

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF122018\  
 Data File : BF111660.D  
 Acq On : 21 Dec 2018 1:09  
 Operator : JU/SJ  
 Sample : J6447-06 10X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS025-0006-01

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-BF121918.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.187       | 14            | 17          | 25           | rVB3     | 25054          | 35751         | 2.41%           | 0.185%        |
| 2         | 3.993       | 320           | 324         | 331          | rVB      | 46289          | 61643         | 4.15%           | 0.320%        |
| 3         | 5.098       | 509           | 512         | 517          | rVB      | 23697          | 24135         | 1.63%           | 0.125%        |
| 4         | 5.504       | 577           | 581         | 585          | rBV      | 423601         | 384079        | 25.87%          | 1.991%        |
| 5         | 6.510       | 748           | 752         | 759          | rBV      | 496811         | 427074        | 28.76%          | 2.214%        |
| 6         | 6.657       | 774           | 777         | 781          | rVB      | 448067         | 398831        | 26.86%          | 2.068%        |
| 7         | 6.763       | 791           | 795         | 801          | rVB2     | 19043          | 22017         | 1.48%           | 0.114%        |
| 8         | 6.898       | 814           | 818         | 821          | rBV      | 1323175        | 1173263       | 79.01%          | 6.083%        |
| 9         | 6.928       | 821           | 823         | 826          | rVB      | 75679          | 55174         | 3.72%           | 0.286%        |
| 10        | 7.051       | 841           | 844         | 847          | rVB      | 402050         | 312774        | 21.06%          | 1.622%        |
| 11        | 7.445       | 907           | 911         | 915          | rBV      | 306151         | 231669        | 15.60%          | 1.201%        |
| 12        | 7.863       | 976           | 982         | 985          | rBV      | 60630          | 68676         | 4.63%           | 0.356%        |
| 13        | 8.081       | 1016          | 1019        | 1022         | rBV      | 20166          | 17388         | 1.17%           | 0.090%        |
| 14        | 8.175       | 1031          | 1035        | 1039         | rBV      | 1699507        | 1449226       | 97.60%          | 7.514%        |
| 15        | 9.245       | 1214          | 1217        | 1221         | rVB      | 479225         | 415853        | 28.01%          | 2.156%        |
| 16        | 9.380       | 1237          | 1240        | 1243         | rBV      | 70354          | 53054         | 3.57%           | 0.275%        |
| 17        | 9.651       | 1281          | 1286        | 1290         | rBV2     | 47724          | 62762         | 4.23%           | 0.325%        |
| 18        | 9.933       | 1330          | 1334        | 1337         | rVB      | 1562966        | 1438414       | 96.87%          | 7.458%        |
| 19        | 10.710      | 1463          | 1466        | 1472         | rBV      | 236583         | 193274        | 13.02%          | 1.002%        |
| 20        | 10.963      | 1505          | 1509        | 1514         | rBV2     | 19994          | 19109         | 1.29%           | 0.099%        |
| 21        | 11.057      | 1523          | 1525        | 1532         | rBV3     | 31638          | 34410         | 2.32%           | 0.178%        |
| 22        | 11.251      | 1555          | 1558        | 1562         | rVB      | 85277          | 73969         | 4.98%           | 0.384%        |
| 23        | 11.416      | 1582          | 1586        | 1589         | rVB      | 1255073        | 1189165       | 80.09%          | 6.165%        |
| 24        | 11.469      | 1589          | 1595        | 1601         | rVB3     | 47802          | 60294         | 4.06%           | 0.313%        |
| 25        | 11.639      | 1621          | 1624        | 1627         | rVB2     | 25241          | 25686         | 1.73%           | 0.133%        |
| 26        | 11.933      | 1671          | 1674        | 1682         | rBV2     | 58026          | 56810         | 3.83%           | 0.295%        |
| 27        | 12.274      | 1729          | 1732        | 1735         | rBV2     | 42420          | 39887         | 2.69%           | 0.207%        |
| 28        | 12.504      | 1766          | 1771        | 1774         | rBV2     | 30642          | 32478         | 2.19%           | 0.168%        |
| 29        | 12.545      | 1774          | 1778        | 1785         | rVB5     | 57792          | 70768         | 4.77%           | 0.367%        |
| 30        | 12.680      | 1796          | 1801        | 1804         | rBV3     | 41157          | 40151         | 2.70%           | 0.208%        |
| 31        | 12.721      | 1805          | 1808        | 1811         | rVB      | 81895          | 67377         | 4.54%           | 0.349%        |
| 32        | 12.874      | 1831          | 1834        | 1839         | rVB5     | 17552          | 20043         | 1.35%           | 0.104%        |
| 33        | 12.992      | 1850          | 1854        | 1860         | rVB      | 432510         | 381184        | 25.67%          | 1.976%        |
| 34        | 13.092      | 1868          | 1871        | 1874         | rBV      | 67016          | 56011         | 3.77%           | 0.290%        |

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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-BF121918.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 13.121 | 1874 | 1876 | 1880 | rVB4 | 29994   | 39743   | 2.68%   | 0.206% |
| 36 | 13.186 | 1884 | 1887 | 1888 | rBV  | 185730  | 156303  | 10.53%  | 0.810% |
| 37 | 13.204 | 1888 | 1890 | 1893 | rVV  | 103477  | 102332  | 6.89%   | 0.531% |
| 38 | 13.233 | 1893 | 1895 | 1899 | rVB  | 117472  | 91224   | 6.14%   | 0.473% |
| 39 | 13.321 | 1907 | 1910 | 1912 | rBV3 | 25491   | 17638   | 1.19%   | 0.091% |
| 40 | 13.374 | 1912 | 1919 | 1922 | rVB2 | 216444  | 203235  | 13.69%  | 1.054% |
| 41 | 13.404 | 1922 | 1924 | 1927 | rBV3 | 48175   | 38567   | 2.60%   | 0.200% |
| 42 | 13.445 | 1928 | 1931 | 1934 | rBV2 | 24789   | 19707   | 1.33%   | 0.102% |
| 43 | 13.480 | 1934 | 1937 | 1940 | rBV3 | 70883   | 72785   | 4.90%   | 0.377% |
| 44 | 13.545 | 1945 | 1948 | 1950 | rBV3 | 15302   | 20296   | 1.37%   | 0.105% |
| 45 | 13.586 | 1950 | 1955 | 1959 | rVB2 | 135414  | 184224  | 12.41%  | 0.955% |
| 46 | 13.692 | 1969 | 1973 | 1976 | rBV  | 154208  | 137158  | 9.24%   | 0.711% |
| 47 | 13.733 | 1978 | 1980 | 1986 | rVB3 | 48379   | 49129   | 3.31%   | 0.255% |
| 48 | 13.798 | 1986 | 1991 | 1993 | rBV6 | 15715   | 21184   | 1.43%   | 0.110% |
| 49 | 13.892 | 2002 | 2007 | 2015 | rBV3 | 607393  | 939805  | 63.29%  | 4.873% |
| 50 | 13.951 | 2015 | 2017 | 2023 | rVV3 | 46766   | 53474   | 3.60%   | 0.277% |
| 51 | 14.021 | 2025 | 2029 | 2030 | rVV2 | 45654   | 61388   | 4.13%   | 0.318% |
| 52 | 14.045 | 2030 | 2033 | 2037 | rVV  | 1481186 | 1323338 | 89.12%  | 6.861% |
| 53 | 14.080 | 2037 | 2039 | 2043 | rVB  | 203450  | 175437  | 11.81%  | 0.910% |
| 54 | 14.215 | 2058 | 2062 | 2067 | rBV4 | 73711   | 123380  | 8.31%   | 0.640% |
| 55 | 14.262 | 2067 | 2070 | 2073 | rVB3 | 39935   | 41579   | 2.80%   | 0.216% |
| 56 | 14.298 | 2073 | 2076 | 2080 | rBV2 | 86638   | 79998   | 5.39%   | 0.415% |
| 57 | 14.339 | 2080 | 2083 | 2086 | rBV2 | 129164  | 116405  | 7.84%   | 0.604% |
| 58 | 14.392 | 2089 | 2092 | 2094 | rBV2 | 41144   | 31059   | 2.09%   | 0.161% |
| 59 | 14.521 | 2111 | 2114 | 2121 | rBV  | 1363134 | 1484869 | 100.00% | 7.699% |
| 60 | 14.574 | 2121 | 2123 | 2127 | rVB  | 45314   | 48150   | 3.24%   | 0.250% |
| 61 | 14.645 | 2133 | 2135 | 2138 | rBV2 | 46991   | 42388   | 2.85%   | 0.220% |
| 62 | 14.762 | 2152 | 2155 | 2157 | rBV4 | 32082   | 27644   | 1.86%   | 0.143% |
| 63 | 14.804 | 2160 | 2162 | 2165 | rVV  | 100983  | 111592  | 7.52%   | 0.579% |
| 64 | 14.839 | 2165 | 2168 | 2174 | rVB3 | 84328   | 141686  | 9.54%   | 0.735% |
| 65 | 14.980 | 2188 | 2192 | 2197 | rVB  | 229114  | 262112  | 17.65%  | 1.359% |
| 66 | 15.180 | 2221 | 2226 | 2227 | rBV  | 350116  | 394807  | 26.59%  | 2.047% |
| 67 | 15.198 | 2227 | 2229 | 2235 | rVV  | 394567  | 449288  | 30.26%  | 2.329% |
| 68 | 15.257 | 2236 | 2239 | 2248 | rVB  | 89835   | 122955  | 8.28%   | 0.637% |
| 69 | 15.345 | 2251 | 2254 | 2260 | rVB5 | 45991   | 62383   | 4.20%   | 0.323% |
| 70 | 15.521 | 2279 | 2284 | 2288 | rBV  | 799000  | 965696  | 65.04%  | 5.007% |
| 71 | 15.568 | 2289 | 2292 | 2294 | rVB2 | 39861   | 39498   | 2.66%   | 0.205% |

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ClientSampleId :  
P001-SS025-0006-01

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-BF121918.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |       |        |        |        |        |
|----|--------|------|------|------|-------|--------|--------|--------|--------|
| 72 | 15.768 | 2321 | 2326 | 2330 | rBV   | 261373 | 369888 | 24.91% | 1.918% |
| 73 | 16.015 | 2363 | 2368 | 2371 | rBV   | 164138 | 243326 | 16.39% | 1.262% |
| 74 | 16.051 | 2371 | 2374 | 2381 | rVV   | 158120 | 257711 | 17.36% | 1.336% |
| 75 | 16.133 | 2383 | 2388 | 2392 | rVV2  | 86175  | 152642 | 10.28% | 0.791% |
| 76 | 16.174 | 2393 | 2395 | 2403 | rVB9  | 41699  | 65608  | 4.42%  | 0.340% |
| 77 | 16.827 | 2500 | 2506 | 2511 | rBV4  | 94690  | 182189 | 12.27% | 0.945% |
| 78 | 17.139 | 2556 | 2559 | 2565 | rVB6  | 33748  | 53247  | 3.59%  | 0.276% |
| 79 | 17.203 | 2568 | 2570 | 2571 | rBV2  | 24506  | 20526  | 1.38%  | 0.106% |
| 80 | 17.321 | 2585 | 2590 | 2594 | rBV4  | 53734  | 122644 | 8.26%  | 0.636% |
| 81 | 17.374 | 2595 | 2599 | 2607 | rVB3  | 84991  | 173552 | 11.69% | 0.900% |
| 82 | 17.621 | 2636 | 2641 | 2650 | rBV9  | 75897  | 177324 | 11.94% | 0.919% |
| 83 | 17.721 | 2654 | 2658 | 2668 | rVB9  | 64527  | 156405 | 10.53% | 0.811% |
| 84 | 18.674 | 2815 | 2820 | 2827 | rVB10 | 25679  | 67692  | 4.56%  | 0.351% |

