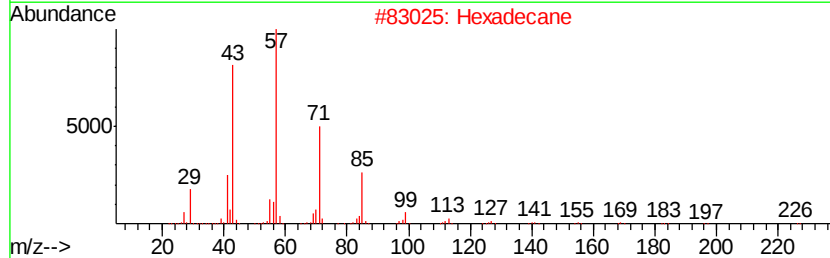
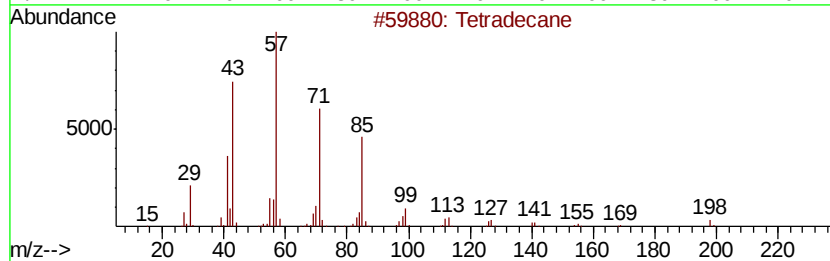
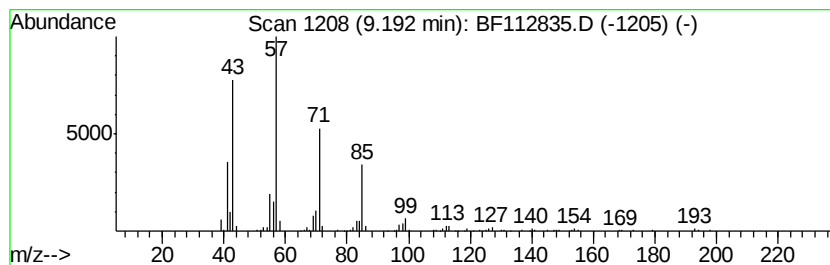
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Tetradecane Concentration Rank 11

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.19 | 6.42 ng | 389947 | Acenaphthene-d10 | 9.77 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane      | 198 | C14H30  | 000629-59-4 | 95   |
| 2    |    | Hexadecane       | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    | Undecane         | 156 | C11H24  | 001120-21-4 | 86   |
| 4    |    | Nonane, 5-butyl- | 184 | C13H28  | 017312-63-9 | 86   |
| 5    |    | Tridecane        | 184 | C13H28  | 000629-50-5 | 83   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

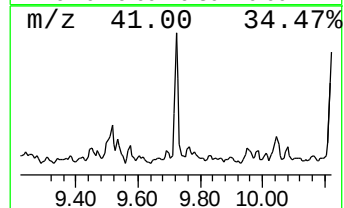
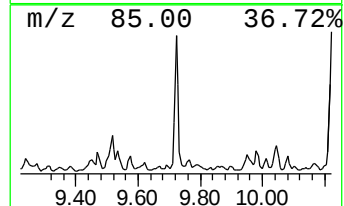
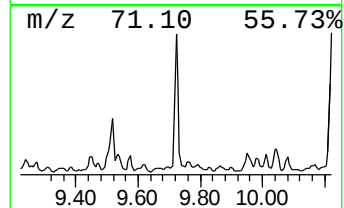
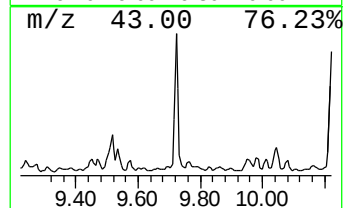
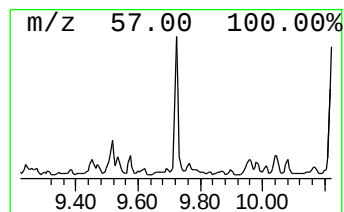
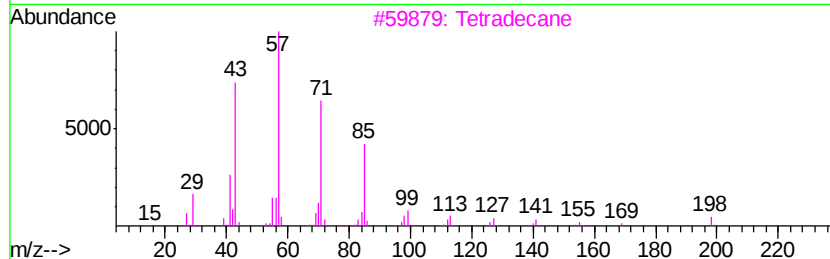
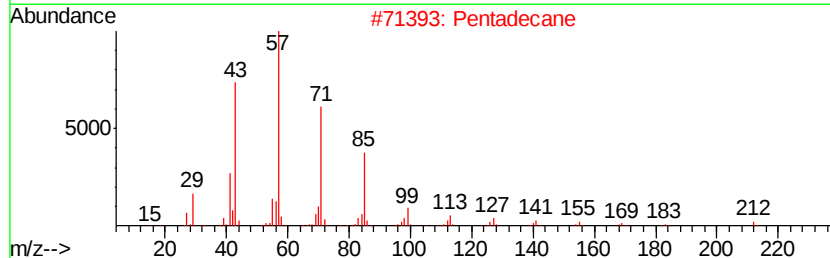
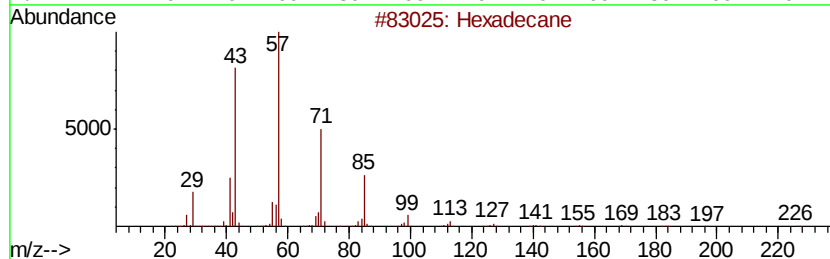
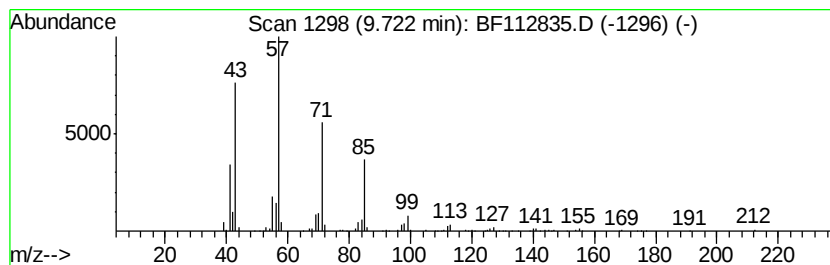
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Hexadecane Concentration Rank 16

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.72 | 5.27 ng | 319843 | Acenaphthene-d10 | 9.77 |

| Hit# of | 5                            | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane                   |              | 226 | C16H34  | 000544-76-3 | 91   |
| 2       | Pentadecane                  |              | 212 | C15H32  | 000629-62-9 | 90   |
| 3       | Tetradecane                  |              | 198 | C14H30  | 000629-59-4 | 90   |
| 4       | Tridecane                    |              | 184 | C13H28  | 000629-50-5 | 90   |
| 5       | Dodecane, 2-methyl-6-propyl- |              | 226 | C16H34  | 055045-08-4 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

