

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071618\  
 Data File : BF107420.D  
 Acq On : 16 Jul 2018 23:22  
 Operator : JU/SJ  
 Sample : J3821-01 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-071218-A

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071618.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         | 5.207       | 482           | 488         | 491          | rBV      | 210481         | 223027        | 2.53%           | 0.359%        |
| 2         | 5.595       | 549           | 554         | 558          | rBV      | 1937795        | 1703080       | 19.33%          | 2.741%        |
| 3         | 6.595       | 719           | 724         | 729          | rVV      | 1841406        | 1813147       | 20.57%          | 2.918%        |
| 4         | 6.748       | 746           | 750         | 753          | rVB      | 2167759        | 1836270       | 20.84%          | 2.955%        |
| 5         | 6.801       | 756           | 759         | 763          | rBV      | 326307         | 308641        | 3.50%           | 0.497%        |
| 6         | 6.978       | 786           | 789         | 792          | rVB      | 1395257        | 1154382       | 13.10%          | 1.858%        |
| 7         | 7.031       | 795           | 798         | 802          | rVB      | 129623         | 122673        | 1.39%           | 0.197%        |
| 8         | 7.137       | 810           | 816         | 819          | rBV      | 1681292        | 1565595       | 17.77%          | 2.520%        |
| 9         | 7.248       | 832           | 835         | 837          | rVB2     | 209936         | 174546        | 1.98%           | 0.281%        |
| 10        | 7.295       | 840           | 843         | 846          | rVV      | 223237         | 248669        | 2.82%           | 0.400%        |
| 11        | 7.366       | 850           | 855         | 859          | rBV2     | 177446         | 243613        | 2.76%           | 0.392%        |
| 12        | 7.436       | 865           | 867         | 869          | rBV      | 135252         | 121720        | 1.38%           | 0.196%        |
| 13        | 7.460       | 869           | 871         | 874          | rVB      | 146917         | 137538        | 1.56%           | 0.221%        |
| 14        | 7.507       | 874           | 879         | 881          | rBV2     | 285062         | 291502        | 3.31%           | 0.469%        |
| 15        | 7.536       | 881           | 884         | 887          | rVV      | 1270673        | 1210122       | 13.73%          | 1.948%        |
| 16        | 7.560       | 887           | 888         | 893          | rVB      | 323316         | 281951        | 3.20%           | 0.454%        |
| 17        | 7.619       | 893           | 898         | 901          | rBV5     | 213784         | 285692        | 3.24%           | 0.460%        |
| 18        | 7.660       | 901           | 905         | 908          | rBV4     | 139695         | 212134        | 2.41%           | 0.341%        |
| 19        | 7.742       | 917           | 919         | 922          | rBV2     | 146532         | 131909        | 1.50%           | 0.212%        |
| 20        | 7.772       | 922           | 924         | 932          | rVB2     | 220739         | 321970        | 3.65%           | 0.518%        |
| 21        | 7.860       | 934           | 939         | 940          | rBV3     | 109423         | 139916        | 1.59%           | 0.225%        |
| 22        | 7.907       | 944           | 947         | 949          | rVV2     | 199002         | 228079        | 2.59%           | 0.367%        |
| 23        | 7.931       | 949           | 951         | 955          | rVB4     | 125090         | 123063        | 1.40%           | 0.198%        |
| 24        | 7.972       | 955           | 958         | 960          | rBV4     | 127876         | 159146        | 1.81%           | 0.256%        |
| 25        | 7.995       | 960           | 962         | 965          | rVV      | 419907         | 385848        | 4.38%           | 0.621%        |
| 26        | 8.025       | 965           | 967         | 969          | rVV2     | 213670         | 171543        | 1.95%           | 0.276%        |
| 27        | 8.072       | 972           | 975         | 978          | rVB4     | 230466         | 264998        | 3.01%           | 0.426%        |
| 28        | 8.101       | 978           | 980         | 982          | rVB2     | 209954         | 152577        | 1.73%           | 0.246%        |
| 29        | 8.125       | 982           | 984         | 987          | rVB2     | 200651         | 193454        | 2.20%           | 0.311%        |
| 30        | 8.160       | 987           | 990         | 993          | rBV4     | 88329          | 119364        | 1.35%           | 0.192%        |
| 31        | 8.207       | 993           | 998         | 999          | rBV5     | 111252         | 172127        | 1.95%           | 0.277%        |
| 32        | 8.231       | 999           | 1002        | 1004         | rVV      | 568772         | 540171        | 6.13%           | 0.869%        |
| 33        | 8.266       | 1004          | 1008        | 1013         | rVV      | 1559615        | 1736675       | 19.71%          | 2.795%        |
| 34        | 8.307       | 1013          | 1015        | 1018         | rVB      | 385112         | 344981        | 3.91%           | 0.555%        |