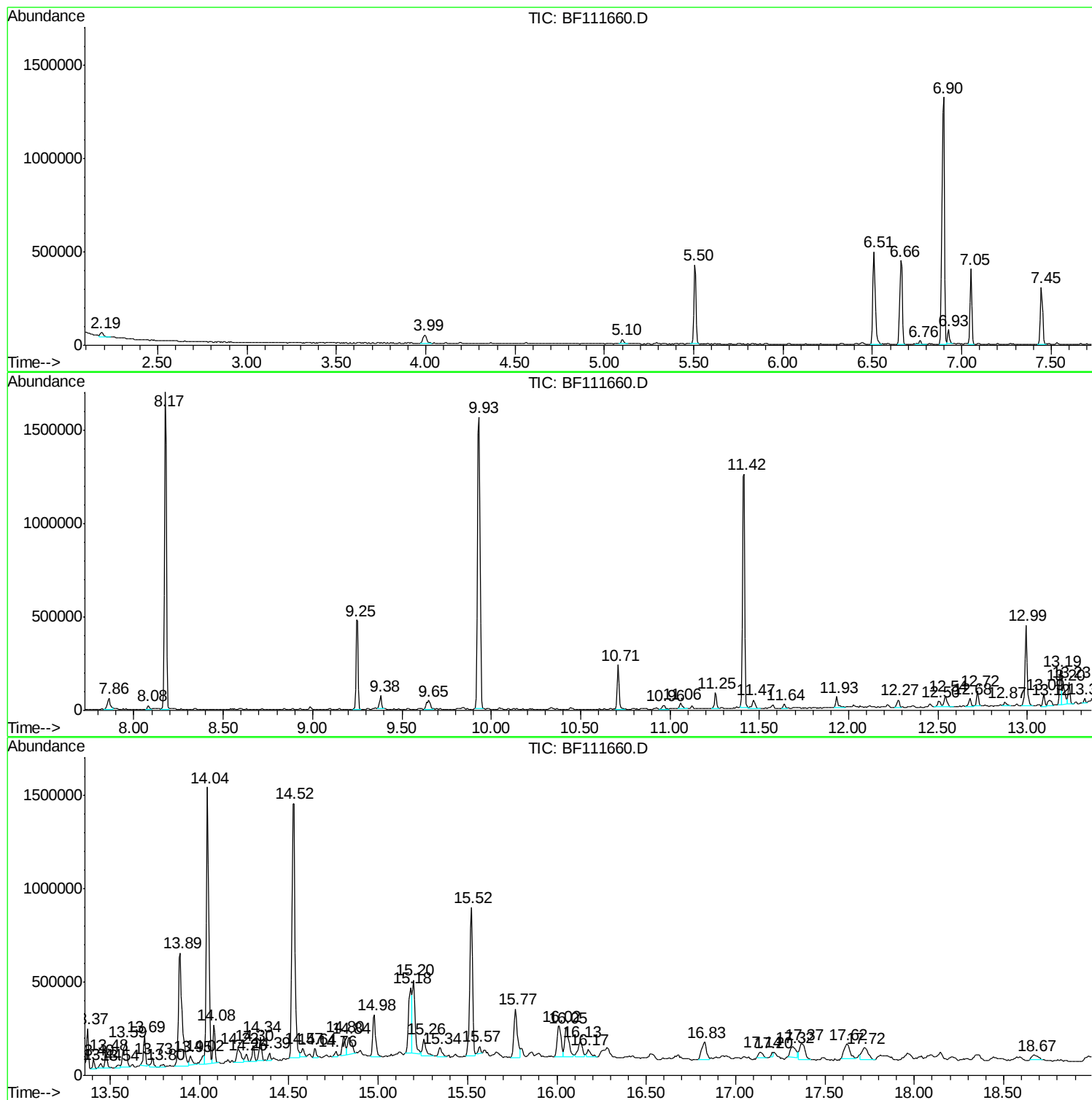
Sum of corrected areas: 19287609

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.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\BF122018\  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

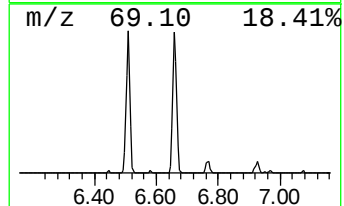
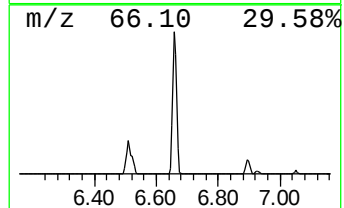
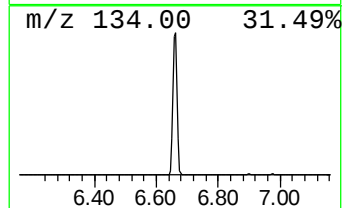
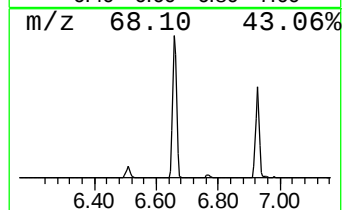
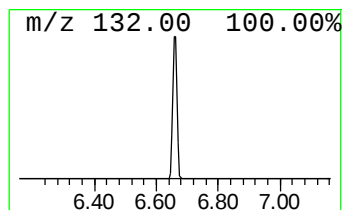
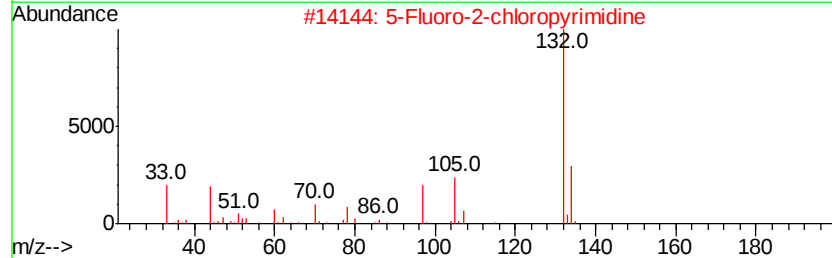
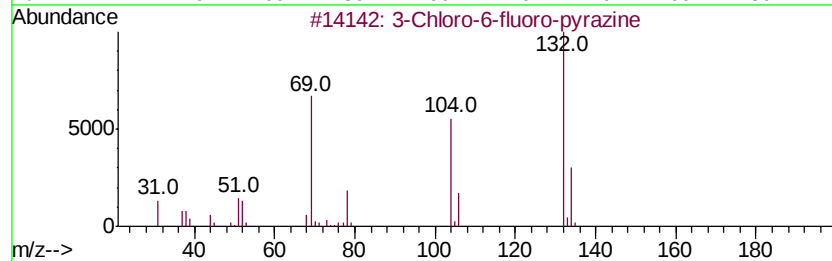
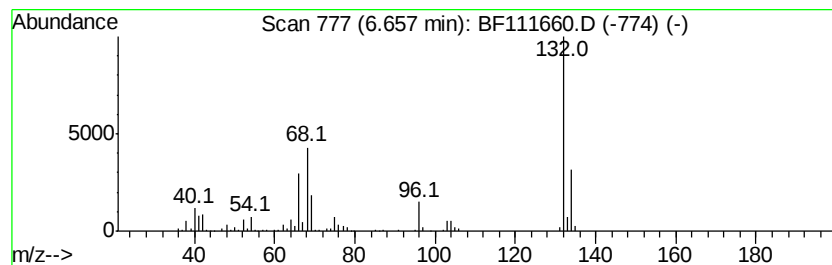
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.66 Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.66 | 6.80 ng | 398831 | 1,4-Dichlorobenzene-d4 | 6.90 |

| 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    |    | Tranvlcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

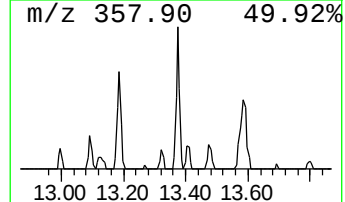
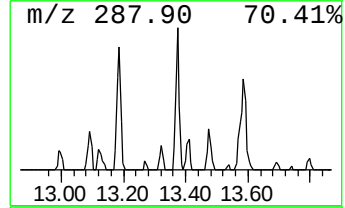
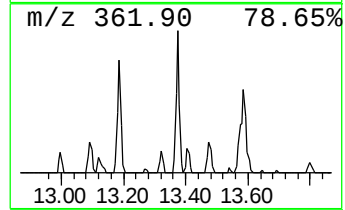
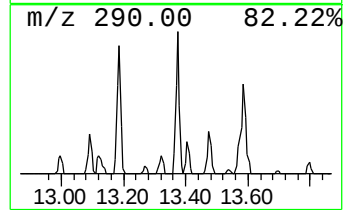
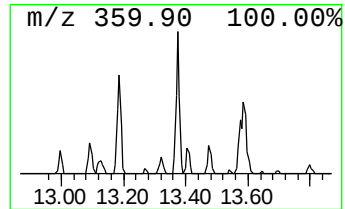
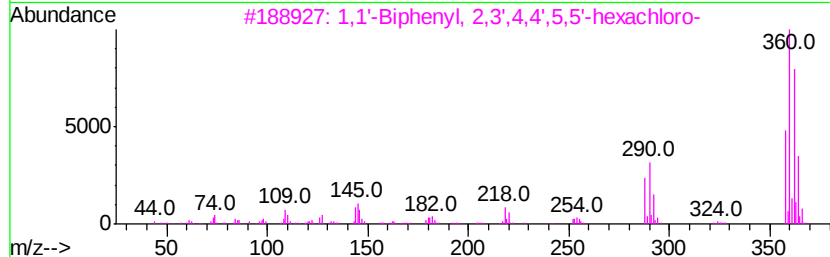
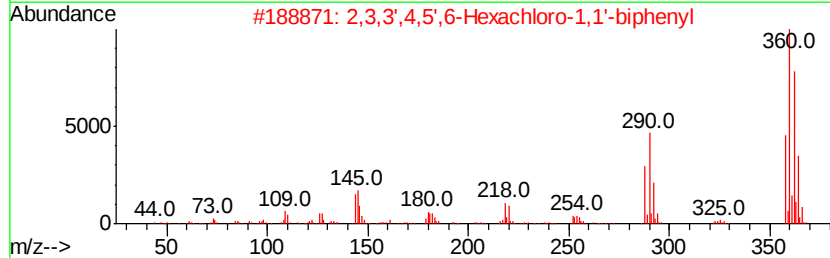
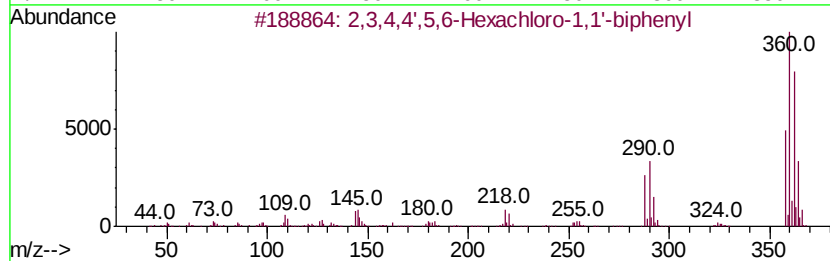
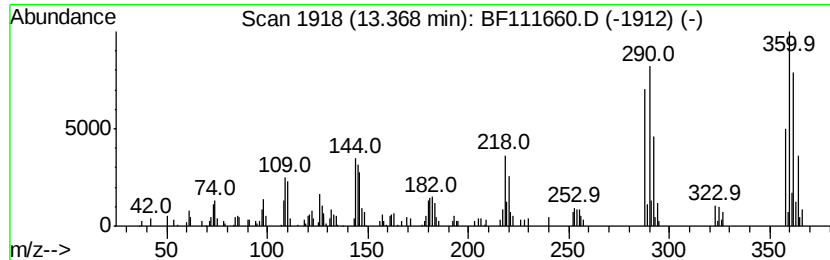
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 2,3,4,4',5,6-Hexachloro-1,1... Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.37 | 3.07 ng | 203235 | Chrysene-d12     | 14.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2,3,4,4',5,6-Hexachloro-1,1'-bip... | 358 | C12H4Cl6 | 041411-63-6 | 99   |
| 2    |    | 2,3,3',4,5',6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-43-8 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 052663-72-6 | 99   |
| 4    |    | 2,3,3',4,4',6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-42-7 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,2',4,4',5,5'-he... | 358 | C12H4Cl6 | 035065-27-1 | 99   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

