

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF011019\  
 Data File : BF111989.D  
 Acq On : 10 Jan 2019 16:06  
 Operator : JU/SJ  
 Sample : K1015-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-010918-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-BF010719.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         | 5.092       | 505           | 511         | 517          | rBV      | 124465         | 146003        | 1.03%           | 0.197%        |
| 2         | 5.510       | 577           | 582         | 585          | rBV      | 2829684        | 2587974       | 18.18%          | 3.486%        |
| 3         | 6.516       | 748           | 753         | 756          | rBV      | 2654038        | 2498142       | 17.55%          | 3.365%        |
| 4         | 6.651       | 771           | 776         | 779          | rBV      | 2797301        | 2540846       | 17.85%          | 3.423%        |
| 5         | 6.698       | 781           | 784         | 794          | rVB      | 196209         | 172283        | 1.21%           | 0.232%        |
| 6         | 6.875       | 810           | 814         | 822          | rBV      | 869864         | 713933        | 5.02%           | 0.962%        |
| 7         | 7.034       | 836           | 841         | 844          | rBV      | 2174053        | 1852203       | 13.01%          | 2.495%        |
| 8         | 7.433       | 900           | 909         | 912          | rBV      | 1675586        | 1566207       | 11.00%          | 2.110%        |
| 9         | 8.157       | 1026          | 1032        | 1035         | rBV      | 1067979        | 1050604       | 7.38%           | 1.415%        |
| 10        | 8.751       | 1129          | 1133        | 1137         | rBV      | 355741         | 317399        | 2.23%           | 0.428%        |
| 11        | 8.980       | 1166          | 1172        | 1174         | rBV2     | 124655         | 144731        | 1.02%           | 0.195%        |
| 12        | 9.233       | 1210          | 1215        | 1218         | rBV      | 2673087        | 2347009       | 16.49%          | 3.162%        |
| 13        | 9.316       | 1225          | 1229        | 1232         | rBV      | 442941         | 435277        | 3.06%           | 0.586%        |
| 14        | 9.622       | 1278          | 1281        | 1285         | rBV2     | 558576         | 592206        | 4.16%           | 0.798%        |
| 15        | 9.845       | 1315          | 1319        | 1323         | rVB      | 515035         | 445114        | 3.13%           | 0.600%        |
| 16        | 9.910       | 1327          | 1330        | 1334         | rVB      | 867294         | 858174        | 6.03%           | 1.156%        |
| 17        | 10.163      | 1370          | 1373        | 1377         | rBV4     | 134755         | 183224        | 1.29%           | 0.247%        |
| 18        | 10.345      | 1397          | 1404        | 1406         | rBV      | 651246         | 648415        | 4.56%           | 0.873%        |
| 19        | 10.457      | 1419          | 1423        | 1430         | rBV2     | 110782         | 195952        | 1.38%           | 0.264%        |
| 20        | 10.563      | 1436          | 1441        | 1447         | rBV      | 211545         | 312137        | 2.19%           | 0.420%        |
| 21        | 10.704      | 1459          | 1465        | 1468         | rBV      | 1788170        | 1717630       | 12.07%          | 2.314%        |
| 22        | 10.816      | 1481          | 1484        | 1491         | rBV      | 697776         | 713425        | 5.01%           | 0.961%        |
| 23        | 11.263      | 1557          | 1560        | 1563         | rBV      | 555825         | 449146        | 3.16%           | 0.605%        |
| 24        | 11.292      | 1563          | 1565        | 1571         | rVB      | 252646         | 281104        | 1.97%           | 0.379%        |
| 25        | 11.398      | 1580          | 1583        | 1585         | rBV      | 998752         | 873460        | 6.14%           | 1.177%        |
| 26        | 11.421      | 1585          | 1587        | 1593         | rVV      | 1017296        | 896924        | 6.30%           | 1.208%        |
| 27        | 11.474      | 1593          | 1596        | 1599         | rVB      | 272279         | 236276        | 1.66%           | 0.318%        |
| 28        | 11.692      | 1630          | 1633        | 1635         | rBV      | 462708         | 429879        | 3.02%           | 0.579%        |
| 29        | 11.710      | 1635          | 1636        | 1639         | rVB      | 237913         | 152189        | 1.07%           | 0.205%        |
| 30        | 11.792      | 1646          | 1650        | 1653         | rBV      | 6154104        | 5567839       | 39.11%          | 7.500%        |
| 31        | 11.927      | 1670          | 1673        | 1676         | rBV2     | 297756         | 238620        | 1.68%           | 0.321%        |
| 32        | 12.016      | 1684          | 1688        | 1690         | rBV2     | 154337         | 163760        | 1.15%           | 0.221%        |
| 33        | 12.098      | 1696          | 1702        | 1707         | rBV      | 398713         | 430797        | 3.03%           | 0.580%        |
| 34        | 12.492      | 1762          | 1769        | 1770         | rBV      | 9730331        | 13201965      | 92.75%          | 17.784%       |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF010719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |          |          |         |         |
|----|--------|------|------|------|------|----------|----------|---------|---------|
| 35 | 12.515 | 1770 | 1773 | 1778 | rVV2 | 11662924 | 14234650 | 100.00% | 19.175% |
| 36 | 12.551 | 1778 | 1779 | 1781 | rVB  | 280794   | 155540   | 1.09%   | 0.210%  |
| 37 | 12.586 | 1781 | 1785 | 1787 | rBV  | 2336079  | 2121103  | 14.90%  | 2.857%  |
| 38 | 12.615 | 1787 | 1790 | 1793 | rBV  | 1586581  | 1331150  | 9.35%   | 1.793%  |
| 39 | 12.815 | 1821 | 1824 | 1826 | rBV  | 343676   | 390885   | 2.75%   | 0.527%  |
| 40 | 12.845 | 1826 | 1829 | 1836 | rVB  | 1088239  | 1193871  | 8.39%   | 1.608%  |
| 41 | 12.986 | 1847 | 1853 | 1856 | rBV  | 2001898  | 1744639  | 12.26%  | 2.350%  |
| 42 | 13.139 | 1877 | 1879 | 1882 | rBV3 | 243230   | 284672   | 2.00%   | 0.383%  |
| 43 | 13.168 | 1882 | 1884 | 1889 | rVV  | 169122   | 240467   | 1.69%   | 0.324%  |
| 44 | 13.227 | 1889 | 1894 | 1899 | rVB3 | 431980   | 649184   | 4.56%   | 0.874%  |
| 45 | 13.304 | 1904 | 1907 | 1910 | rVB  | 319803   | 270104   | 1.90%   | 0.364%  |
| 46 | 13.463 | 1932 | 1934 | 1942 | rVB4 | 100567   | 150697   | 1.06%   | 0.203%  |
| 47 | 13.557 | 1947 | 1950 | 1955 | rBV  | 160405   | 166256   | 1.17%   | 0.224%  |
| 48 | 13.674 | 1967 | 1970 | 1976 | rVB  | 151552   | 179918   | 1.26%   | 0.242%  |
| 49 | 13.792 | 1986 | 1990 | 1992 | rVV2 | 108469   | 148408   | 1.04%   | 0.200%  |
| 50 | 13.880 | 2002 | 2005 | 2009 | rVB3 | 363194   | 391024   | 2.75%   | 0.527%  |
| 51 | 13.974 | 2018 | 2021 | 2025 | rVB  | 310150   | 285367   | 2.00%   | 0.384%  |
| 52 | 14.039 | 2027 | 2032 | 2035 | rBV2 | 1030741  | 1413704  | 9.93%   | 1.904%  |
| 53 | 14.068 | 2035 | 2037 | 2040 | rVB  | 458980   | 364025   | 2.56%   | 0.490%  |
| 54 | 14.198 | 2054 | 2059 | 2062 | rBV2 | 189804   | 272985   | 1.92%   | 0.368%  |
| 55 | 14.492 | 2103 | 2109 | 2110 | rBV3 | 271501   | 378826   | 2.66%   | 0.510%  |
| 56 | 14.933 | 2180 | 2184 | 2188 | rVB  | 383533   | 514559   | 3.61%   | 0.693%  |
| 57 | 15.092 | 2207 | 2211 | 2214 | rBV  | 368662   | 573237   | 4.03%   | 0.772%  |
| 58 | 15.156 | 2219 | 2222 | 2226 | rVB2 | 153082   | 216739   | 1.52%   | 0.292%  |
| 59 | 15.398 | 2260 | 2263 | 2269 | rVB  | 196224   | 251865   | 1.77%   | 0.339%  |
| 60 | 15.462 | 2270 | 2274 | 2280 | rVB  | 289025   | 358828   | 2.52%   | 0.483%  |
| 61 | 15.527 | 2280 | 2285 | 2288 | rBV  | 493001   | 756395   | 5.31%   | 1.019%  |
| 62 | 17.003 | 2533 | 2536 | 2545 | rVB3 | 105331   | 235807   | 1.66%   | 0.318%  |

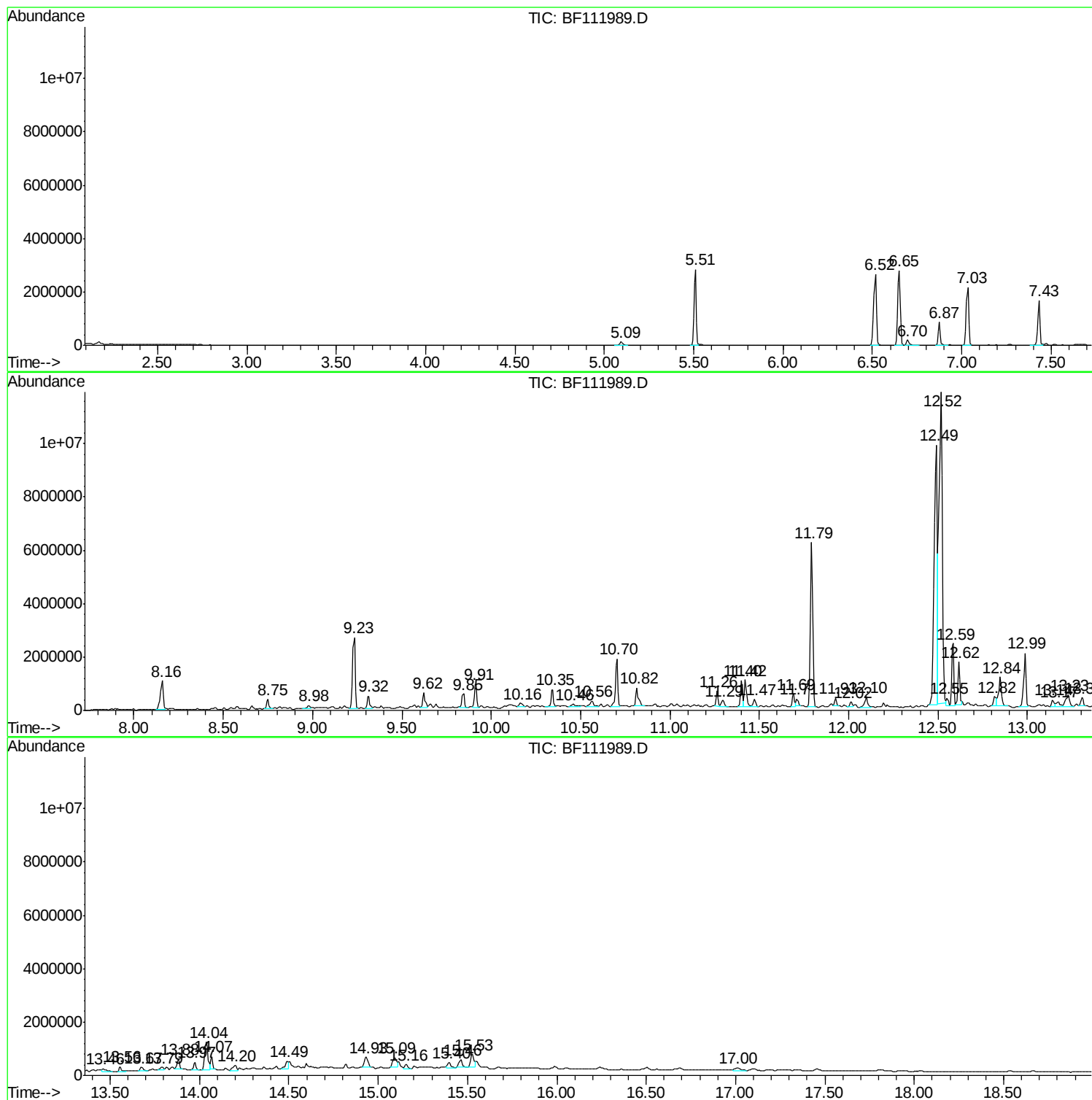
Sum of corrected areas: 74235752

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.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\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