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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-BF071618.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 8.342  | 1018 | 1021 | 1024 | rBV4 | 172359  | 171137  | 1.94%  | 0.275% |
| 36 | 8.407  | 1029 | 1032 | 1034 | rBV4 | 102277  | 123444  | 1.40%  | 0.199% |
| 37 | 8.460  | 1038 | 1041 | 1044 | rVV  | 278581  | 237726  | 2.70%  | 0.383% |
| 38 | 8.507  | 1046 | 1049 | 1052 | rBV3 | 179249  | 186162  | 2.11%  | 0.300% |
| 39 | 8.548  | 1052 | 1056 | 1060 | rVB4 | 347090  | 409933  | 4.65%  | 0.660% |
| 40 | 8.595  | 1060 | 1064 | 1065 | rBV2 | 112191  | 136380  | 1.55%  | 0.219% |
| 41 | 8.672  | 1074 | 1077 | 1079 | rVB  | 370473  | 269891  | 3.06%  | 0.434% |
| 42 | 8.695  | 1079 | 1081 | 1084 | rBV2 | 203141  | 197681  | 2.24%  | 0.318% |
| 43 | 8.725  | 1084 | 1086 | 1090 | rVB5 | 134058  | 143689  | 1.63%  | 0.231% |
| 44 | 8.766  | 1090 | 1093 | 1095 | rBV  | 521669  | 421250  | 4.78%  | 0.678% |
| 45 | 8.842  | 1104 | 1106 | 1111 | rVB2 | 666050  | 508808  | 5.77%  | 0.819% |
| 46 | 8.895  | 1111 | 1115 | 1117 | rVV5 | 75107   | 135457  | 1.54%  | 0.218% |
| 47 | 8.925  | 1117 | 1120 | 1126 | rVB4 | 302707  | 372551  | 4.23%  | 0.600% |
| 48 | 9.083  | 1144 | 1147 | 1149 | rVV2 | 431587  | 345068  | 3.92%  | 0.555% |
| 49 | 9.125  | 1152 | 1154 | 1156 | rVV2 | 193343  | 182888  | 2.08%  | 0.294% |
| 50 | 9.166  | 1159 | 1161 | 1164 | rVB3 | 139904  | 158084  | 1.79%  | 0.254% |
| 51 | 9.207  | 1164 | 1168 | 1170 | rBV3 | 271417  | 277375  | 3.15%  | 0.446% |
| 52 | 9.272  | 1177 | 1179 | 1181 | rBV2 | 397531  | 287070  | 3.26%  | 0.462% |
| 53 | 9.301  | 1181 | 1184 | 1186 | rVB3 | 154640  | 162604  | 1.85%  | 0.262% |
| 54 | 9.336  | 1186 | 1190 | 1194 | rBV  | 2498418 | 2157132 | 24.48% | 3.472% |
| 55 | 9.407  | 1199 | 1202 | 1206 | rBV  | 697343  | 625732  | 7.10%  | 1.007% |
| 56 | 9.489  | 1213 | 1216 | 1218 | rVB  | 238141  | 210763  | 2.39%  | 0.339% |
| 57 | 9.513  | 1218 | 1220 | 1228 | rVB8 | 66386   | 118693  | 1.35%  | 0.191% |
| 58 | 9.595  | 1231 | 1234 | 1238 | rBV6 | 110634  | 138554  | 1.57%  | 0.223% |
| 59 | 9.672  | 1241 | 1247 | 1250 | rBV8 | 132109  | 294625  | 3.34%  | 0.474% |
| 60 | 9.730  | 1253 | 1257 | 1259 | rBV  | 647406  | 571028  | 6.48%  | 0.919% |
| 61 | 9.789  | 1264 | 1267 | 1270 | rBV5 | 134084  | 138994  | 1.58%  | 0.224% |
| 62 | 9.936  | 1289 | 1292 | 1296 | rVB  | 454561  | 384454  | 4.36%  | 0.619% |
| 63 | 10.025 | 1304 | 1307 | 1310 | rVB  | 1629461 | 1364162 | 15.48% | 2.195% |
| 64 | 10.119 | 1320 | 1323 | 1328 | rVB7 | 83594   | 115146  | 1.31%  | 0.185% |
| 65 | 10.260 | 1344 | 1347 | 1351 | rVB5 | 140540  | 123084  | 1.40%  | 0.198% |
| 66 | 10.436 | 1374 | 1377 | 1380 | rVB  | 314671  | 263603  | 2.99%  | 0.424% |
| 67 | 10.660 | 1412 | 1415 | 1418 | rVB2 | 137090  | 124518  | 1.41%  | 0.200% |
| 68 | 10.813 | 1437 | 1441 | 1445 | rVB  | 1185324 | 1131983 | 12.84% | 1.822% |
| 69 | 10.913 | 1455 | 1458 | 1466 | rVB  | 366173  | 465602  | 5.28%  | 0.749% |
| 70 | 11.360 | 1532 | 1534 | 1537 | rBV  | 242065  | 209364  | 2.38%  | 0.337% |
| 71 | 11.513 | 1556 | 1560 | 1563 | rBV  | 1467173 | 1517236 | 17.22% | 2.442% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071618.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |         |         |
|-----|--------|------|------|------|------|---------|---------|---------|---------|
| 72  | 11.536 | 1563 | 1564 | 1568 | rVV  | 937932  | 714677  | 8.11%   | 1.150%  |
| 73  | 11.589 | 1570 | 1573 | 1576 | rVB  | 231682  | 182702  | 2.07%   | 0.294%  |
| 74  | 11.789 | 1604 | 1607 | 1610 | rBV  | 201616  | 175983  | 2.00%   | 0.283%  |
| 75  | 11.895 | 1621 | 1625 | 1628 | rBV  | 2880032 | 2199031 | 24.95%  | 3.539%  |
| 76  | 12.030 | 1643 | 1648 | 1649 | rBV3 | 250726  | 364938  | 4.14%   | 0.587%  |
| 77  | 12.130 | 1661 | 1665 | 1667 | rBV2 | 240442  | 253266  | 2.87%   | 0.408%  |
| 78  | 12.201 | 1674 | 1677 | 1679 | rBV2 | 182740  | 190535  | 2.16%   | 0.307%  |
| 79  | 12.336 | 1698 | 1700 | 1709 | rVB8 | 115964  | 156022  | 1.77%   | 0.251%  |
| 80  | 12.589 | 1736 | 1743 | 1745 | rBV  | 7751559 | 8812678 | 100.00% | 14.183% |
| 81  | 12.613 | 1745 | 1747 | 1752 | rVV2 | 5585903 | 5123979 | 58.14%  | 8.246%  |
| 82  | 12.689 | 1756 | 1760 | 1763 | rVB  | 1287007 | 1049045 | 11.90%  | 1.688%  |
| 83  | 12.730 | 1763 | 1767 | 1772 | rBV  | 1355501 | 1416607 | 16.07%  | 2.280%  |
| 84  | 12.966 | 1801 | 1807 | 1812 | rVB  | 1158759 | 1304911 | 14.81%  | 2.100%  |
| 85  | 13.101 | 1826 | 1830 | 1833 | rBV  | 2213157 | 1747886 | 19.83%  | 2.813%  |
| 86  | 13.171 | 1840 | 1842 | 1846 | rBV5 | 87076   | 121522  | 1.38%   | 0.196%  |
| 87  | 13.289 | 1860 | 1862 | 1864 | rVB2 | 251787  | 193794  | 2.20%   | 0.312%  |
| 88  | 13.318 | 1864 | 1867 | 1869 | rBV2 | 188737  | 161453  | 1.83%   | 0.260%  |
| 89  | 13.477 | 1892 | 1894 | 1899 | rVB5 | 162916  | 199304  | 2.26%   | 0.321%  |
| 90  | 13.518 | 1899 | 1901 | 1904 | rBV2 | 136045  | 158825  | 1.80%   | 0.256%  |
| 91  | 13.660 | 1922 | 1925 | 1928 | rBV2 | 228898  | 222095  | 2.52%   | 0.357%  |
| 92  | 13.983 | 1978 | 1980 | 1989 | rVB5 | 404333  | 551699  | 6.26%   | 0.888%  |
| 93  | 14.083 | 1995 | 1997 | 2000 | rBV4 | 161639  | 154582  | 1.75%   | 0.249%  |
| 94  | 14.160 | 2006 | 2010 | 2013 | rBV2 | 1416039 | 1834596 | 20.82%  | 2.953%  |
| 95  | 14.189 | 2013 | 2015 | 2020 | rVB  | 578567  | 498692  | 5.66%   | 0.803%  |
| 96  | 14.307 | 2033 | 2035 | 2040 | rVB5 | 222714  | 244860  | 2.78%   | 0.394%  |
| 97  | 14.618 | 2085 | 2088 | 2092 | rVB5 | 323673  | 352785  | 4.00%   | 0.568%  |
| 98  | 15.242 | 2191 | 2194 | 2197 | rBV  | 280893  | 309945  | 3.52%   | 0.499%  |
| 99  | 15.624 | 2257 | 2259 | 2267 | rVV  | 240173  | 321111  | 3.64%   | 0.517%  |
| 100 | 15.701 | 2268 | 2272 | 2281 | rVB  | 877592  | 1317509 | 14.95%  | 2.120%  |