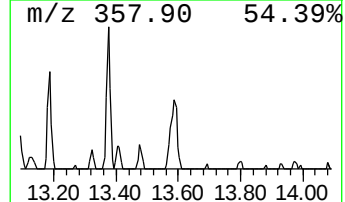
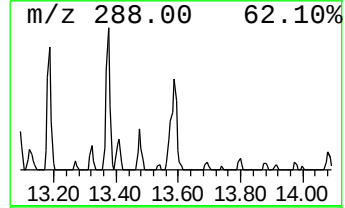
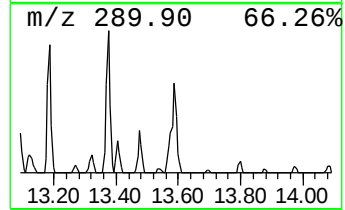
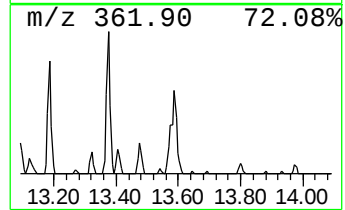
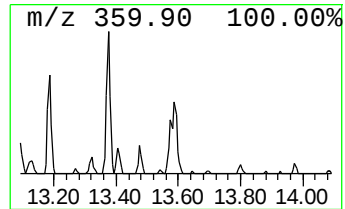
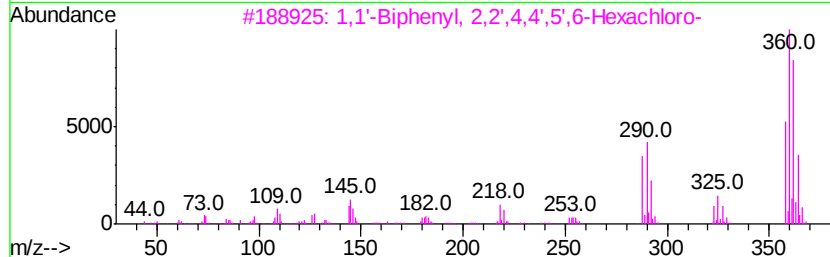
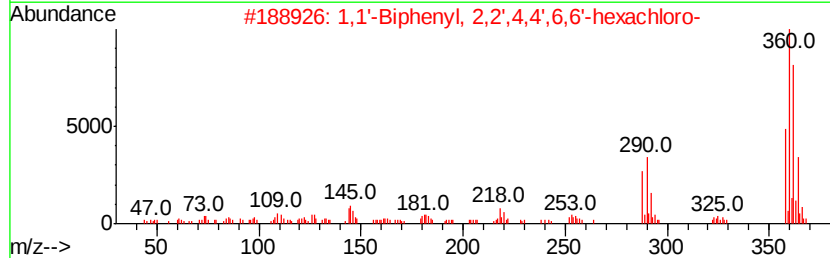
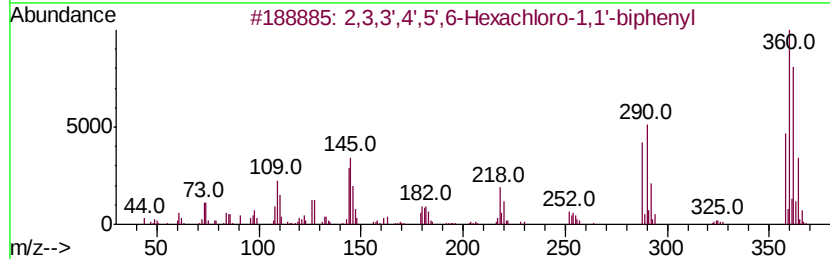
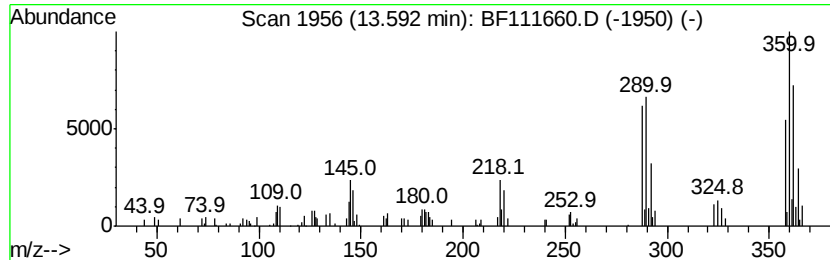
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 2,3,3',4',5',6-Hexachloro-1... Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.59 | 2.78 ng | 184224 | Chrysene-d12     | 14.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2,3,3',4',5',6-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 074472-45-0 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',4,4',6,6'-he... | 358 | C12H4Cl6 | 033979-03-2 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',4,4',5',6-He... | 358 | C12H4Cl6 | 060145-22-4 | 99   |
| 4    |    | 2,3,3',4,4',6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-42-7 | 99   |
| 5    |    | 2,3,4,4',5,6-Hexachloro-1,1'-bip... | 358 | C12H4Cl6 | 041411-63-6 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

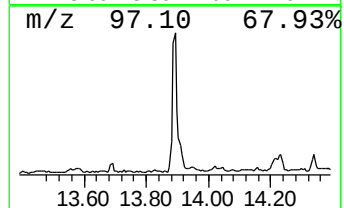
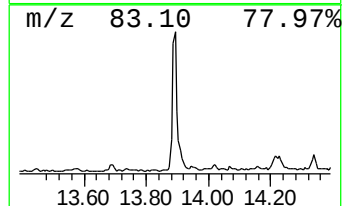
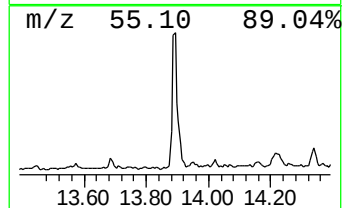
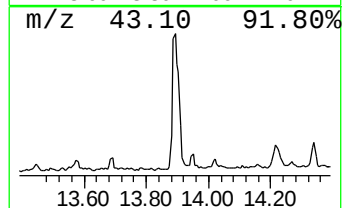
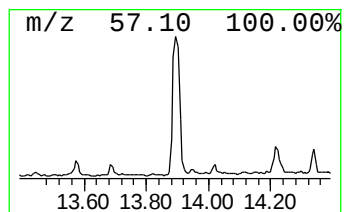
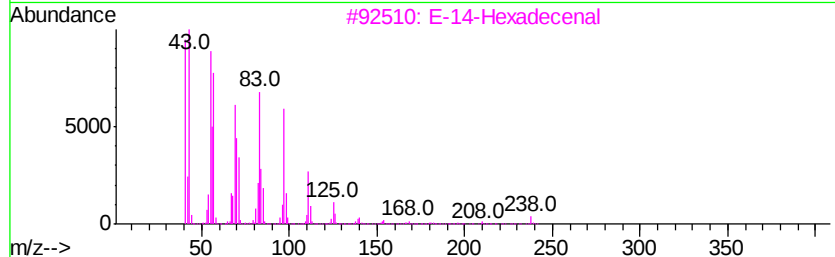
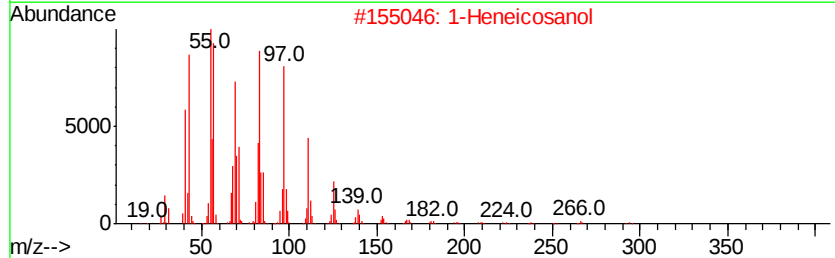
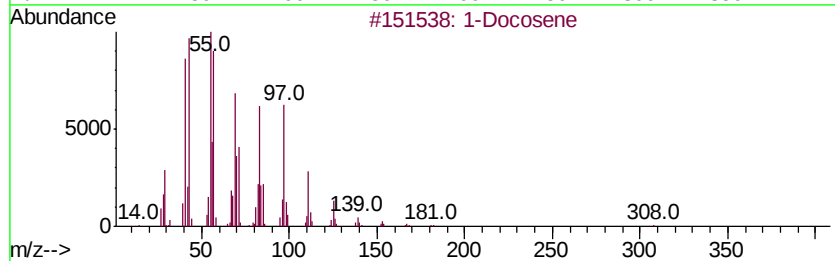
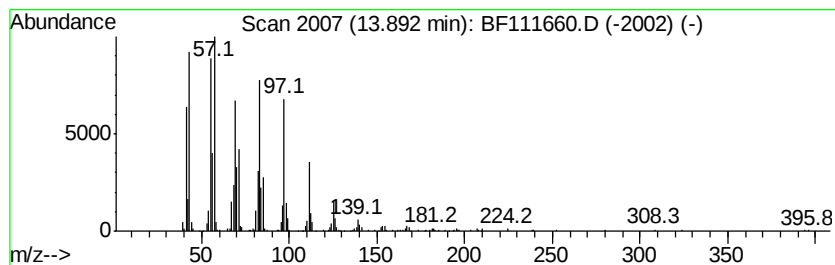
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 1-Docosene Concentration Rank 2

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.89 | 14.20 ng | 939805 | Chrysene-d12     | 14.04 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm     | CAS#        | Qual |
|---------|-------------------------------------|--------------|-----|-------------|-------------|------|
| 1       | 1-Docosene                          |              | 308 | C22H44      | 001599-67-3 | 98   |
| 2       | 1-Heneicosanol                      |              | 312 | C21H44O     | 015594-90-8 | 95   |
| 3       | E-14-Hexadecenal                    |              | 238 | C16H30O     | 330207-53-9 | 95   |
| 4       | Octadecyl trifluoroacetate          |              | 366 | C20H37F3O2  | 079392-43-1 | 94   |
| 5       | Trichloroacetic acid, hexadecyl ... |              | 386 | C18H33Cl3O2 | 074339-54-1 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

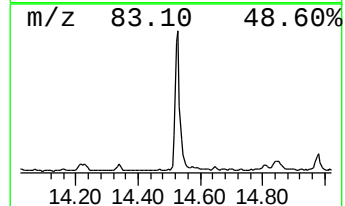
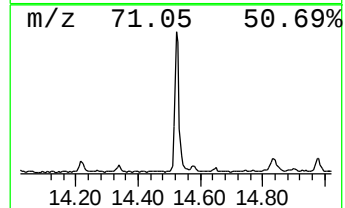
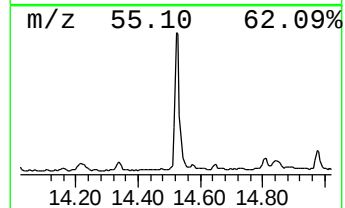
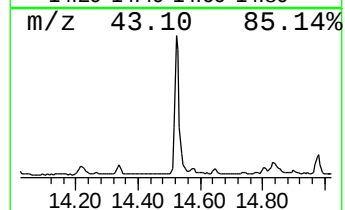
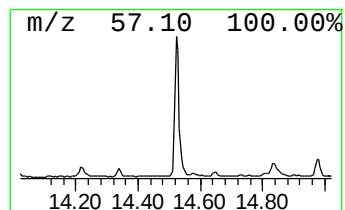
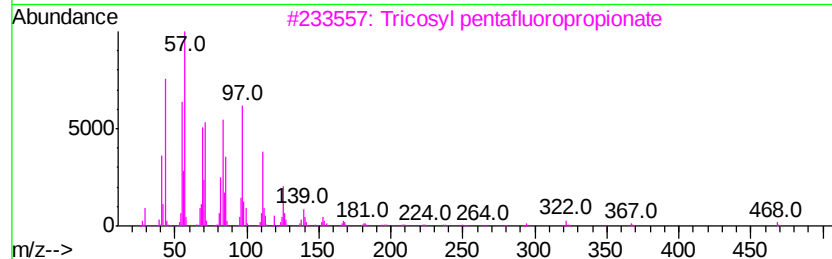
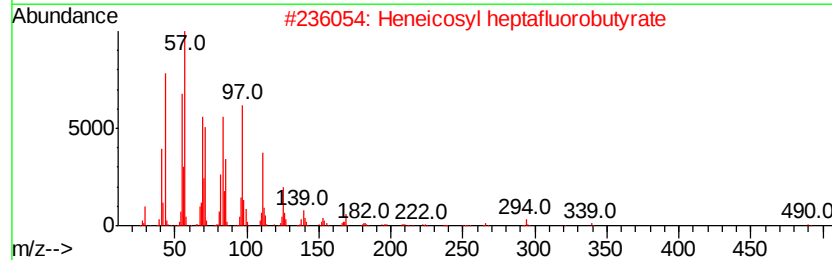
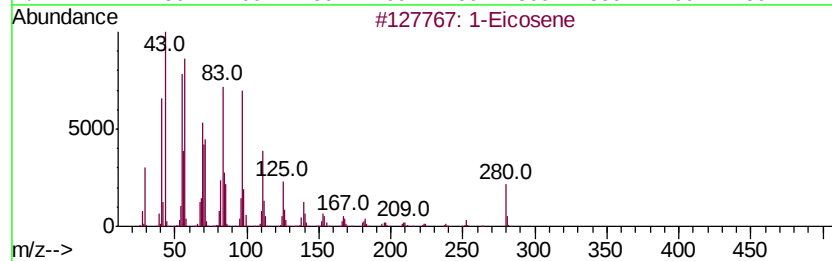
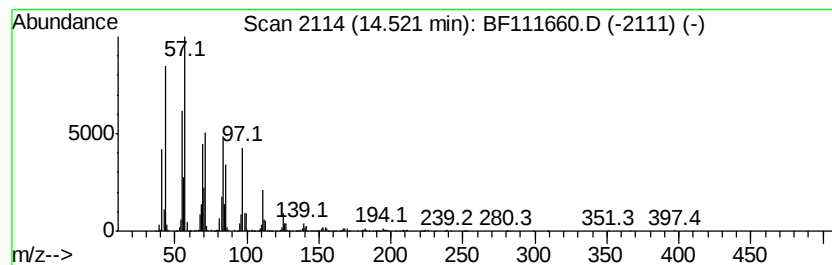
Instrument :  
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ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 1-Eicosene Concentration Rank 1