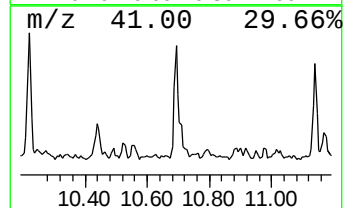
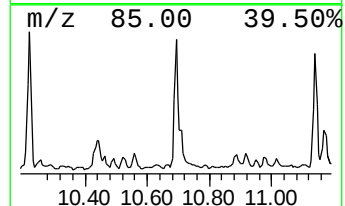
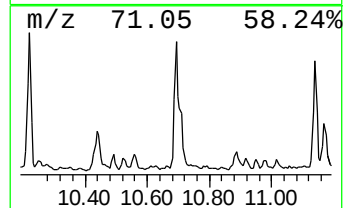
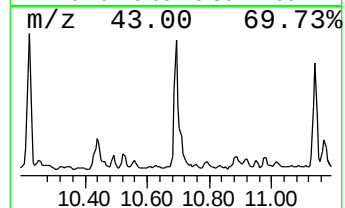
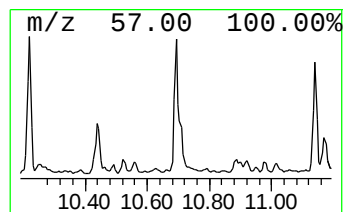
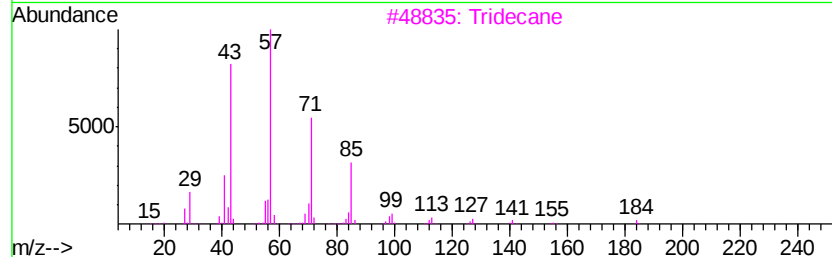
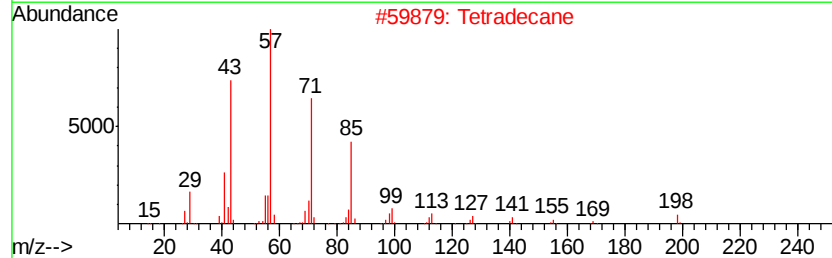
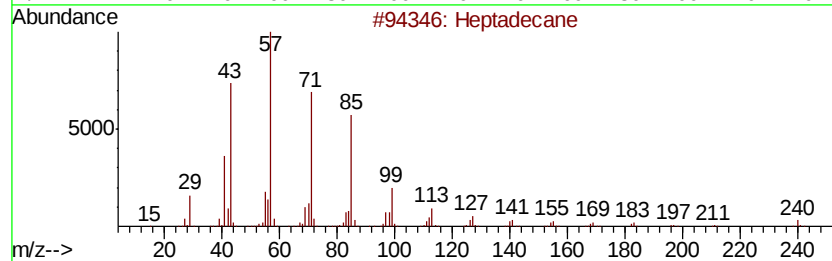
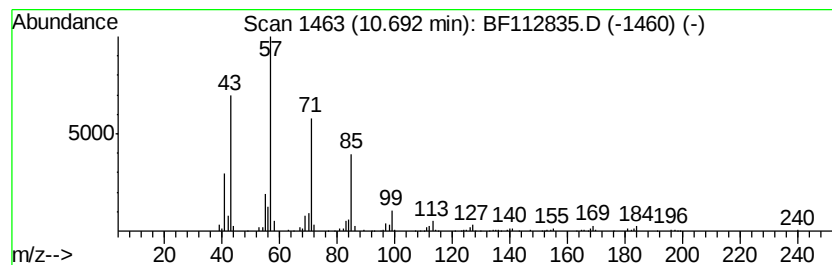
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ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Heptadecane Concentration Rank 9

| R.T.      | EstConc      | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------|--------|------------------|-------------|-------|
| 10.69     | 7.21 ng      | 446565 | Phenanthrene-d10 |             | 11.26 |
| Hit# of 5 | Tentative ID | MW     | MolForm          | CAS#        | Qual  |
| 1         | Heptadecane  | 240    | C17H36           | 000629-78-7 | 97    |
| 2         | Tetradecane  | 198    | C14H30           | 000629-59-4 | 93    |
| 3         | Tridecane    | 184    | C13H28           | 000629-50-5 | 91    |
| 4         | Pentadecane  | 212    | C15H32           | 000629-62-9 | 90    |
| 5         | Heneicosane  | 296    | C21H44           | 000629-94-7 | 90    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

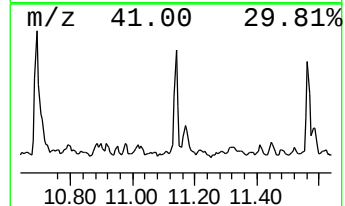
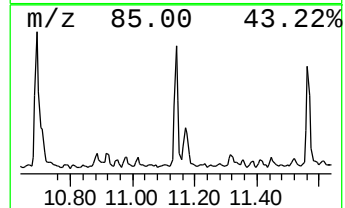
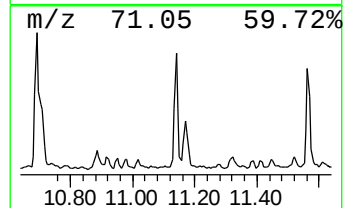
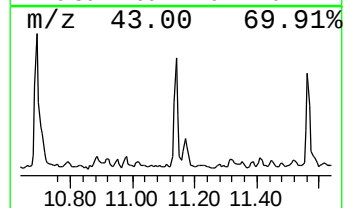
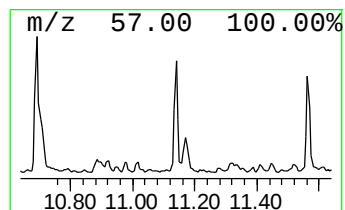
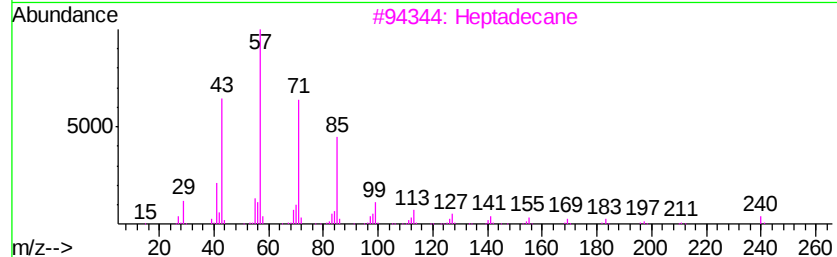
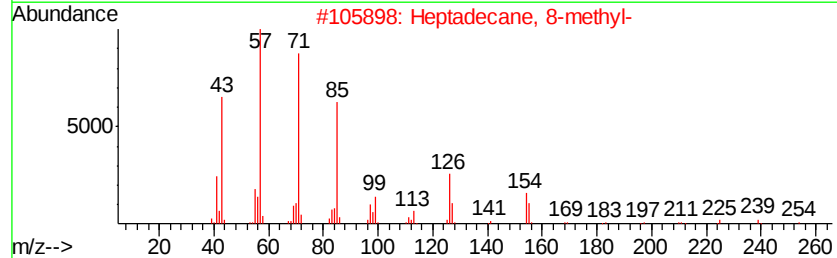
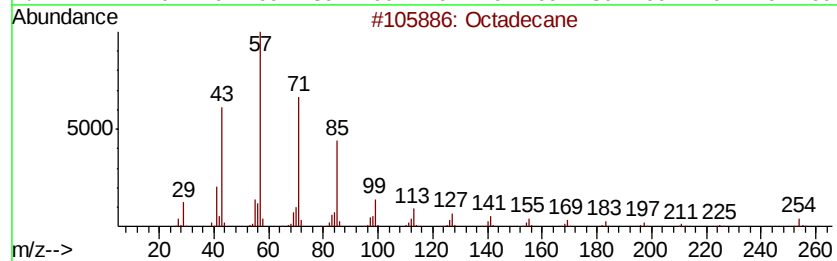
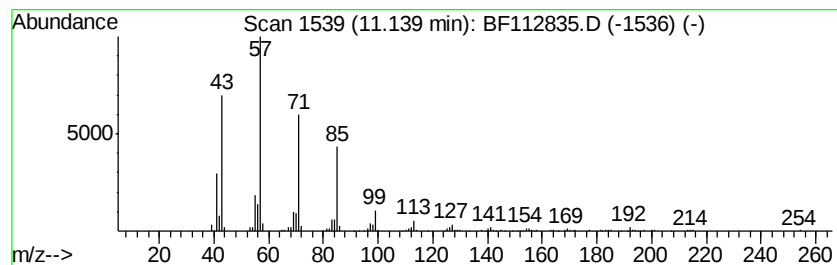
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Octadecane Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.14 | 4.57 ng | 283005 | Phenanthrene-d10 | 11.26 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane             | 254 | C18H38  | 000593-45-3 | 97   |
| 2    |    | Heptadecane, 8-methyl- | 254 | C18H38  | 013287-23-5 | 94   |
| 3    |    | Heptadecane            | 240 | C17H36  | 000629-78-7 | 90   |
| 4    |    | Hexadecane             | 226 | C16H34  | 000544-76-3 | 90   |
| 5    |    | Tetradecane            | 198 | C14H30  | 000629-59-4 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

