

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
 Data File : BF113001.D  
 Acq On : 12 Mar 2019 14:26  
 Operator : JU/SJ  
 Sample : K1817-14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

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         | 5.345       | 549           | 554         | 557          | rBV      | 3206635        | 2997182       | 77.99%          | 7.063%        |
| 2         | 6.369       | 723           | 728         | 746          | rBV      | 3291392        | 3359484       | 87.42%          | 7.917%        |
| 3         | 6.498       | 746           | 750         | 754          | rBV      | 3324394        | 3320112       | 86.40%          | 7.825%        |
| 4         | 6.728       | 786           | 789         | 793          | rBV      | 1230872        | 1112394       | 28.95%          | 2.622%        |
| 5         | 6.886       | 812           | 816         | 820          | rBV      | 3071381        | 2582334       | 67.20%          | 6.086%        |
| 6         | 7.292       | 880           | 885         | 891          | rBV      | 1954880        | 2081865       | 54.18%          | 4.906%        |
| 7         | 7.339       | 891           | 893         | 898          | rVB      | 50333          | 51172         | 1.33%           | 0.121%        |
| 8         | 8.010       | 1003          | 1007        | 1024         | rBV      | 1459183        | 1472773       | 38.33%          | 3.471%        |
| 9         | 9.086       | 1186          | 1190        | 1205         | rBV      | 4009492        | 3842796       | 100.00%         | 9.056%        |
| 10        | 9.480       | 1254          | 1257        | 1264         | rVB      | 297846         | 274781        | 7.15%           | 0.648%        |
| 11        | 9.763       | 1301          | 1305        | 1316         | rBV      | 1737886        | 1654354       | 43.05%          | 3.899%        |
| 12        | 10.545      | 1434          | 1438        | 1454         | rBV      | 2681110        | 2655979       | 69.12%          | 6.259%        |
| 13        | 11.239      | 1552          | 1556        | 1558         | rBV      | 1810879        | 1638621       | 42.64%          | 3.862%        |
| 14        | 11.263      | 1558          | 1560        | 1566         | rVB      | 324557         | 293184        | 7.63%           | 0.691%        |
| 15        | 11.704      | 1630          | 1635        | 1638         | rBV5     | 22700          | 38487         | 1.00%           | 0.091%        |
| 16        | 11.739      | 1638          | 1641        | 1643         | rVV      | 131674         | 117074        | 3.05%           | 0.276%        |
| 17        | 11.780      | 1643          | 1648        | 1657         | rVV2     | 1147778        | 1329386       | 34.59%          | 3.133%        |
| 18        | 11.845      | 1657          | 1659        | 1662         | rVV      | 137869         | 167558        | 4.36%           | 0.395%        |
| 19        | 11.874      | 1662          | 1664        | 1670         | rVB      | 89569          | 92992         | 2.42%           | 0.219%        |
| 20        | 12.033      | 1688          | 1691        | 1693         | rBV      | 49255          | 49852         | 1.30%           | 0.117%        |
| 21        | 12.057      | 1693          | 1695        | 1701         | rVB2     | 48203          | 57773         | 1.50%           | 0.136%        |
| 22        | 12.180      | 1711          | 1716        | 1719         | rBV2     | 46137          | 57384         | 1.49%           | 0.135%        |
| 23        | 12.286      | 1728          | 1734        | 1737         | rBV      | 121343         | 123100        | 3.20%           | 0.290%        |
| 24        | 12.321      | 1737          | 1740        | 1742         | rVV2     | 54740          | 64116         | 1.67%           | 0.151%        |
| 25        | 12.368      | 1746          | 1748        | 1754         | rVB2     | 66905          | 73626         | 1.92%           | 0.174%        |
| 26        | 12.445      | 1757          | 1761        | 1765         | rBV      | 413433         | 373957        | 9.73%           | 0.881%        |
| 27        | 12.480      | 1765          | 1767        | 1775         | rVB7     | 45722          | 95087         | 2.47%           | 0.224%        |
| 28        | 12.557      | 1777          | 1780        | 1790         | rBV2     | 440547         | 528107        | 13.74%          | 1.245%        |
| 29        | 12.668      | 1794          | 1799        | 1802         | rBV      | 426788         | 433984        | 11.29%          | 1.023%        |
| 30        | 12.733      | 1807          | 1810        | 1813         | rVB2     | 54581          | 61611         | 1.60%           | 0.145%        |
| 31        | 12.821      | 1821          | 1825        | 1828         | rBV      | 3577636        | 3301765       | 85.92%          | 7.781%        |
| 32        | 12.892      | 1833          | 1837        | 1844         | rVB5     | 65909          | 102301        | 2.66%           | 0.241%        |
| 33        | 12.974      | 1849          | 1851        | 1853         | rBV2     | 35294          | 40328         | 1.05%           | 0.095%        |
| 34        | 12.998      | 1853          | 1855        | 1859         | rVB      | 72377          | 65606         | 1.71%           | 0.155%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031219\  
 Data File : BF113001.D  
 Acq On : 12 Mar 2019 14:26  
 Operator : JU/SJ  
 Sample : K1817-14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

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

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.039 | 1859 | 1862 | 1864 | rBV4 | 43004   | 51818   | 1.35%  | 0.122% |
| 36 | 13.062 | 1864 | 1866 | 1869 | rVV2 | 47846   | 40180   | 1.05%  | 0.095% |
| 37 | 13.104 | 1869 | 1873 | 1880 | rVB  | 93324   | 99006   | 2.58%  | 0.233% |
| 38 | 13.192 | 1885 | 1888 | 1891 | rBV  | 62323   | 59594   | 1.55%  | 0.140% |
| 39 | 13.221 | 1891 | 1893 | 1897 | rVB  | 57474   | 54033   | 1.41%  | 0.127% |
| 40 | 13.304 | 1904 | 1907 | 1912 | rVB6 | 54848   | 70541   | 1.84%  | 0.166% |
| 41 | 13.404 | 1921 | 1924 | 1930 | rVB3 | 40457   | 58752   | 1.53%  | 0.138% |
| 42 | 13.504 | 1938 | 1941 | 1946 | rVB  | 61306   | 83246   | 2.17%  | 0.196% |
| 43 | 13.610 | 1955 | 1959 | 1963 | rBV3 | 43496   | 80428   | 2.09%  | 0.190% |
| 44 | 13.721 | 1973 | 1978 | 1990 | rBV3 | 507287  | 696305  | 18.12% | 1.641% |
| 45 | 13.862 | 1995 | 2002 | 2005 | rBV  | 1380694 | 1509791 | 39.29% | 3.558% |
| 46 | 14.045 | 2029 | 2033 | 2039 | rVB  | 125181  | 119084  | 3.10%  | 0.281% |
| 47 | 14.251 | 2063 | 2068 | 2071 | rBV  | 59998   | 69240   | 1.80%  | 0.163% |
| 48 | 14.286 | 2071 | 2074 | 2077 | rBV2 | 44339   | 45003   | 1.17%  | 0.106% |
| 49 | 14.351 | 2081 | 2085 | 2091 | rBV3 | 282286  | 434542  | 11.31% | 1.024% |
| 50 | 14.639 | 2130 | 2134 | 2142 | rBV  | 219801  | 264072  | 6.87%  | 0.622% |
| 51 | 14.774 | 2154 | 2157 | 2166 | rVB4 | 118439  | 125467  | 3.26%  | 0.296% |
| 52 | 14.868 | 2169 | 2173 | 2181 | rBV  | 135701  | 261286  | 6.80%  | 0.616% |
| 53 | 14.956 | 2184 | 2188 | 2191 | rBV  | 295981  | 358719  | 9.33%  | 0.845% |
| 54 | 14.986 | 2191 | 2193 | 2203 | rVB2 | 198263  | 294797  | 7.67%  | 0.695% |
| 55 | 15.151 | 2217 | 2221 | 2226 | rBV  | 89542   | 107122  | 2.79%  | 0.252% |
| 56 | 15.209 | 2227 | 2231 | 2236 | rVB  | 121321  | 154013  | 4.01%  | 0.363% |
| 57 | 15.268 | 2236 | 2241 | 2245 | rBV  | 1002270 | 1231934 | 32.06% | 2.903% |
| 58 | 15.315 | 2245 | 2249 | 2253 | rVB2 | 219689  | 302163  | 7.86%  | 0.712% |
| 59 | 15.492 | 2277 | 2279 | 2284 | rVB  | 49747   | 59808   | 1.56%  | 0.141% |
| 60 | 15.609 | 2295 | 2299 | 2306 | rVB6 | 30039   | 56708   | 1.48%  | 0.134% |
| 61 | 15.715 | 2312 | 2317 | 2322 | rBV  | 253322  | 356787  | 9.28%  | 0.841% |
| 62 | 15.774 | 2322 | 2327 | 2333 | rBV6 | 68354   | 157263  | 4.09%  | 0.371% |
| 63 | 16.186 | 2392 | 2397 | 2401 | rBV2 | 93751   | 168463  | 4.38%  | 0.397% |
| 64 | 16.451 | 2437 | 2442 | 2451 | rBV6 | 59998   | 120704  | 3.14%  | 0.284% |
| 65 | 16.627 | 2467 | 2472 | 2483 | rBV2 | 48870   | 113636  | 2.96%  | 0.268% |
| 66 | 16.733 | 2485 | 2490 | 2496 | rVB2 | 62031   | 114814  | 2.99%  | 0.271% |
| 67 | 16.962 | 2525 | 2529 | 2534 | rVB7 | 49147   | 86789   | 2.26%  | 0.205% |
| 68 | 17.033 | 2536 | 2541 | 2549 | rVB  | 47863   | 114948  | 2.99%  | 0.271% |