| R.T.  | EstConc  | Area    | Relative to ISTD               |     | R.T.       |              |      |
|-------|----------|---------|--------------------------------|-----|------------|--------------|------|
| 14.52 | 22.44 ng | 1484870 | Chrysene-d12                   |     | 14.04      |              |      |
| Hit#  | of       | 5       | Tentative ID                   | MW  | MolForm    | CAS#         | Qual |
| 1     |          |         | 1-Eicosene                     | 280 | C20H40     | 003452-07-1  | 95   |
| 2     |          |         | Heneicosyl heptafluorobutyrte  | 508 | C25H43F7O2 | 1000351-83-8 | 91   |
| 3     |          |         | Tricosyl pentafluoropropionate | 486 | C26H47F5O2 | 1000351-81-0 | 91   |
| 4     |          |         | Tetracosyl heptafluorobutyrte  | 550 | C28H49F7O2 | 1000351-83-7 | 91   |
| 5     |          |         | Docosyl pentafluoropropionate  | 472 | C25H45F5O2 | 1000351-80-9 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

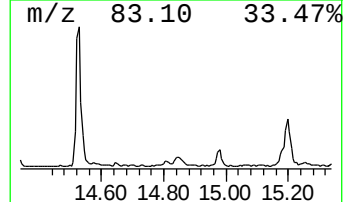
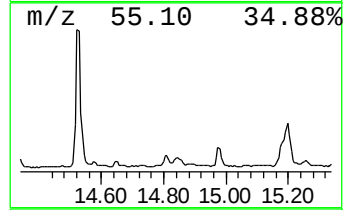
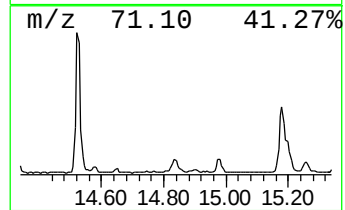
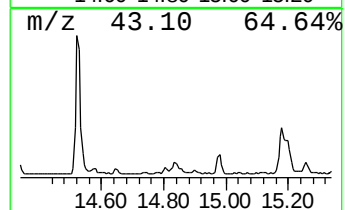
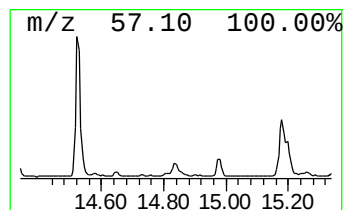
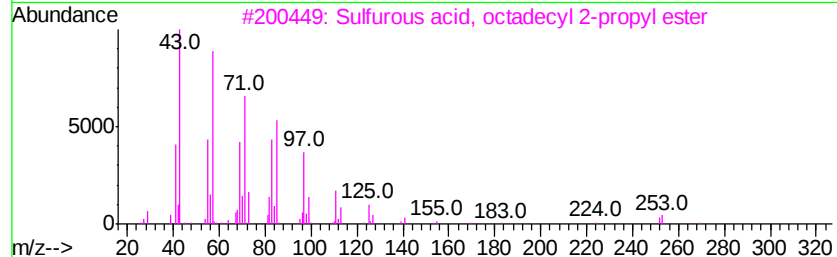
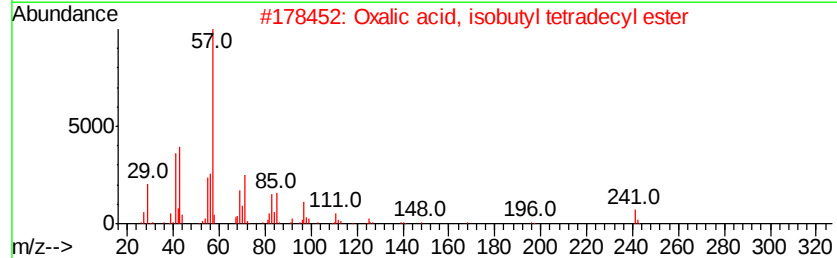
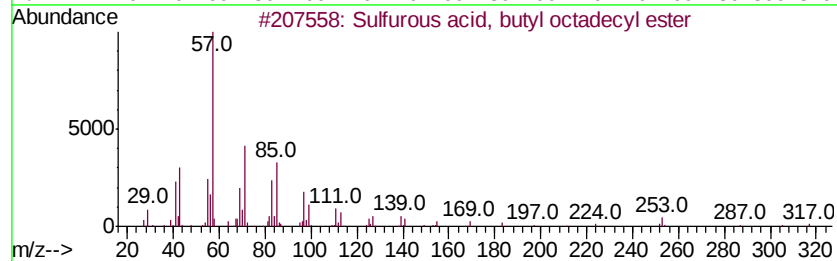
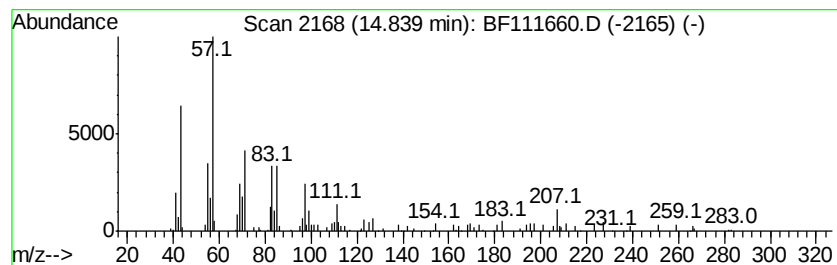
Instrument :  
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ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Sulfurous acid, butyl octadecyl... Concentration Rank 17

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.      |              |      |
|---------|---------|-------------------------------------|------------------|-----------|--------------|------|
| 14.84   | 2.93 ng | 141686                              | Perylene-d12     | 15.52     |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm   | CAS#         | Qual |
| 1       |         | Sulfurous acid, butyl octadecyl ... | 390              | C22H46O3S | 1000309-18-5 | 86   |
| 2       |         | Oxalic acid, isobutyl tetradecyl... | 342              | C20H38O4  | 1000309-37-9 | 86   |
| 3       |         | Sulfurous acid, octadecyl 2-prop... | 376              | C21H44O3S | 1000309-12-7 | 83   |
| 4       |         | Ethanol, 2-(octadecyloxy)-          | 314              | C20H42O2  | 002136-72-3  | 80   |
| 5       |         | Oxalic acid, isobutyl pentadecyl... | 356              | C21H40O4  | 1000309-38-0 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

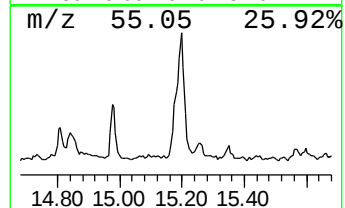
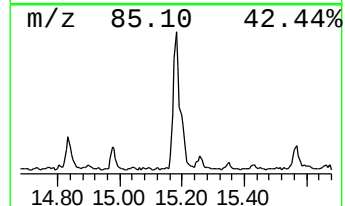
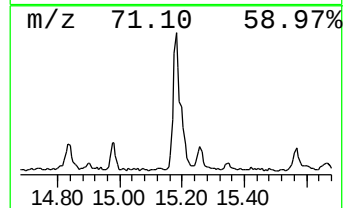
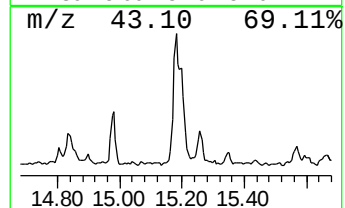
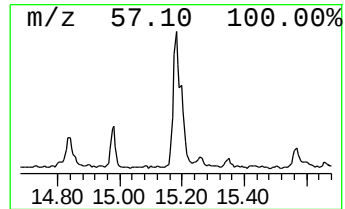
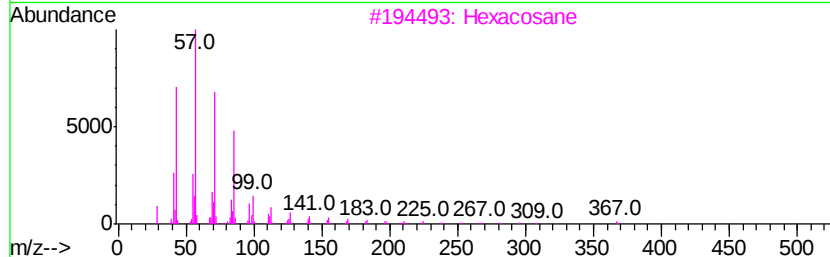
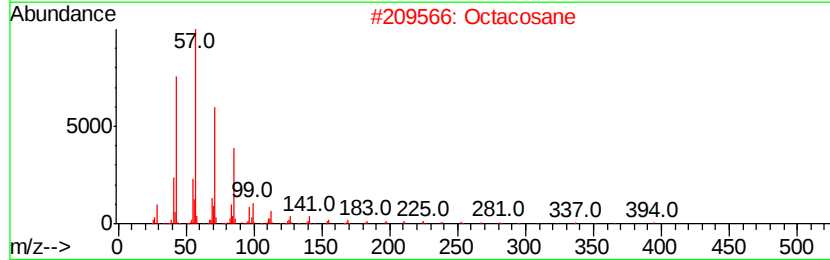
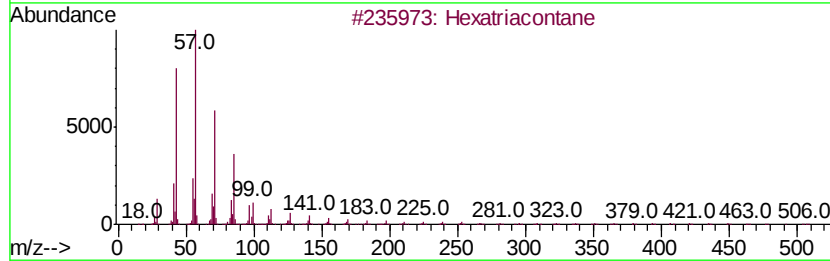
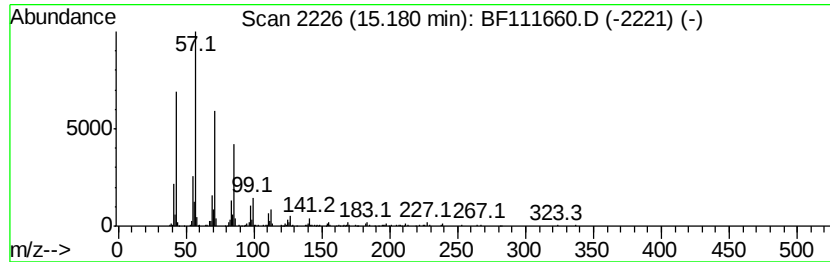
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Hexatriacontane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.18 | 8.18 ng | 394807 | Perylene-d12     | 15.52 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Hexatriacontane    | 507 | C36H74  | 000630-06-8 | 91   |
| 2    |    | Octacosane         | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Hexacosane         | 366 | C26H54  | 000630-01-3 | 91   |
| 4    |    | Heptacosane        | 380 | C27H56  | 000593-49-7 | 91   |
| 5    |    | Docosane, 7-hexyl- | 394 | C28H58  | 055373-86-9 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