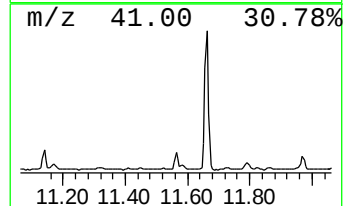
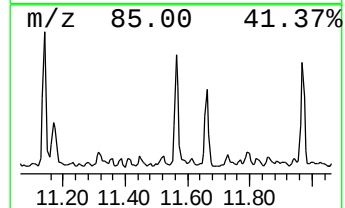
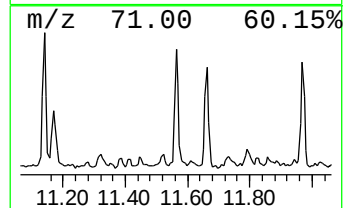
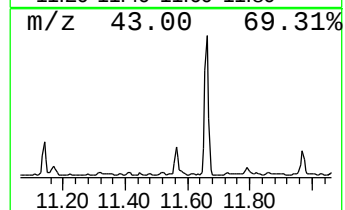
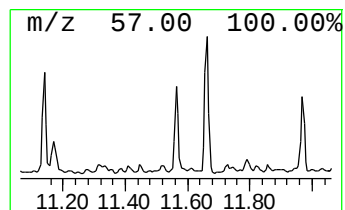
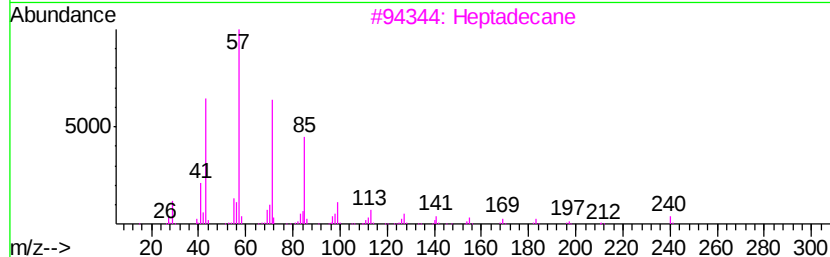
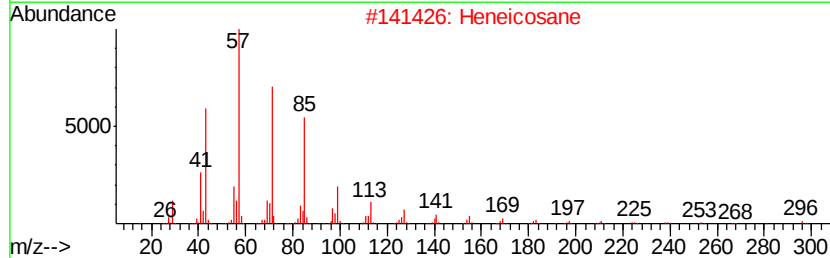
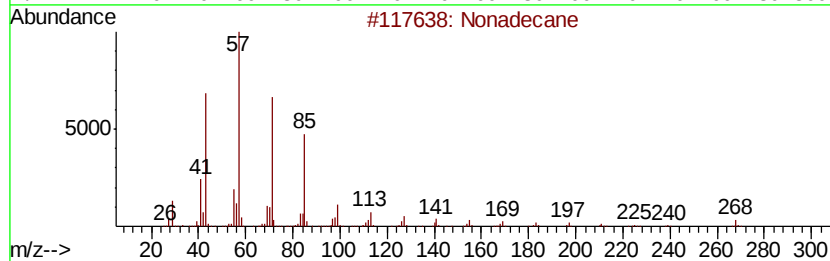
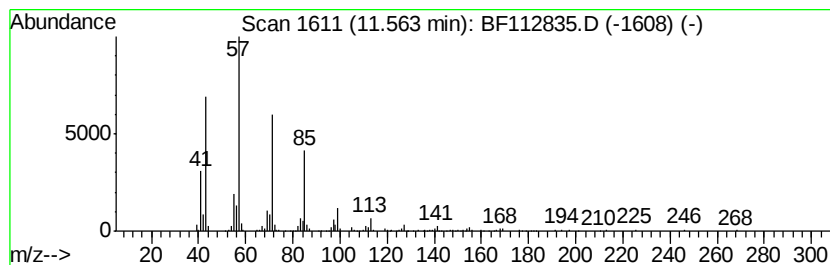
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Nonadecane Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.56 | 3.91 ng | 242298 | Phenanthrene-d10 | 11.26 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Nonadecane   | 268 | C19H40  | 000629-92-5 | 97   |
| 2    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 90   |
| 3    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 90   |
| 4    |    | Pentadecane  | 212 | C15H32  | 000629-62-9 | 87   |
| 5    |    | Octadecane   | 254 | C18H38  | 000593-45-3 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

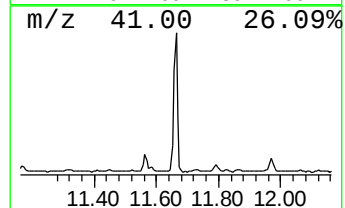
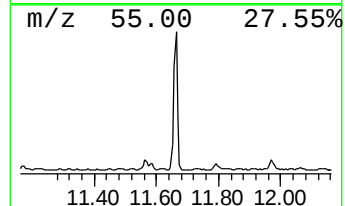
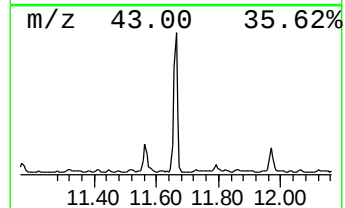
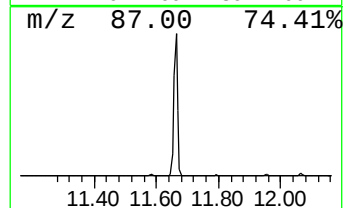
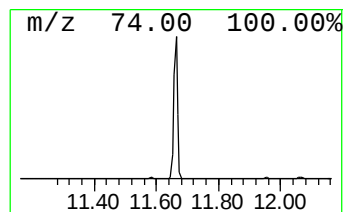
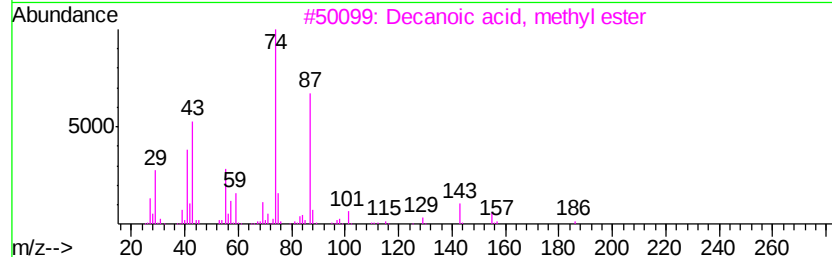
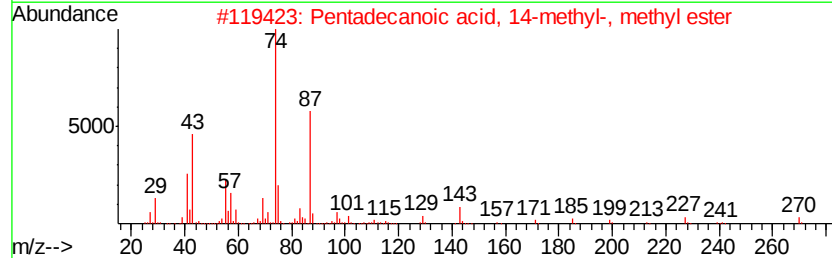
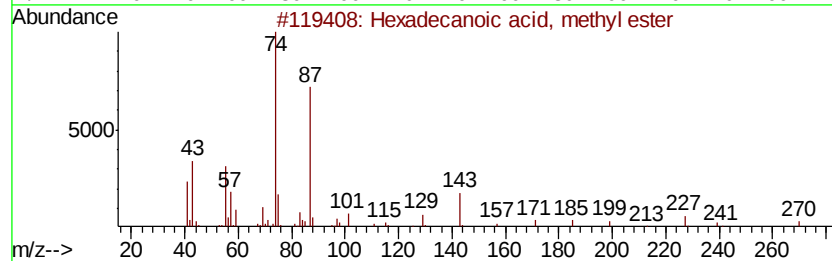
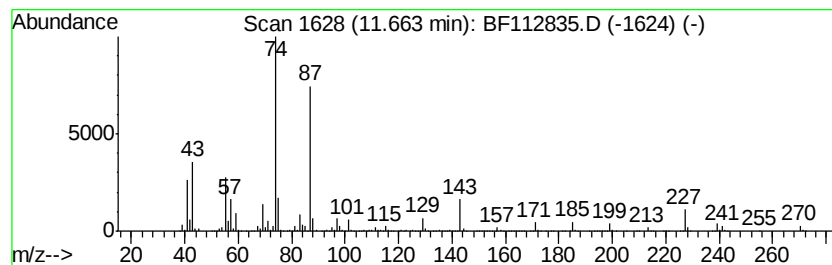
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ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.           |
|---------|----------|-------------------------------------|------------------|----------------|
| 11.66   | 42.08 ng | 2605850                             | Phenanthrene-d10 | 11.26          |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |          | Hexadecanoic acid, methyl ester     | 270 C17H34O2     | 000112-39-0 98 |
| 2       |          | Pentadecanoic acid, 14-methyl-, ... | 270 C17H34O2     | 005129-60-2 96 |
| 3       |          | Decanoic acid, methyl ester         | 186 C11H22O2     | 000110-42-9 87 |
| 4       |          | Pentadecanoic acid, methyl ester    | 256 C16H32O2     | 007132-64-1 86 |
| 5       |          | Methyl tetradecanoate               | 242 C15H30O2     | 000124-10-7 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