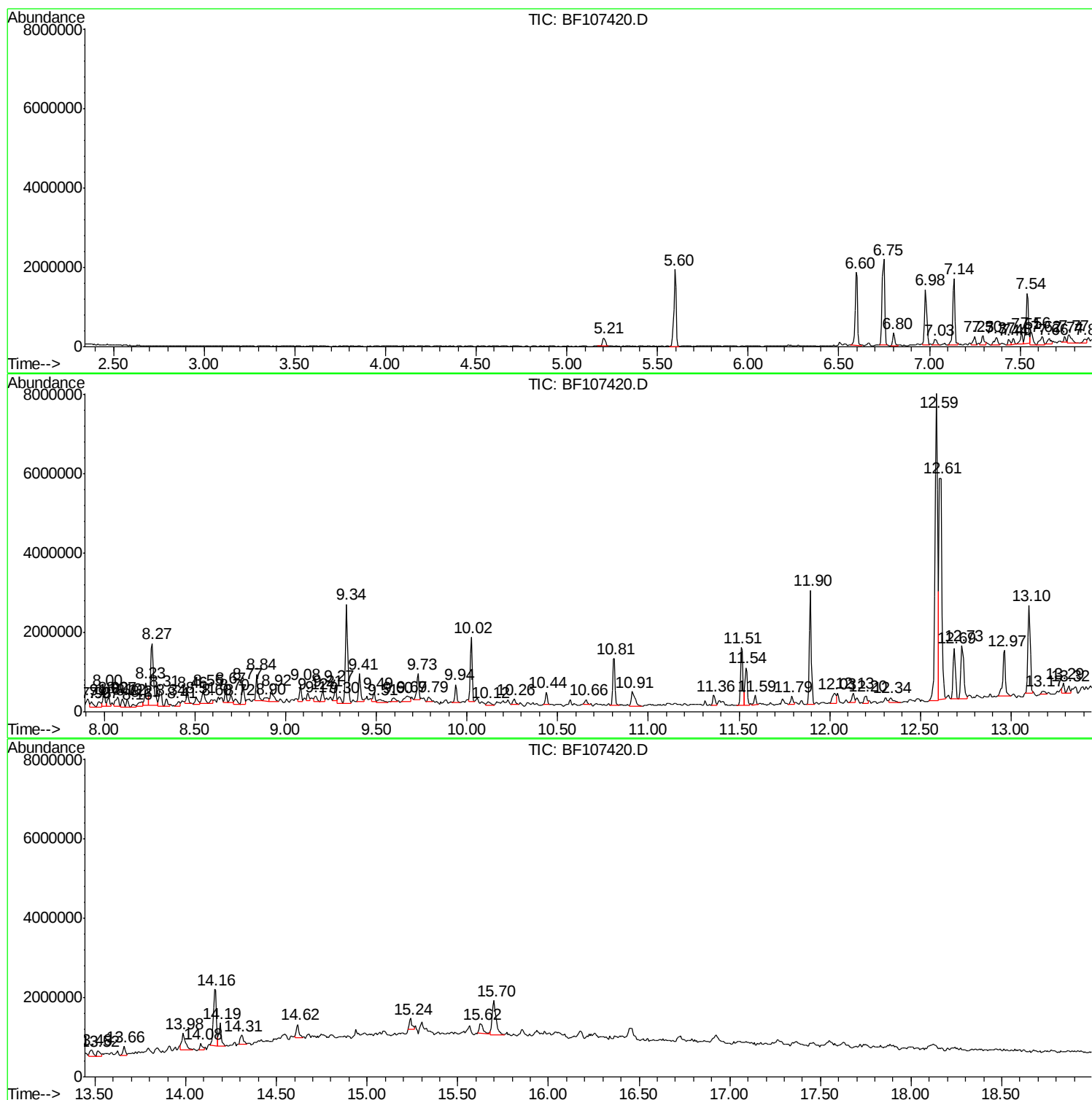
Sum of corrected areas: 62137026

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.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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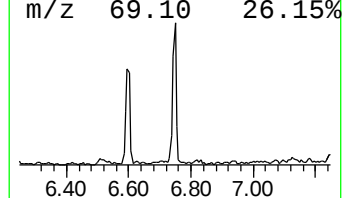
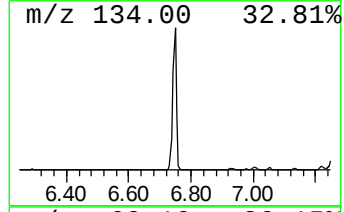
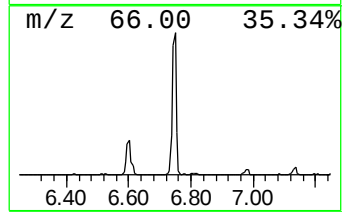
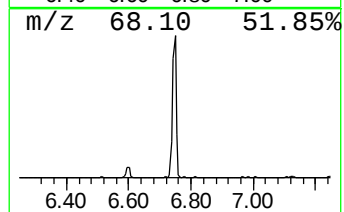
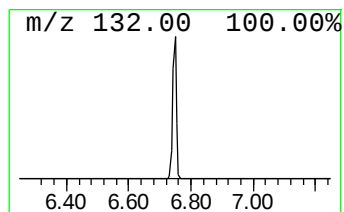
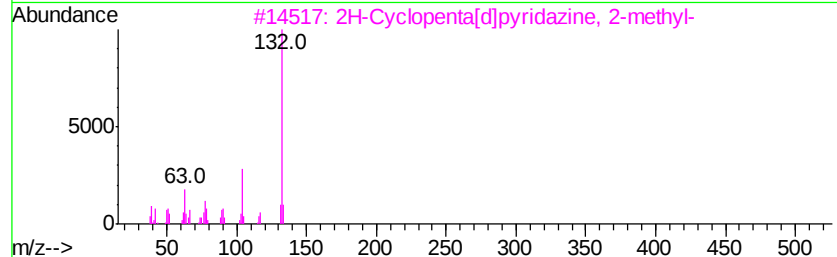
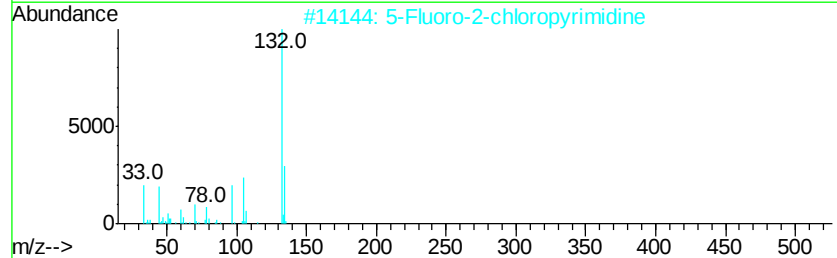
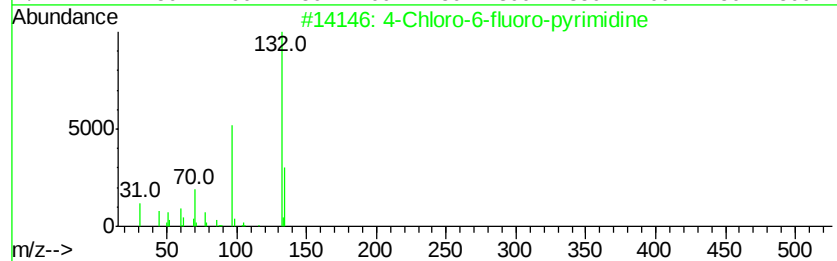
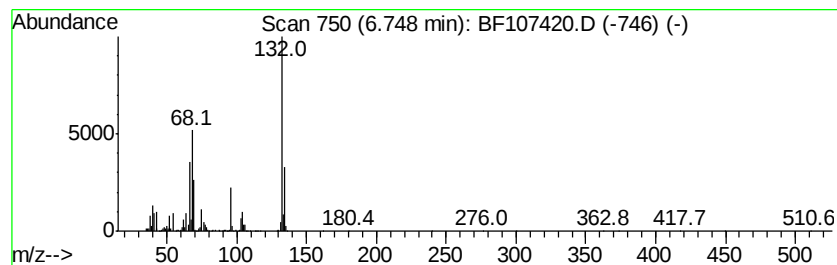
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.75 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.75 | 31.81 ng | 1836270 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 27   |
| 3    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 22   |
| 4    |    | 1H-Benzimidazole, 2-methyl-         | 132 | C8H8N2    | 000615-15-6  | 22   |
| 5    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 22   |



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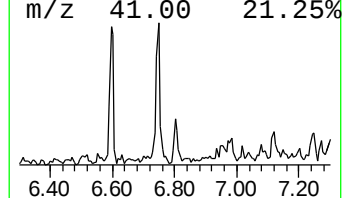
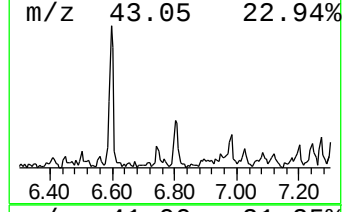
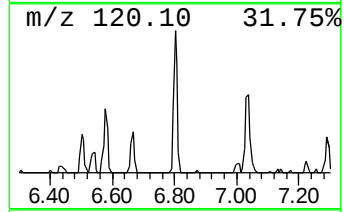
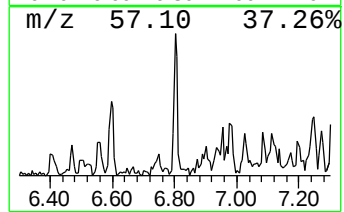
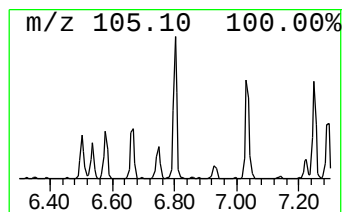
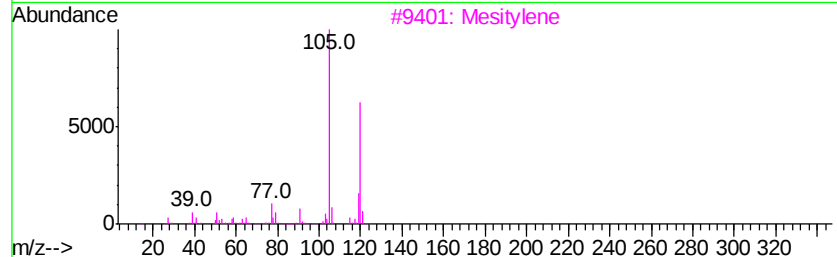
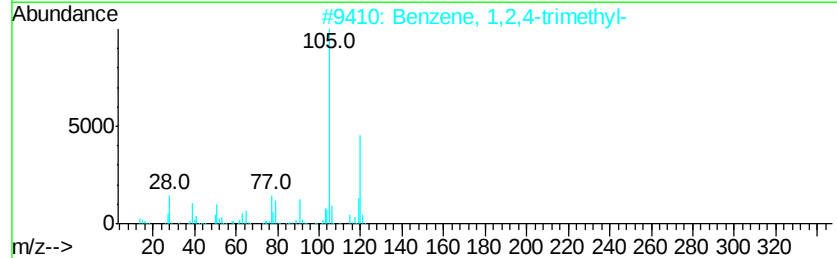
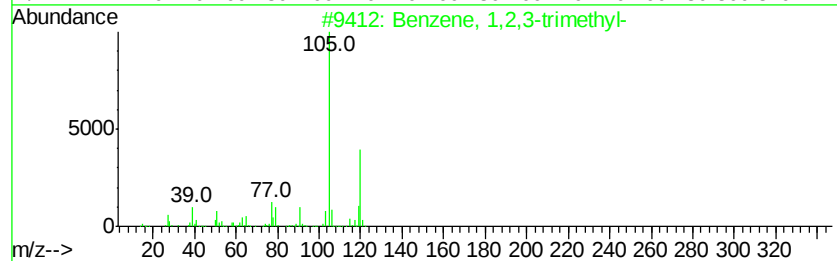
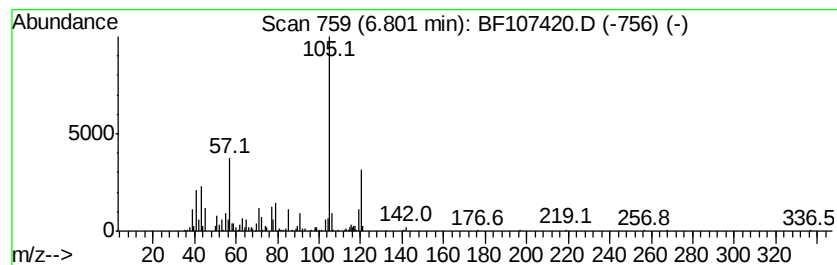
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Benzene, 1,2,3-trimethyl- Concentration Rank 11

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.80 | 5.35 ng | 308641 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 81   |
| 2    |    |   | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 76   |
| 3    |    |   | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 74   |
| 4    |    |   | 2,4-Nonadiyne              | 120 | C9H12   | 063621-15-8 | 62   |
| 5    |    |   | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