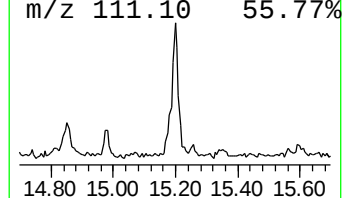
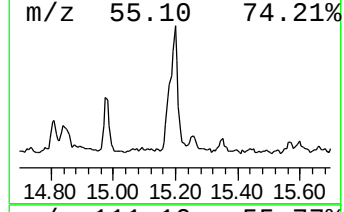
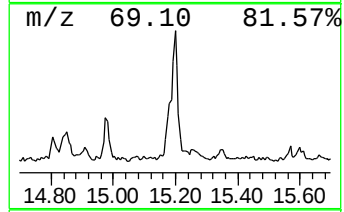
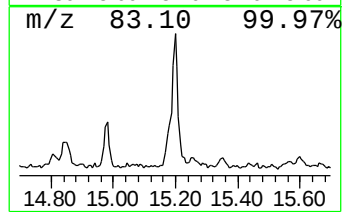
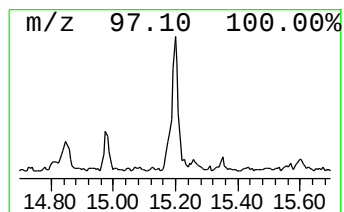
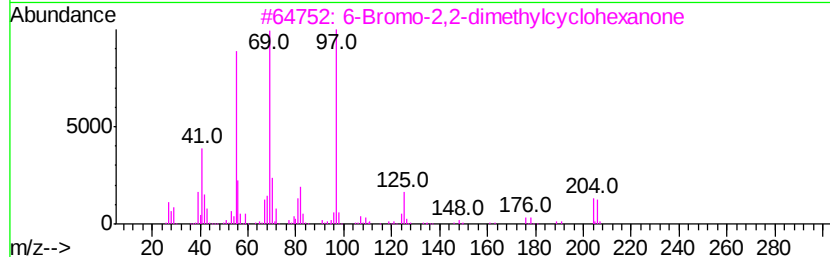
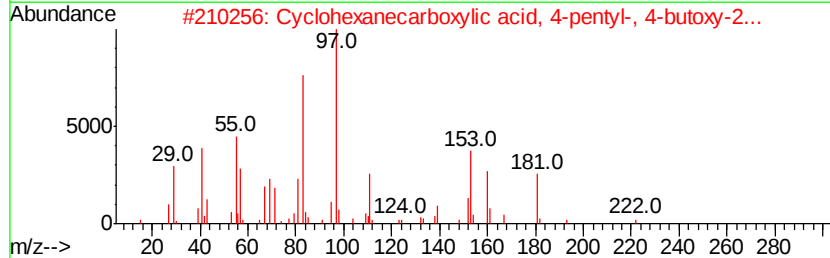
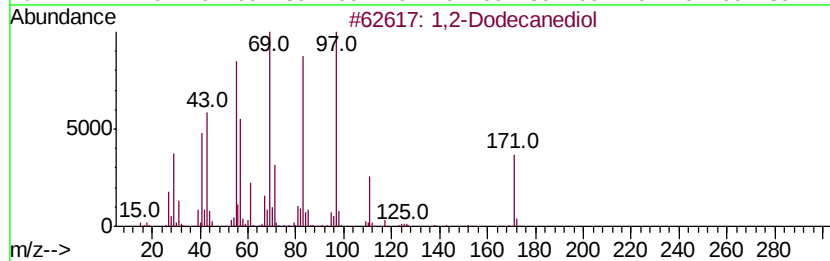
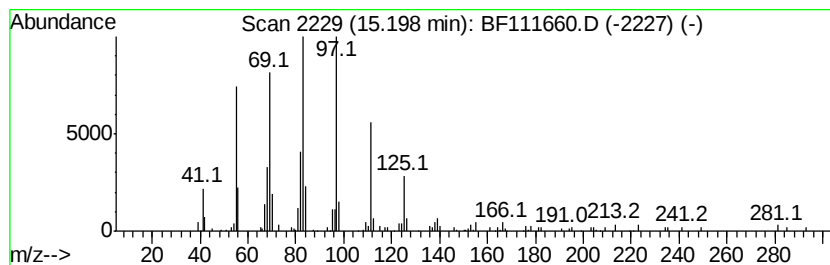
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BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 1,2-Dodecanediol Concentration Rank 3

| R.T.    | EstConc                             | Area           | Relative to ISTD | R.T.      |
|---------|-------------------------------------|----------------|------------------|-----------|
| 15.20   | 9.30 ng                             | 449288         | Perylene-d12     | 15.52     |
| Hit# of | 5                                   | Tentative ID   | MW MolForm       | CAS# Qual |
| 1       | 1,2-Dodecanediol                    | 202 C12H26O2   | 001119-87-5      | 59        |
| 2       | Cyclohexanecarboxylic acid, 4-pe... | 396 C24H32N2O3 | 075941-47-8      | 38        |
| 3       | 6-Bromo-2,2-dimethylcyclohexanone   | 204 C8H13BrO   | 021690-26-6      | 35        |
| 4       | 2-Thiopheneacetic acid, 3,5-dime... | 252 C14H20O2S  | 1000278-92-2     | 35        |
| 5       | Cyclopentanecarboxylic acid, 4-t... | 296 C19H36O2   | 1000280-58-6     | 35        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
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Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

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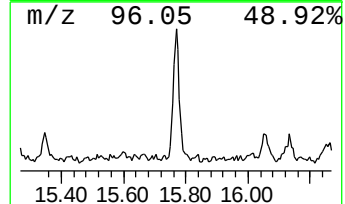
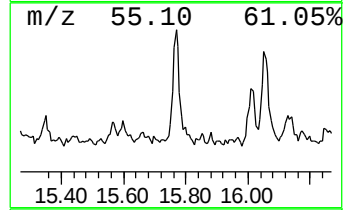
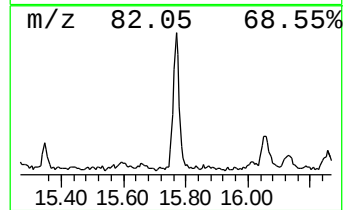
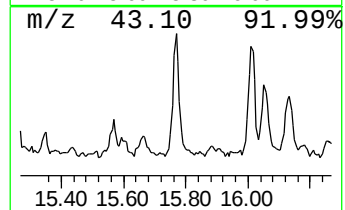
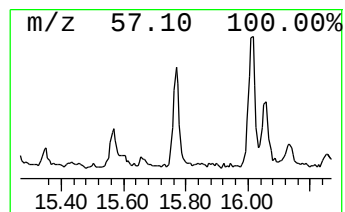
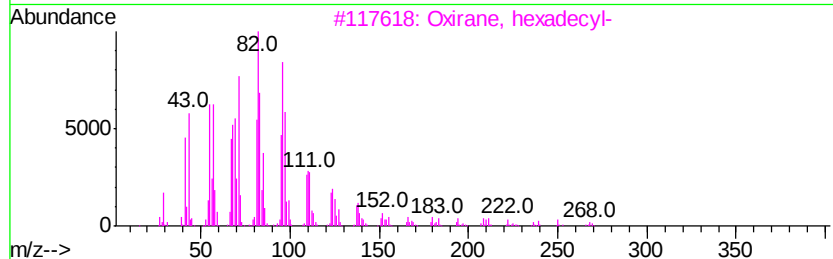
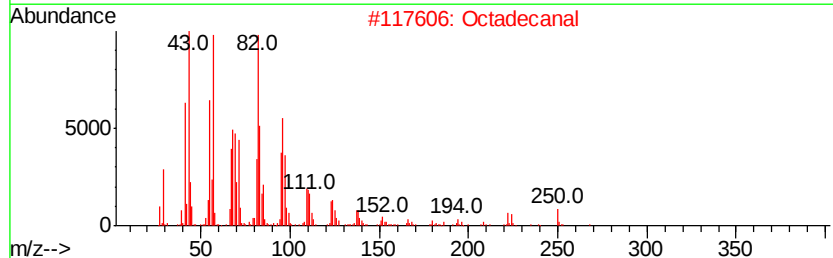
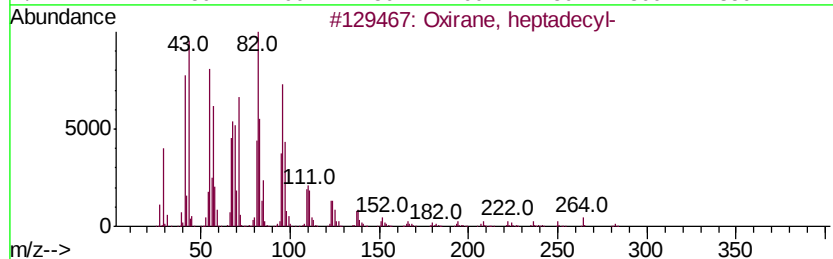
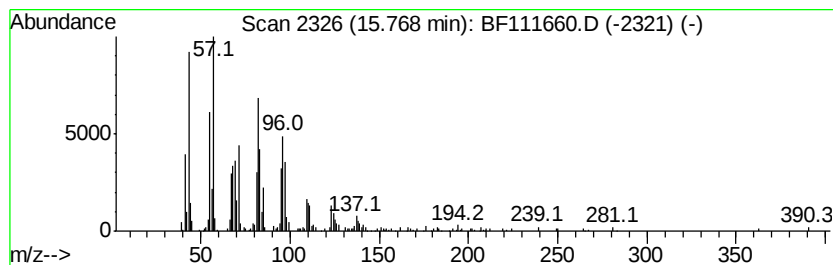
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Oxirane, heptadecyl- Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.77 | 7.66 ng | 369888 | Perylene-d12     | 15.52 |

| Hit# | of | Tentative ID         | MW  | MolForm  | CAS#         | Qual |
|------|----|----------------------|-----|----------|--------------|------|
| 1    | 5  | Oxirane, heptadecyl- | 282 | C19H38O  | 067860-04-2  | 94   |
| 2    |    | Octadecanal          | 268 | C18H36O  | 000638-66-4  | 91   |
| 3    |    | Oxirane, hexadecyl-  | 268 | C18H36O  | 007390-81-0  | 91   |
| 4    |    | 1,16-Hexadecanediol  | 258 | C16H34O2 | 007735-42-4  | 76   |
| 5    |    | 16-Heptadecenal      | 252 | C17H32O  | 1000144-57-9 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