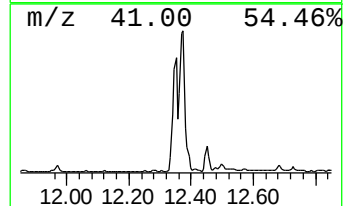
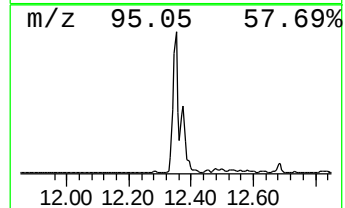
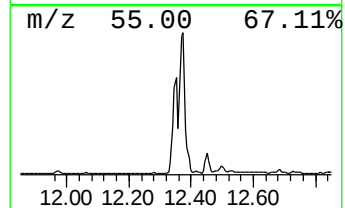
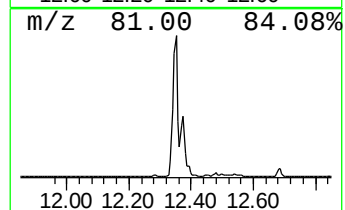
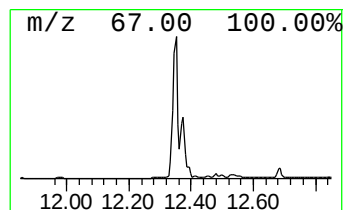
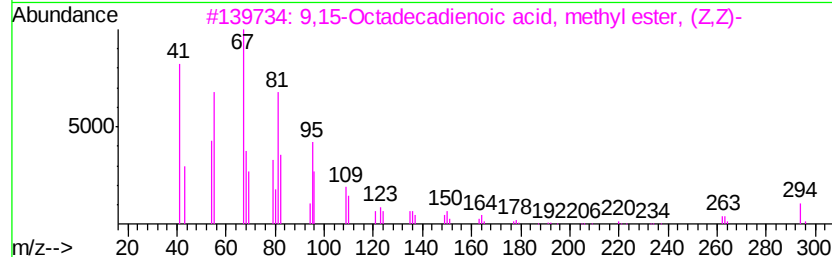
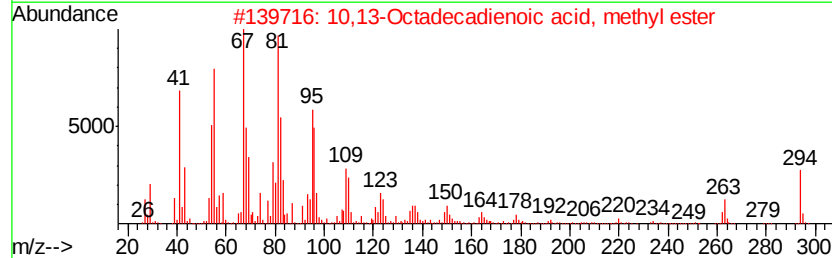
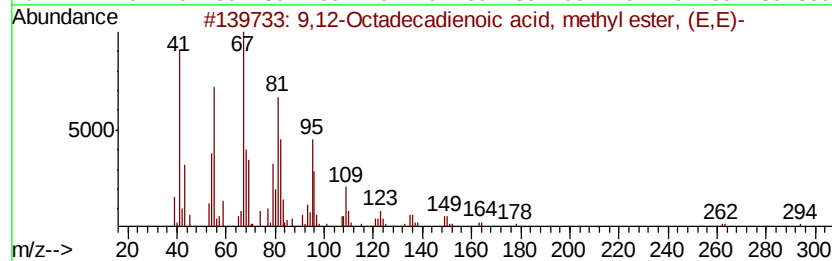
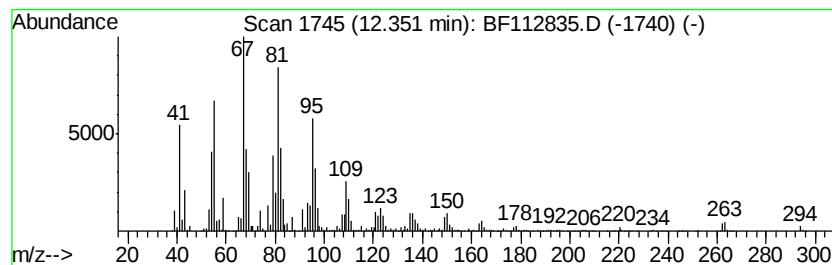
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JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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 9,12-Octadecadienoic acid, ... Concentration Rank 2

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|---------|------------------|-------------|------|
| 12.35     | 99.82 ng                            | 6181490 | Phenanthrene-d10 | 11.26       |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#        | Qual |
| 1         | 9,12-Octadecadienoic acid, methy... | 294     | C19H34O2         | 002566-97-4 | 99   |
| 2         | 10,13-Octadecadienoic acid, meth... | 294     | C19H34O2         | 056554-62-2 | 99   |
| 3         | 9,15-Octadecadienoic acid, methv... | 294     | C19H34O2         | 017309-05-6 | 99   |
| 4         | 9,12-Octadecadienoic acid (Z,Z)-... | 294     | C19H34O2         | 000112-63-0 | 99   |
| 5         | 9,12-Octadecadienoic acid, methy... | 294     | C19H34O2         | 002462-85-3 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

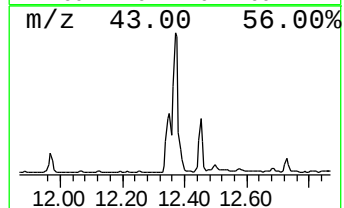
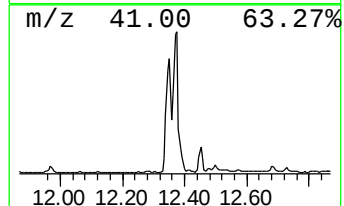
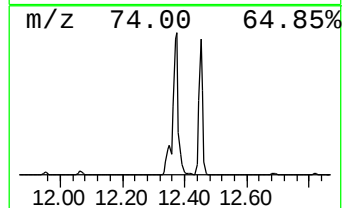
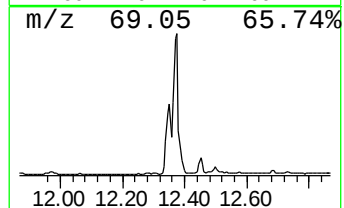
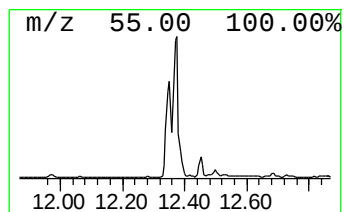
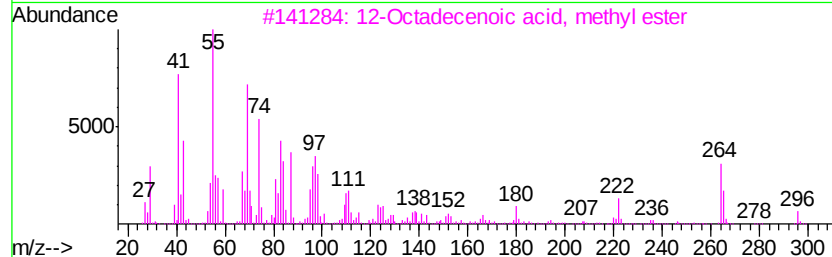
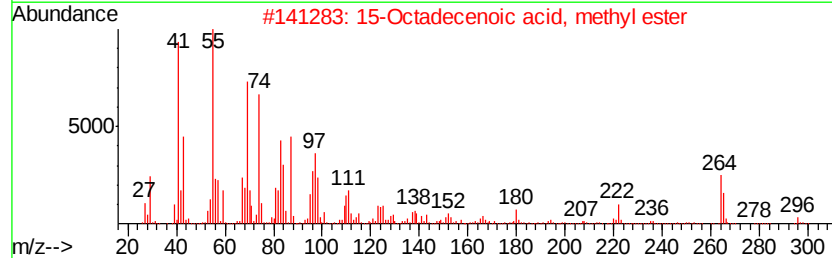
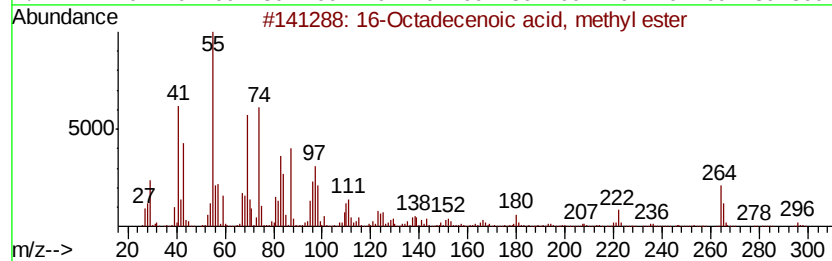
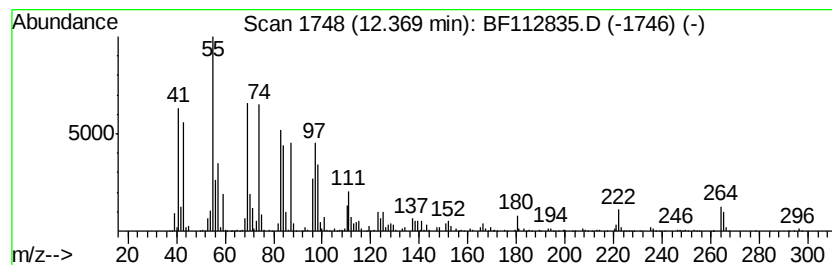
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 16-Octadecenoic acid, methyl ester Concentration Rank 1

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 12.37 | 123.15 ng | 7625840 | Phenanthrene-d10 | 11.26 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 96   |
| 2    |    | 15-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 004764-72-1 | 96   |
| 3    |    | 12-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-46-2 | 95   |
| 4    |    | 13-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-47-3 | 94   |
| 5    |    | 14-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-48-4 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