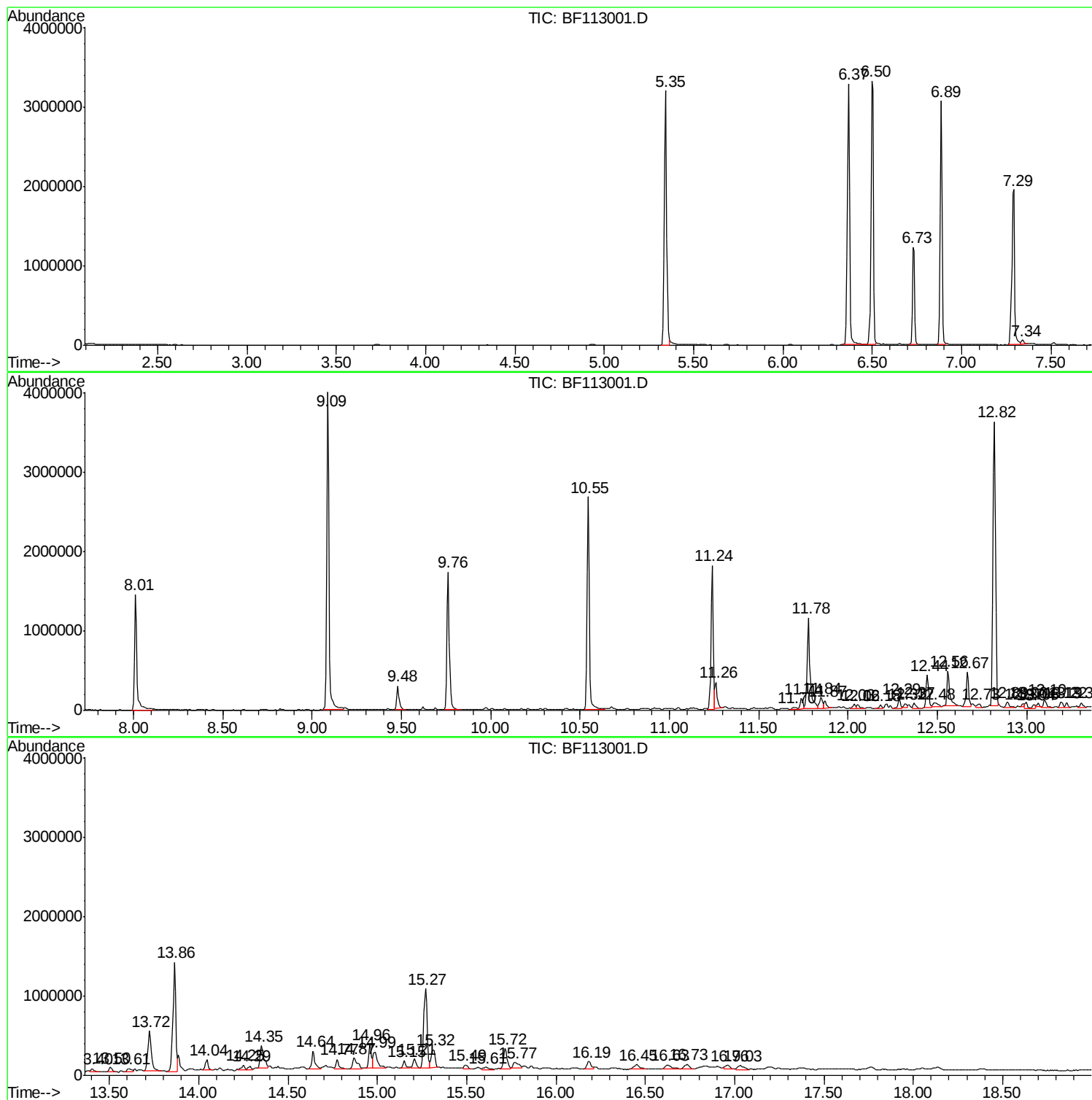
Sum of corrected areas: 42432181

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

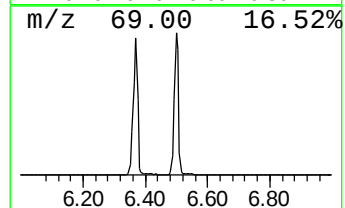
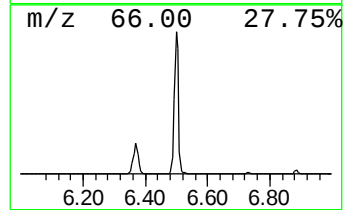
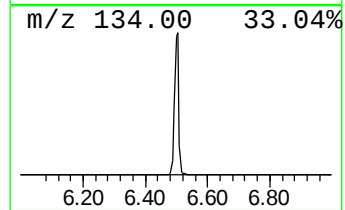
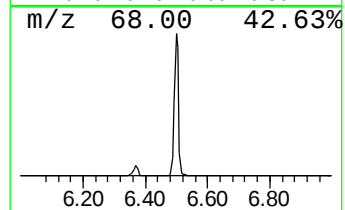
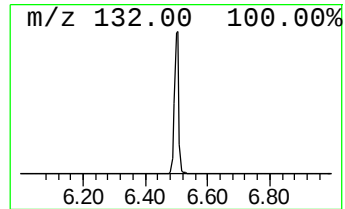
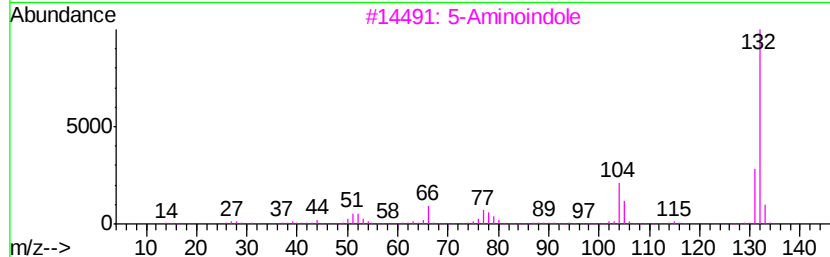
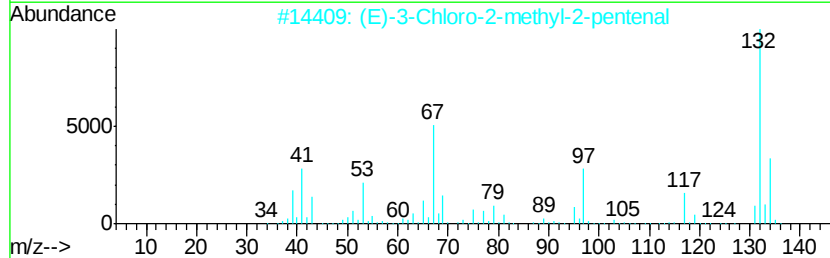
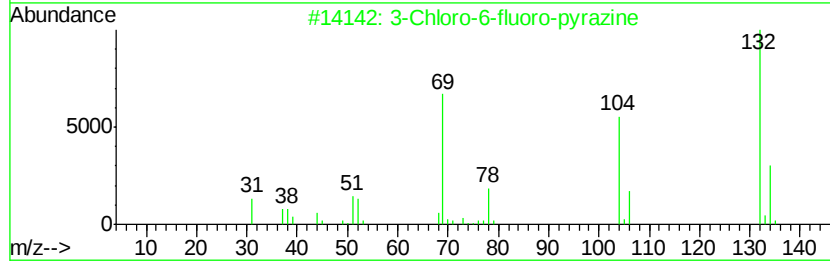
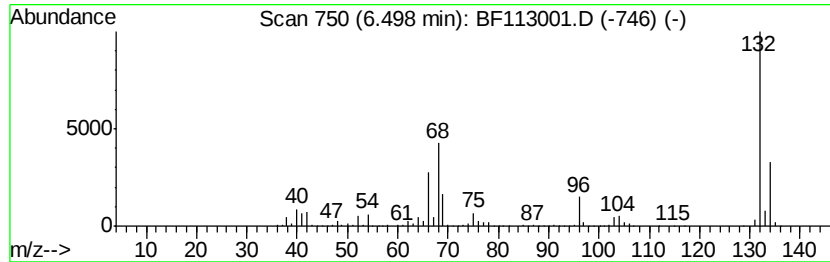
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 unknown6.50 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.50 | 59.69 ng | 3320110 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 10   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