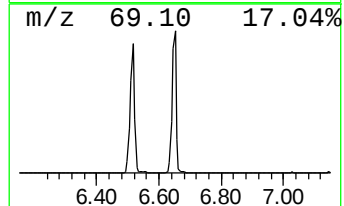
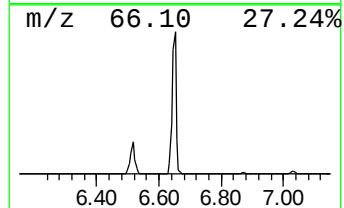
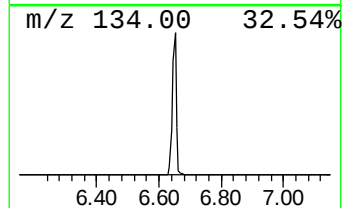
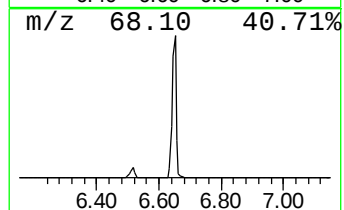
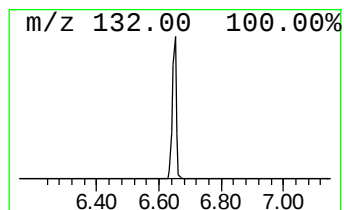
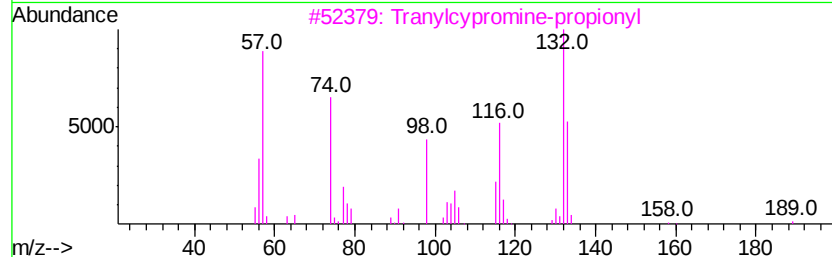
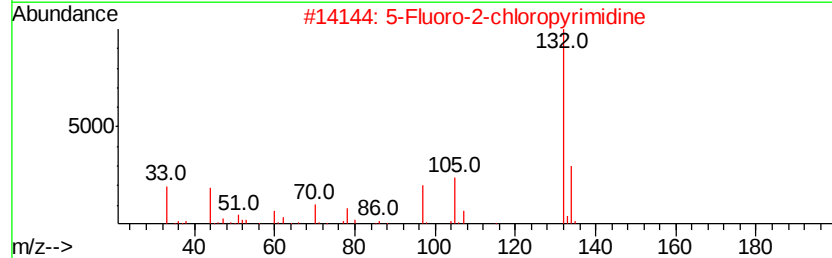
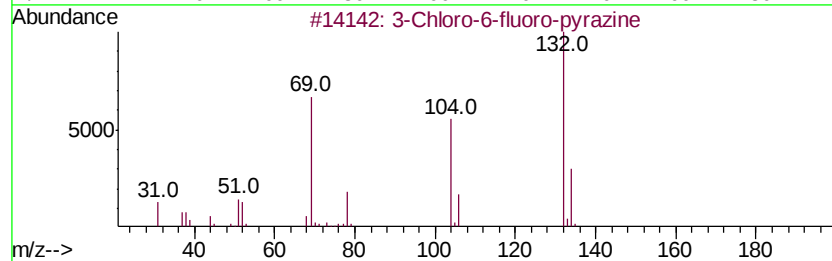
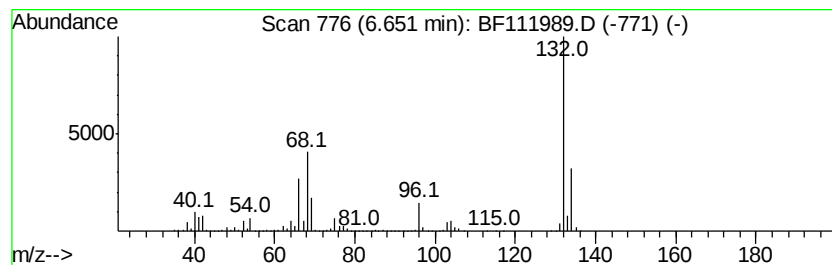
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 unknown6.65 Concentration Rank 4

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.65 | 71.18 ng | 2540850 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

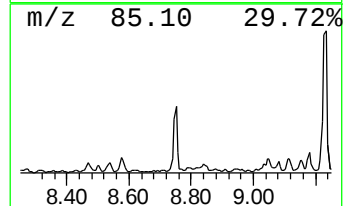
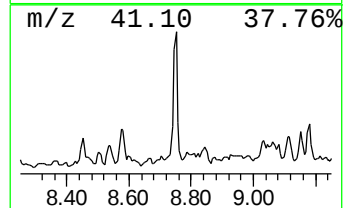
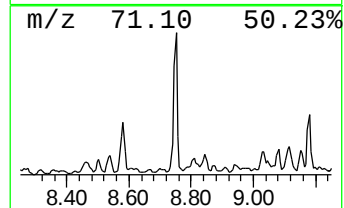
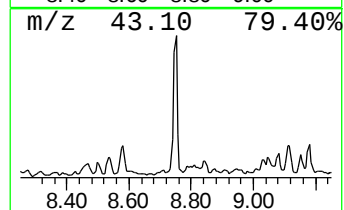
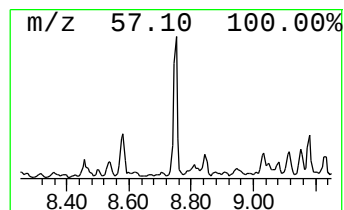
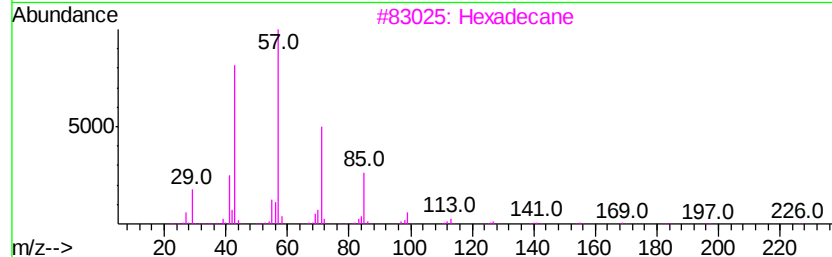
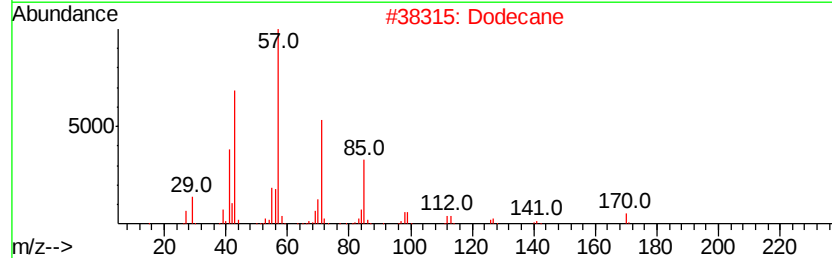
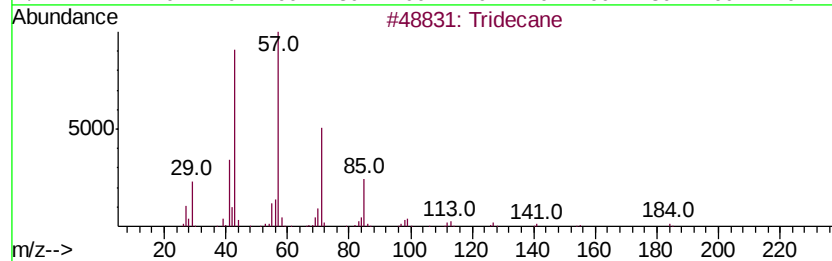
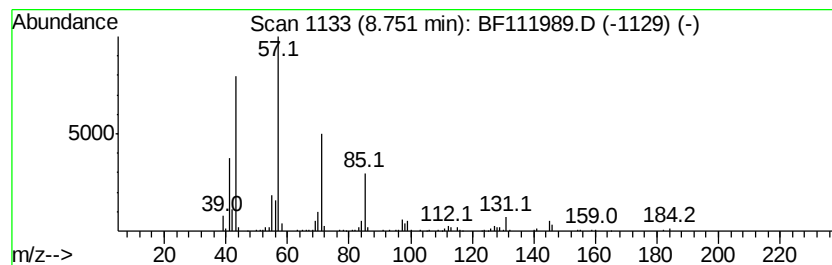
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Tridecane Concentration Rank 18

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.75 | 6.04 ng | 317399 | Naphthalene-d8   | 8.16 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------|--------------|-----|---------|-------------|------|
| 1       | Tridecane            |              | 184 | C13H28  | 000629-50-5 | 95   |
| 2       | Dodecane             |              | 170 | C12H26  | 000112-40-3 | 80   |
| 3       | Hexadecane           |              | 226 | C16H34  | 000544-76-3 | 72   |
| 4       | Tetradecane          |              | 198 | C14H30  | 000629-59-4 | 72   |
| 5       | Eicosane, 10-methyl- |              | 296 | C21H44  | 054833-23-7 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
 Data File : BF111989.D  
 Acq On : 10 Jan 2019 16:06  
 Operator : JU/SJ  
 Sample : K1015-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

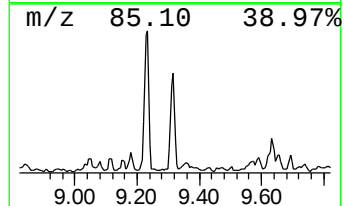
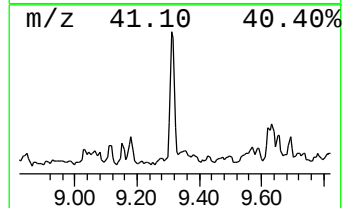
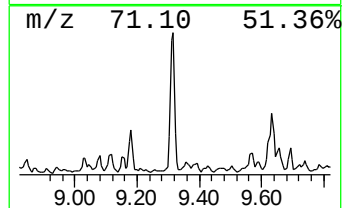
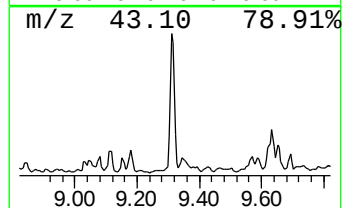
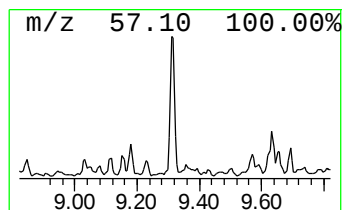
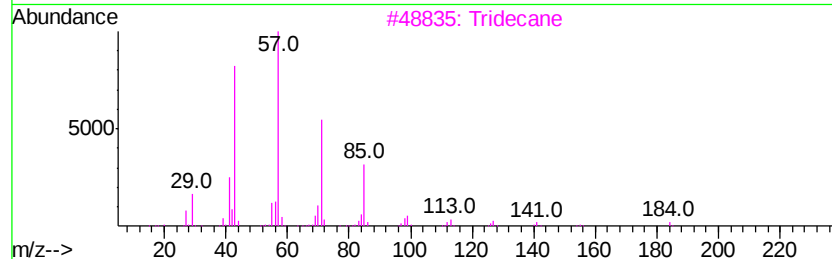
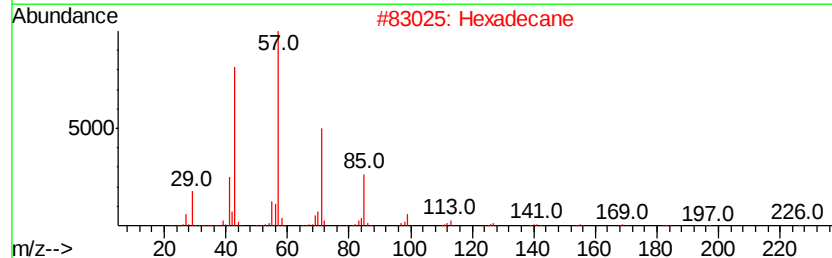
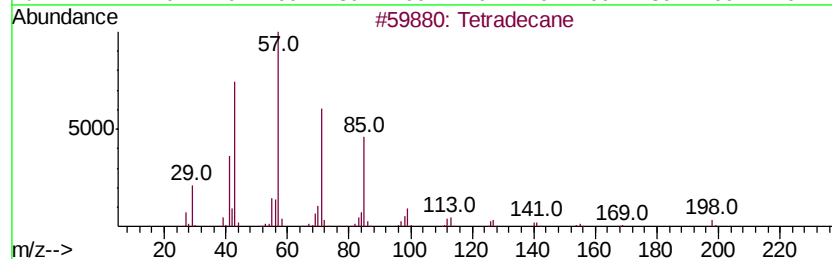
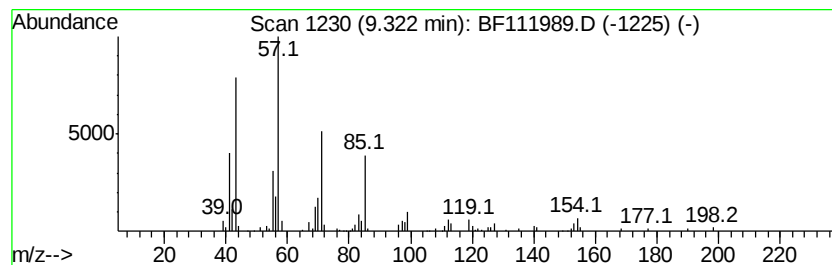
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.32 | 10.14 ng | 435277 | Acenaphthene-d10 | 9.91 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane                  | 198 | C14H30  | 000629-59-4 | 97   |
| 2    |    | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    | Tridecane                    | 184 | C13H28  | 000629-50-5 | 90   |
| 4    |    | Undecane                     | 156 | C11H24  | 001120-21-4 | 86   |
| 5    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 78   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