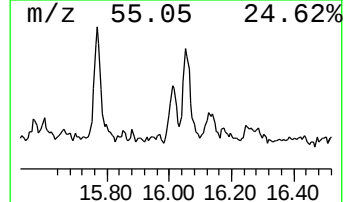
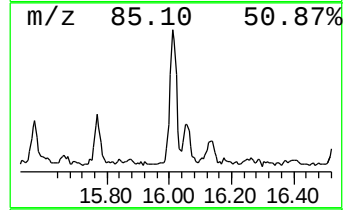
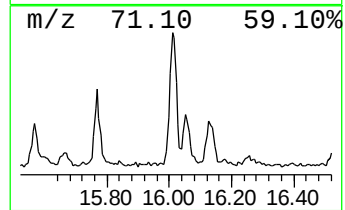
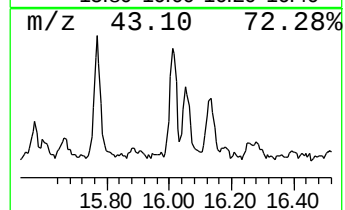
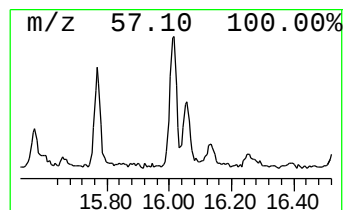
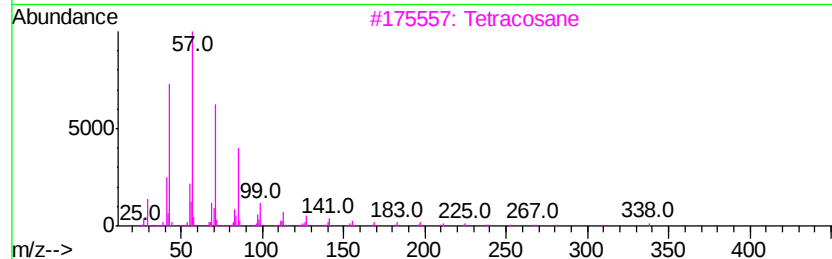
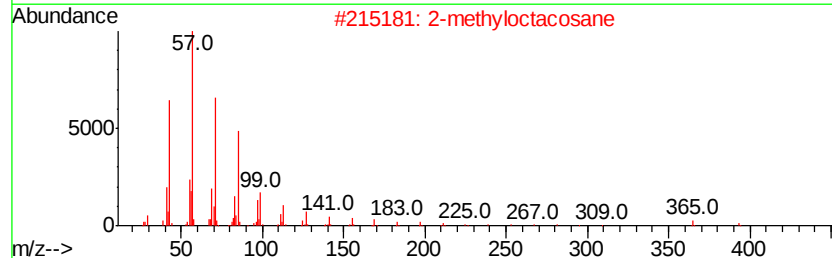
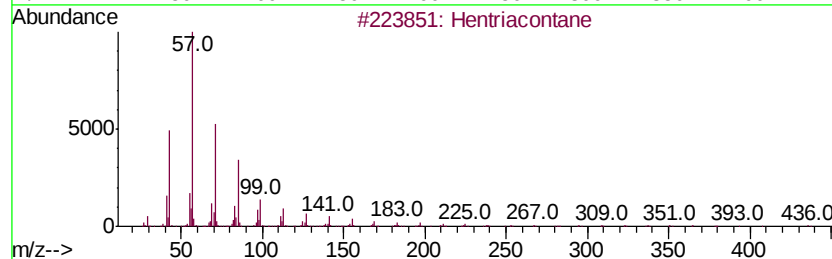
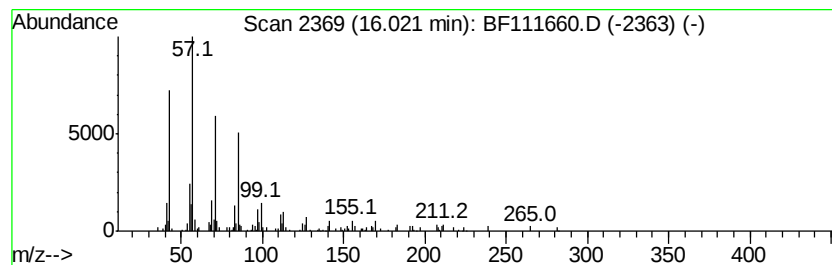
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Hentriacontane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.02 | 5.04 ng | 243326 | Perylene-d12     | 15.52 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------|-----|---------|--------------|------|
| 1    |    |   | Hentriacontane        | 437 | C31H64  | 000630-04-6  | 90   |
| 2    |    |   | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 90   |
| 3    |    |   | Tetracosane           | 338 | C24H50  | 000646-31-1  | 87   |
| 4    |    |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 87   |
| 5    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

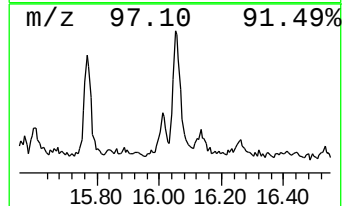
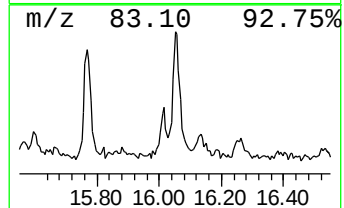
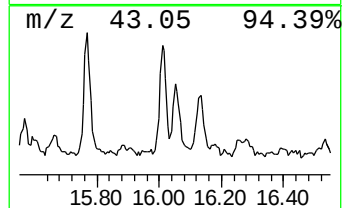
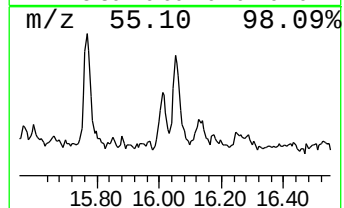
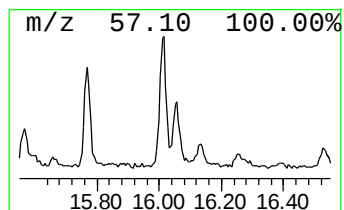
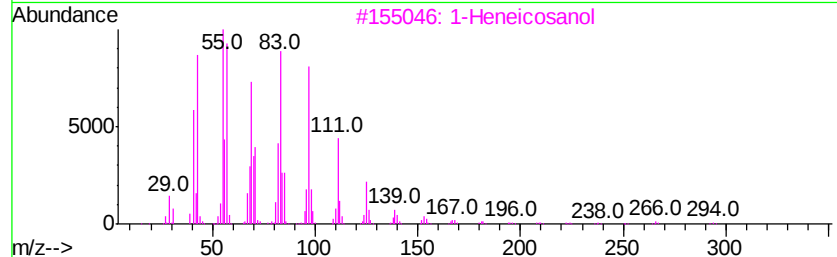
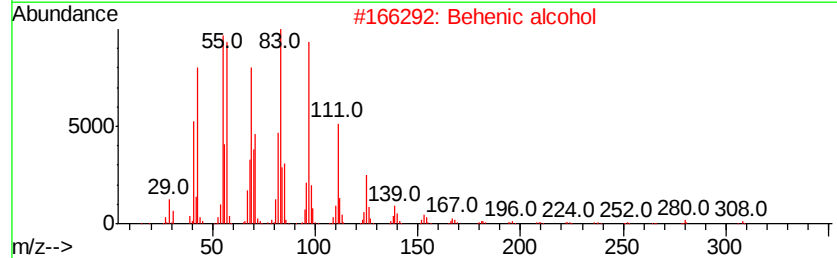
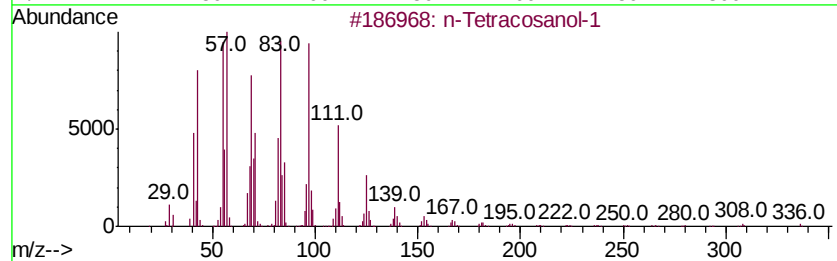
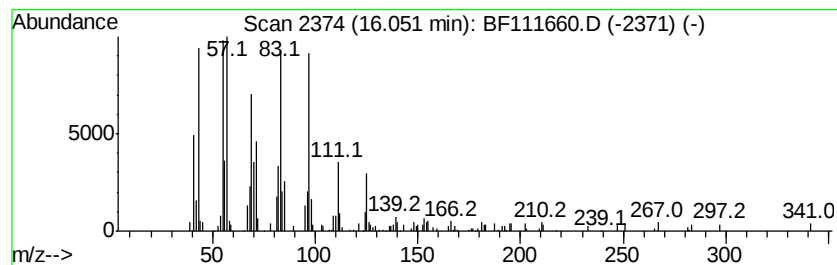
Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 n-Tetracosanol-1 Concentration Rank 8

| R.T.      | EstConc          | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------|--------|------------------|-------------|------|
| 16.05     | 5.34 ng          | 257711 | Perylene-d12     | 15.52       |      |
| Hit# of 5 | Tentative ID     | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Tetracosanol-1 | 354    | C24H50O          | 000506-51-4 | 93   |
| 2         | Behenic alcohol  | 326    | C22H46O          | 000661-19-8 | 93   |
| 3         | 1-Heneicosanol   | 312    | C21H44O          | 015594-90-8 | 93   |
| 4         | 1-Heptacosanol   | 396    | C27H56O          | 002004-39-9 | 90   |
| 5         | Cyclopentadecane | 210    | C15H30           | 000295-48-7 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

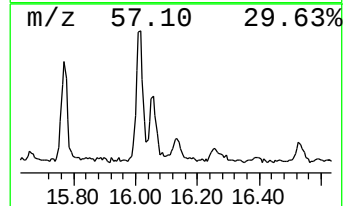
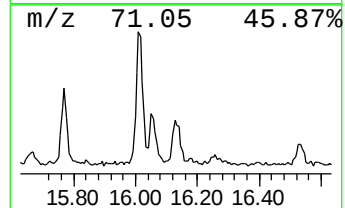
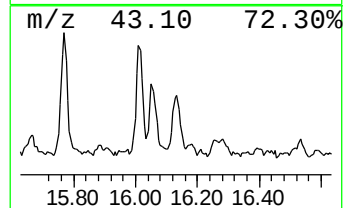
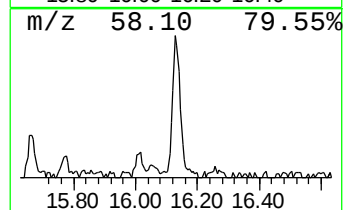
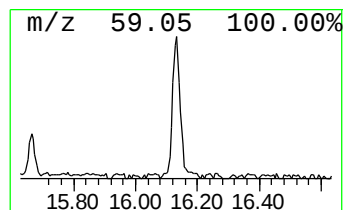
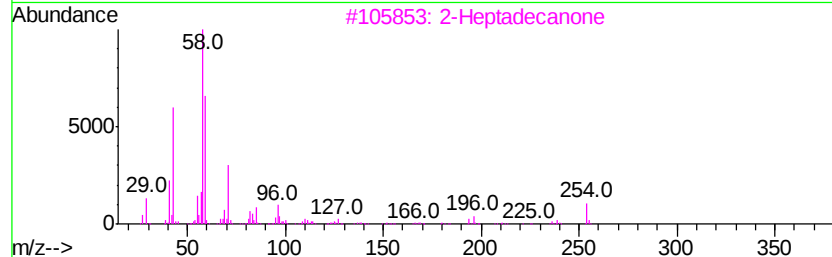
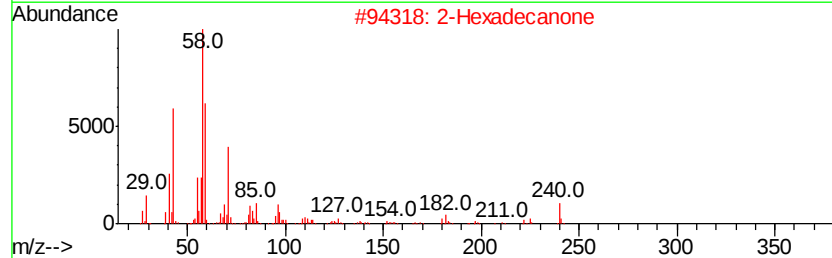
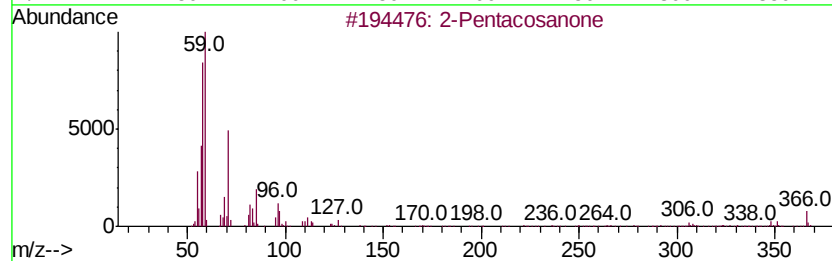
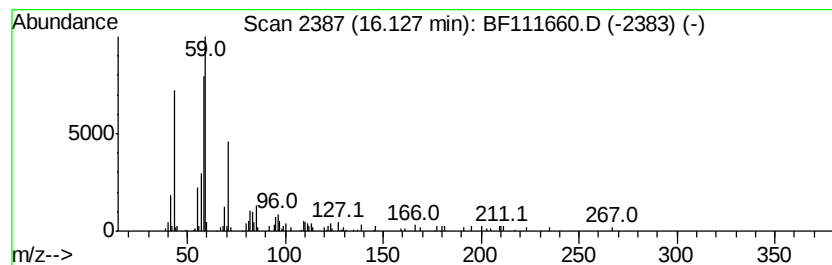
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TIC Integration Parameters: LSCINT.P