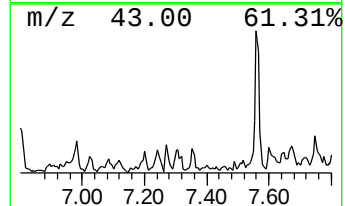
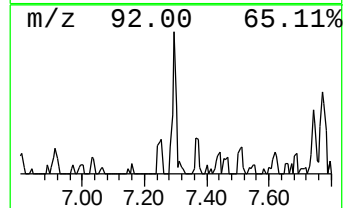
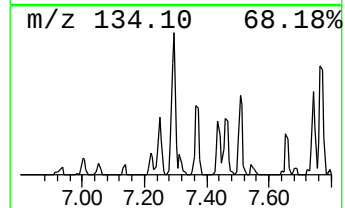
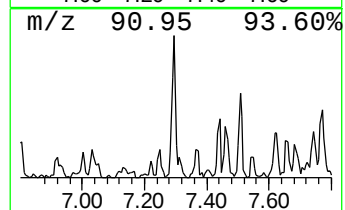
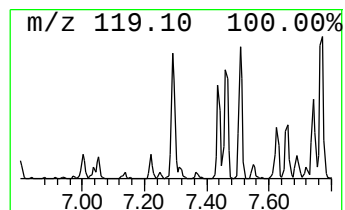
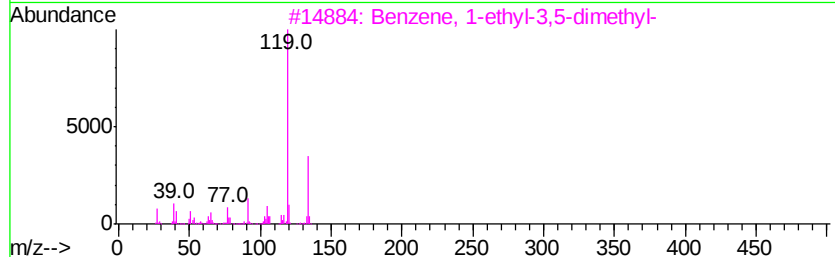
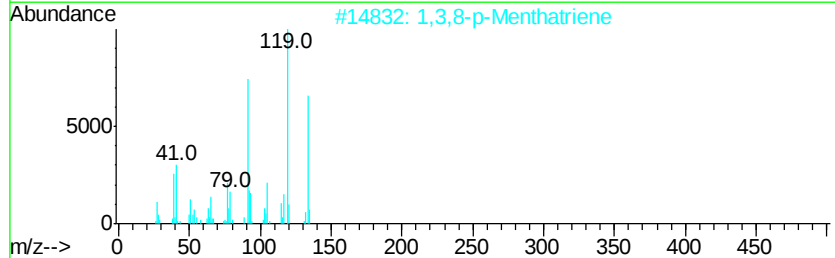
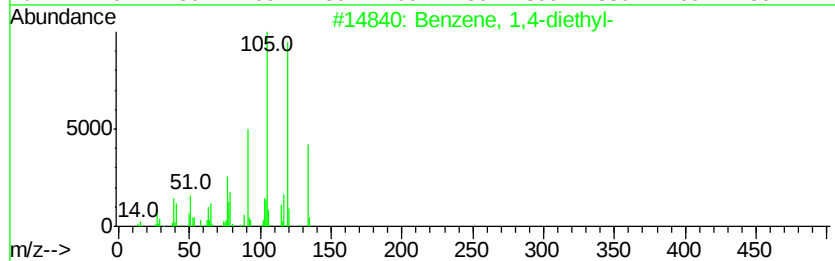
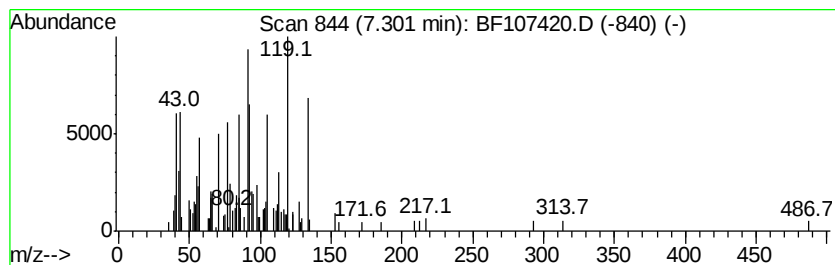
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzene, 1,4-diethyl- Concentration Rank 18

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 7.30 | 4.31 ng | 248669 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 91   |
| 2    |    | 1,3,8-p-Menthatriene           | 134 | C10H14  | 018368-95-1 | 80   |
| 3    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 76   |
| 4    |    | Benzene, 1,2-diethyl-          | 134 | C10H14  | 000135-01-3 | 76   |
| 5    |    | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

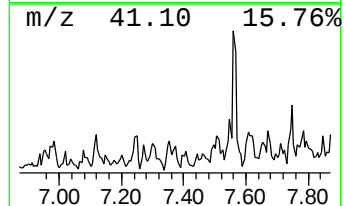
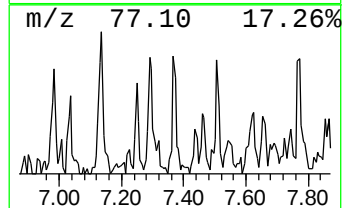
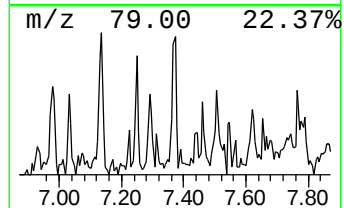
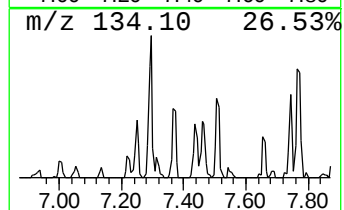
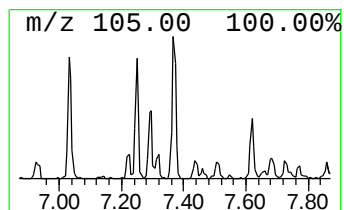
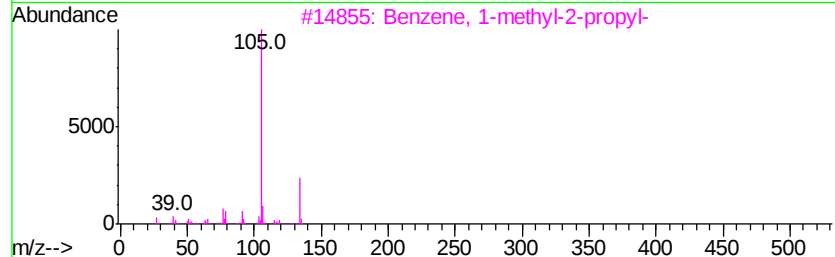
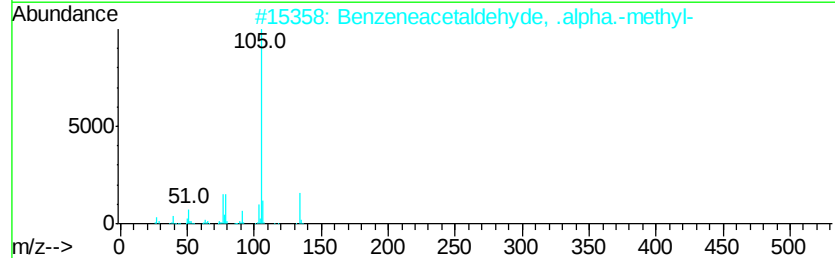
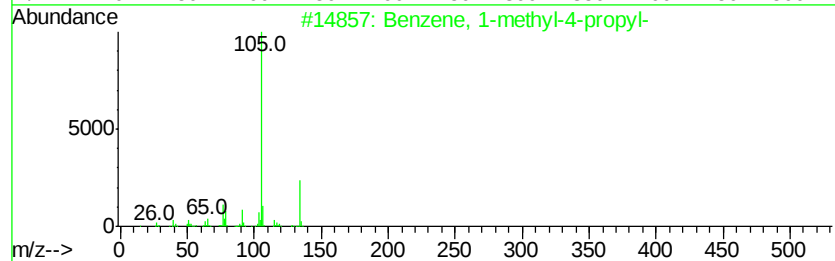
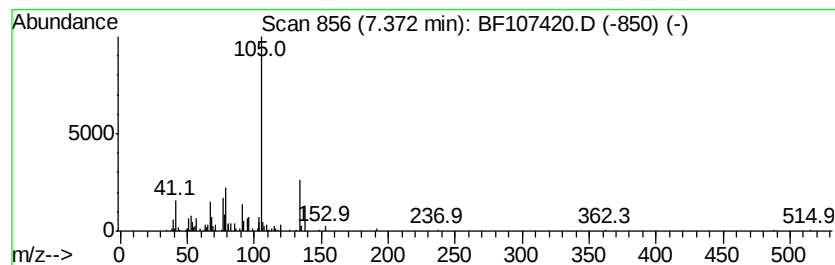
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Benzene, 1-methyl-4-propyl- Concentration Rank 20

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 7.37 | 4.22 ng | 243613 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-propyl-         | 134 | C10H14  | 001074-55-1 | 74   |
| 2    |    | Benzeneacetaldehyde, .alpha.-met... | 134 | C9H10O  | 000093-53-8 | 70   |
| 3    |    | Benzene, 1-methyl-2-propyl-         | 134 | C10H14  | 001074-17-5 | 64   |
| 4    |    | Benzene, 1-methyl-3-propyl-         | 134 | C10H14  | 001074-43-7 | 64   |
| 5    |    | 2-Tolyloxirane                      | 134 | C9H10O  | 002783-26-8 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