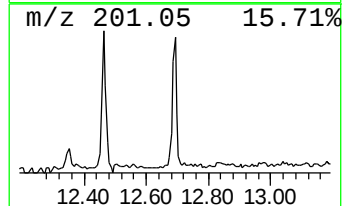
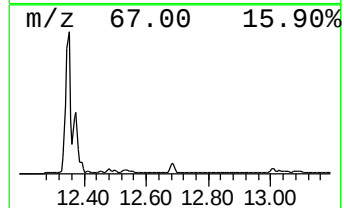
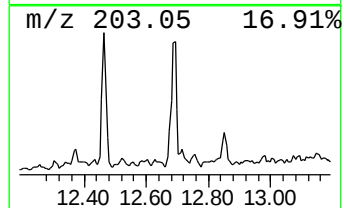
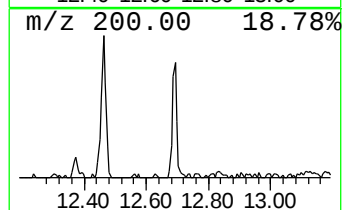
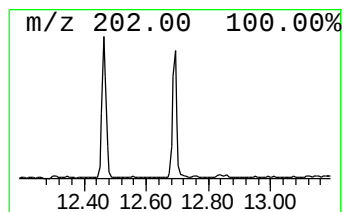
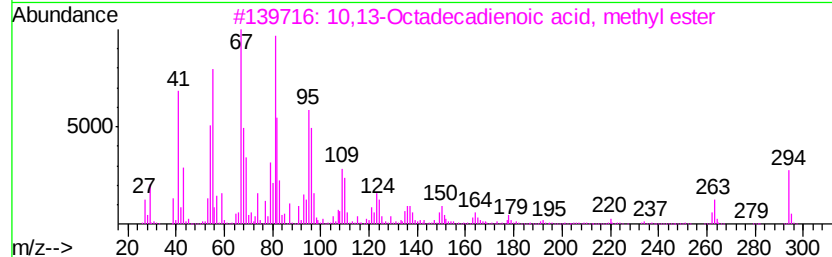
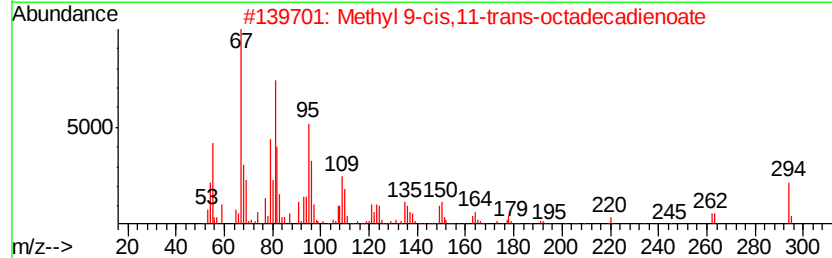
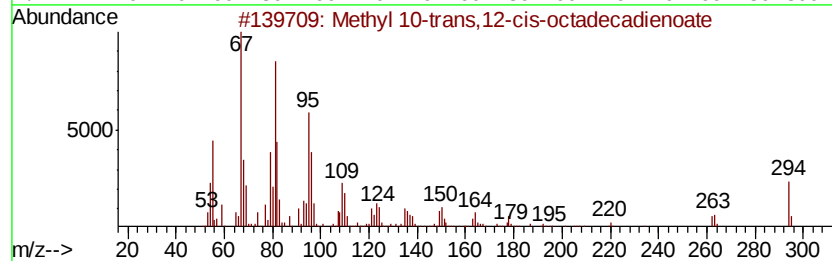
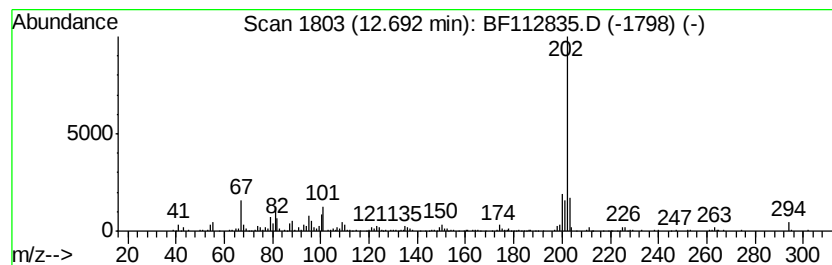
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Methyl 10-trans,12-cis-octa... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.69 | 7.50 ng | 442364 | Chrysene-d12     | 13.89 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Methyl 10-trans,12-cis-octadecad... | 294 | C19H34O2 | 1000336-44-2 | 95   |
| 2    |    |   | Methyl 9-cis,11-trans-octadecadi... | 294 | C19H34O2 | 1000336-44-0 | 95   |
| 3    |    |   | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2  | 90   |
| 4    |    |   | Pvrene                              | 202 | C16H10   | 000129-00-0  | 89   |
| 5    |    |   | 9,11-Octadecadienoic acid, methy... | 294 | C19H34O2 | 013038-47-6  | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

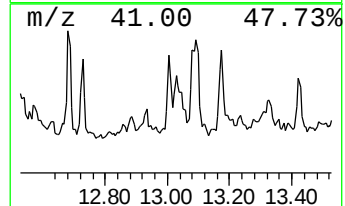
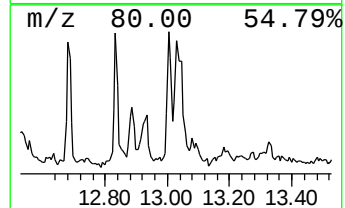
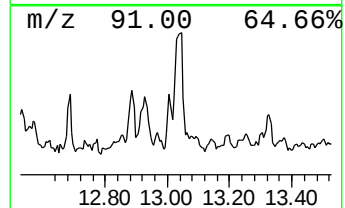
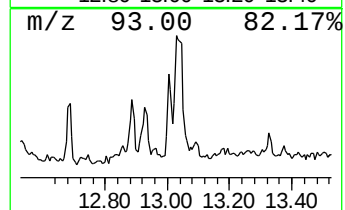
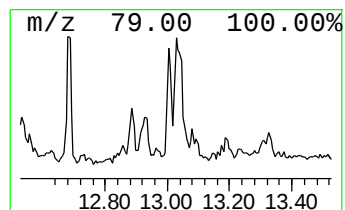
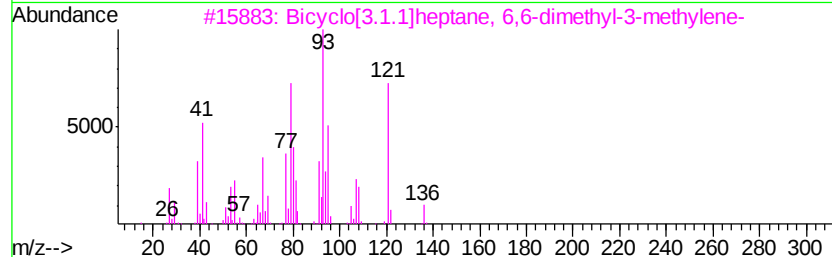
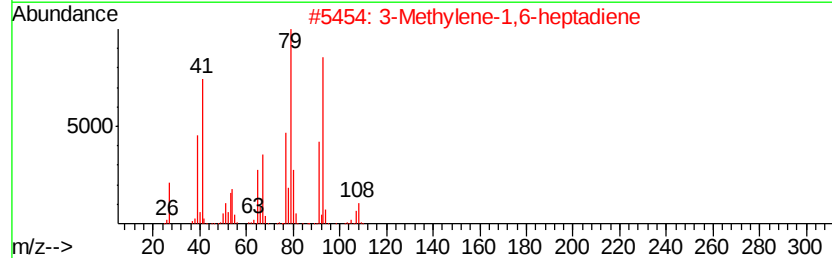
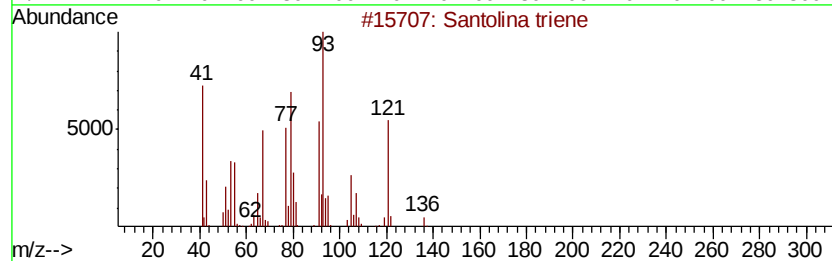
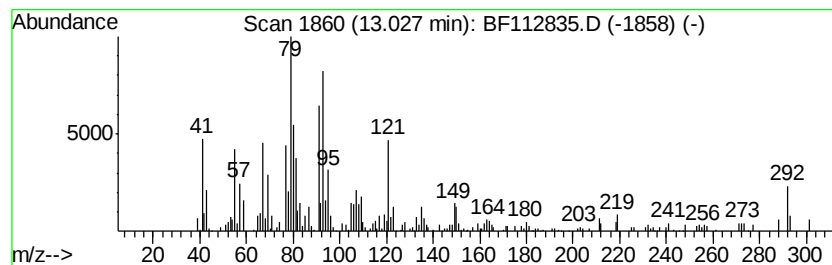
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Santolina triene Concentration Rank 13