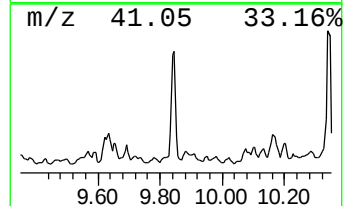
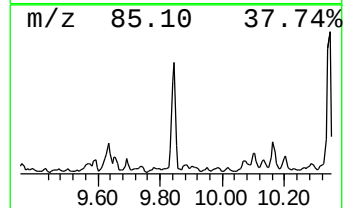
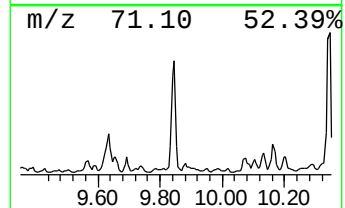
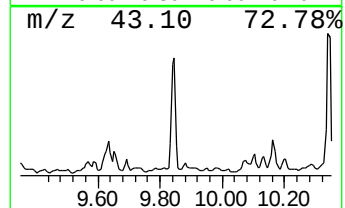
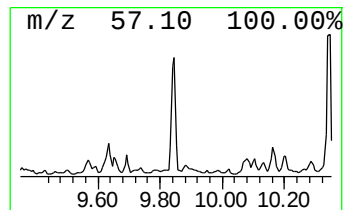
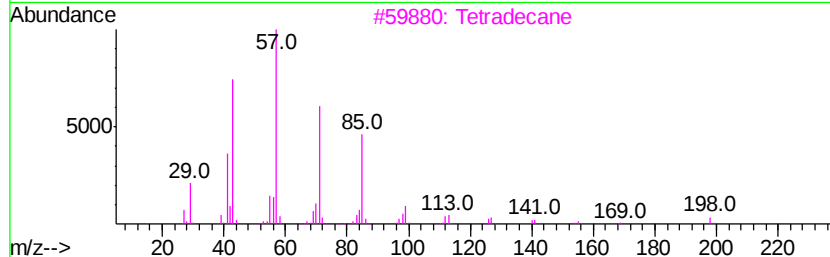
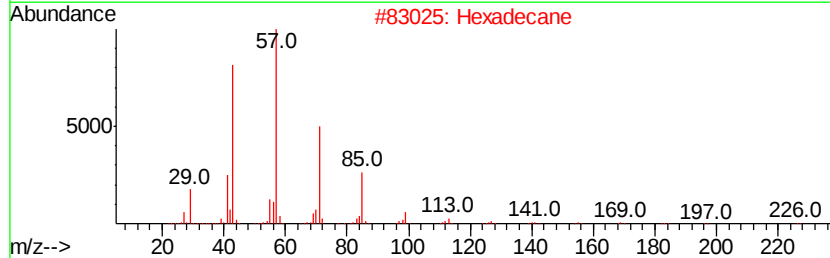
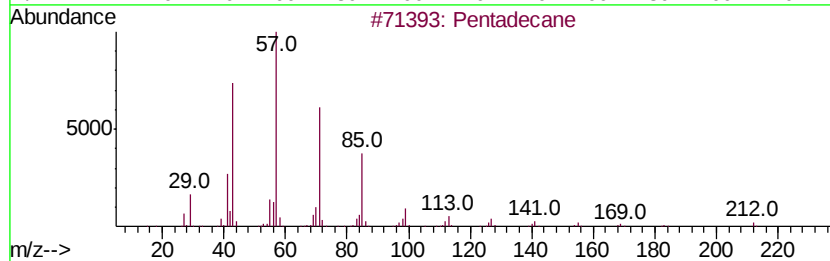
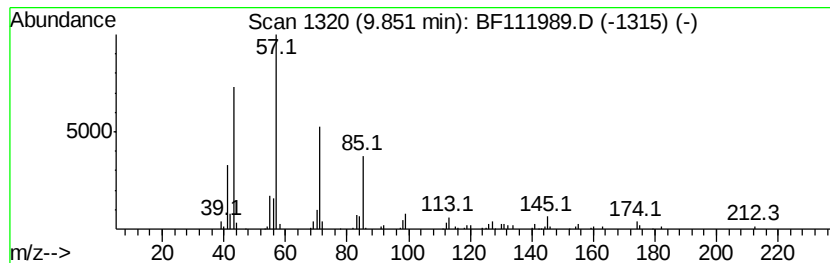
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Pentadecane Concentration Rank 9

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.85 | 10.37 ng | 445114 | Acenaphthene-d10 | 9.91 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 94   |
| 2       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 90   |
| 3       | Tetradecane |              | 198 | C14H30  | 000629-59-4 | 90   |
| 4       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 80   |
| 5       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

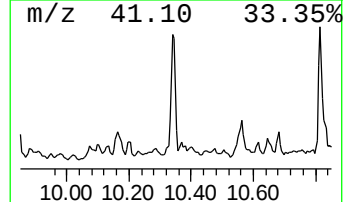
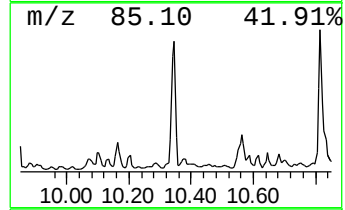
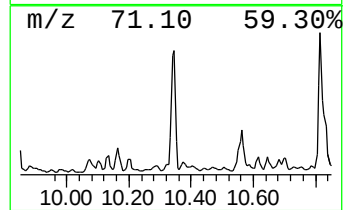
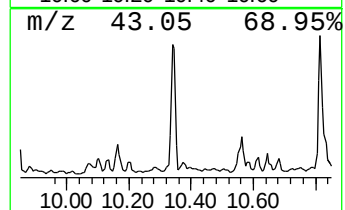
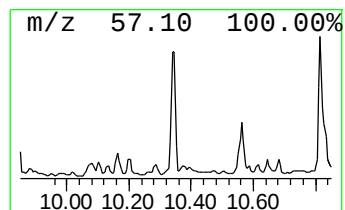
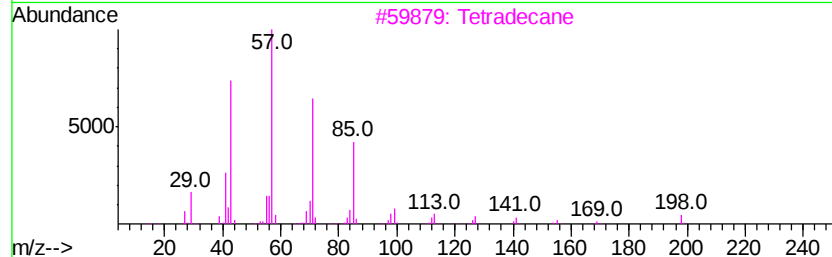
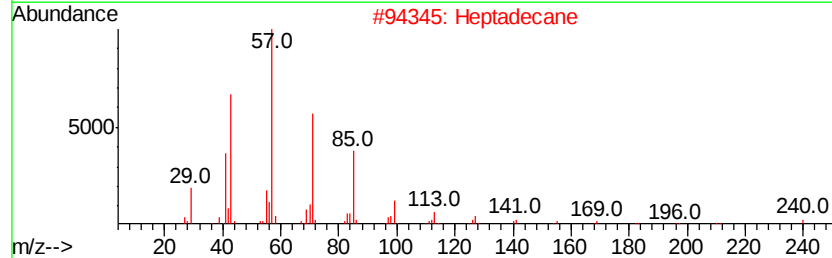
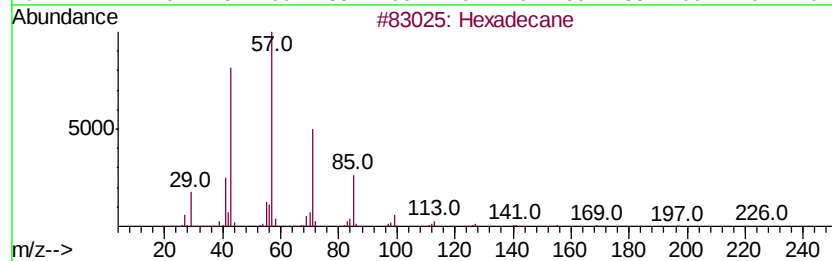
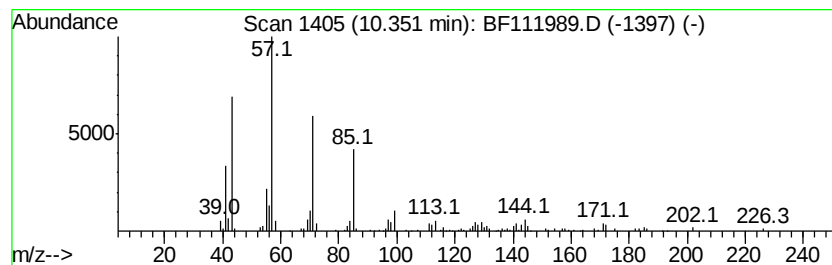
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Hexadecane Concentration Rank 7

| R.T.    | EstConc                      | Area         | Relative to ISTD |         | R.T.        |      |
|---------|------------------------------|--------------|------------------|---------|-------------|------|
| 10.35   | 15.11 ng                     | 648415       | Acenaphthene-d10 |         | 9.91        |      |
| Hit# of | 5                            | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | Hexadecane                   |              | 226              | C16H34  | 000544-76-3 | 96   |
| 2       | Heptadecane                  |              | 240              | C17H36  | 000629-78-7 | 90   |
| 3       | Tetradecane                  |              | 198              | C14H30  | 000629-59-4 | 90   |
| 4       | Dodecane, 2-methyl-6-propyl- |              | 226              | C16H34  | 055045-08-4 | 86   |
| 5       | Tridecane                    |              | 184              | C13H28  | 000629-50-5 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

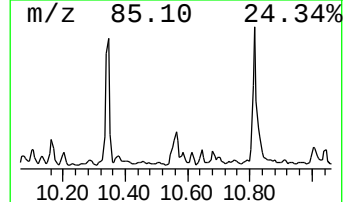
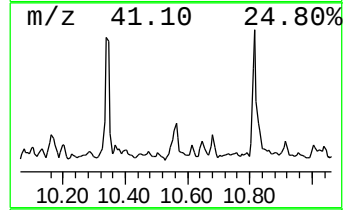
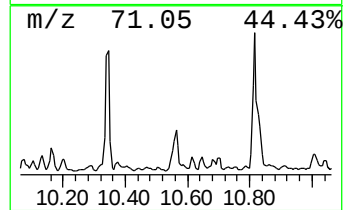
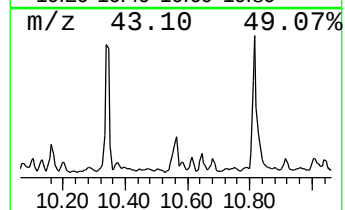
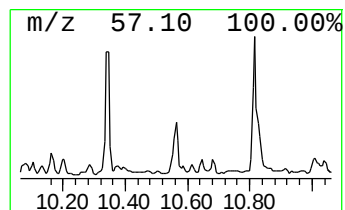
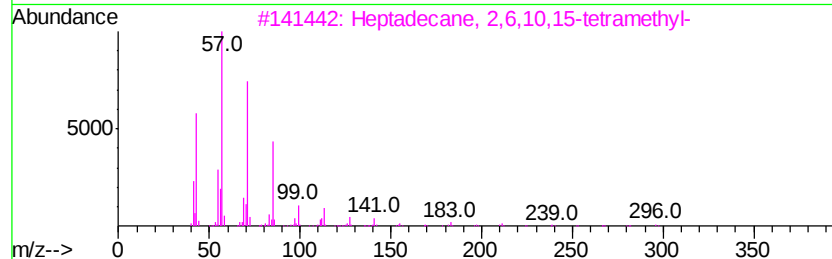
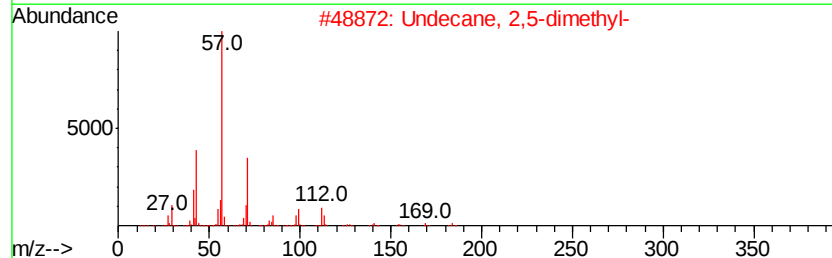
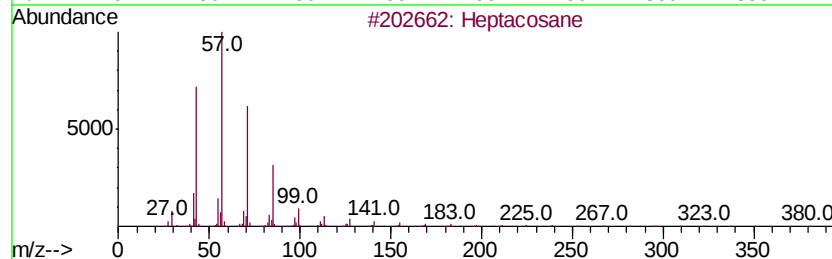
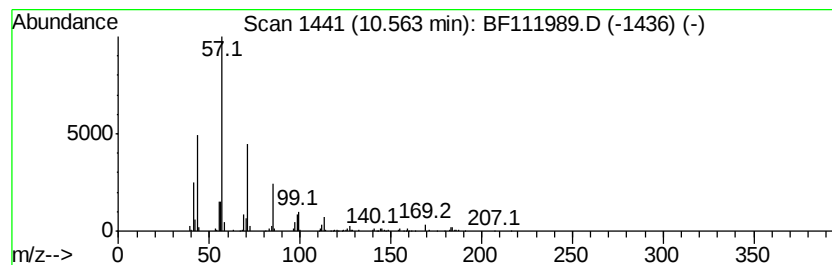
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Heptacosane Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.56 | 7.27 ng | 312137 | Acenaphthene-d10 | 9.91 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane                         | 380 | C27H56  | 000593-49-7 | 86   |
| 2    |    | Undecane, 2,5-dimethyl-             | 184 | C13H28  | 017301-22-3 | 76   |
| 3    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 72   |
| 4    |    | Tridecane, 7-hexyl-                 | 268 | C19H40  | 007225-66-3 | 64   |
| 5    |    | Dodecane, 1-iodo-                   | 296 | C12H25I | 004292-19-7 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