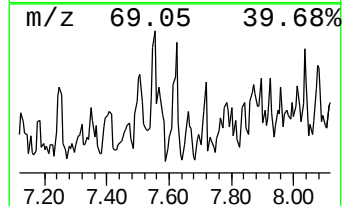
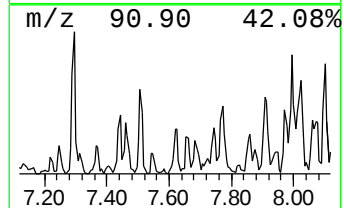
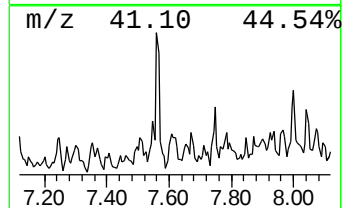
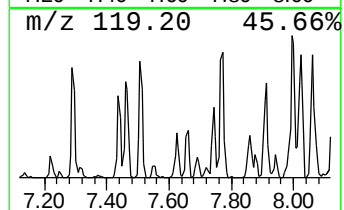
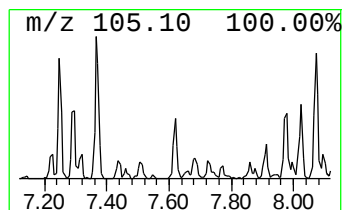
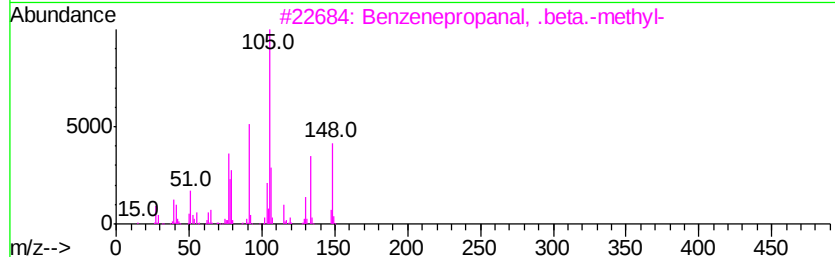
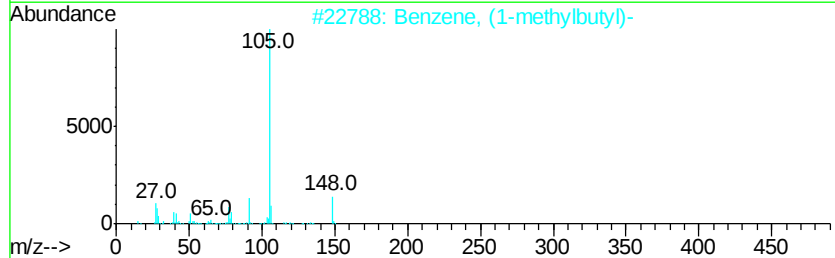
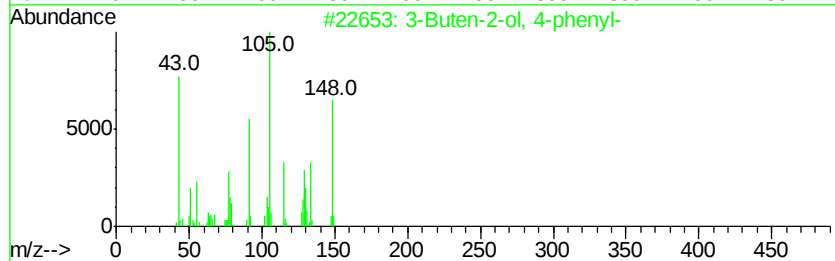
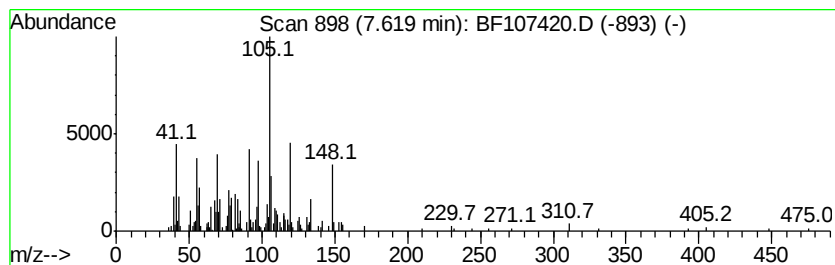
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown7.62 Concentration Rank 12

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 7.62 | 4.95 ng | 285692 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 3-Buten-2-ol, 4-phenyl-             | 148 | C10H12O | 017488-65-2 | 20   |
| 2    |    | Benzene, (1-methylbutyl)-           | 148 | C11H16  | 002719-52-0 | 20   |
| 3    |    | Benzenepropanal, .beta.-methyl-     | 148 | C10H12O | 016251-77-7 | 18   |
| 4    |    | Benzene, 1-methyl-4-(2-methylpro... | 148 | C11H16  | 005161-04-6 | 18   |
| 5    |    | Benzene, (1,2-dimethylpropyl)-      | 148 | C11H16  | 004481-30-5 | 14   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

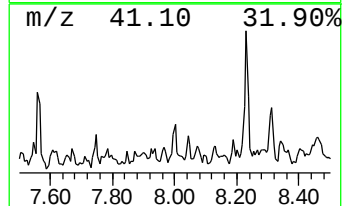
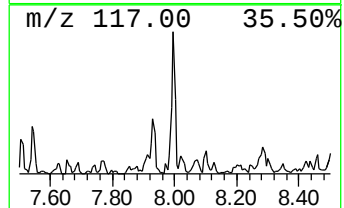
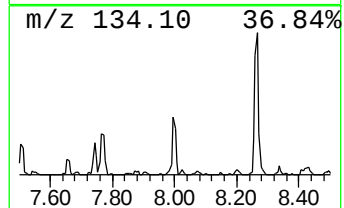
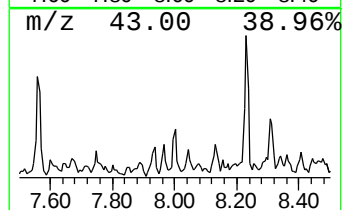
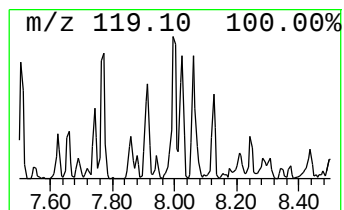
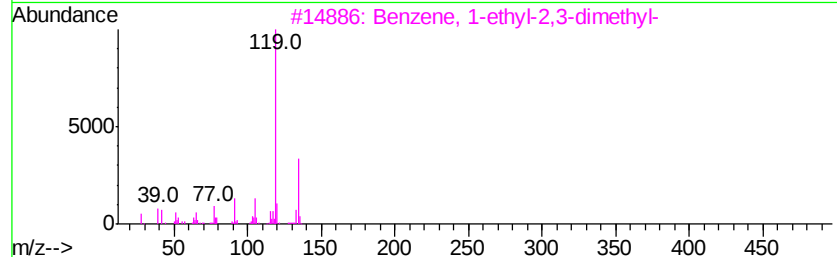
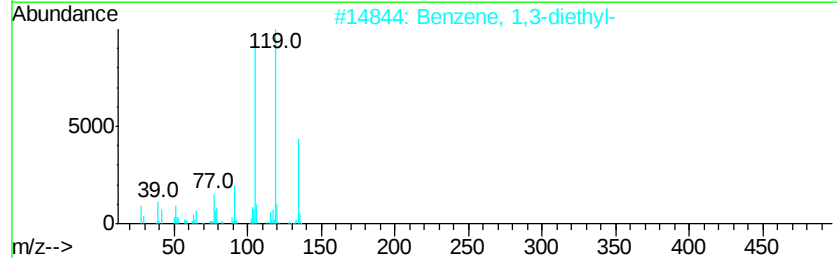
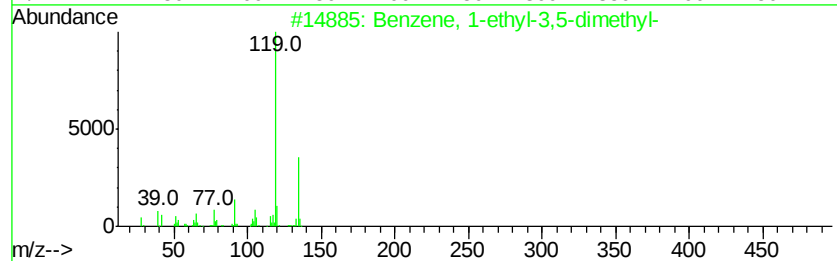
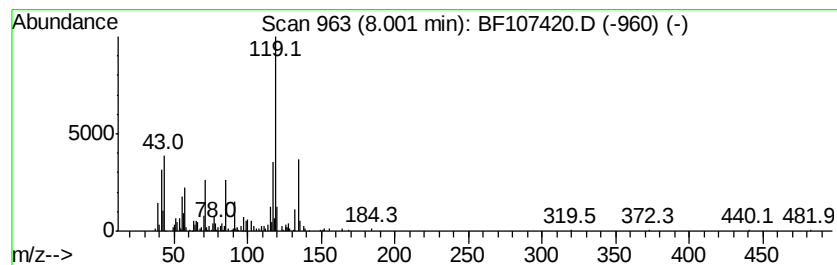
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown8.00 Concentration Rank 16

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.00 | 4.44 ng | 385848 | Naphthalene-d8   | 8.27 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 46   |
| 2    |    | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 46   |
| 3    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 46   |
| 4    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 46   |
| 5    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 46   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