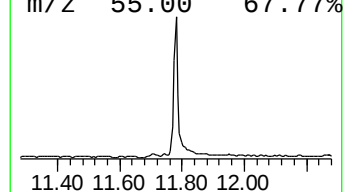
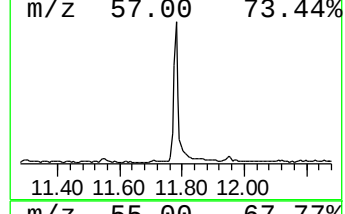
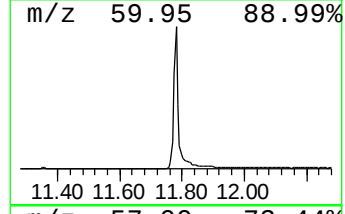
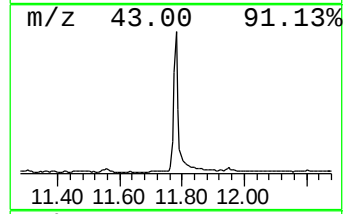
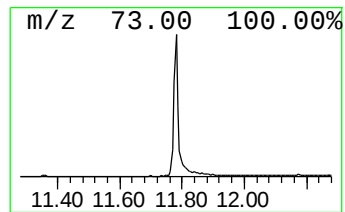
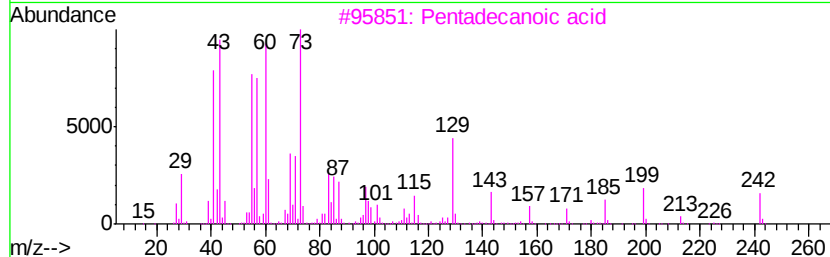
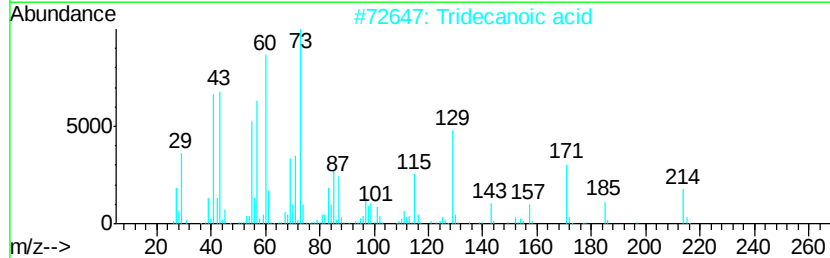
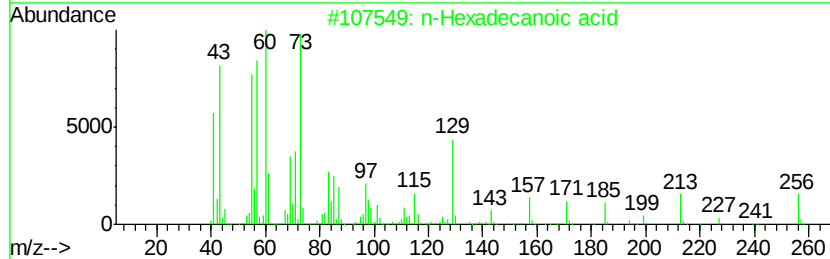
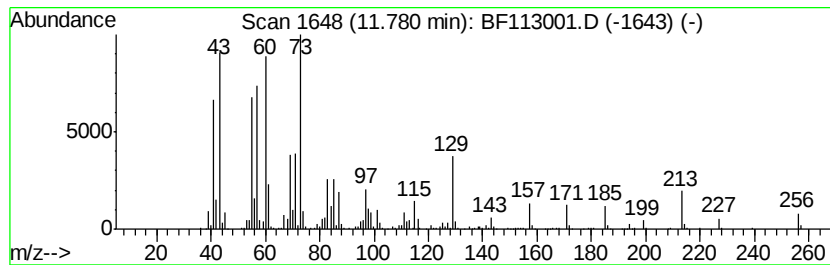
Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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 3 n-Hexadecanoic acid Concentration Rank 3

| R.T.      | EstConc             | Area    | Relative to ISTD | R.T.        |      |
|-----------|---------------------|---------|------------------|-------------|------|
| 11.78     | 16.23 ng            | 1329390 | Phenanthrene-d10 | 11.24       |      |
| Hit# of 5 | Tentative ID        | MW      | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256     | C16H32O2         | 000057-10-3 | 99   |
| 2         | Tridecanoic acid    | 214     | C13H26O2         | 000638-53-9 | 93   |
| 3         | Pentadecanoic acid  | 242     | C15H30O2         | 001002-84-2 | 91   |
| 4         | Tetradecanoic acid  | 228     | C14H28O2         | 000544-63-8 | 74   |
| 5         | Nonanoic acid       | 158     | C9H18O2          | 000112-05-0 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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

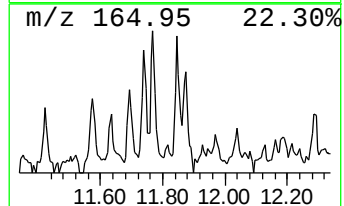
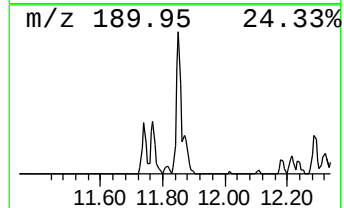
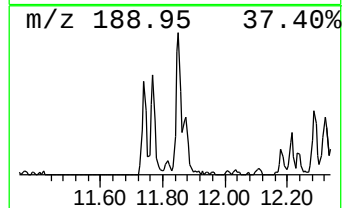
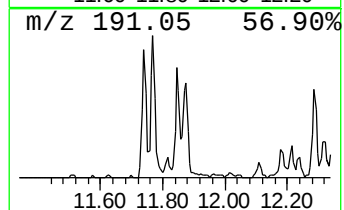
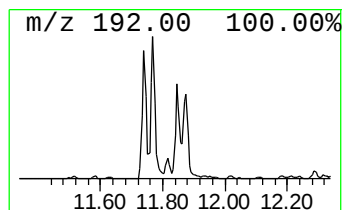
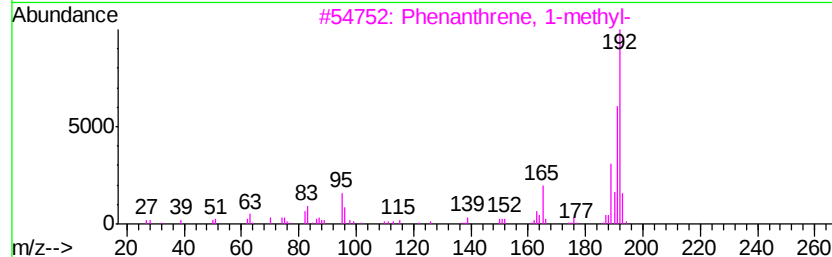
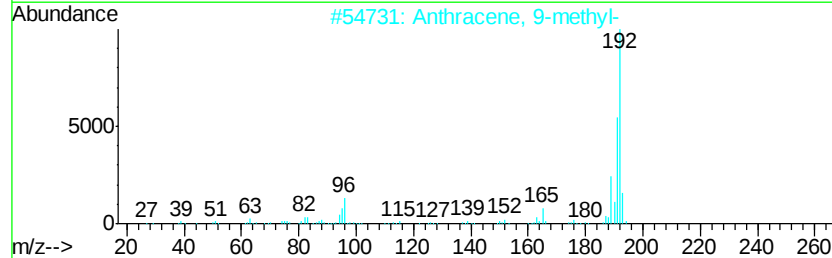
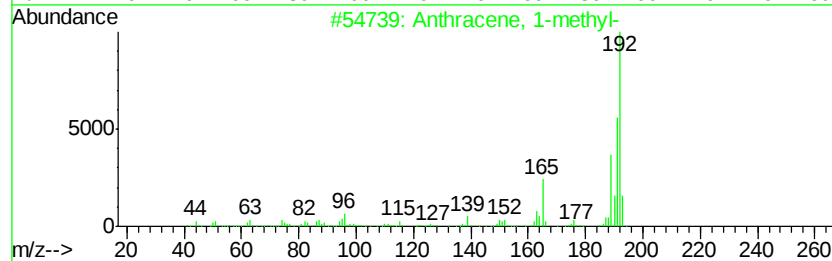
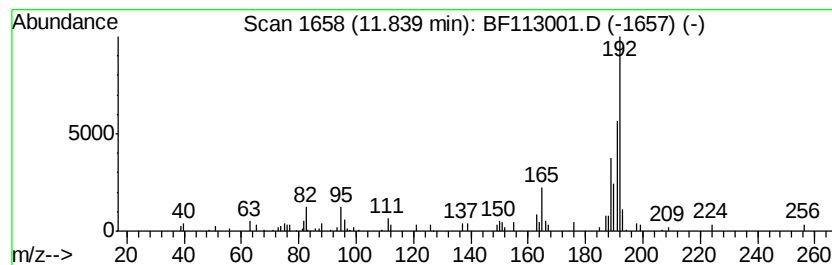
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Anthracene, 1-methyl- Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.84 | 2.05 ng | 167558 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 1-methyl-                  | 192 | C15H12  | 000610-48-0 | 70   |
| 2    |    | Anthracene, 9-methyl-                  | 192 | C15H12  | 000779-02-2 | 64   |
| 3    |    | Phenanthrene, 1-methyl-                | 192 | C15H12  | 000832-69-9 | 60   |
| 4    |    | 1H-Cyclopropa[1,1]phenanthrene, 1a,... | 192 | C15H12  | 000949-41-7 | 60   |
| 5    |    | Anthracene, 2-methyl-                  | 192 | C15H12  | 000613-12-7 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