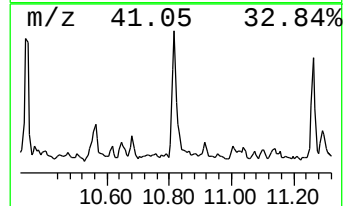
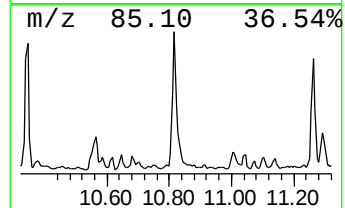
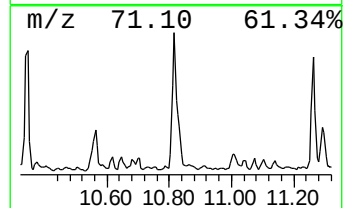
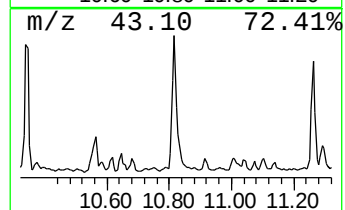
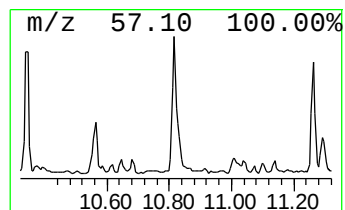
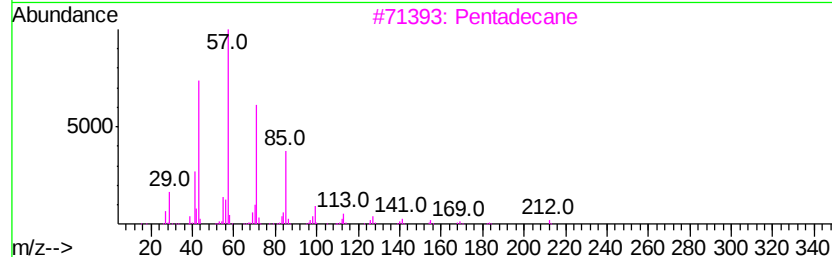
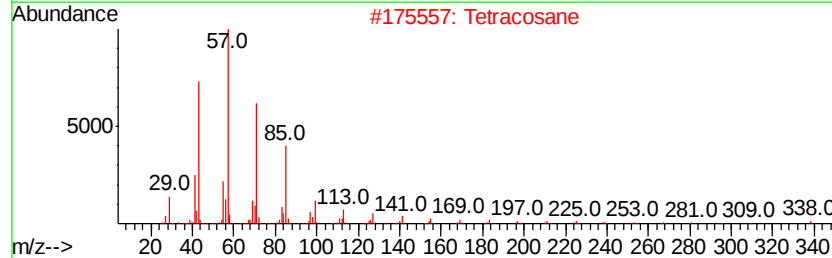
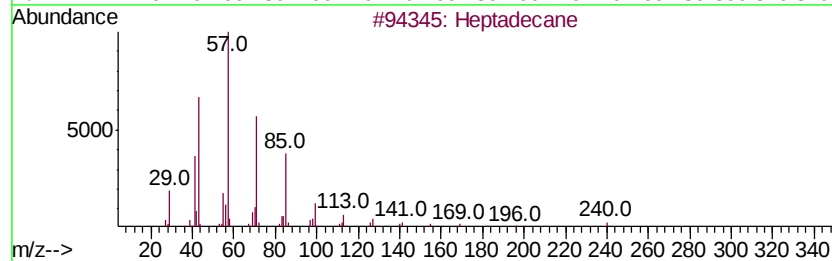
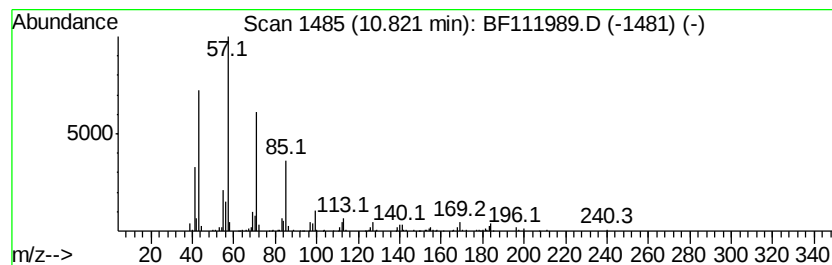
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Heptadecane Concentration Rank 6

| R.T.      | EstConc            | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------------|--------|------------------|-------------|-------|
| 10.82     | 16.34 ng           | 713425 | Phenanthrene-d10 |             | 11.40 |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#        | Qual  |
| 1         | Heptadecane        | 240    | C17H36           | 000629-78-7 | 97    |
| 2         | Tetracosane        | 338    | C24H50           | 000646-31-1 | 91    |
| 3         | Pentadecane        | 212    | C15H32           | 000629-62-9 | 91    |
| 4         | Undecane, 6-ethyl- | 184    | C13H28           | 017312-60-6 | 90    |
| 5         | Nonane, 5-butyl-   | 184    | C13H28           | 017312-63-9 | 90    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

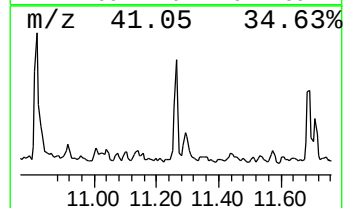
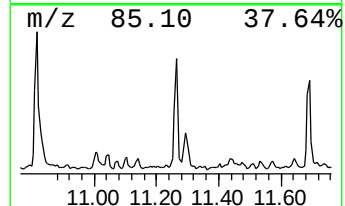
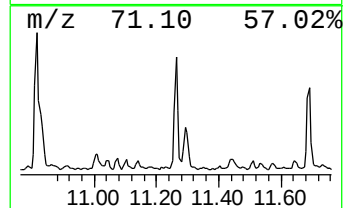
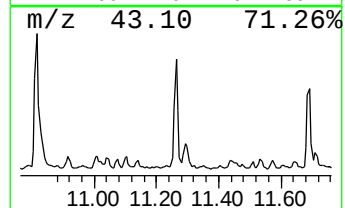
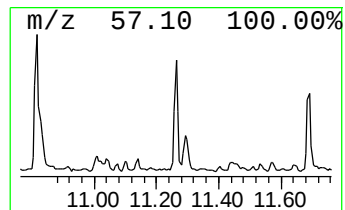
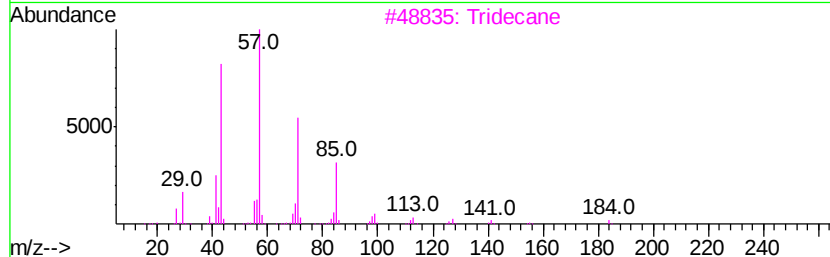
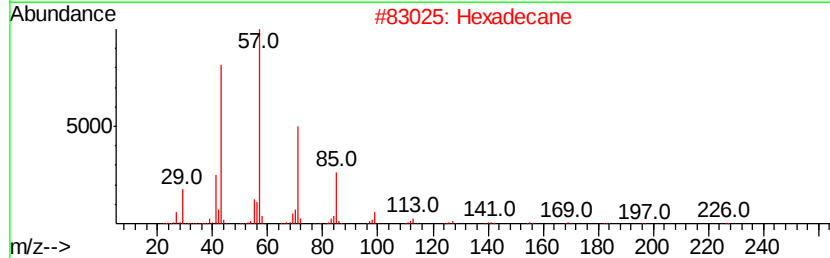
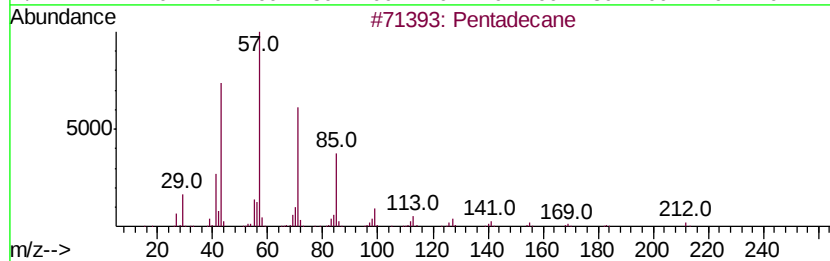
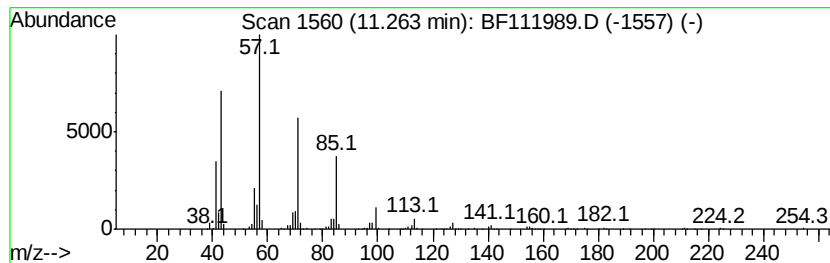
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 9 Pentadecane Concentration Rank 10

| R.T.      | EstConc                | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------|--------|------------------|-------------|------|
| 11.26     | 10.28 ng               | 449146 | Phenanthrene-d10 | 11.40       |      |
| Hit# of 5 | Tentative ID           | MW     | MolForm          | CAS#        | Qual |
| 1         | Pentadecane            | 212    | C15H32           | 000629-62-9 | 91   |
| 2         | Hexadecane             | 226    | C16H34           | 000544-76-3 | 90   |
| 3         | Tridecane              | 184    | C13H28           | 000629-50-5 | 86   |
| 4         | Tetradecane            | 198    | C14H30           | 000629-59-4 | 86   |
| 5         | Heptadecane, 8-methyl- | 254    | C18H38           | 013287-23-5 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

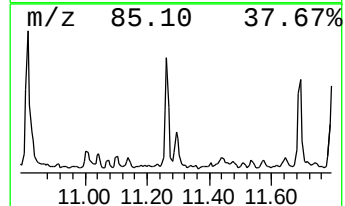
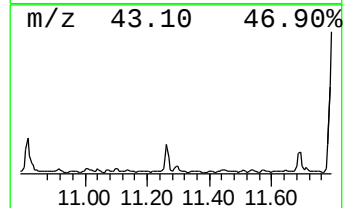
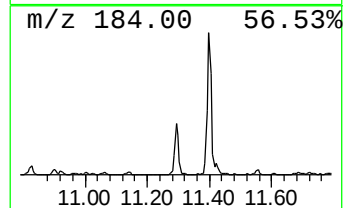
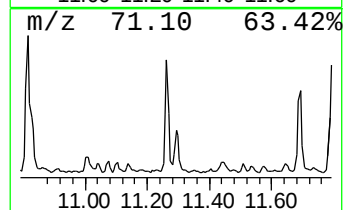
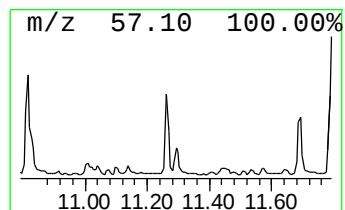
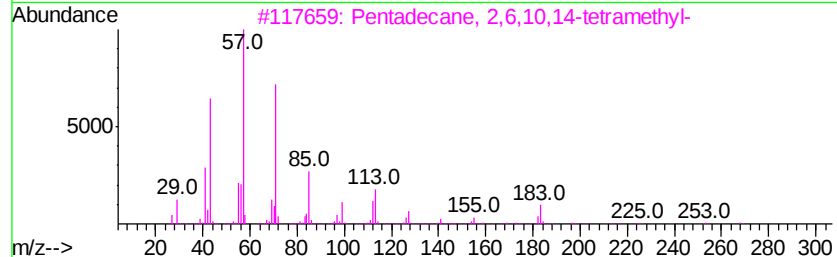
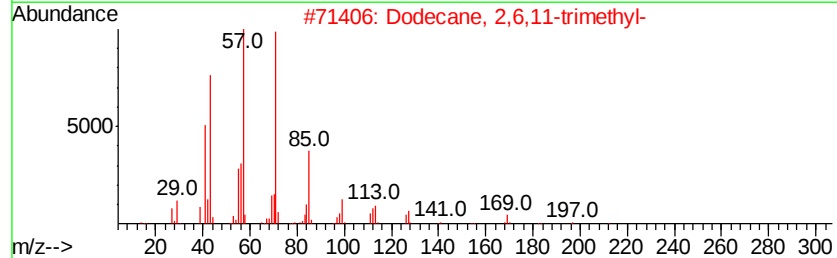
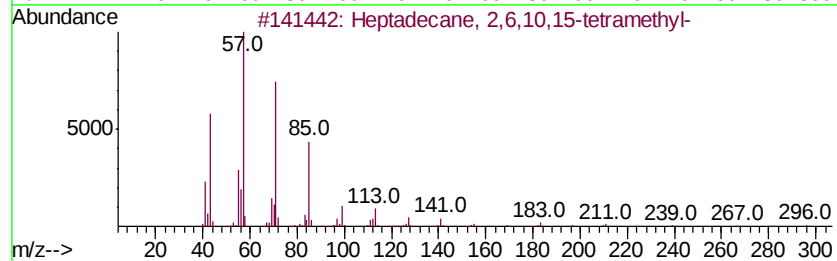
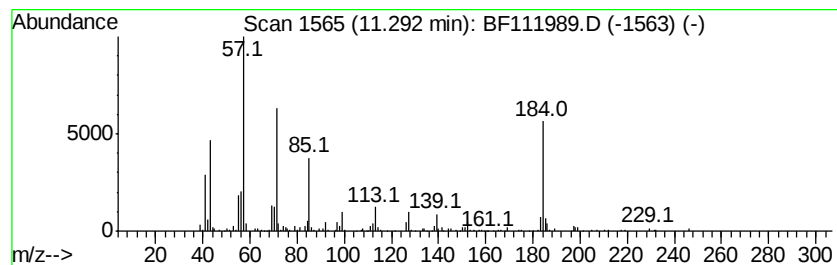
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Heptadecane, 2,6,10,15-tetr... Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.29 | 6.44 ng | 281104 | Phenanthrene-d10 | 11.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 62   |
| 2    |    | Dodecane, 2,6,11-trimethyl-         | 212 | C15H32  | 031295-56-4 | 55   |
| 3    |    | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40  | 001921-70-6 | 52   |
| 4    |    | Hexadecane, 2-methyl-               | 240 | C17H36  | 001560-92-5 | 52   |
| 5    |    | Nonane, 3-methyl-                   | 142 | C10H22  | 005911-04-6 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