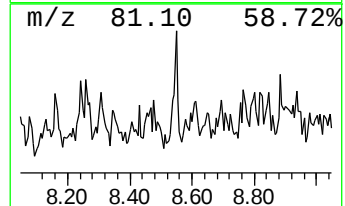
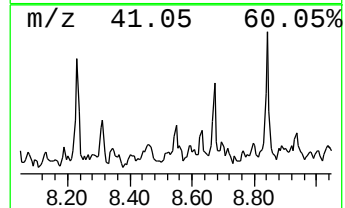
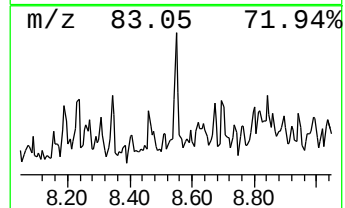
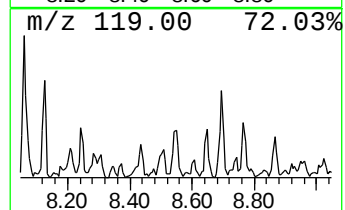
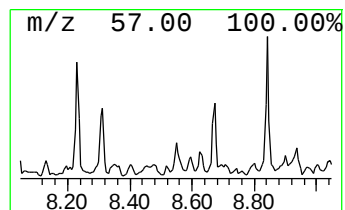
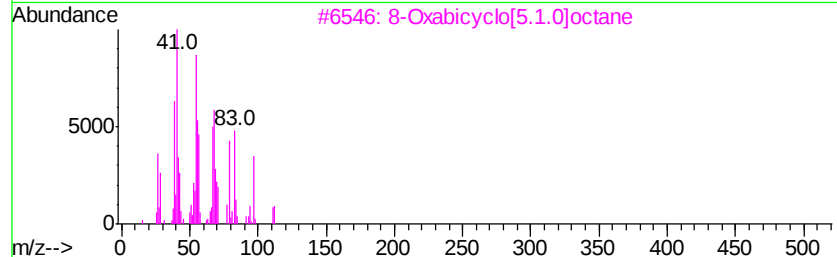
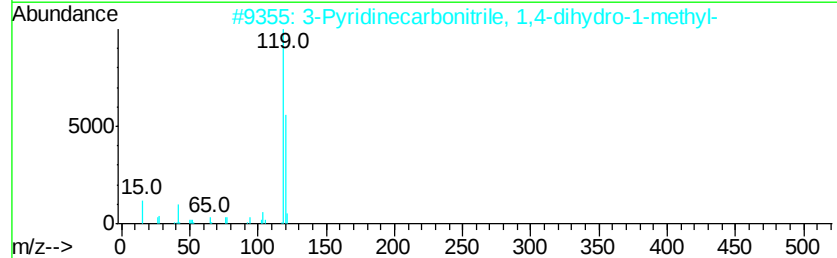
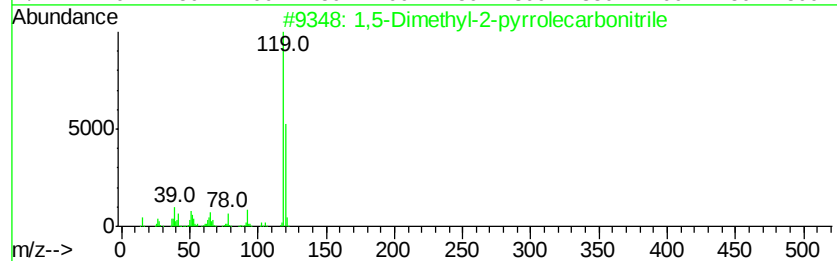
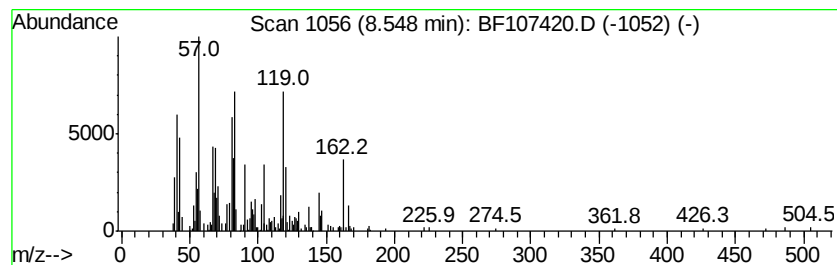
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown8.55 Concentration Rank 15

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.55 | 4.72 ng | 409933 | Naphthalene-d8   | 8.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,5-Dimethyl-2-pyrrolicarbonitrile  | 120 | C7H8N2  | 056341-36-7 | 18   |
| 2    |    | 3-Pyridinecarbonitrile, 1,4-dihy... | 120 | C7H8N2  | 019424-15-8 | 18   |
| 3    |    | 8-Oxabicyclo[5.1.0]octane           | 112 | C7H12O  | 000286-45-3 | 14   |
| 4    |    | Cyclohexene, 1-hexyl-               | 166 | C12H22  | 003964-66-7 | 11   |
| 5    |    | Spiro[5.6]dodecane                  | 166 | C12H22  | 000181-15-7 | 11   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

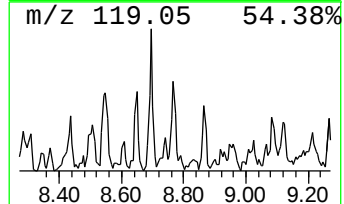
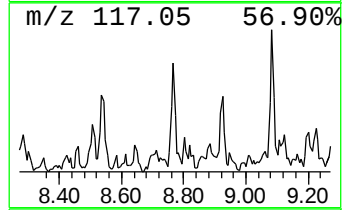
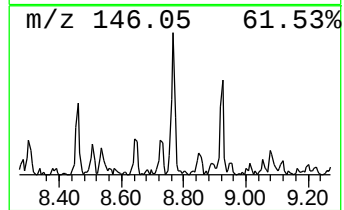
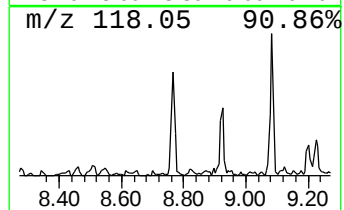
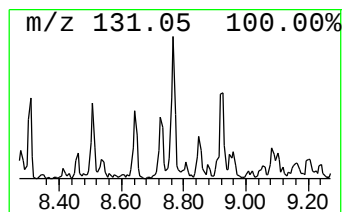
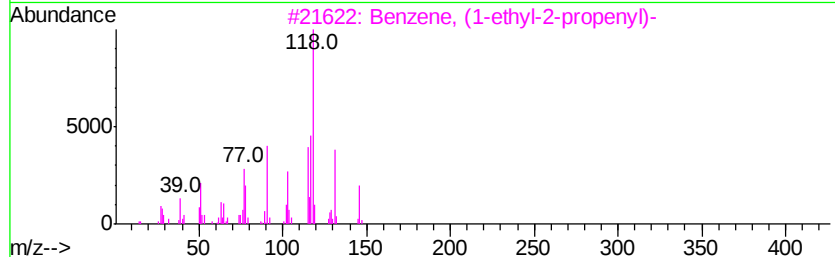
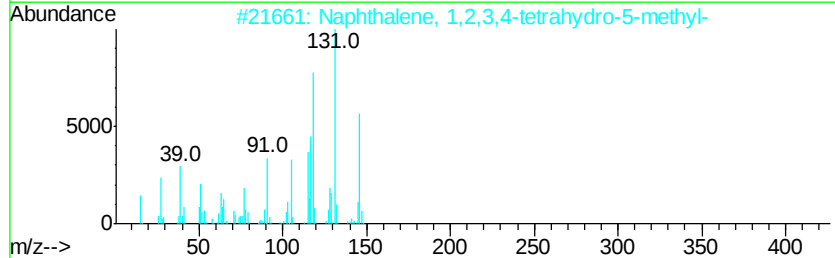
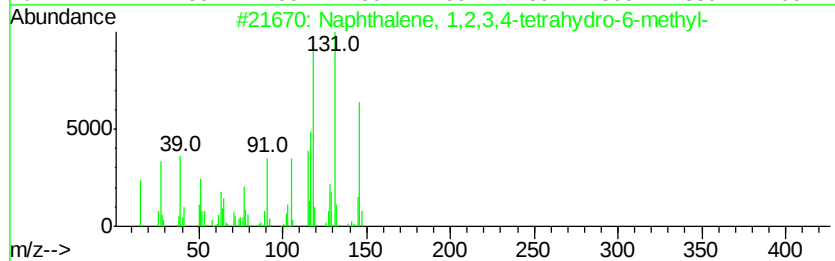
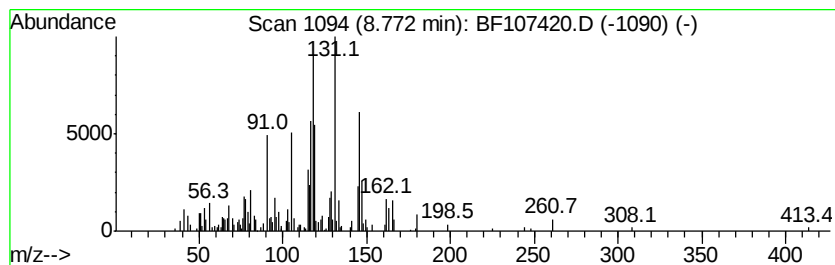
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Naphthalene, 1,2,3,4-tetra... Concentration Rank 13