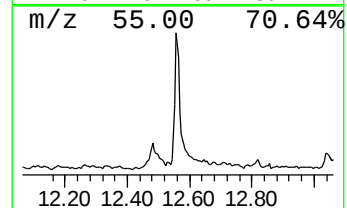
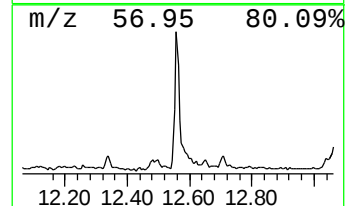
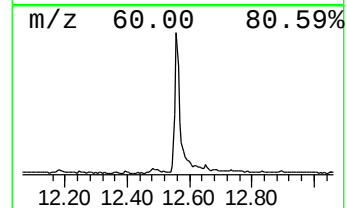
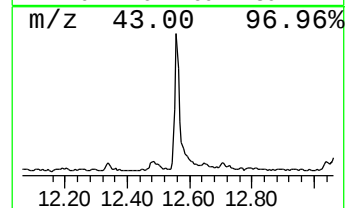
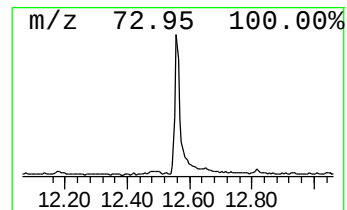
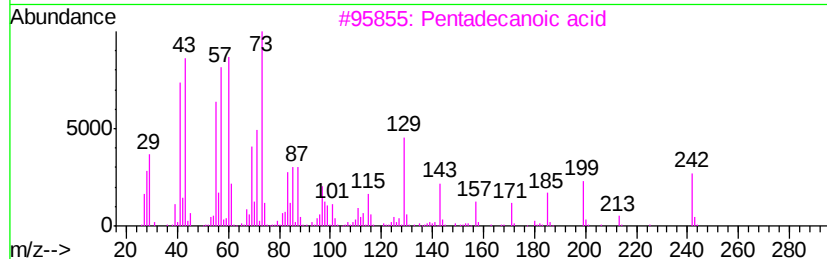
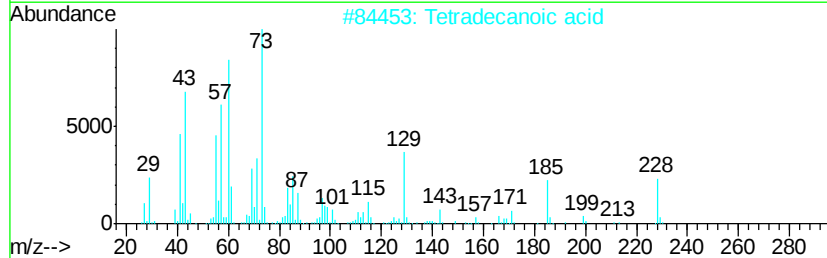
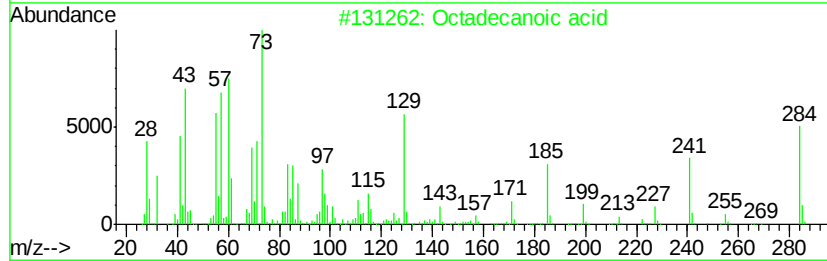
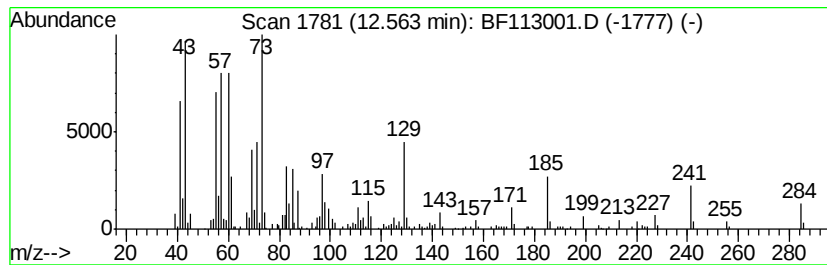
Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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 5 Octadecanoic acid Concentration Rank 5

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 12.56     | 7.00 ng             | 528107 | Chrysene-d12     | 13.86       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 99   |
| 2         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 90   |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 83   |
| 4         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 83   |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 62   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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

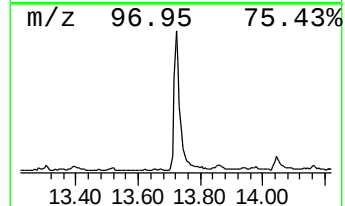
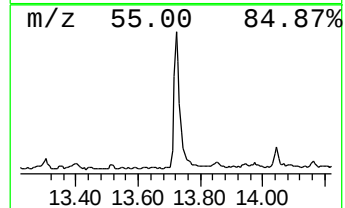
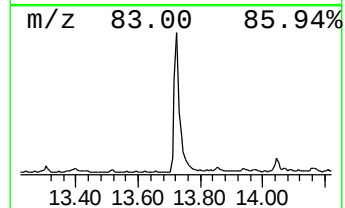
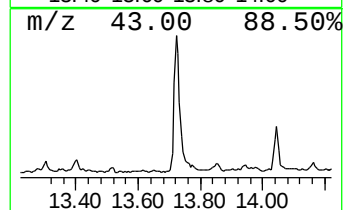
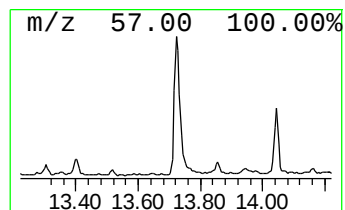
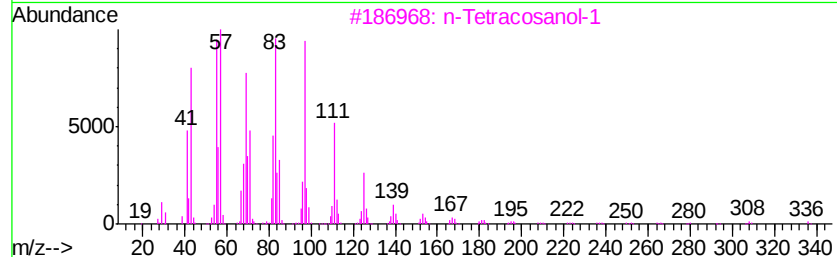
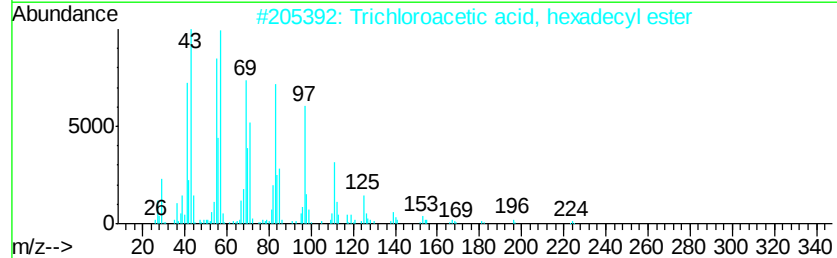
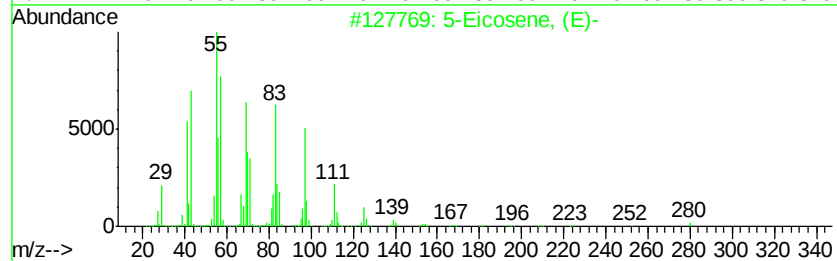
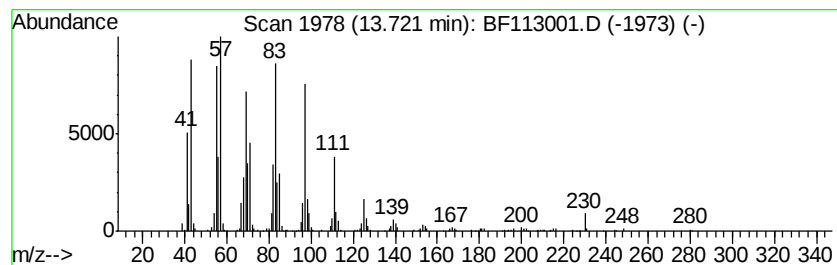
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 5-Eicosene, (E)- Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.72 | 9.22 ng | 696305 | Chrysene-d12     | 13.86 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-------------|-------------|------|
| 1    |    |   | 5-Eicosene, (E)-                    | 280 | C20H40      | 074685-30-6 | 98   |
| 2    |    |   | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 94   |
| 3    |    |   | n-Tetracosanol-1                    | 354 | C24H50O     | 000506-51-4 | 94   |
| 4    |    |   | 1-Heneicosanol                      | 312 | C21H44O     | 015594-90-8 | 93   |
| 5    |    |   | Cyclopentadecane                    | 210 | C15H30      | 000295-48-7 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

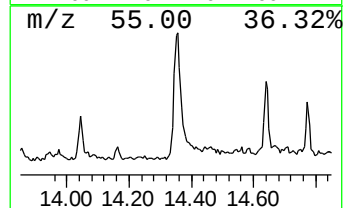
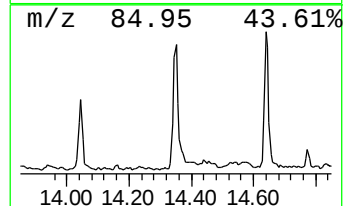
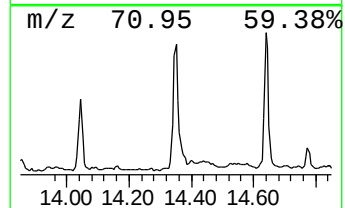
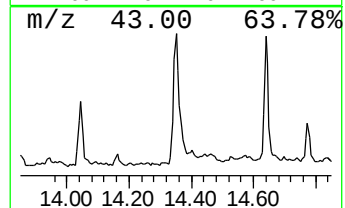
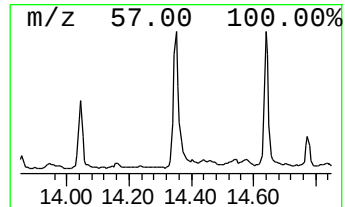
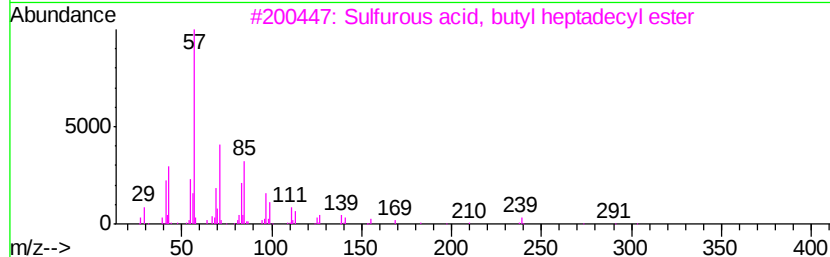
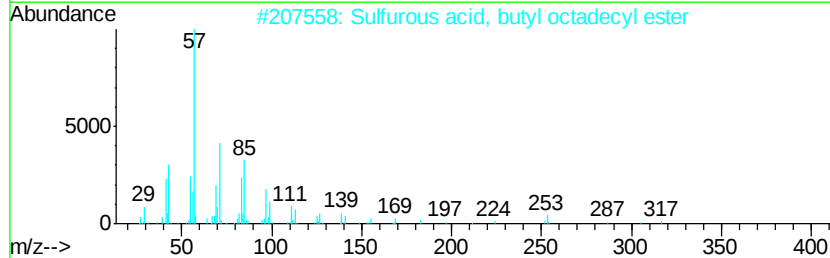
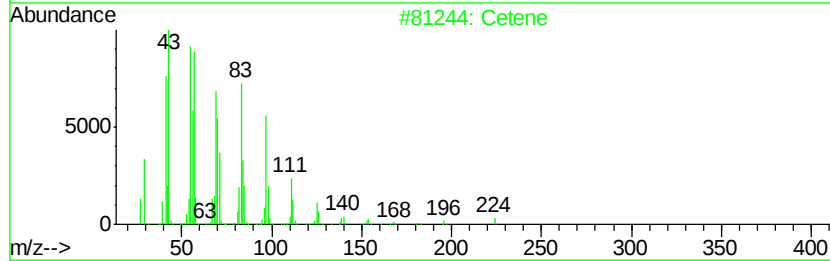
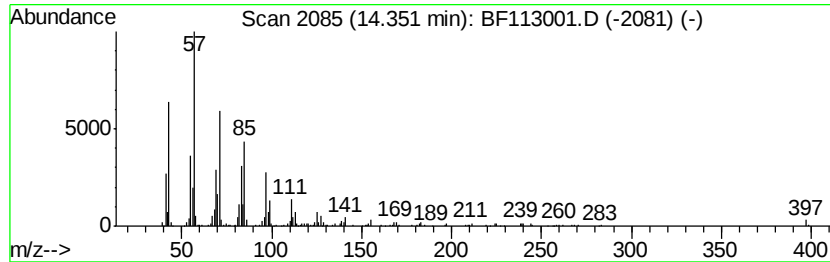
Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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 Cetene Concentration Rank 8