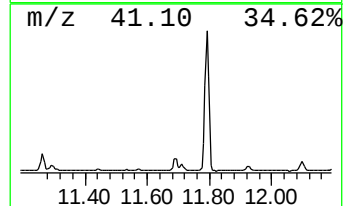
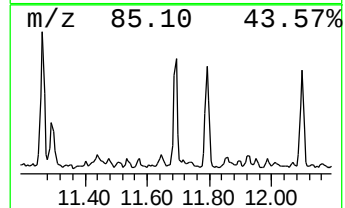
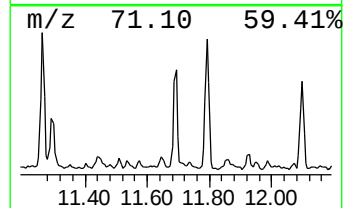
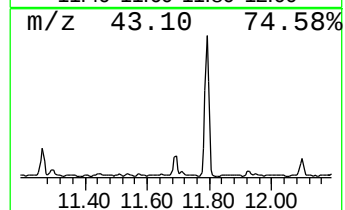
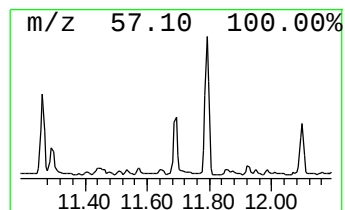
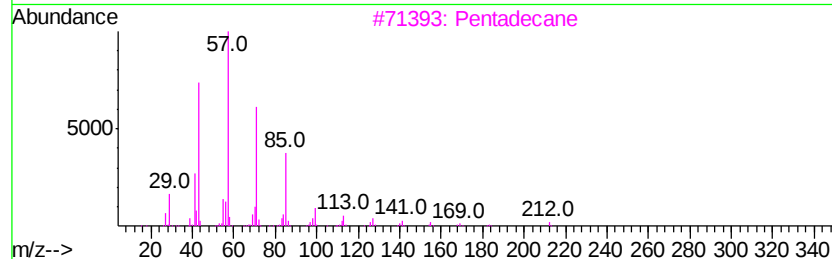
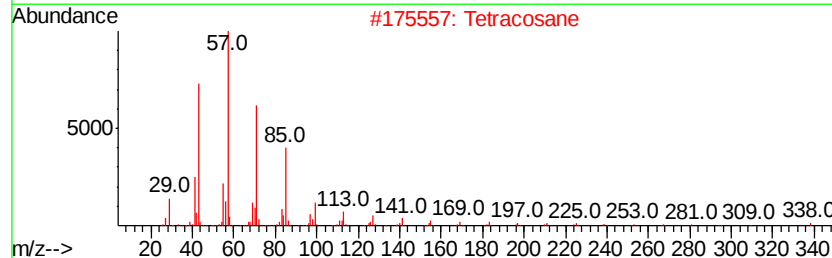
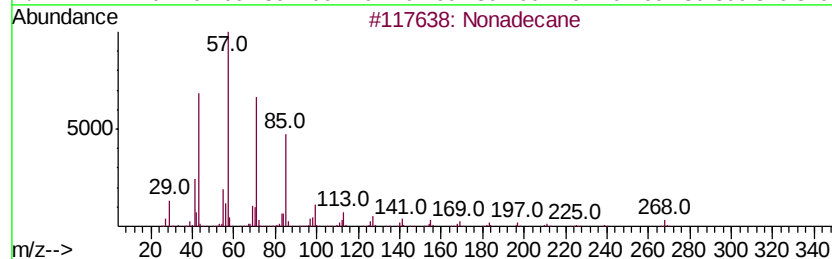
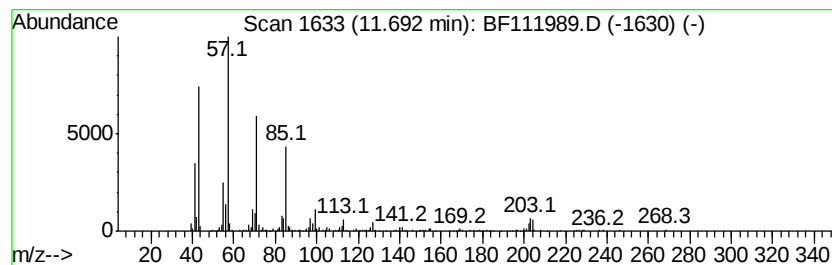
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Nonadecane Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.69 | 9.84 ng | 429879 | Phenanthrene-d10 | 11.40 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Nonadecane   | 268 | C19H40  | 000629-92-5 | 94   |
| 2    |    |   | Tetracosane  | 338 | C24H50  | 000646-31-1 | 87   |
| 3    |    |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 87   |
| 4    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 86   |
| 5    |    |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

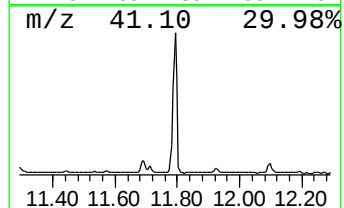
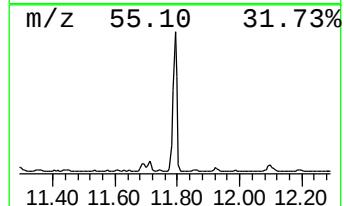
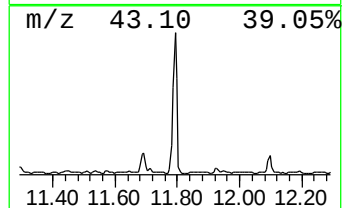
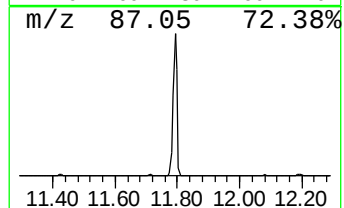
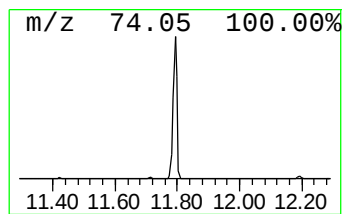
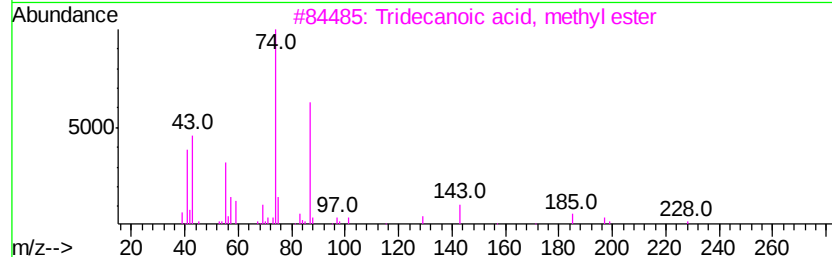
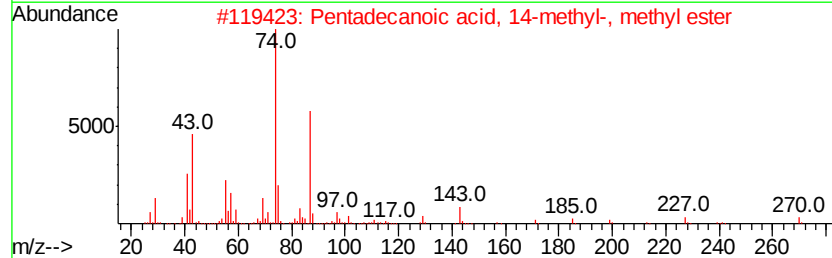
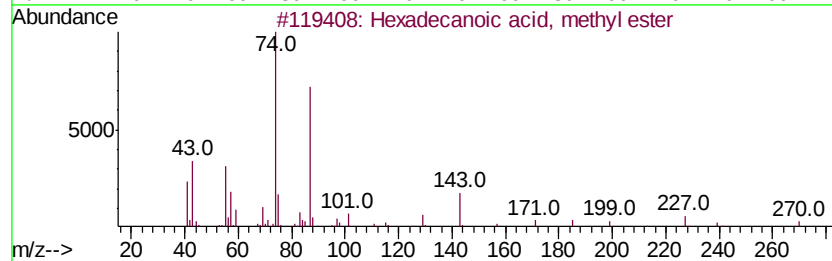
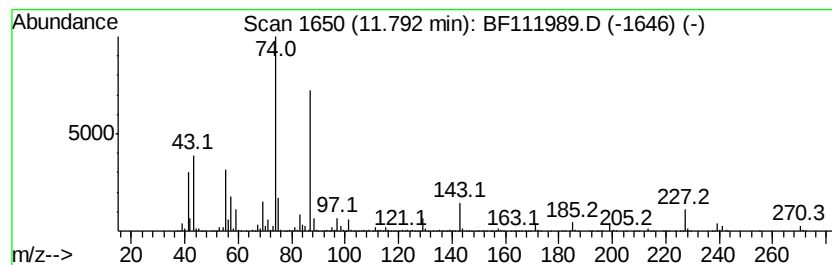
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 11.79 | 127.49 ng | 5567840 | Phenanthrene-d10 | 11.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0  | 98   |
| 2    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2  | 98   |
| 3    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0  | 87   |
| 4    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1  | 86   |
| 5    |    | Methyl 11-methyl-dodecanoate        | 228 | C14H28O2 | 1000336-45-1 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