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.03     | 5.69 ng                             | 335648 | Chrysene-d12     | 13.89       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Santolina triene                    | 136    | C10H16           | 002153-66-4 | 70   |
| 2         | 3-Methylene-1,6-heptadiene          | 108    | C8H12            | 016626-48-5 | 64   |
| 3         | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136    | C10H16           | 016022-04-1 | 60   |
| 4         | 3-Undecen-5-yne, (Z)-               | 150    | C11H18           | 074744-27-7 | 49   |
| 5         | 3-Undecen-5-yne, (E)-               | 150    | C11H18           | 074744-29-9 | 47   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

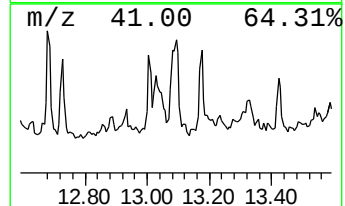
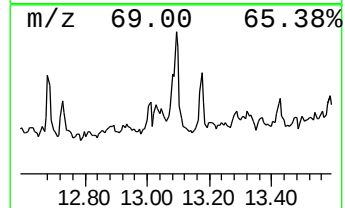
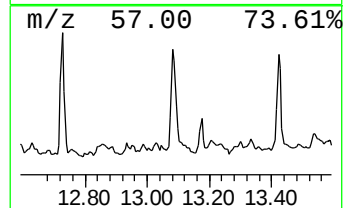
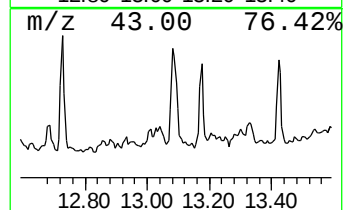
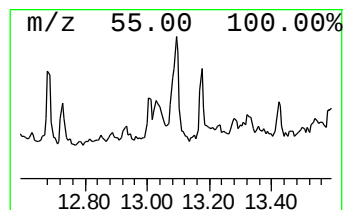
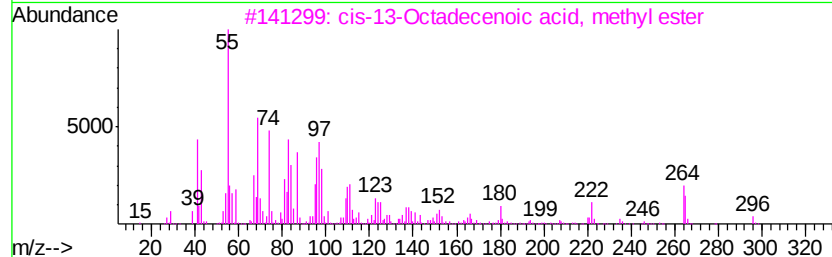
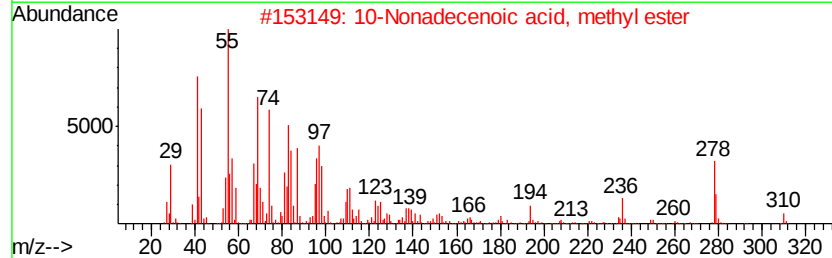
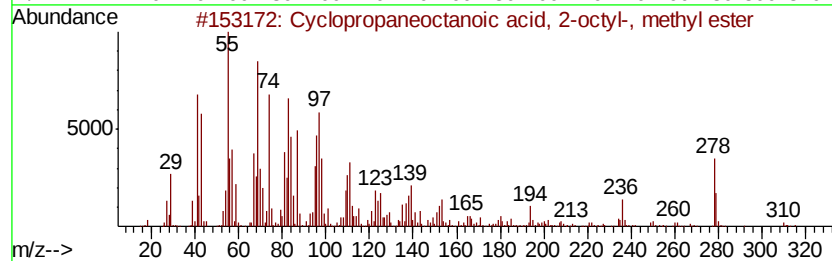
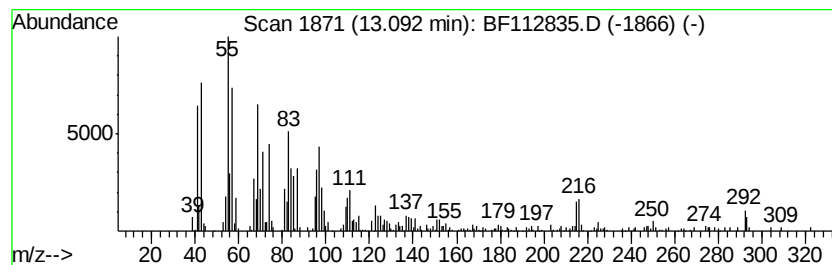
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Cyclopropaneoctanoic acid, ... Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.09 | 6.77 ng | 399301 | Chrysene-d12     | 13.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Cyclopropaneoctanoic acid, 2-oct... | 310 | C20H38O2 | 010152-62-2  | 81   |
| 2    |    | 10-Nonadecenoic acid, methyl ester  | 310 | C20H38O2 | 056599-83-8  | 76   |
| 3    |    | cis-13-Octadecenoic acid, methyl... | 296 | C19H36O2 | 1000333-58-3 | 70   |
| 4    |    | trans-13-Octadecenoic acid, meth... | 296 | C19H36O2 | 1000333-61-3 | 70   |
| 5    |    | 12-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-46-2  | 70   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

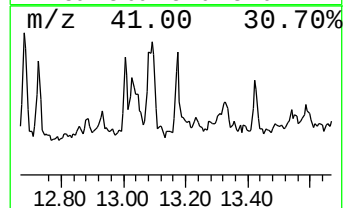
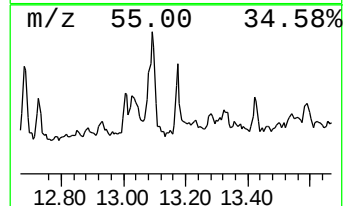
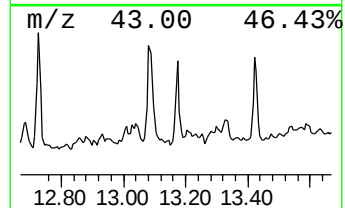
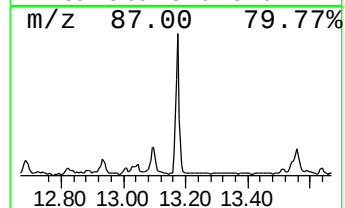
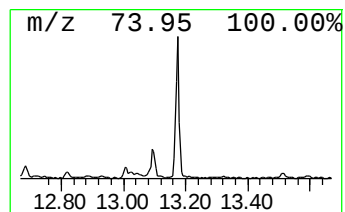
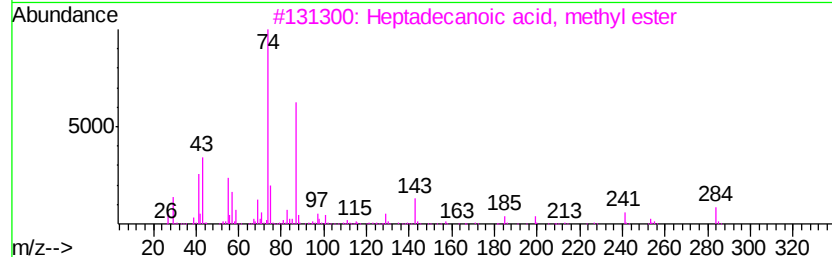
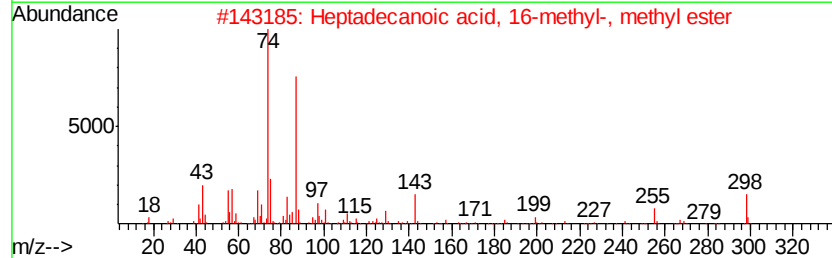
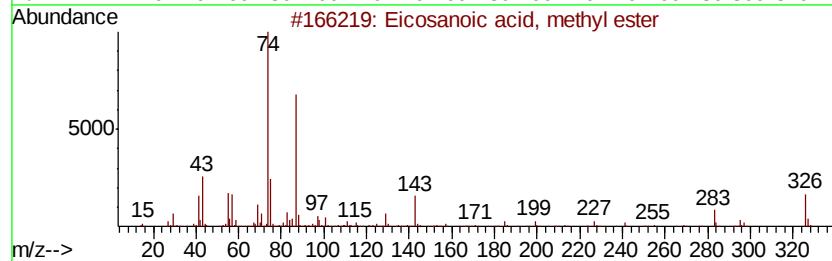
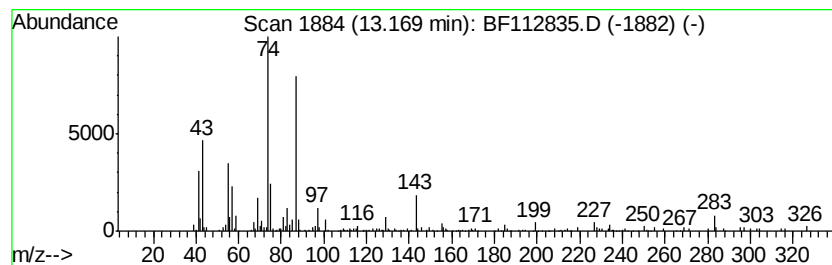
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Eicosanoic acid, methyl ester Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.17 | 4.10 ng | 241517 | Chrysene-d12     | 13.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Eicosanoic acid, methyl ester       | 326 | C21H42O2 | 001120-28-1 | 97   |
| 2    |    | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3 | 90   |
| 3    |    | Heptadecanoic acid, methyl ester    | 284 | C18H36O2 | 001731-92-6 | 90   |
| 4    |    | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 87   |
| 5    |    | Nonadecanoic acid, methyl ester     | 312 | C20H40O2 | 001731-94-8 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