| R.T.    | EstConc                              | Area          | Relative to ISTD | R.T.      |
|---------|--------------------------------------|---------------|------------------|-----------|
| 14.35   | 5.76 ng                              | 434542        | Chrysene-d12     | 13.86     |
| Hit# of | 5                                    | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Cetene                               | 224 C16H32    | 000629-73-2      | 89        |
| 2       | Sulfurous acid, butyl octadecyl ...  | 390 C22H46O3S | 1000309-18-5     | 87        |
| 3       | Sulfurous acid, butyl heptadecyl...  | 376 C21H44O3S | 1000309-18-4     | 87        |
| 4       | Sulfurous acid, 2-propyl tetradec... | 320 C17H36O3S | 1000309-12-5     | 87        |
| 5       | Sulfurous acid, octadecyl 2-prop...  | 376 C21H44O3S | 1000309-12-7     | 87        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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

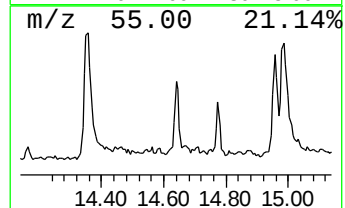
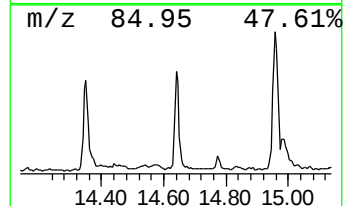
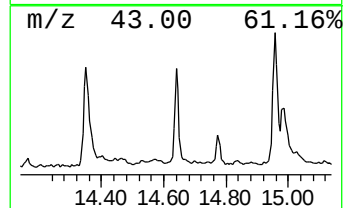
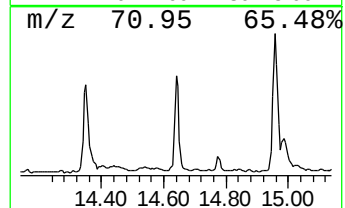
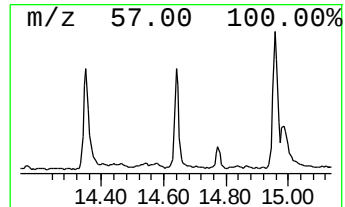
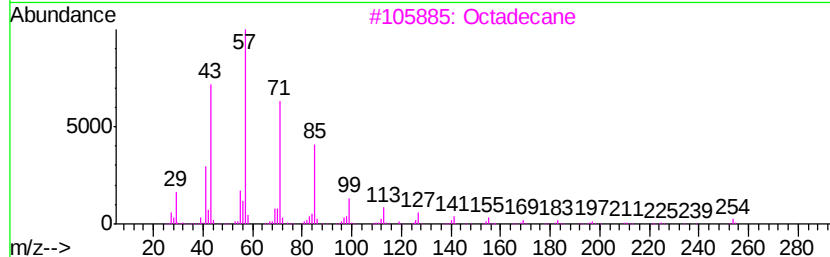
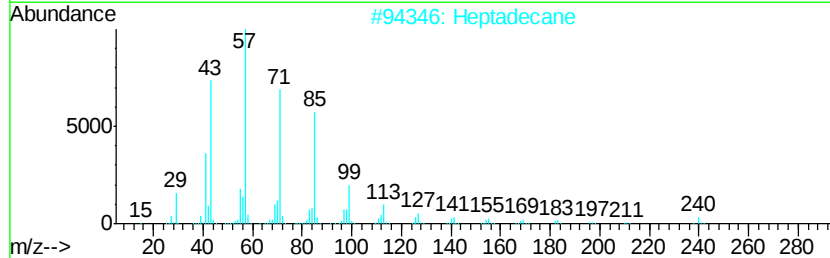
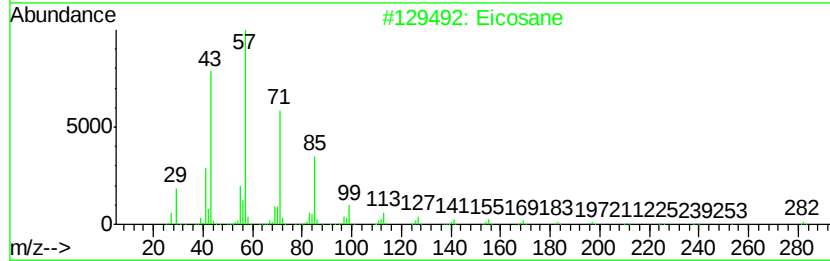
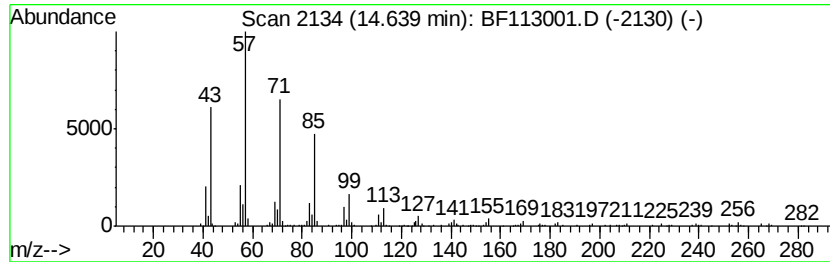
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Eicosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.64 | 4.29 ng | 264072 | Perylene-d12     | 15.27 |

| Hit# of | 5                 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane          |              | 282 | C20H42  | 000112-95-8 | 93   |
| 2       | Heptadecane       |              | 240 | C17H36  | 000629-78-7 | 87   |
| 3       | Octadecane        |              | 254 | C18H38  | 000593-45-3 | 83   |
| 4       | Tetratetracontane |              | 619 | C44H90  | 007098-22-8 | 81   |
| 5       | Nonadecane        |              | 268 | C19H40  | 000629-92-5 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