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Peak Number 15 2-Pentacosanone Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.13 | 3.16 ng | 152642 | Perylene-d12     | 15.52 |

| Hit# | of | 5 | Tentative ID    | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentacosanone | 366 | C25H50O | 075207-54-4 | 87   |
| 2    |    |   | 2-Hexadecanone  | 240 | C16H32O | 018787-63-8 | 59   |
| 3    |    |   | 2-Heptadecanone | 254 | C17H34O | 002922-51-2 | 59   |
| 4    |    |   | 2-Nonadecanone  | 282 | C19H38O | 000629-66-3 | 53   |
| 5    |    |   | 2-Pentadecanone | 226 | C15H30O | 002345-28-0 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

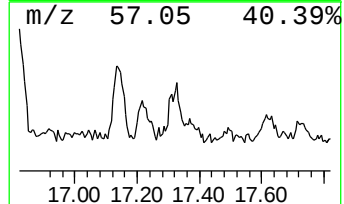
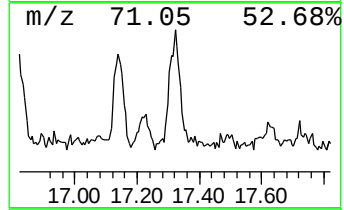
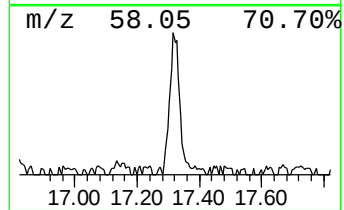
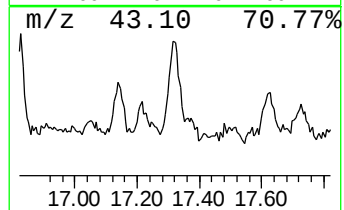
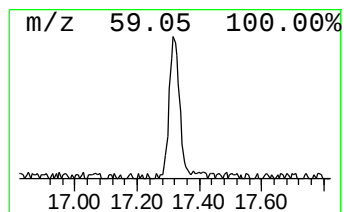
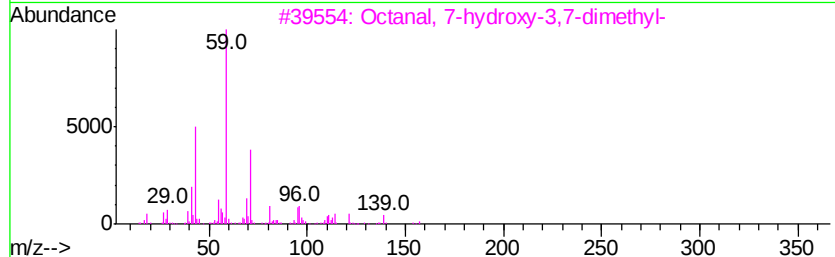
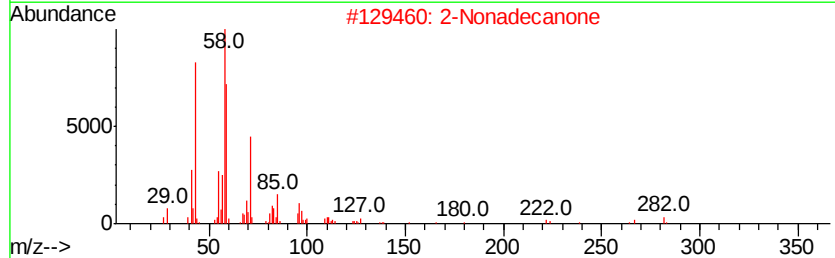
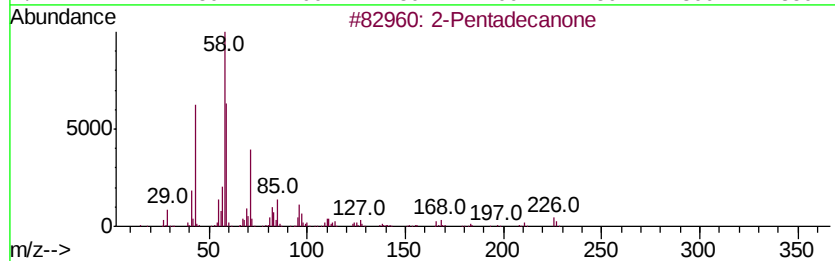
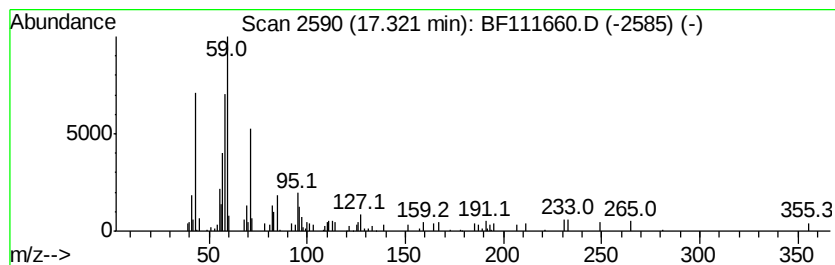
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 2-Pentadecanone Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.32 | 2.54 ng | 122644 | Perylene-d12     | 15.52 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#        | Qual |
|------|----|---|----------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentadecanone                  | 226 | C15H30O  | 002345-28-0 | 50   |
| 2    |    |   | 2-Nonadecanone                   | 282 | C19H38O  | 000629-66-3 | 47   |
| 3    |    |   | Octanal, 7-hydroxy-3,7-dimethyl- | 172 | C10H20O2 | 000107-75-5 | 43   |
| 4    |    |   | Oxirane, tetramethyl-            | 100 | C6H12O   | 005076-20-0 | 43   |
| 5    |    |   | 2-Propanone, 1-cyclopentyl-      | 126 | C8H14O   | 001122-98-1 | 37   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

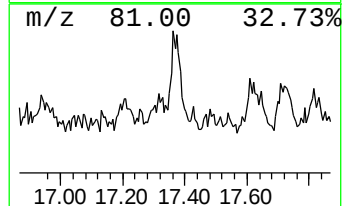
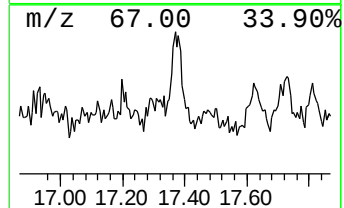
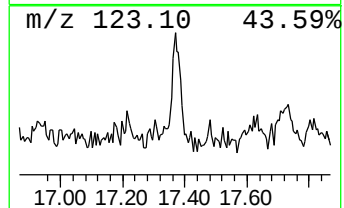
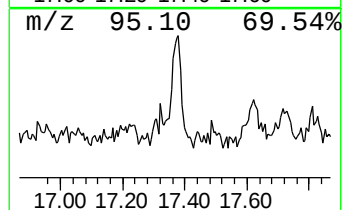
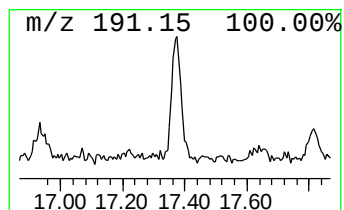
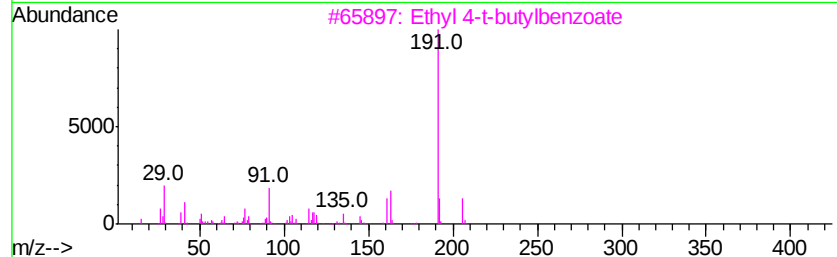
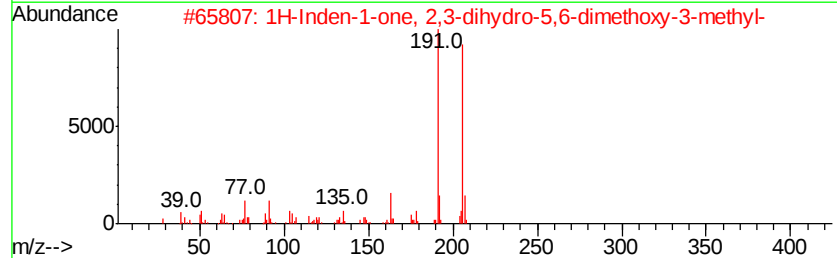
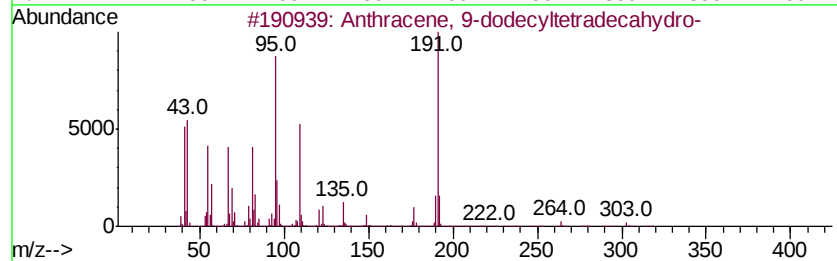
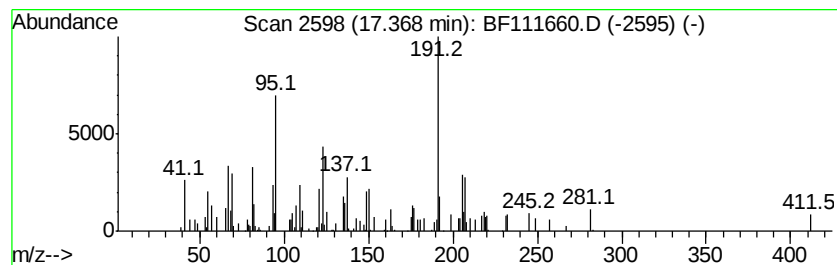
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown17.37 Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.37 | 3.59 ng | 173552 | Perylene-d12     | 15.52 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Anthracene, 9-dodecyltetradecahy... | 360 | C26H48    | 055401-75-7 | 37   |
| 2    |    |   | 1H-Inden-1-one, 2,3-dihydro-5,6-... | 206 | C12H14O3  | 004082-25-1 | 27   |
| 3    |    |   | Ethyl 4-t-butylbenzoate             | 206 | C13H18O2  | 005406-57-5 | 27   |
| 4    |    |   | 2,5,5,8a-Tetramethyl-4-methylene... | 206 | C14H22O   | 093175-76-9 | 25   |
| 5    |    |   | 5-Hexen-1-one, 1-(1H-imidazol-4-... | 192 | C11H16N2O | 069393-41-5 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