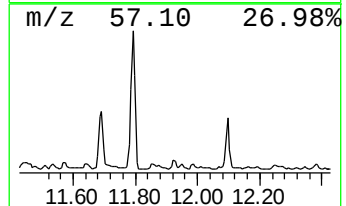
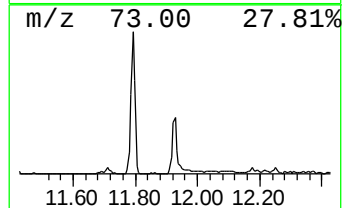
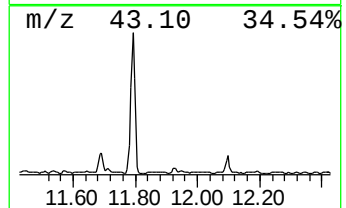
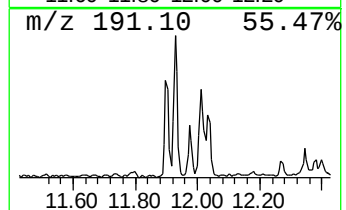
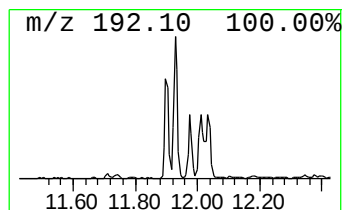
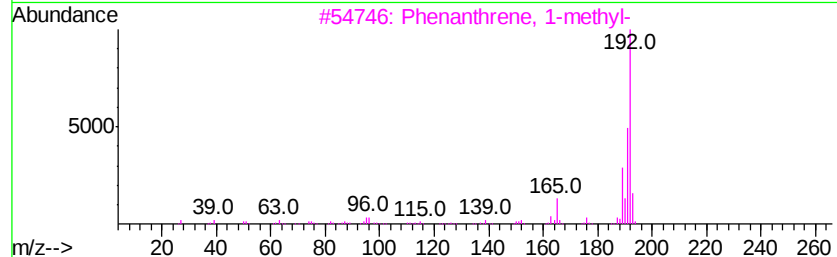
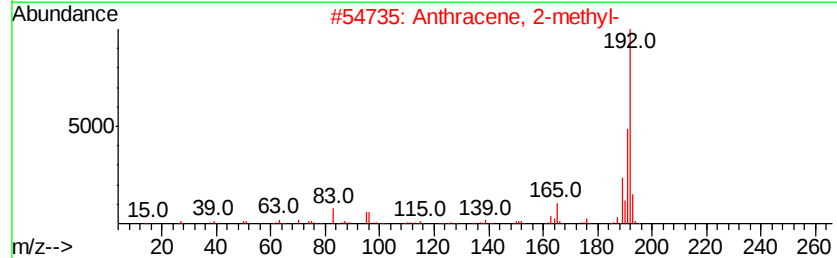
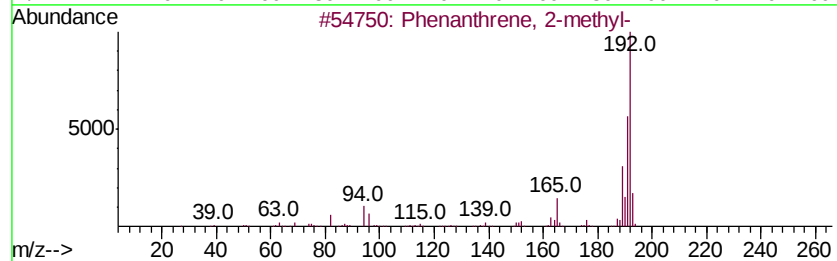
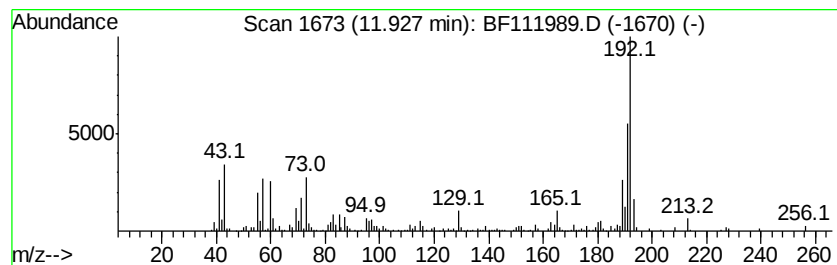
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Phenanthrene, 2-methyl- Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.93 | 5.46 ng | 238620 | Phenanthrene-d10 | 11.40 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 97   |
| 2    |    |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 96   |
| 3    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 96   |
| 4    |    |   | Phenanthrene, 3-methyl- | 192 | C15H12  | 000832-71-3 | 92   |
| 5    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 92   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

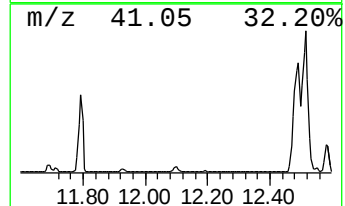
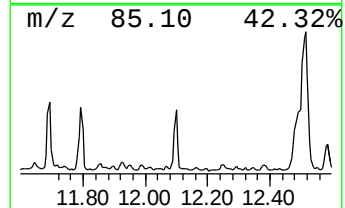
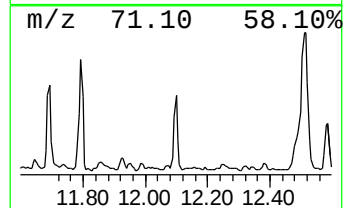
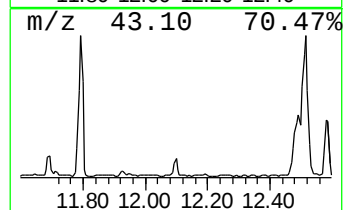
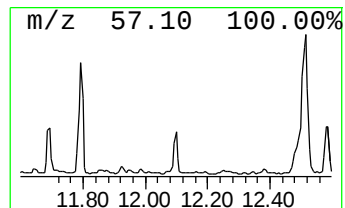
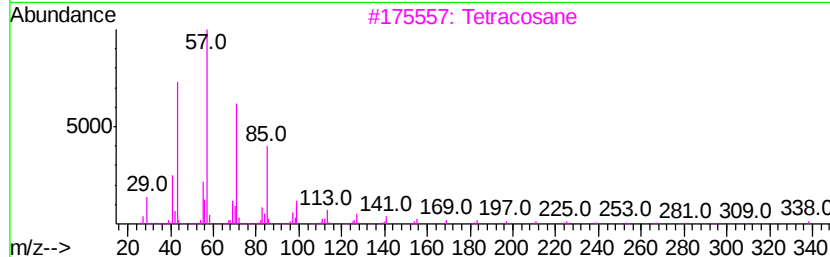
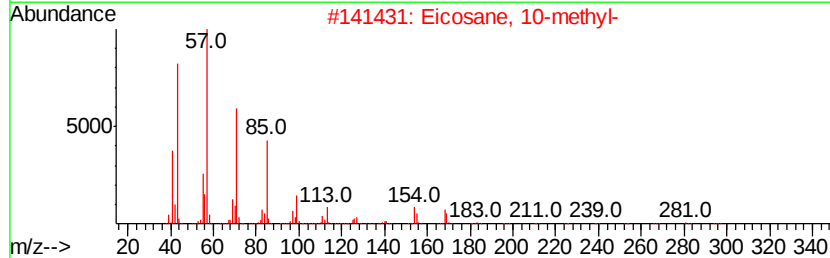
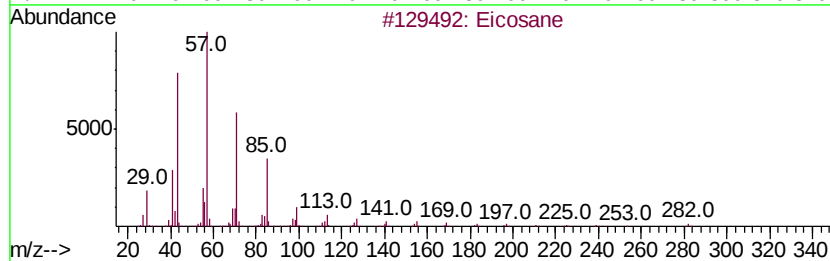
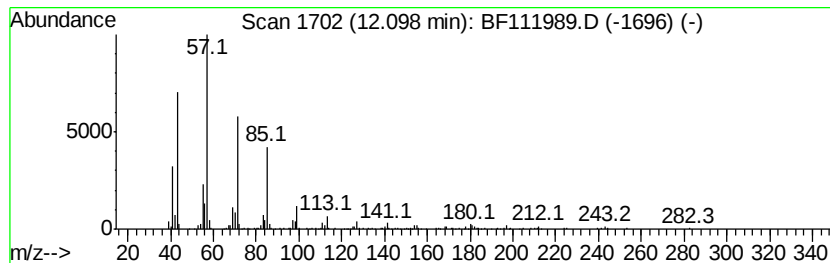
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 Eicosane Concentration Rank 12

| R.T.      | EstConc              | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------|--------|------------------|-------------|------|
| 12.10     | 9.86 ng              | 430797 | Phenanthrene-d10 | 11.40       |      |
| Hit# of 5 | Tentative ID         | MW     | MolForm          | CAS#        | Qual |
| 1         | Eicosane             | 282    | C20H42           | 000112-95-8 | 91   |
| 2         | Eicosane, 10-methyl- | 296    | C21H44           | 054833-23-7 | 91   |
| 3         | Tetracosane          | 338    | C24H50           | 000646-31-1 | 91   |
| 4         | Tridecane, 7-hexyl-  | 268    | C19H40           | 007225-66-3 | 91   |
| 5         | Octadecane           | 254    | C18H38           | 000593-45-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

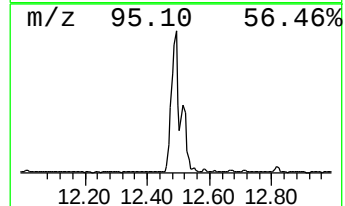
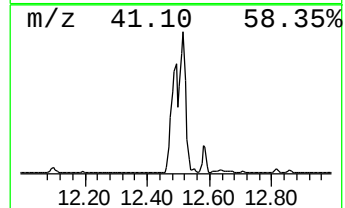
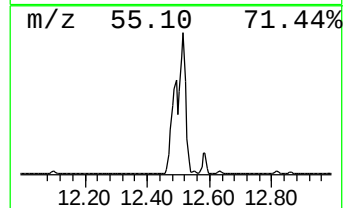
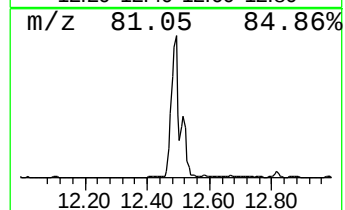
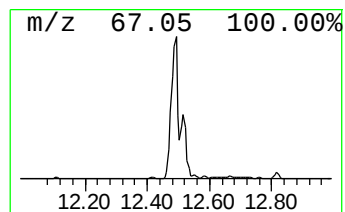
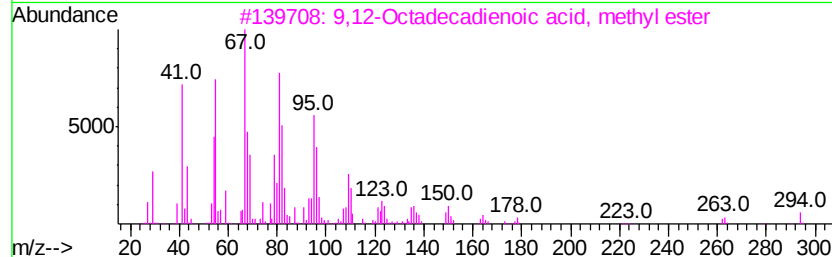
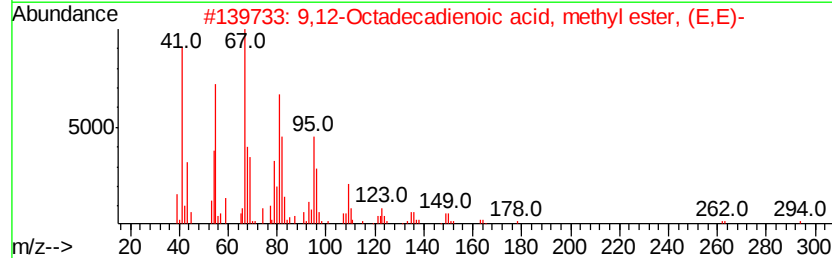
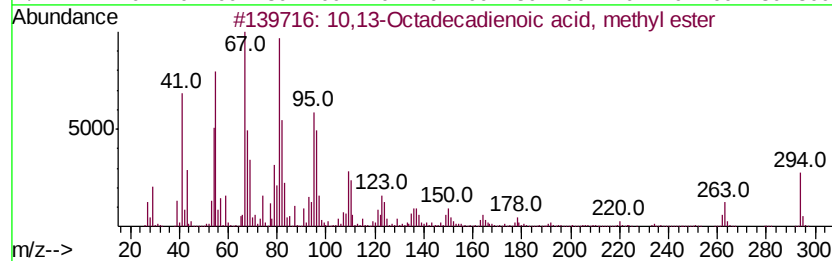
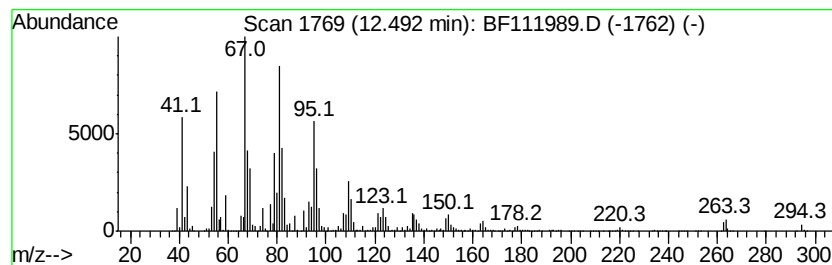
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 10,13-Octadecadienoic acid,... Concentration Rank 2

| R.T.      | EstConc                             | Area     | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|----------|------------------|-------------|------|
| 12.49     | 302.29 ng                           | 13202000 | Phenanthrene-d10 | 11.40       |      |
| Hit# of 5 | Tentative ID                        | MW       | MolForm          | CAS#        | Qual |
| 1         | 10,13-Octadecadienoic acid, meth... | 294      | C19H34O2         | 056554-62-2 | 99   |
| 2         | 9,12-Octadecadienoic acid, methy... | 294      | C19H34O2         | 002566-97-4 | 99   |
| 3         | 9,12-Octadecadienoic acid, methv... | 294      | C19H34O2         | 002462-85-3 | 99   |
| 4         | 9,15-Octadecadienoic acid, methy... | 294      | C19H34O2         | 017309-05-6 | 99   |
| 5         | 9,12-Octadecadienoic acid (Z,Z)-... | 294      | C19H34O2         | 000112-63-0 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