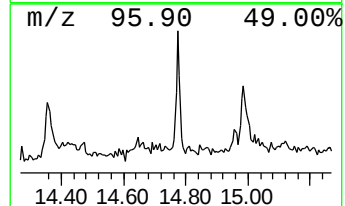
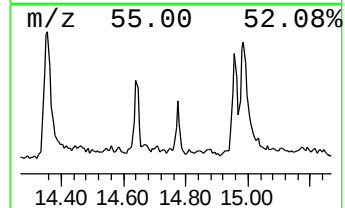
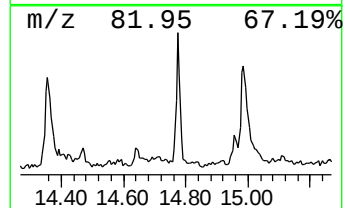
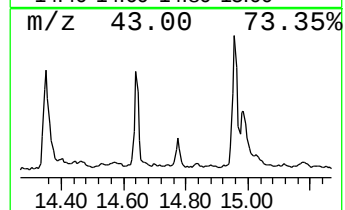
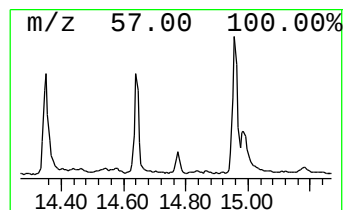
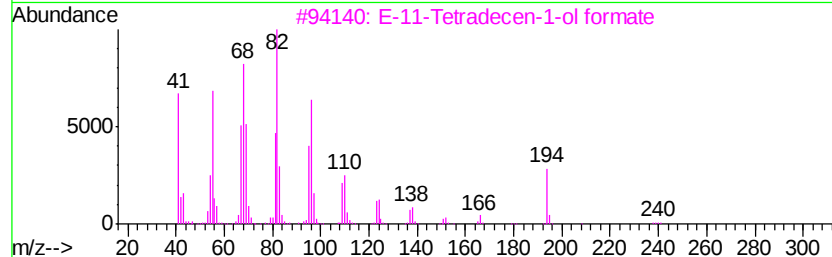
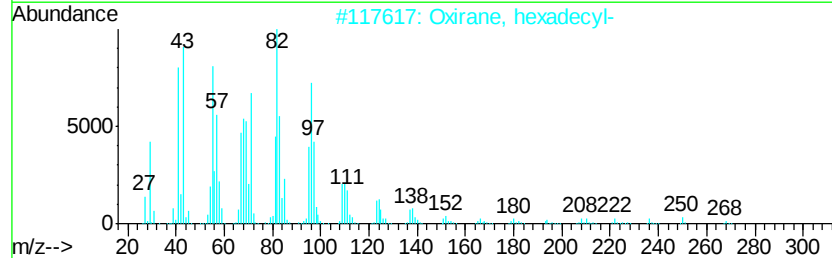
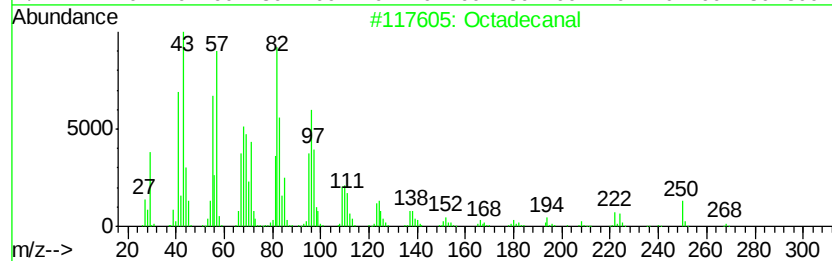
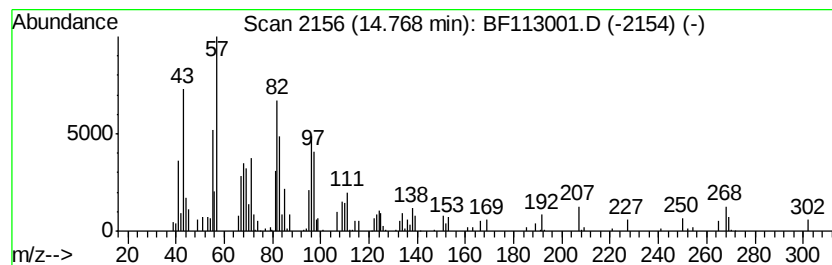
Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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 9 Octadecanal Concentration Rank 14

| R.T.      | EstConc                      | Area   | Relative to ISTD | R.T.         |      |
|-----------|------------------------------|--------|------------------|--------------|------|
| 14.77     | 2.04 ng                      | 125467 | Perylene-d12     | 15.27        |      |
| Hit# of 5 | Tentative ID                 | MW     | MolForm          | CAS#         | Qual |
| 1         | Octadecanal                  | 268    | C18H36O          | 000638-66-4  | 91   |
| 2         | Oxirane, hexadecyl-          | 268    | C18H36O          | 007390-81-0  | 87   |
| 3         | E-11-Tetradecen-1-ol formate | 240    | C15H28O2         | 1000130-77-6 | 78   |
| 4         | E-6-Tetradecen-1-ol acetate  | 254    | C16H30O2         | 1000130-79-1 | 70   |
| 5         | 1,16-Hexadecanediol          | 258    | C16H34O2         | 007735-42-4  | 68   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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

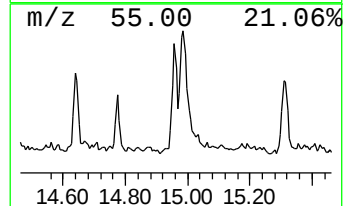
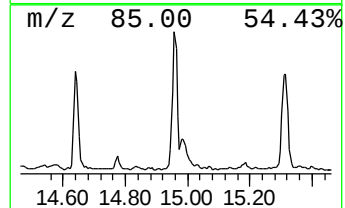
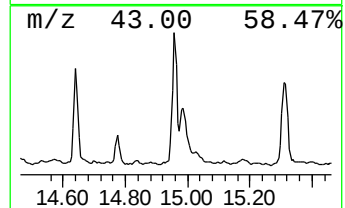
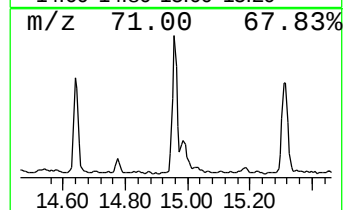
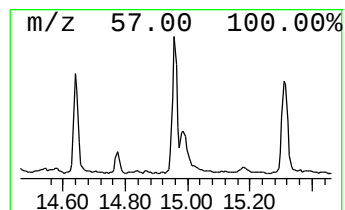
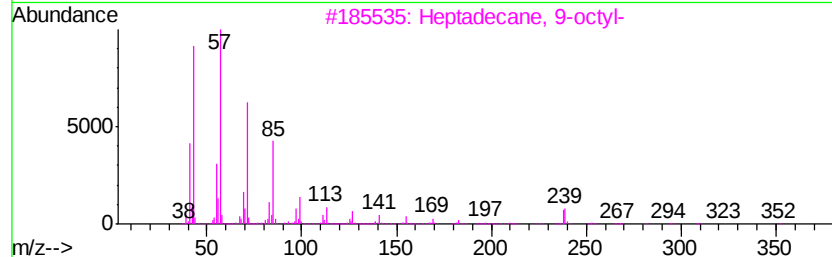
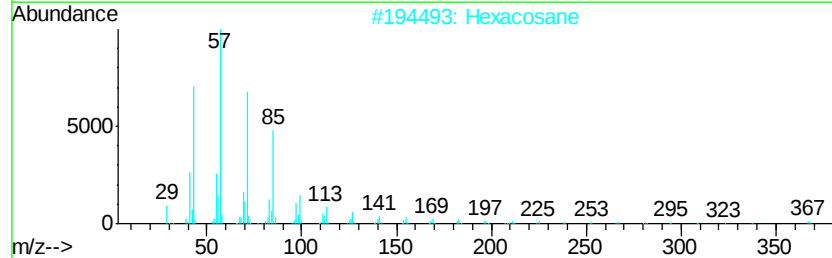
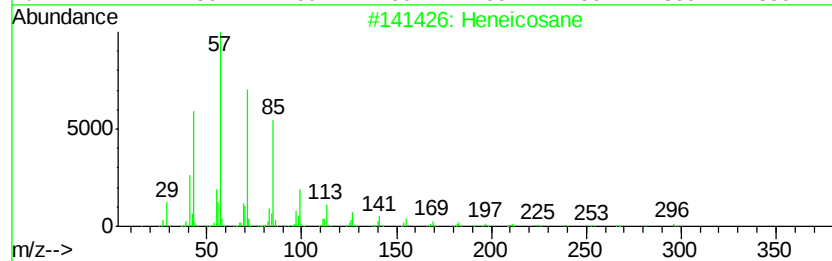
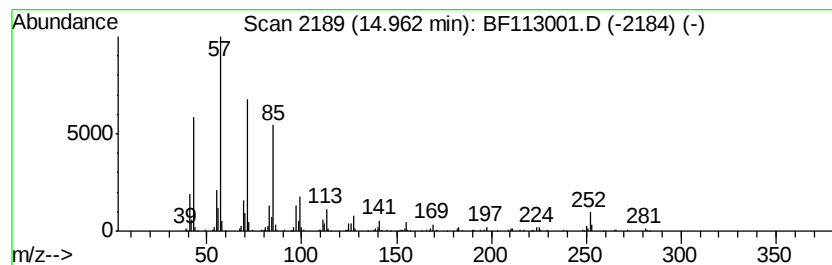
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Heneicosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.96 | 5.82 ng | 358719 | Perylene-d12     | 15.27 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|-----------------------|--------------|-----|---------|--------------|------|
| 1       | Heneicosane           |              | 296 | C21H44  | 000629-94-7  | 91   |
| 2       | Hexacosane            |              | 366 | C26H54  | 000630-01-3  | 91   |
| 3       | Heptadecane, 9-octyl- |              | 352 | C25H52  | 007225-64-1  | 91   |
| 4       | Eicosane, 2-methyl-   |              | 296 | C21H44  | 001560-84-5  | 91   |
| 5       | 2-methyloctacosane    |              | 408 | C29H60  | 1000376-72-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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