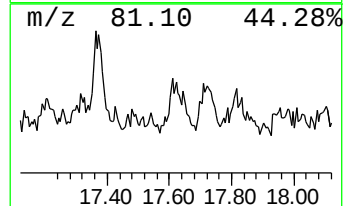
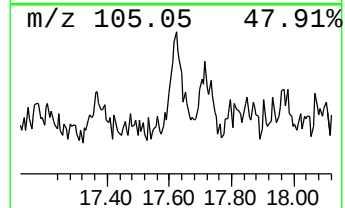
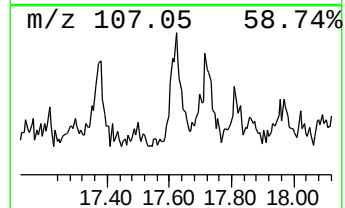
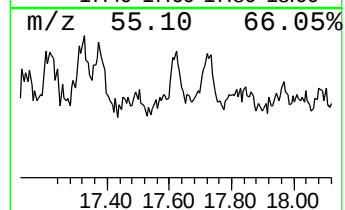
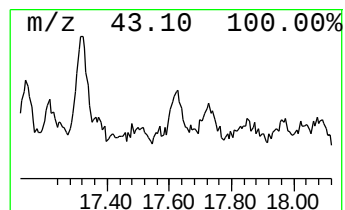
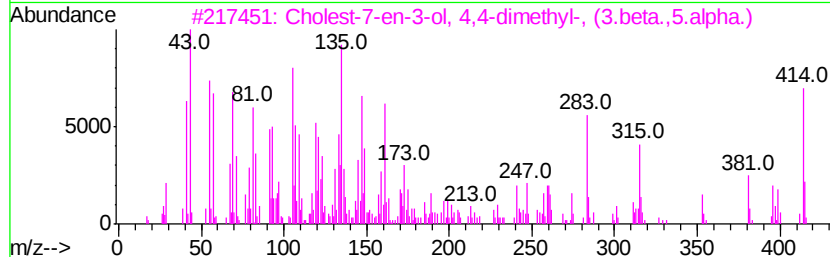
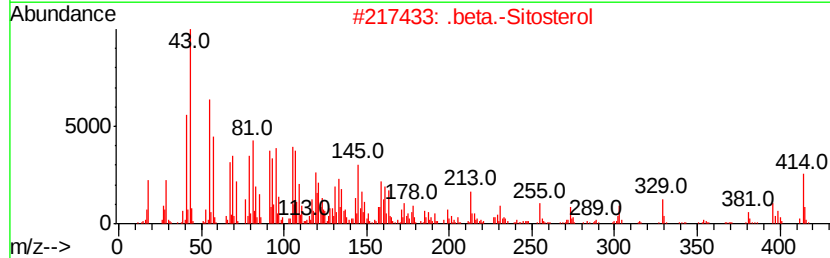
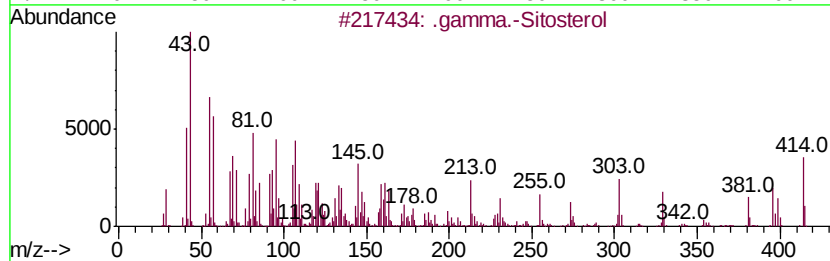
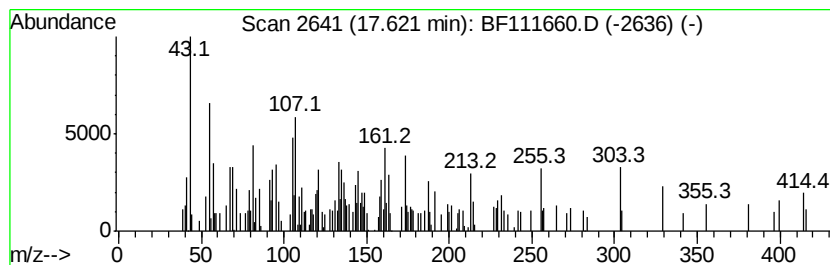
Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 19 .gamma.-Sitosterol Concentration Rank 12

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.     |              |      |
|---------|---------|-------------------------------------|------------------|----------|--------------|------|
| 17.62   | 3.67 ng | 177324                              | Perylene-d12     | 15.52    |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |         | .gamma.-Sitosterol                  | 414              | C29H50O  | 000083-47-6  | 86   |
| 2       |         | .beta.-Sitosterol                   | 414              | C29H50O  | 000083-46-5  | 74   |
| 3       |         | Cholest-7-en-3-ol, 4,4-dimethyl-... | 414              | C29H50O  | 006384-28-7  | 38   |
| 4       |         | 17-(1,5-Dimethylhexyl)-10,13-dim... | 414              | C29H50O  | 1000210-86-9 | 25   |
| 5       |         | 22,26-Oxido-4,17-cholestadien-3.... | 414              | C27H42O3 | 1000252-80-4 | 18   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122018\  
Data File : BF111660.D  
Acq On : 21 Dec 2018 1:09  
Operator : JU/SJ  
Sample : J6447-06 10X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

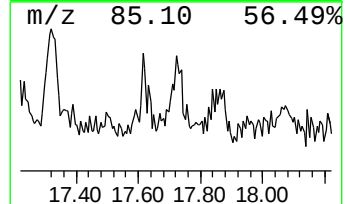
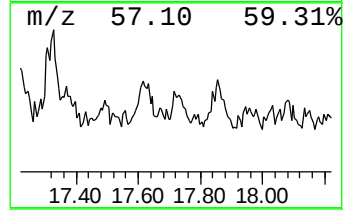
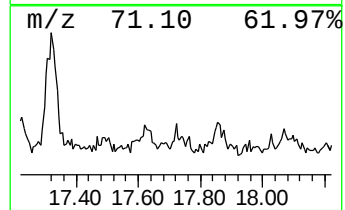
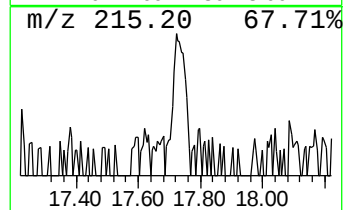
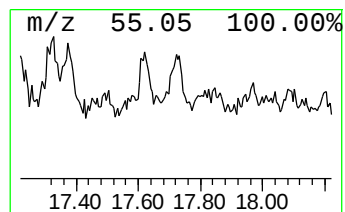
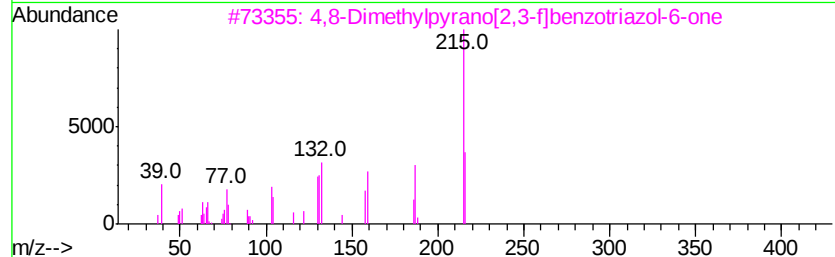
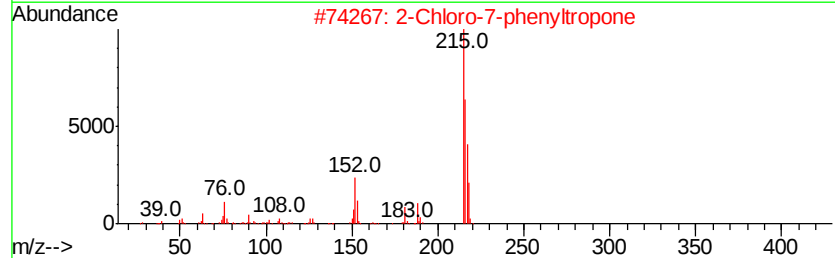
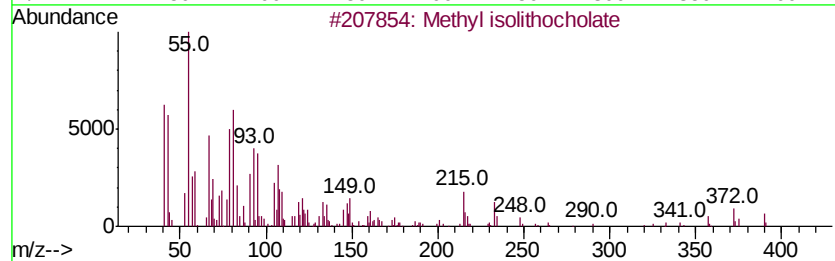
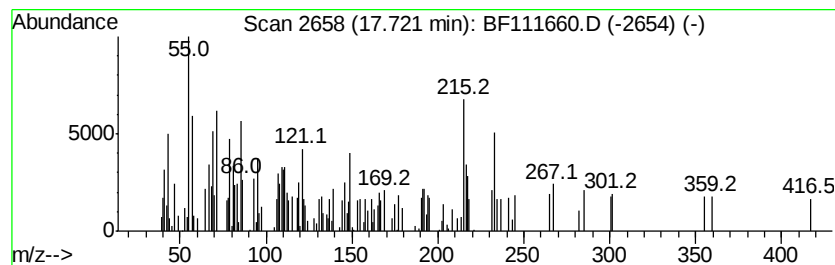
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 unknown17.72 Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.72 | 3.24 ng | 156405 | Perylene-d12     | 15.52 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | Methyl isolithocholate              | 390 | C25H42O3   | 005405-42-5 | 23   |
| 2    |    |   | 2-Chloro-7-phenyltropone            | 216 | C13H9ClO   | 090128-01-1 | 11   |
| 3    |    |   | 4,8-Dimethylpyrano[2,3-f]benzotr... | 215 | C11H9N3O2  | 129503-12-4 | 10   |
| 4    |    |   | N,N'-Dicyclopentyl terephthalamide  | 300 | C18H24N2O2 | 161554-15-0 | 10   |
| 5    |    |   | 2-[(1R,3S)-3-Hydroxycyclohexyl]5... | 318 | C21H34O2   | 070434-82-1 | 10   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF122018\  
 Data File : BF111660.D  
 Acq On : 21 Dec 2018 1:09  
 Operator : JU/SJ  
 Sample : J6447-06 10X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS025-0006-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121918.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 |
| unknown6.66          | 6.66  | 6.8     | ng    | 398831   | 1                     | 6.90  | 1173260 | 20.0 |
| 2,3,4,4',5,6-Hexa... | 13.37 | 3.1     | ng    | 203235   | 5                     | 14.04 | 1323340 | 20.0 |
| 2,3,3',4',5',6-He... | 13.59 | 2.8     | ng    | 184224   | 5                     | 14.04 | 1323340 | 20.0 |
| 1-Docosene           | 13.89 | 14.2    | ng    | 939805   | 5                     | 14.04 | 1323340 | 20.0 |
| 1-Eicosene           | 14.52 | 22.4    | ng    | 1484870  | 5                     | 14.04 | 1323340 | 20.0 |
| Sulfurous acid, b... | 14.84 | 2.9     | ng    | 141686   | 6                     | 15.52 | 965696  | 20.0 |
| Hexatriacontane      | 15.18 | 8.2     | ng    | 394807   | 6                     | 15.52 | 965696  | 20.0 |
| 1,2-Dodecanediol     | 15.20 | 9.3     | ng    | 449288   | 6                     | 15.52 | 965696  | 20.0 |
| Oxirane, heptadecyl- | 15.77 | 7.7     | ng    | 369888   | 6                     | 15.52 | 965696  | 20.0 |
| Hentriacontane       | 16.02 | 5.0     | ng    | 243326   | 6                     | 15.52 | 965696  | 20.0 |
| n-Tetracosanol-1     | 16.05 | 5.3     | ng    | 257711   | 6                     | 15.52 | 965696  | 20.0 |
| 2-Pentacosanone      | 16.13 | 3.2     | ng    | 152642   | 6                     | 15.52 | 965696  | 20.0 |
| 2-Pentadecanone      | 17.32 | 2.5     | ng    | 122644   | 6                     | 15.52 | 965696  | 20.0 |
| unknown17.37         | 17.37 | 3.6     | ng    | 173552   | 6                     | 15.52 | 965696  | 20.0 |
| .gamma.-Sitosterol   | 17.62 | 3.7     | ng    | 177324   | 6                     | 15.52 | 965696  | 20.0 |
| unknown17.72         | 17.72 | 3.2     | ng    | 156405   | 6                     | 15.52 | 965696  | 20.0 |