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.77 | 4.85 ng | 421250 | Naphthalene-d8   | 8.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14   | 001680-51-9 | 94   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14   | 002809-64-5 | 91   |
| 3    |    | Benzene, (1-ethyl-2-propenyl)-      | 146 | C11H14   | 019947-22-9 | 87   |
| 4    |    | 1H-1,3,2-Benzodiazaborole, 2-eth... | 146 | C8H11BN2 | 074663-81-3 | 83   |
| 5    |    | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14   | 000769-57-3 | 55   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

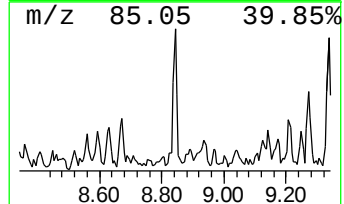
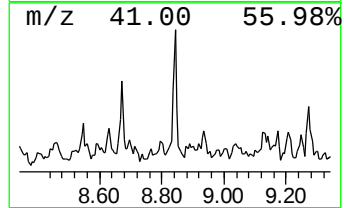
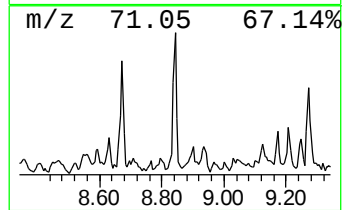
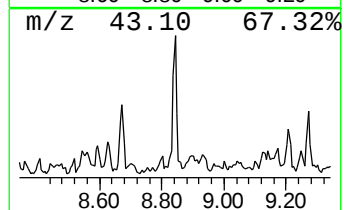
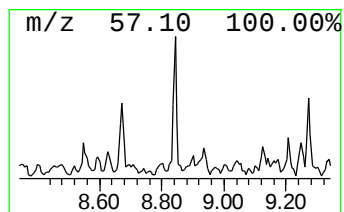
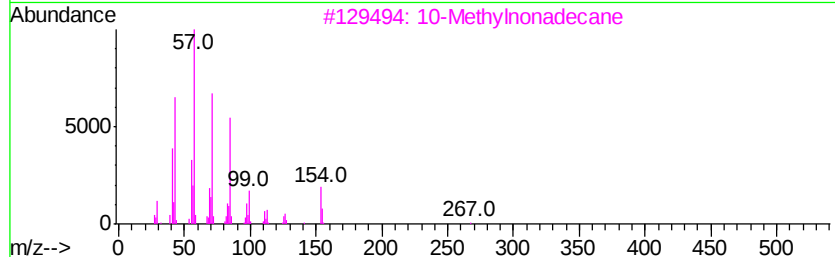
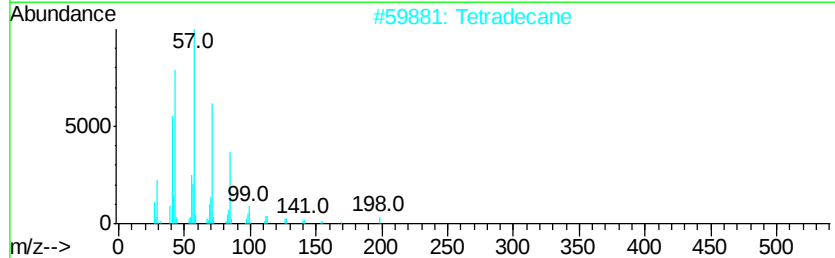
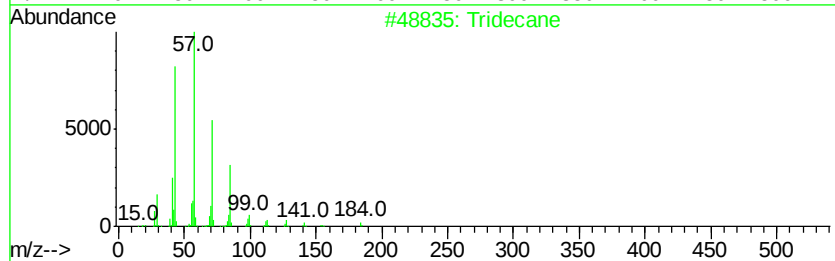
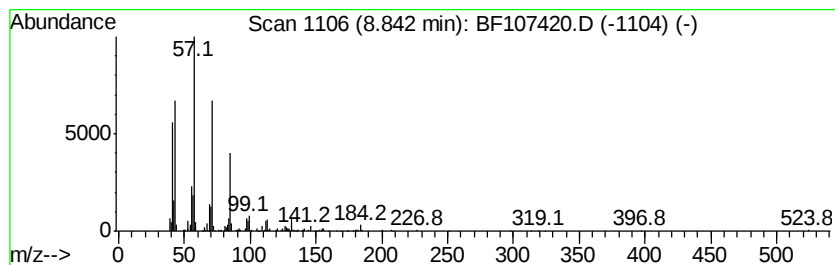
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TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.84 | 5.86 ng | 508808 | Naphthalene-d8   | 8.27 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane           | 184 | C13H28  | 000629-50-5 | 90   |
| 2    |    |   | Tetradecane         | 198 | C14H30  | 000629-59-4 | 87   |
| 3    |    |   | 10-Methylnonadecane | 282 | C20H42  | 056862-62-5 | 80   |
| 4    |    |   | Pentadecane         | 212 | C15H32  | 000629-62-9 | 78   |
| 5    |    |   | Nonadecane          | 268 | C19H40  | 000629-92-5 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

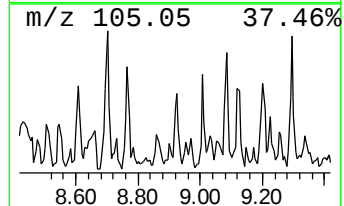
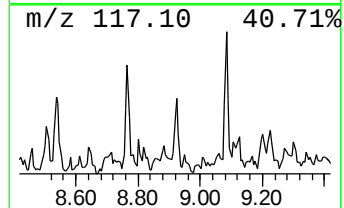
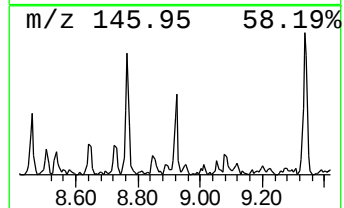
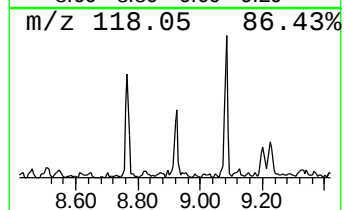
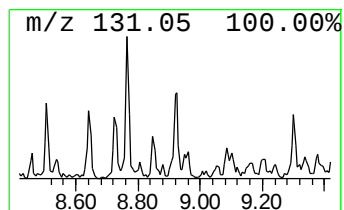
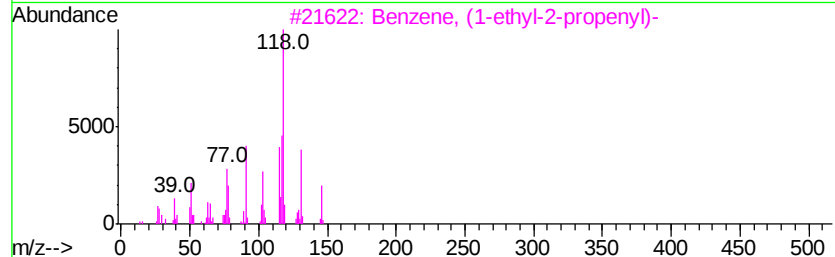
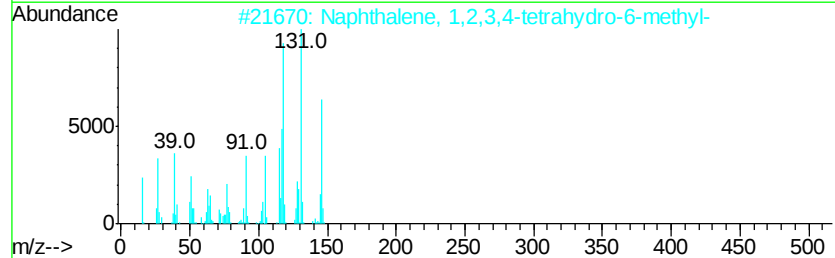
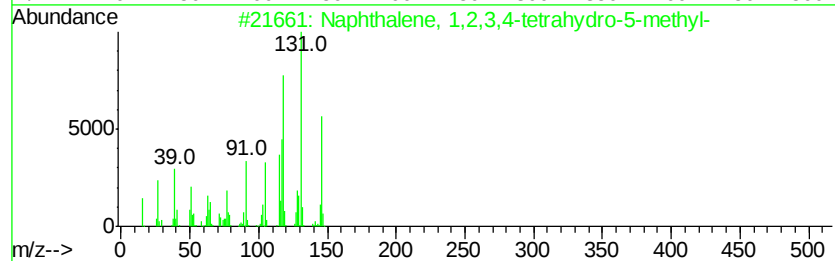
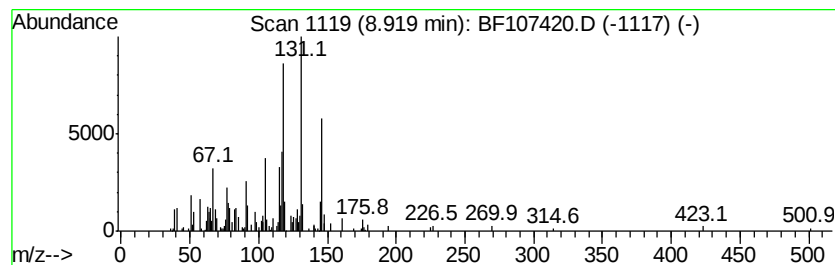
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 19