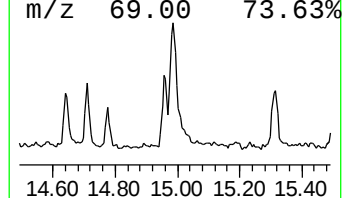
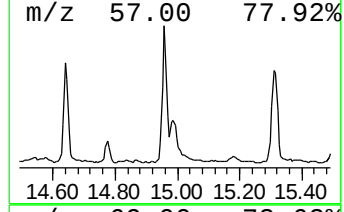
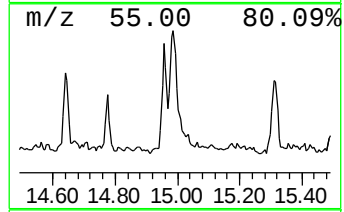
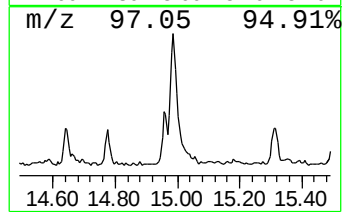
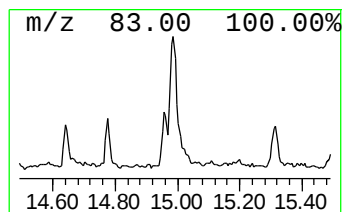
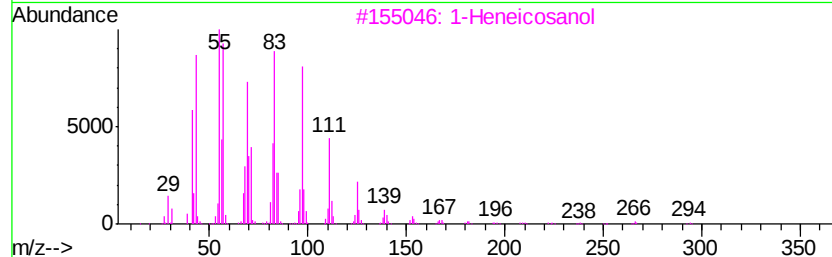
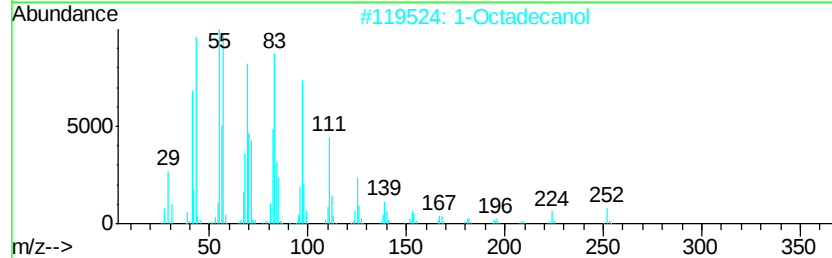
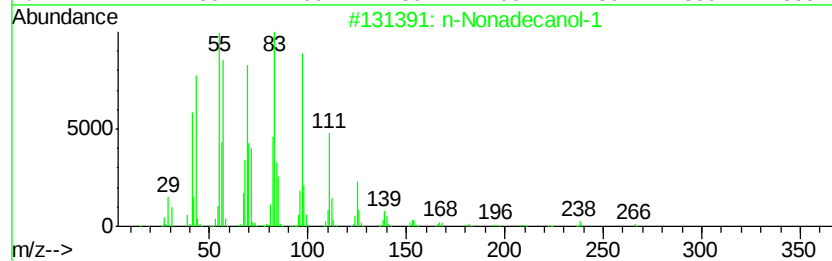
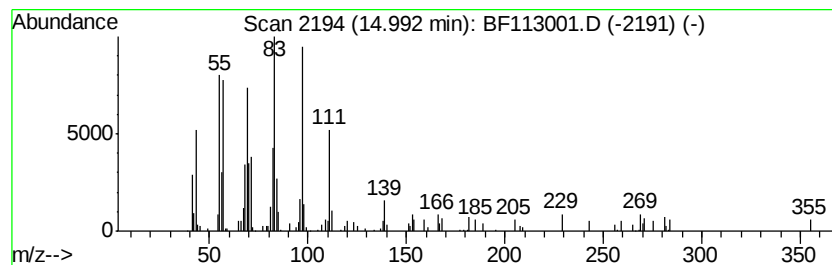
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 n-Nonadecanol-1 Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.99 | 4.79 ng | 294797 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | n-Nonadecanol-1                     | 284 | C19H40O    | 001454-84-8 | 93   |
| 2    |    | 1-Octadecanol                       | 270 | C18H38O    | 000112-92-5 | 87   |
| 3    |    | 1-Heneicosanol                      | 312 | C21H44O    | 015594-90-8 | 81   |
| 4    |    | n-Heptadecanol-1                    | 256 | C17H36O    | 001454-85-9 | 76   |
| 5    |    | Acetic acid, chloro-, octadecyl ... | 346 | C20H39ClO2 | 005348-82-3 | 70   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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

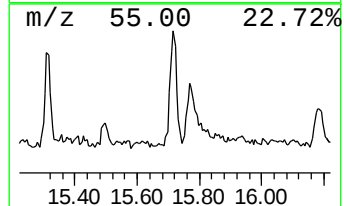
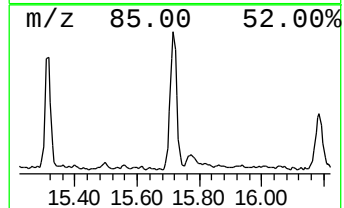
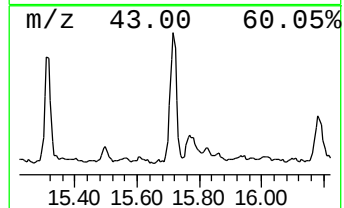
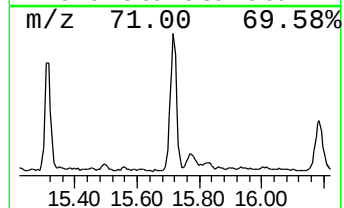
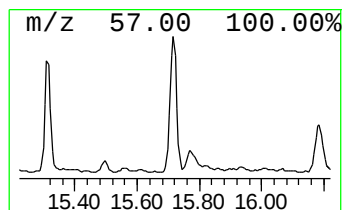
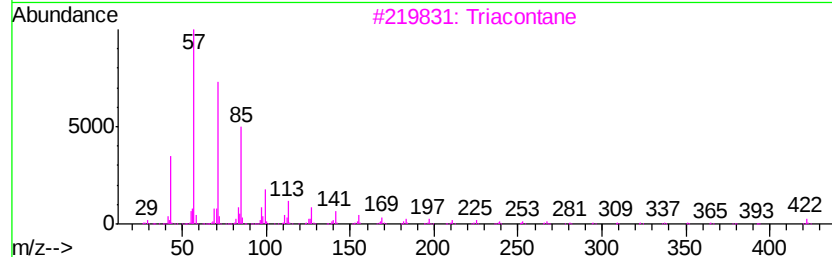
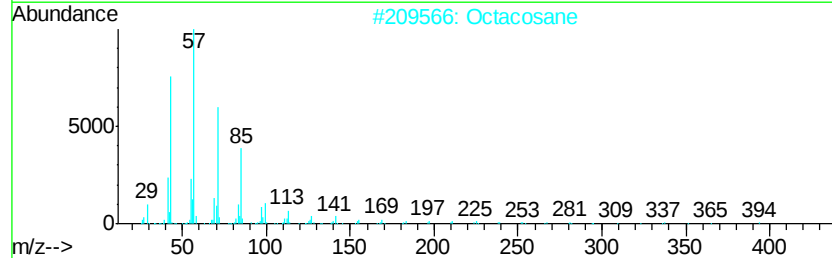
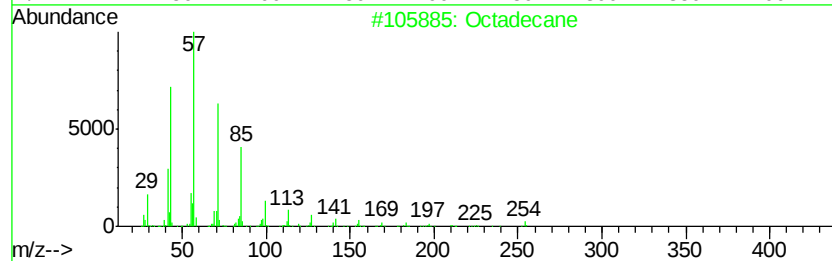
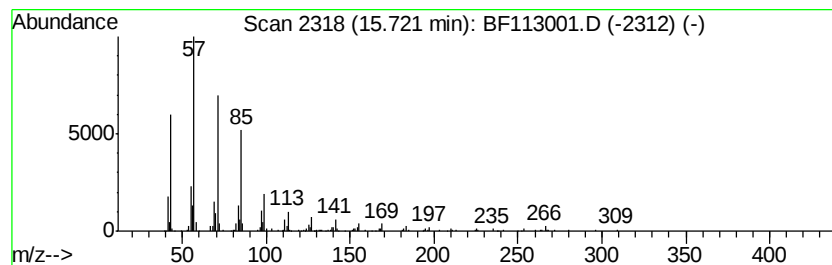
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Triacontane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.72 | 5.79 ng | 356787 | Perylene-d12     | 15.27 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Octadecane        | 254 | C18H38  | 000593-45-3 | 93   |
| 2    |    |   | Octacosane        | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    |   | Triacontane       | 422 | C30H62  | 000638-68-6 | 91   |
| 4    |    |   | Tetracosane       | 338 | C24H50  | 000646-31-1 | 91   |
| 5    |    |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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