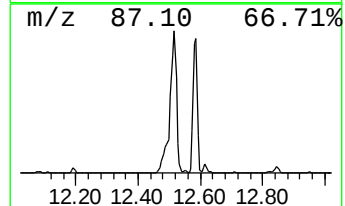
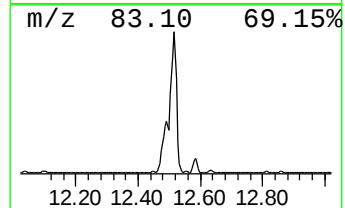
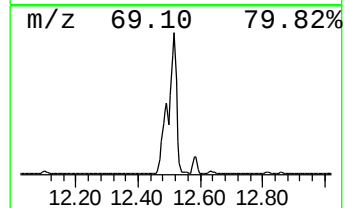
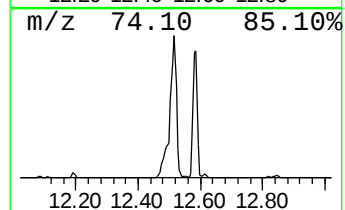
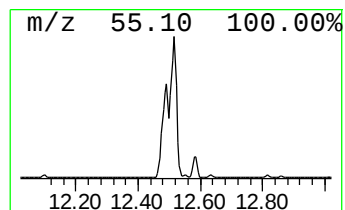
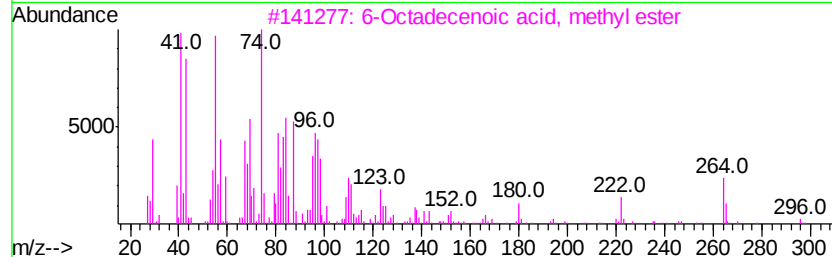
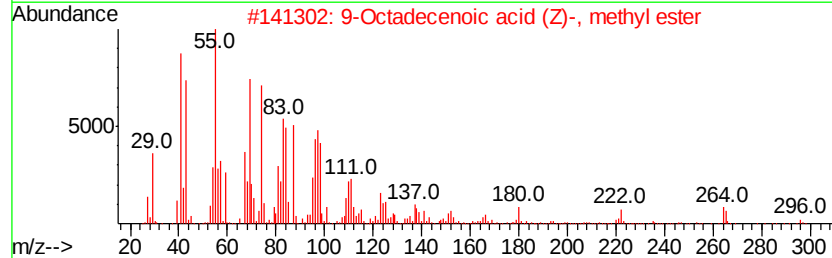
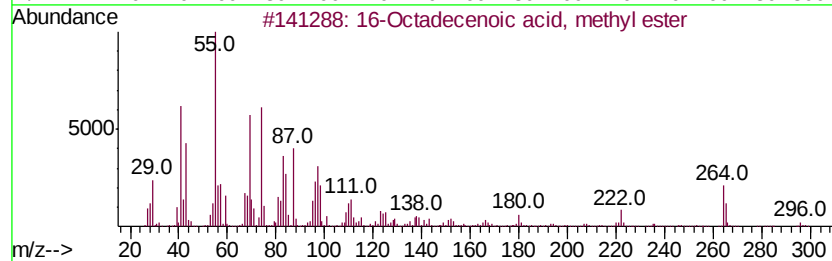
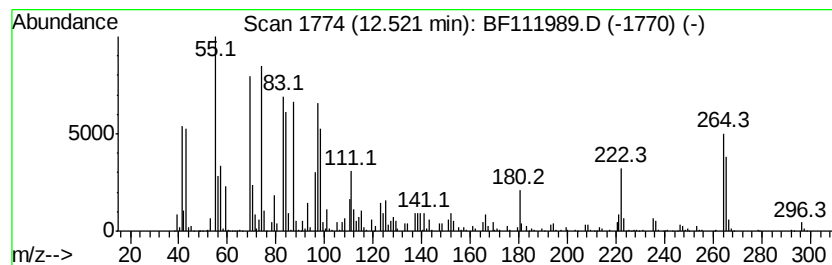
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 16-Octadecenoic acid, methy... Concentration Rank 1

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 12.52 | 325.94 ng | 14234700 | Phenanthrene-d10 | 11.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 16-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-49-5 | 99   |
| 2    |    | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 98   |
| 3    |    | 6-Octadecenoic acid, methyl ester   | 296 | C19H36O2 | 052355-31-4 | 96   |
| 4    |    | 15-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 004764-72-1 | 95   |
| 5    |    | 14-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-48-4 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

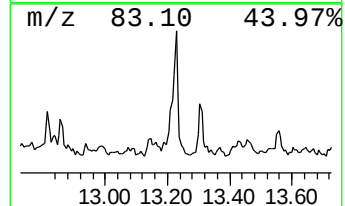
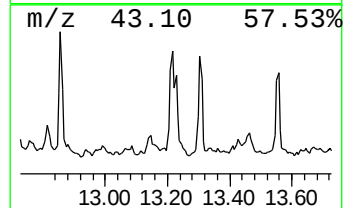
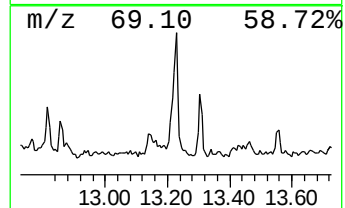
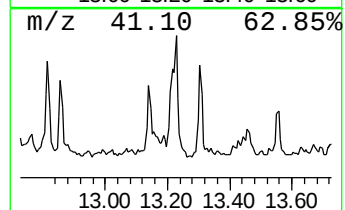
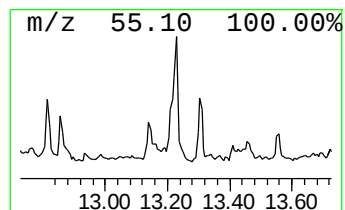
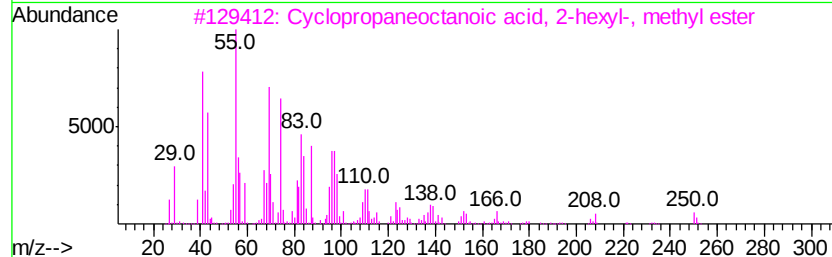
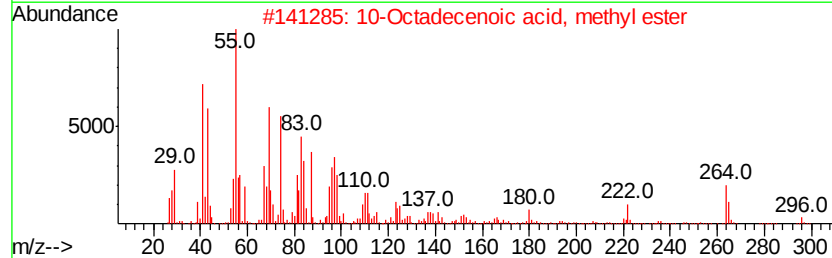
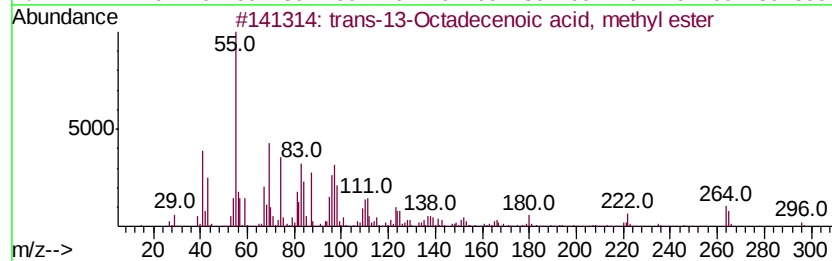
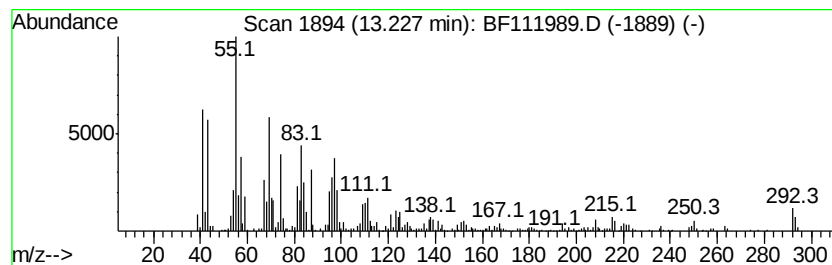
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 trans-13-Octadecenoic acid,... Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.23 | 9.18 ng | 649184 | Chrysene-d12     | 14.04 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | trans-13-Octadecenoic acid, meth... | 296 | C19H36O2 | 1000333-61-3 | 90   |
| 2    |    |   | 10-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 013481-95-3  | 87   |
| 3    |    |   | Cyclopropaneoctanoic acid, 2-hex... | 282 | C18H34O2 | 010152-61-1  | 81   |
| 4    |    |   | 7-Hexadecenoic acid, methyl este... | 268 | C17H32O2 | 056875-67-3  | 81   |
| 5    |    |   | cis-10-Heptadecenoic acid, methy... | 282 | C18H34O2 | 1000333-62-1 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

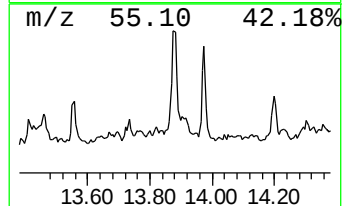
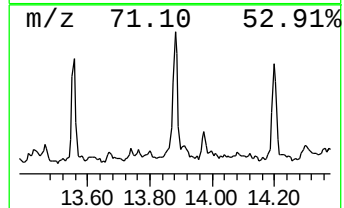
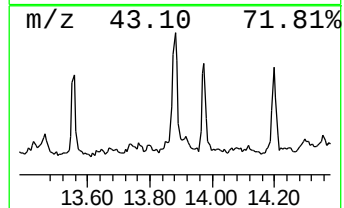
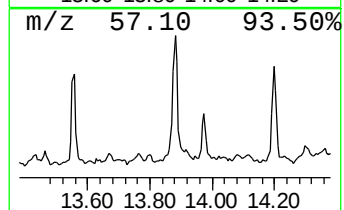
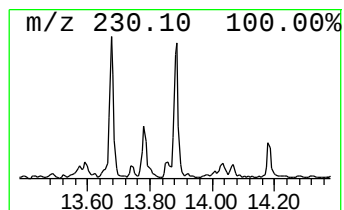
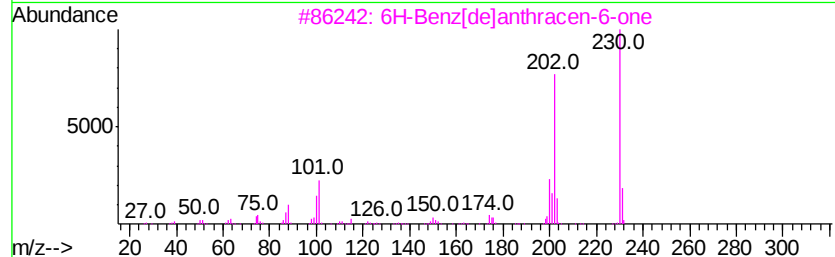
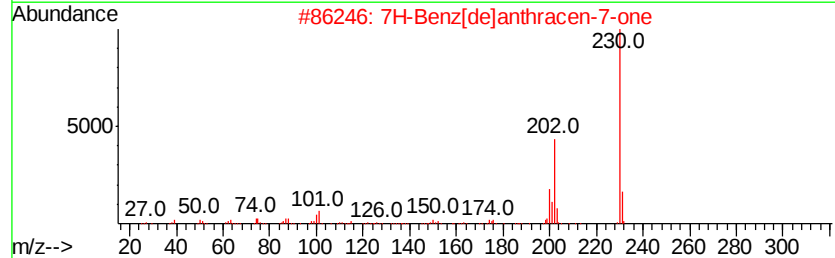
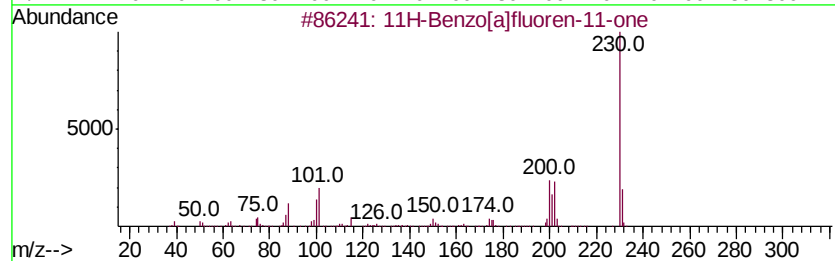
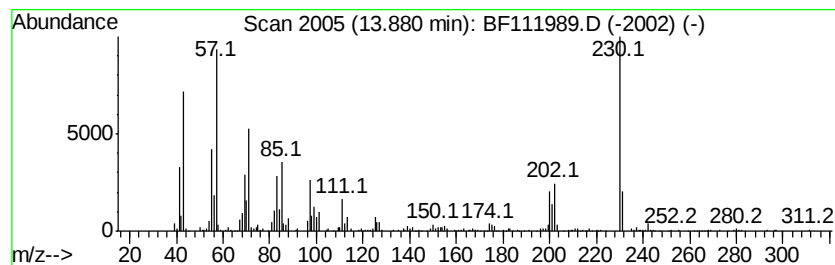
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 18 11H-Benzo[a]fluoren-11-one Concentration Rank 19

| R.T.    | EstConc | Area                                | Relative to ISTD |         | R.T.        |      |
|---------|---------|-------------------------------------|------------------|---------|-------------|------|
| 13.88   | 5.53 ng | 391024                              | Chrysene-d12     |         | 14.04       |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |         | 11H-Benzo[a]fluoren-11-one          | 230              | C17H10O | 000479-79-8 | 91   |
| 2       |         | 7H-Benz[de]anthracen-7-one          | 230              | C17H10O | 000082-05-3 | 55   |
| 3       |         | 6H-Benz[de]anthracen-6-one          | 230              | C17H10O | 080252-14-8 | 50   |
| 4       |         | Heptadecane, 2,6,10,15-tetramethyl- | 296              | C21H44  | 054833-48-6 | 45   |
| 5       |         | Heneicosane                         | 296              | C21H44  | 000629-94-7 | 44   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