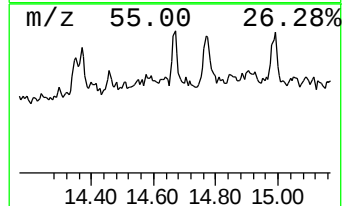
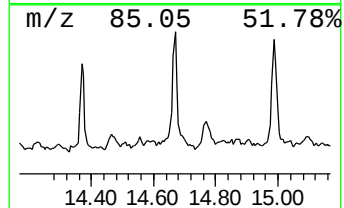
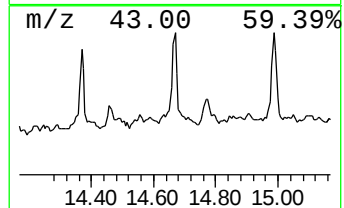
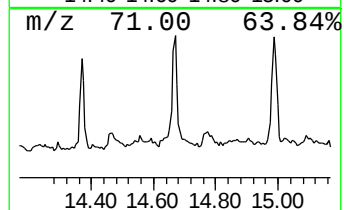
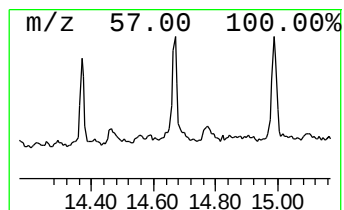
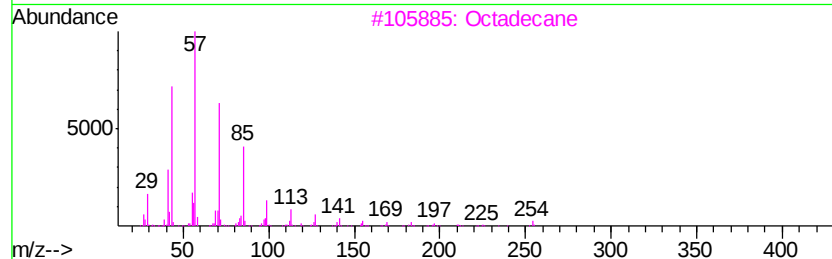
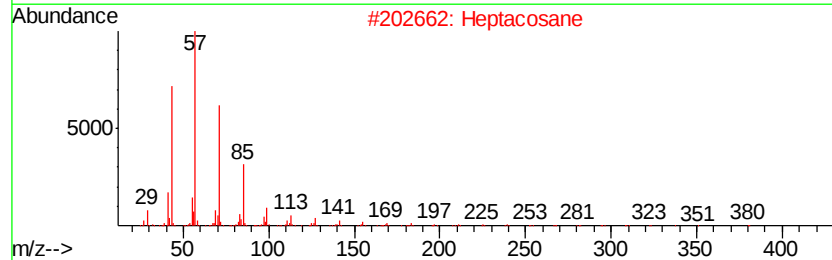
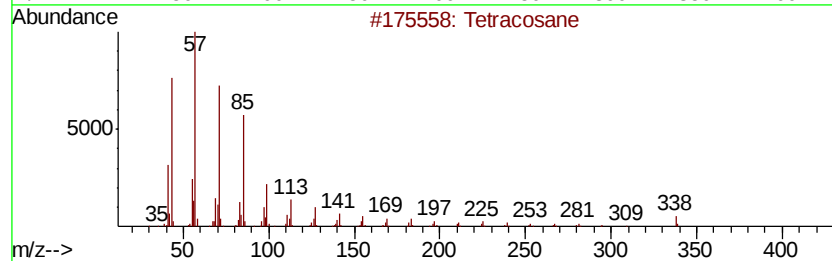
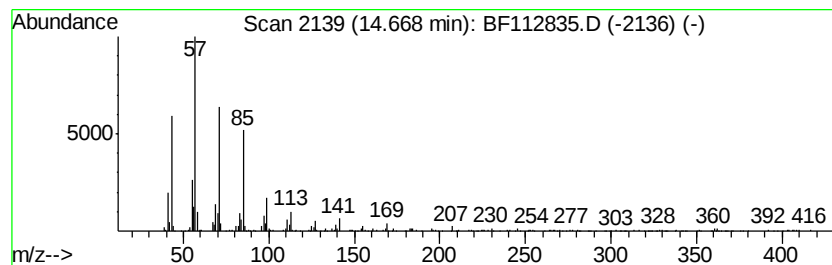
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Tetracosane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.67 | 5.68 ng | 196692 | Perylene-d12     | 15.30 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Tetracosane                         | 338 | C24H50  | 000646-31-1 | 95   |
| 2    |    |   | Heptacosane                         | 380 | C27H56  | 000593-49-7 | 95   |
| 3    |    |   | Octadecane                          | 254 | C18H38  | 000593-45-3 | 93   |
| 4    |    |   | Tridecane, 7-hexyl-                 | 268 | C19H40  | 007225-66-3 | 87   |
| 5    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

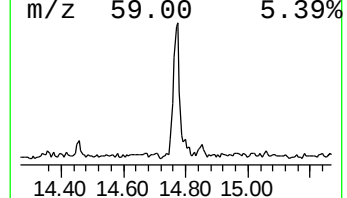
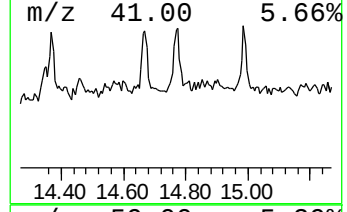
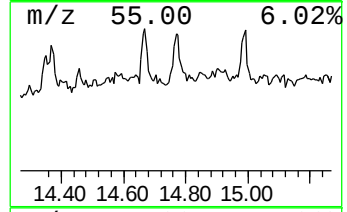
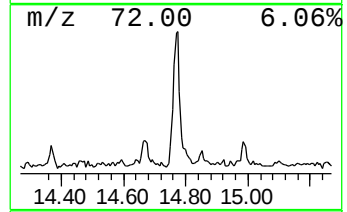
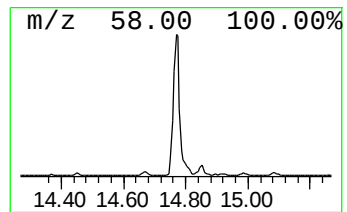
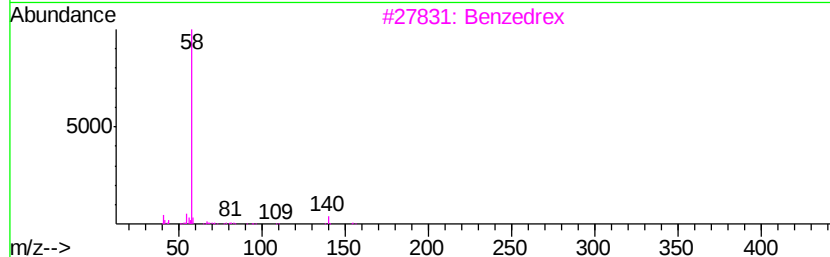
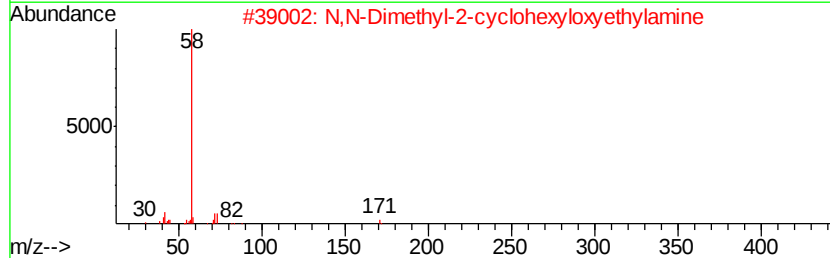
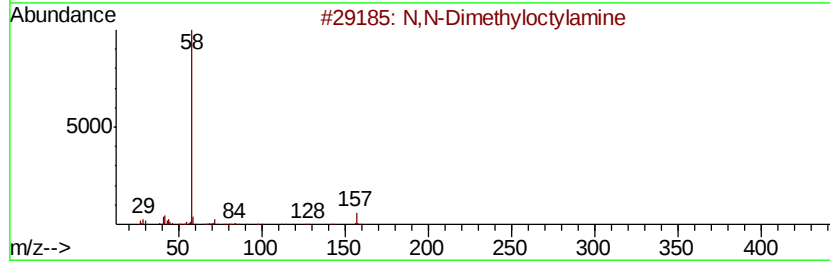
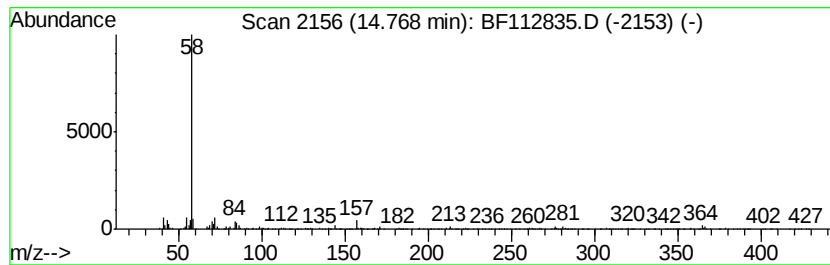
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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 19 N,N-Dimethyloctylamine Concentration Rank 6