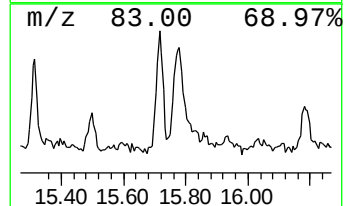
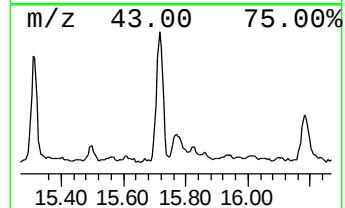
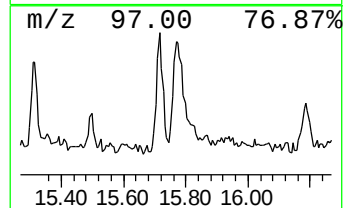
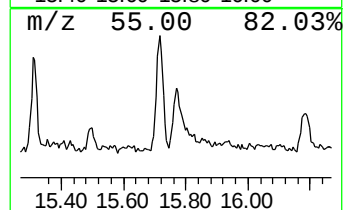
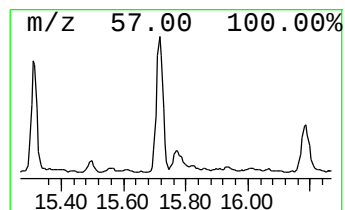
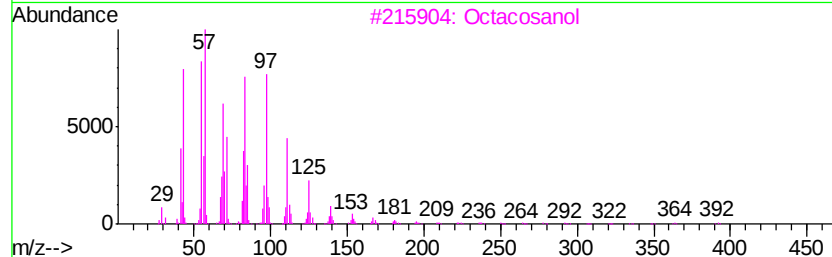
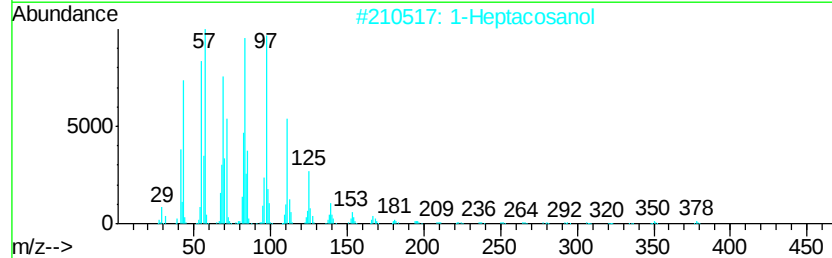
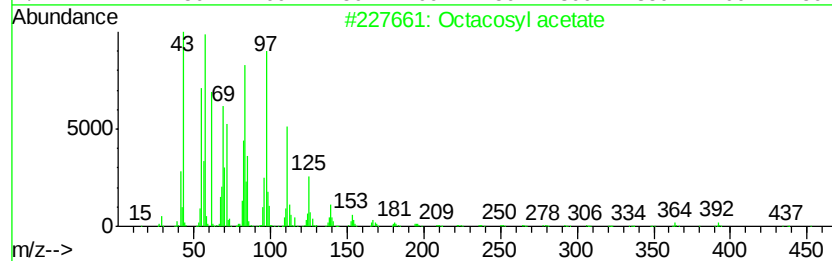
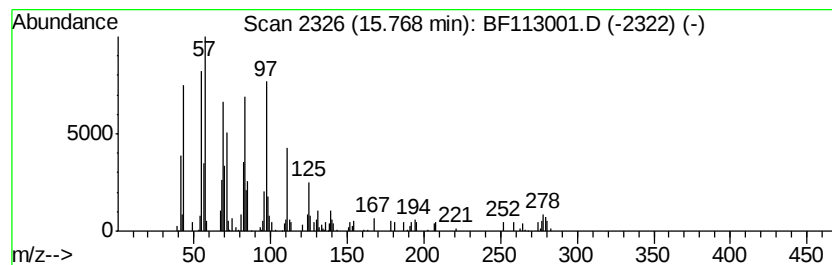
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Octacosyl acetate Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.77 | 2.55 ng | 157263 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#         | Qual |
|------|----|--------------------|-----|----------|--------------|------|
| 1    | 5  | Octacosyl acetate  | 452 | C30H60O2 | 018206-97-8  | 95   |
| 2    |    | 1-Heptacosanol     | 396 | C27H56O  | 002004-39-9  | 95   |
| 3    |    | Octacosanol        | 410 | C28H58O  | 000557-61-9  | 94   |
| 4    |    | Heptacosyl acetate | 438 | C29H58O2 | 1000351-78-2 | 94   |
| 5    |    | n-Tetracosanol-1   | 354 | C24H50O  | 000506-51-4  | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113001.D  
Acq On : 12 Mar 2019 14:26  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

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

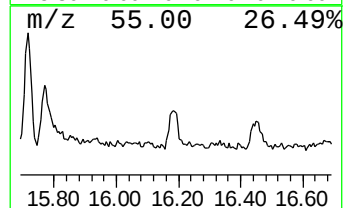
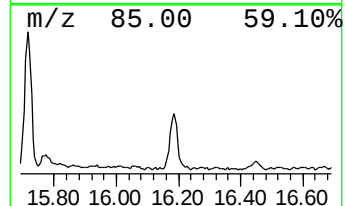
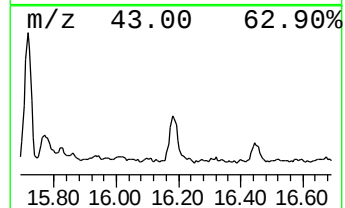
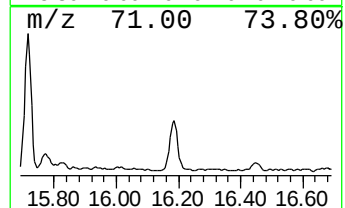
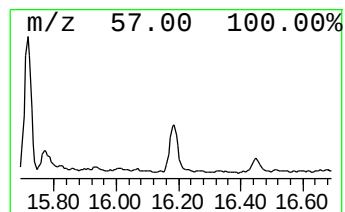
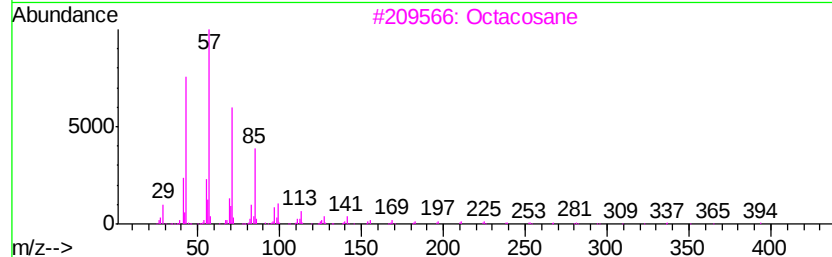
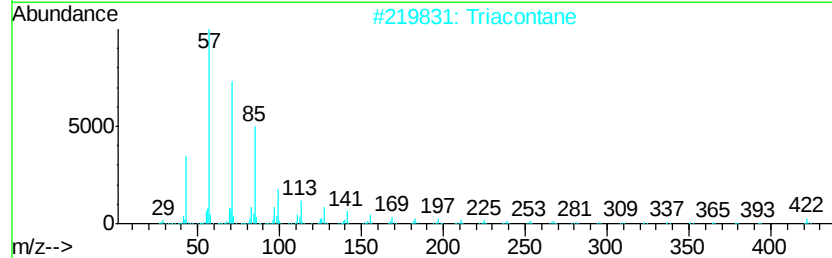
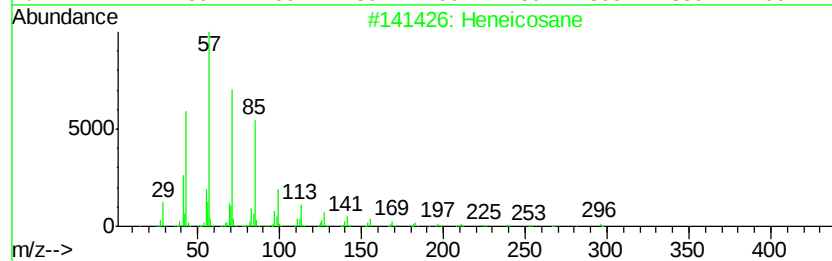
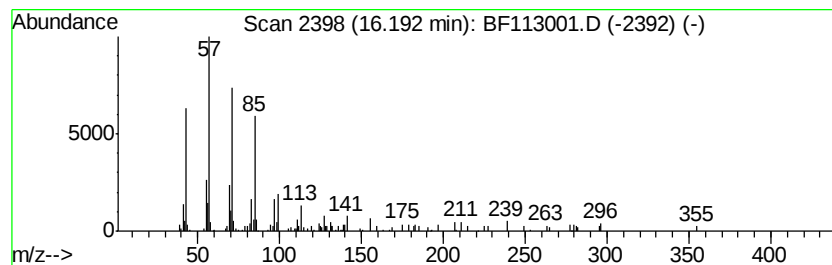
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 unknown16.19 Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.19 | 2.73 ng | 168463 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Heneicosane                         | 296 | C21H44    | 000629-94-7  | 97   |
| 2    |    | Triacontane                         | 422 | C30H62    | 000638-68-6  | 90   |
| 3    |    | Octacosane                          | 394 | C28H58    | 000630-02-4  | 87   |
| 4    |    | Heptadecane, 9-octyl-               | 352 | C25H52    | 007225-64-1  | 87   |
| 5    |    | Sulfurous acid, butyl undecyl ester | 292 | C15H32O3S | 1000309-17-8 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031219\  
 Data File : BF113001.D  
 Acq On : 12 Mar 2019 14:26  
 Operator : JU/SJ  
 Sample : K1817-14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

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 |
| unknown6.50          | 6.50  | 59.7    | ng    | 3320110  | 1                     | 6.73  | 1112390 | 20.0 |
| n-Hexadecanoic acid  | 11.78 | 16.2    | ng    | 1329390  | 4                     | 11.24 | 1638620 | 20.0 |
| Anthracene, 1-met... | 11.84 | 2.0     | ng    | 167558   | 4                     | 11.24 | 1638620 | 20.0 |
| Octadecanoic acid    | 12.56 | 7.0     | ng    | 528107   | 5                     | 13.86 | 1509790 | 20.0 |
| 5-Eicosene, (E)-     | 13.72 | 9.2     | ng    | 696305   | 5                     | 13.86 | 1509790 | 20.0 |
| Cetene               | 14.35 | 5.8     | ng    | 434542   | 5                     | 13.86 | 1509790 | 20.0 |
| Eicosane             | 14.64 | 4.3     | ng    | 264072   | 6                     | 15.27 | 1231930 | 20.0 |
| Octadecanal          | 14.77 | 2.0     | ng    | 125467   | 6                     | 15.27 | 1231930 | 20.0 |
| Heneicosane          | 14.96 | 5.8     | ng    | 358719   | 6                     | 15.27 | 1231930 | 20.0 |
| n-Nonadecanol-1      | 14.99 | 4.8     | ng    | 294797   | 6                     | 15.27 | 1231930 | 20.0 |
| triacontane          | 15.72 | 5.8     | ng    | 356787   | 6                     | 15.27 | 1231930 | 20.0 |
| Octacosyl acetate    | 15.77 | 2.5     | ng    | 157263   | 6                     | 15.27 | 1231930 | 20.0 |
| unknown16.19         | 16.19 | 2.7     | ng    | 168463   | 6                     | 15.27 | 1231930 | 20.0 |