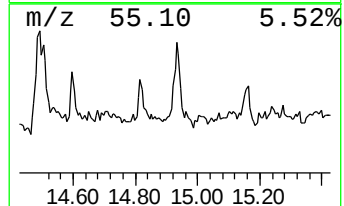
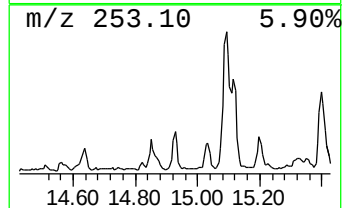
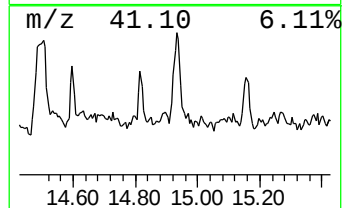
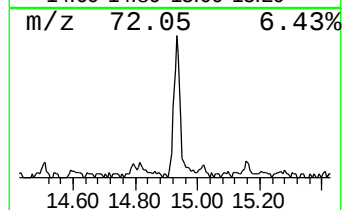
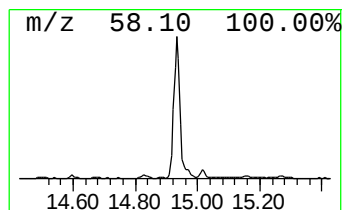
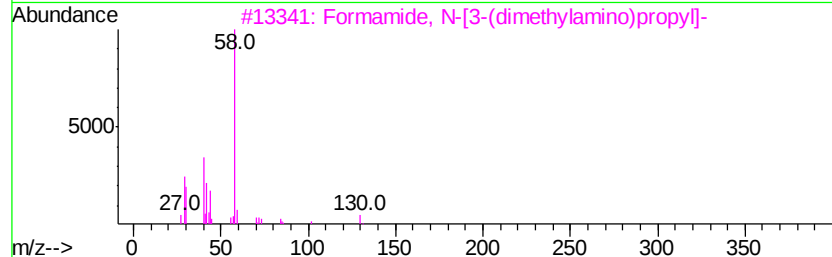
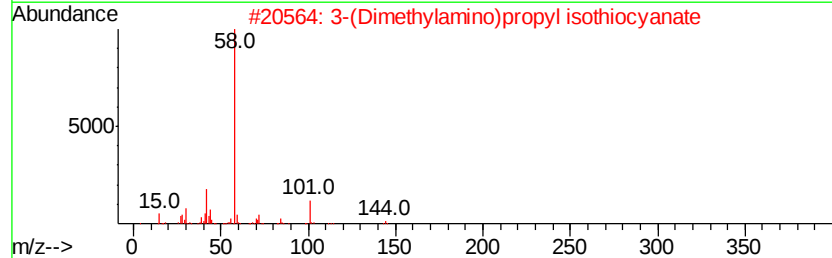
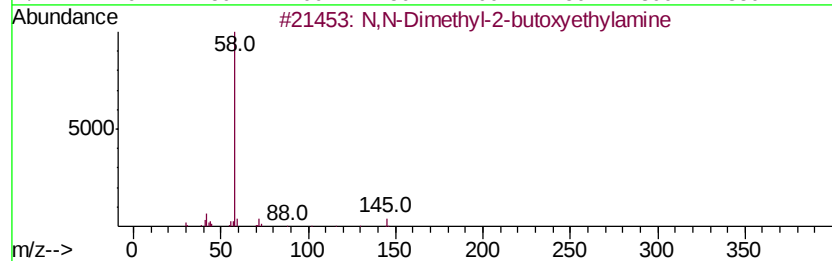
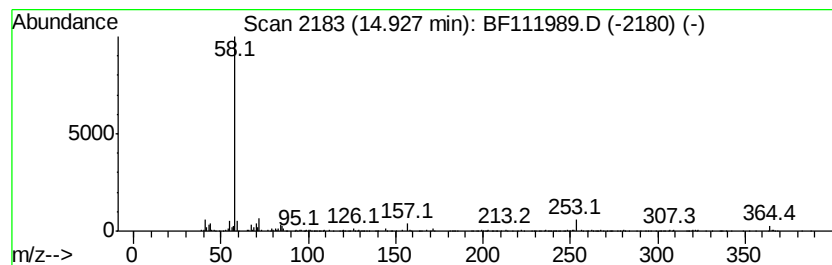
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 N,N-Dimethyl-2-butoxyethylamine... Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.93 | 13.61 ng | 514559 | Perylene-d12     | 15.53 |

| Hit# | of | Tentative ID                            | MW  | MolForm     | CAS#        | Qual |
|------|----|-----------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | N,N-Dimethyl-2-butoxyethylamine         | 145 | C8H19NO     | 071126-58-4 | 72   |
| 2    |    | 3-(Dimethylamino)propyl isothiocyanate  | 144 | C6H12N2S    | 027421-70-1 | 72   |
| 3    |    | Formamide, N-[3-(dimethylamino)propyl]- | 130 | C6H14N2O    | 005922-69-0 | 72   |
| 4    |    | 1-Dodecanamine, N,N-dimethyl-           | 213 | C14H31N     | 000112-18-5 | 64   |
| 5    |    | Trifluomeprazine                        | 366 | C19H21F3N2S | 002622-37-9 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111989.D  
Acq On : 10 Jan 2019 16:06  
Operator : JU/SJ  
Sample : K1015-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

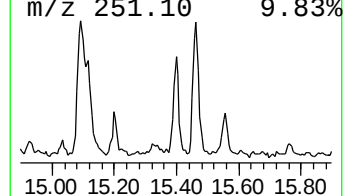
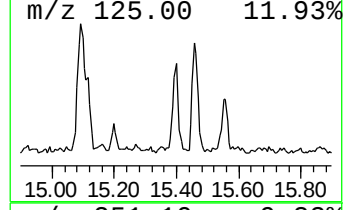
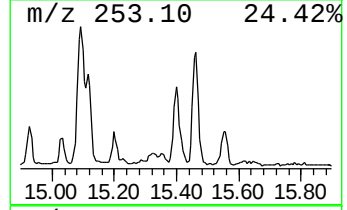
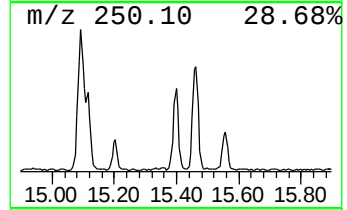
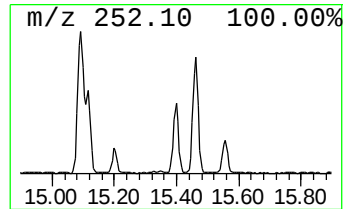
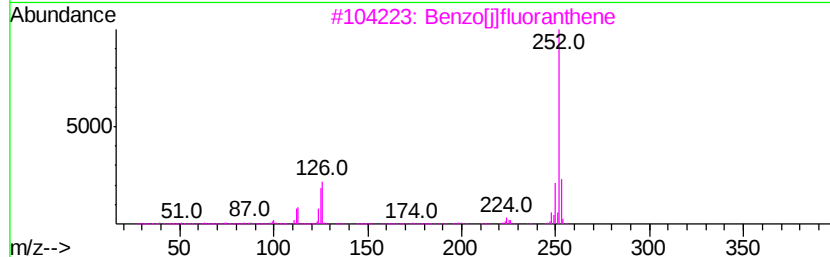
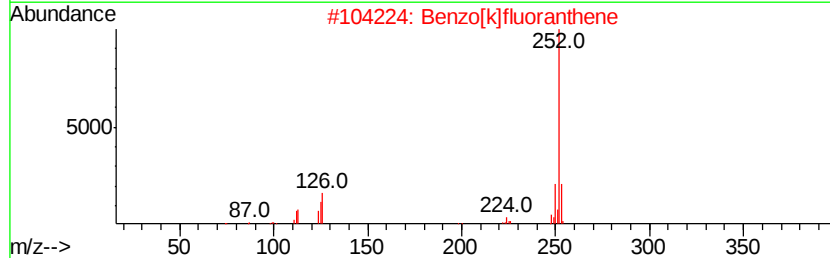
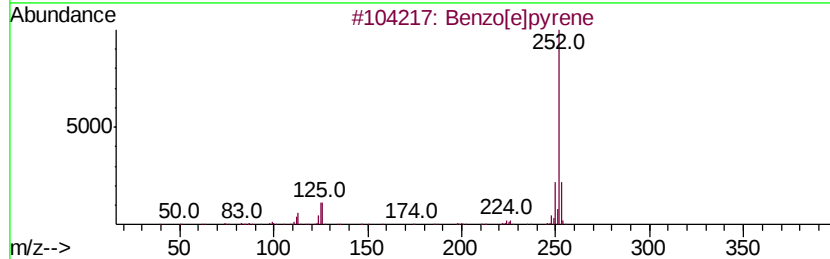
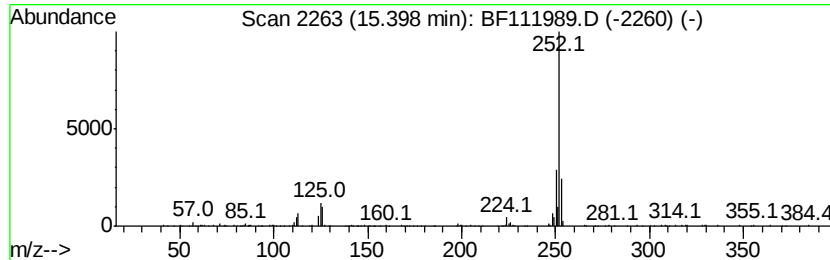
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Benzo[e]pyrene Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.40 | 6.66 ng | 251865 | Perylene-d12     | 15.53 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 91   |
| 3    |    |   | Benzo[i]fluoranthene | 252 | C20H12  | 000205-82-3 | 91   |
| 4    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |
| 5    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF011019\  
 Data File : BF111989.D  
 Acq On : 10 Jan 2019 16:06  
 Operator : JU/SJ  
 Sample : K1015-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-010918-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF010719.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 |
| unknown6.65          | 6.65  | 71.2    | ng    | 2540850  | 1                     | 6.87  | 713933  | 20.0 |
| Tridecane            | 8.75  | 6.0     | ng    | 317399   | 2                     | 8.16  | 1050600 | 20.0 |
| Tetradecane          | 9.32  | 10.1    | ng    | 435277   | 3                     | 9.91  | 858174  | 20.0 |
| Pentadecane          | 9.85  | 10.4    | ng    | 445114   | 3                     | 9.91  | 858174  | 20.0 |
| Hexadecane           | 10.35 | 15.1    | ng    | 648415   | 3                     | 9.91  | 858174  | 20.0 |
| Heptacosane          | 10.56 | 7.3     | ng    | 312137   | 3                     | 9.91  | 858174  | 20.0 |
| Heptadecane          | 10.82 | 16.3    | ng    | 713425   | 4                     | 11.40 | 873460  | 20.0 |
| Pentadecane          | 11.26 | 10.3    | ng    | 449146   | 4                     | 11.40 | 873460  | 20.0 |
| Heptadecane, 2,6,... | 11.29 | 6.4     | ng    | 281104   | 4                     | 11.40 | 873460  | 20.0 |
| Nonadecane           | 11.69 | 9.8     | ng    | 429879   | 4                     | 11.40 | 873460  | 20.0 |
| Hexadecanoic acid... | 11.79 | 127.5   | ng    | 5567840  | 4                     | 11.40 | 873460  | 20.0 |
| Phenanthrene, 2-m... | 11.93 | 5.5     | ng    | 238620   | 4                     | 11.40 | 873460  | 20.0 |
| Eicosane             | 12.10 | 9.9     | ng    | 430797   | 4                     | 11.40 | 873460  | 20.0 |
| 10,13-Octadecadie... | 12.49 | 302.3   | ng    | 13202000 | 4                     | 11.40 | 873460  | 20.0 |
| 16-Octadecenoic a... | 12.52 | 325.9   | ng    | 14234700 | 4                     | 11.40 | 873460  | 20.0 |
| trans-13-Octadece... | 13.23 | 9.2     | ng    | 649184   | 5                     | 14.04 | 1413700 | 20.0 |
| 11H-Benzo[a]fluor... | 13.88 | 5.5     | ng    | 391024   | 5                     | 14.04 | 1413700 | 20.0 |
| N,N-Dimethyl-2-bu... | 14.93 | 13.6    | ng    | 514559   | 6                     | 15.53 | 756395  | 20.0 |
| Benzo[e]pyrene       | 15.40 | 6.7     | ng    | 251865   | 6                     | 15.53 | 756395  | 20.0 |