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.           |
|---------|----------|-------------------------------------|------------------|----------------|
| 14.77   | 12.66 ng | 438102                              | Perylene-d12     | 15.30          |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |          | N,N-Dimethyloctylamine              | 157 C10H23N      | 007378-99-6 64 |
| 2       |          | N,N-Dimethyl-2-cyclohexyloxvethy... | 171 C10H21NO     | 071126-60-8 59 |
| 3       |          | Benzedrex                           | 155 C10H21N      | 000101-40-6 59 |
| 4       |          | 3-(Dimethylamino)propyl isothioc... | 144 C6H12N2S     | 027421-70-1 59 |
| 5       |          | Cyclopropane, (methoxymethyl)-      | 86 C5H10O        | 001003-13-0 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\  
Data File : BF112835.D  
Acq On : 4 Mar 2019 20:13  
Operator : JU/SJ  
Sample : K1688-13 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

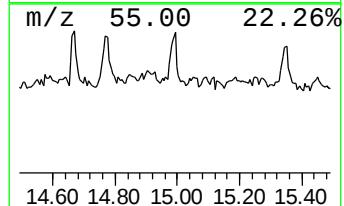
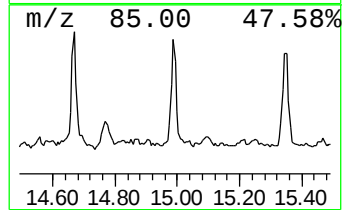
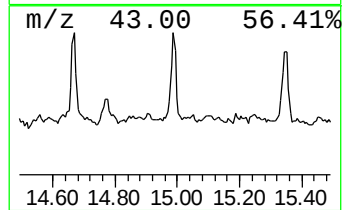
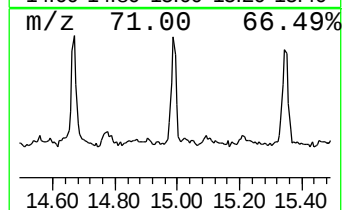
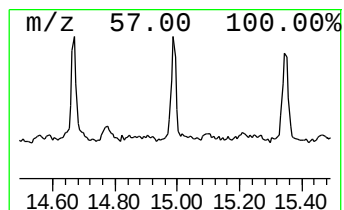
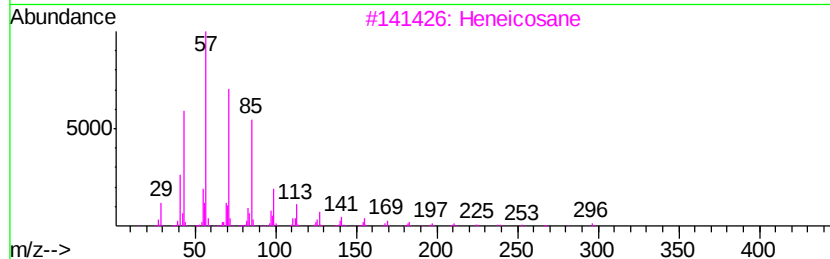
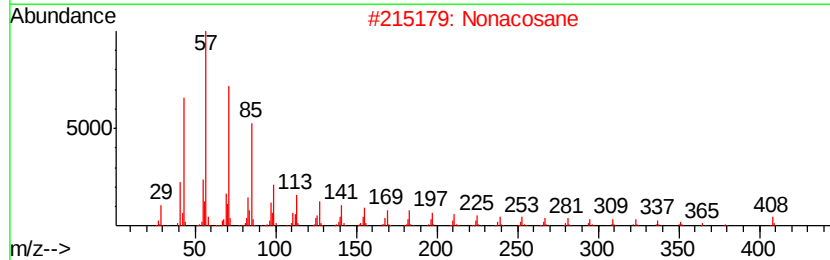
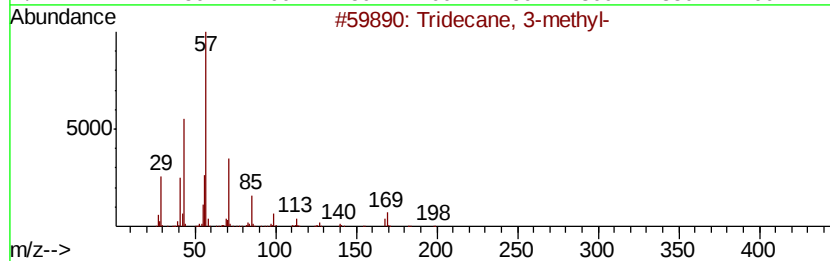
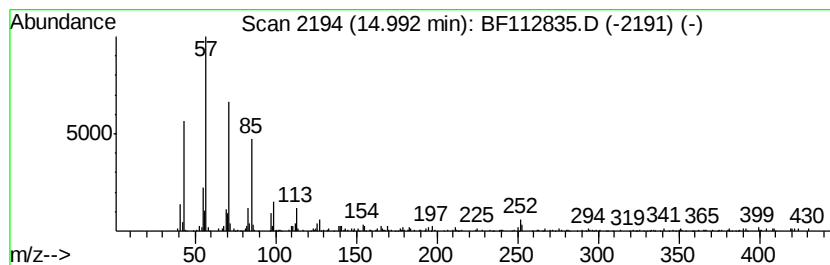
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 20 Tridecane, 3-methyl- Concentration Rank 8

| R.T.    | EstConc              | Area         | Relative to ISTD | R.T.      |
|---------|----------------------|--------------|------------------|-----------|
| 14.99   | 7.26 ng              | 251304       | Perylene-d12     | 15.30     |
| Hit# of | 5                    | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Tridecane, 3-methyl- | 198 C14H30   | 006418-41-3      | 93        |
| 2       | Nonacosane           | 408 C29H60   | 000630-03-5      | 90        |
| 3       | Heneicosane          | 296 C21H44   | 000629-94-7      | 87        |
| 4       | Docosane, 11-butyl-  | 366 C26H54   | 013475-76-8      | 87        |
| 5       | Tridecane, 2-methyl- | 198 C14H30   | 001560-96-9      | 87        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030419\  
 Data File : BF112835.D  
 Acq On : 4 Mar 2019 20:13  
 Operator : JU/SJ  
 Sample : K1688-13 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-030119-G

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 |
| unknown6.51          | 6.51  | 21.7    | ng    | 973428   | 1                     | 6.75  | 898427  | 20.0 |
| Tridecane            | 8.63  | 5.8     | ng    | 412104   | 2                     | 8.03  | 1414360 | 20.0 |
| Tetradecane          | 9.19  | 6.4     | ng    | 389947   | 3                     | 9.77  | 1214720 | 20.0 |
| Hexadecane           | 9.72  | 5.3     | ng    | 319843   | 3                     | 9.77  | 1214720 | 20.0 |
| Heptadecane          | 10.69 | 7.2     | ng    | 446565   | 4                     | 11.26 | 1238510 | 20.0 |
| Octadecane           | 11.14 | 4.6     | ng    | 283005   | 4                     | 11.26 | 1238510 | 20.0 |
| Nonadecane           | 11.56 | 3.9     | ng    | 242298   | 4                     | 11.26 | 1238510 | 20.0 |
| Hexadecanoic acid... | 11.66 | 42.1    | ng    | 2605850  | 4                     | 11.26 | 1238510 | 20.0 |
| 9,12-Octadecadien... | 12.35 | 99.8    | ng    | 6181490  | 4                     | 11.26 | 1238510 | 20.0 |
| 16-Octadecenoic a... | 12.37 | 123.2   | ng    | 7625840  | 4                     | 11.26 | 1238510 | 20.0 |
| Methyl 10-trans,1... | 12.69 | 7.5     | ng    | 442364   | 5                     | 13.89 | 1178860 | 20.0 |
| Santolina triene     | 13.03 | 5.7     | ng    | 335648   | 5                     | 13.89 | 1178860 | 20.0 |
| Cyclopropaneoctan... | 13.09 | 6.8     | ng    | 399301   | 5                     | 13.89 | 1178860 | 20.0 |
| Eicosanoic acid, ... | 13.17 | 4.1     | ng    | 241517   | 5                     | 13.89 | 1178860 | 20.0 |
| Tetracosane          | 14.67 | 5.7     | ng    | 196692   | 6                     | 15.30 | 692115  | 20.0 |
| N,N-Dimethyloctyl... | 14.77 | 12.7    | ng    | 438102   | 6                     | 15.30 | 692115  | 20.0 |
| Tridecane, 3-methyl- | 14.99 | 7.3     | ng    | 251304   | 6                     | 15.30 | 692115  | 20.0 |