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.92 | 4.29 ng | 372551 | Naphthalene-d8   | 8.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 94   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 93   |
| 3    |    | Benzene, (1-ethyl-2-propenyl)-      | 146 | C11H14  | 019947-22-9 | 87   |
| 4    |    | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5 | 60   |
| 5    |    | 2-Propyn-1-ol, 3-(4-methylphenyl)-  | 146 | C10H10O | 016017-24-6 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

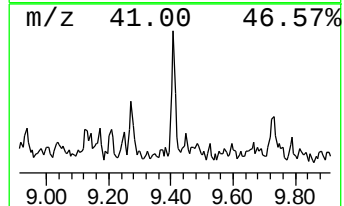
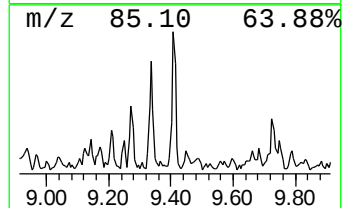
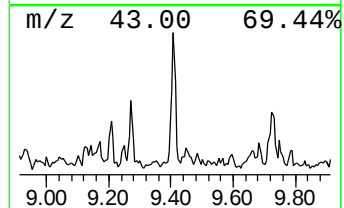
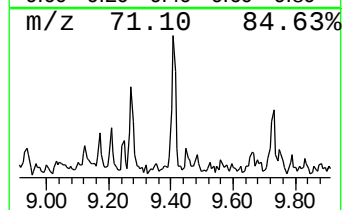
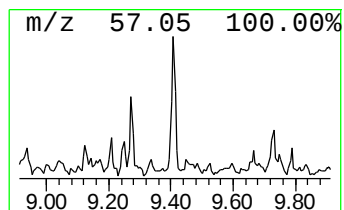
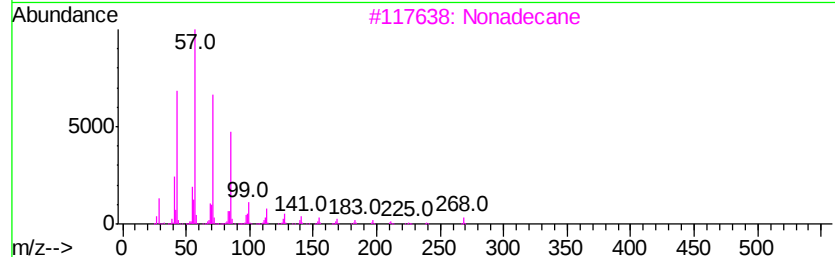
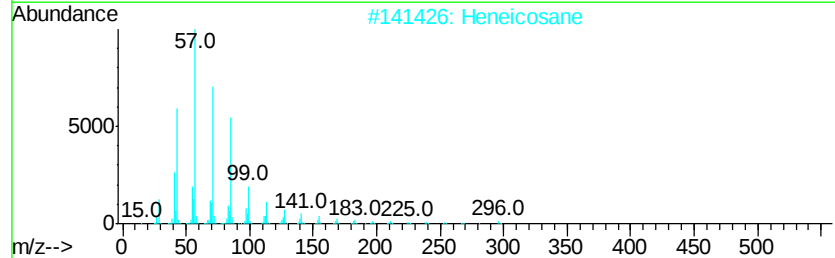
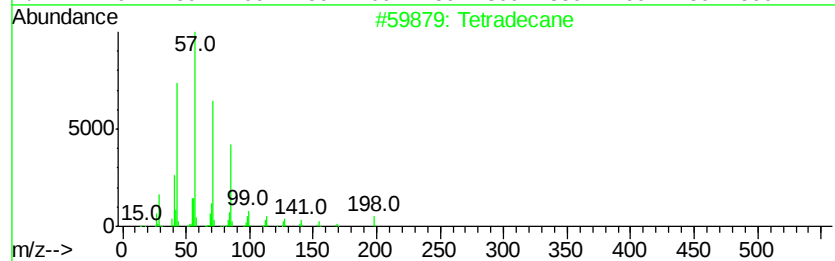
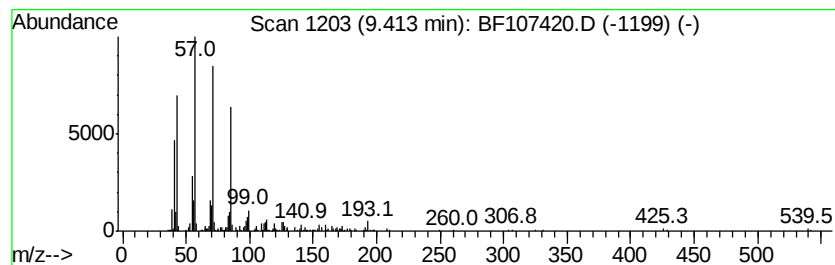
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Heneicosane Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD | R.T.  |
|------|---------|--------|------------------|-------|
| 9.41 | 9.17 ng | 625732 | Acenaphthene-d10 | 10.02 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane  | 198 | C14H30  | 000629-59-4 | 97   |
| 2    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Nonadecane   | 268 | C19H40  | 000629-92-5 | 86   |
| 4    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 86   |
| 5    |    | Pentadecane  | 212 | C15H32  | 000629-62-9 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

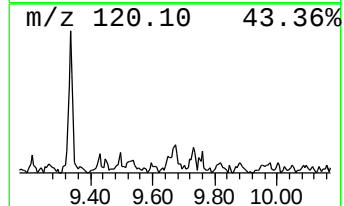
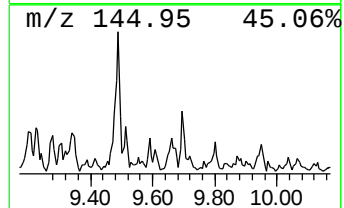
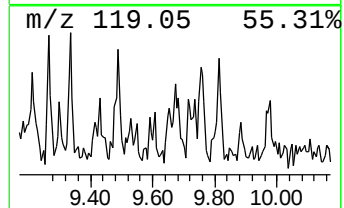
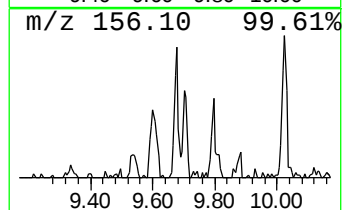
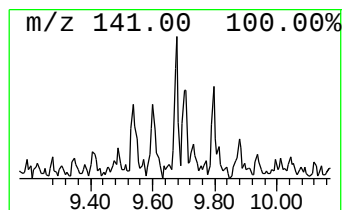
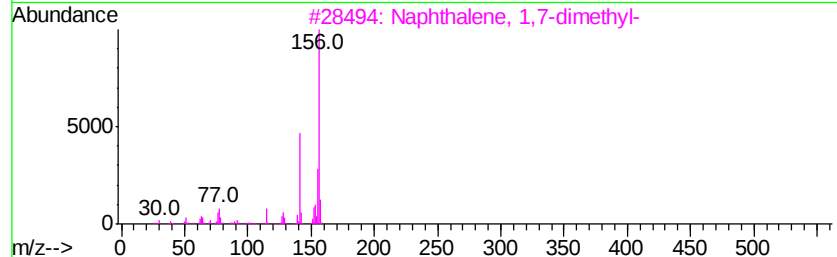
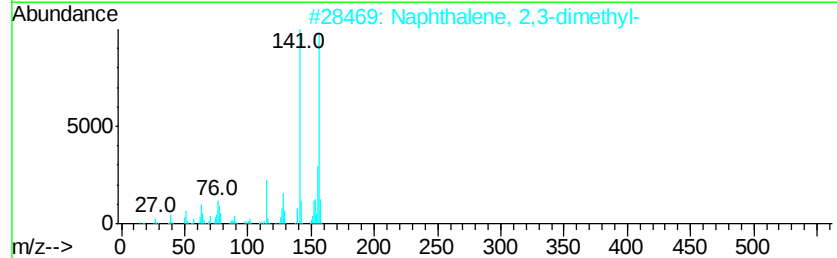
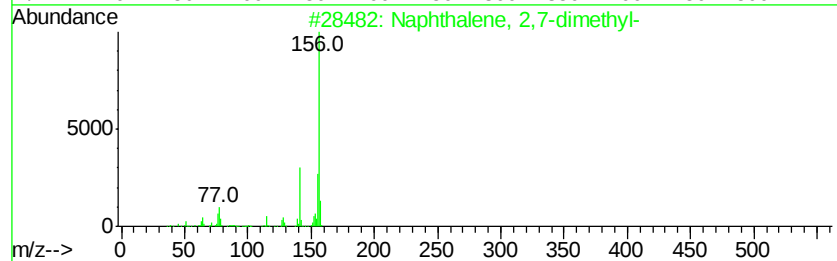
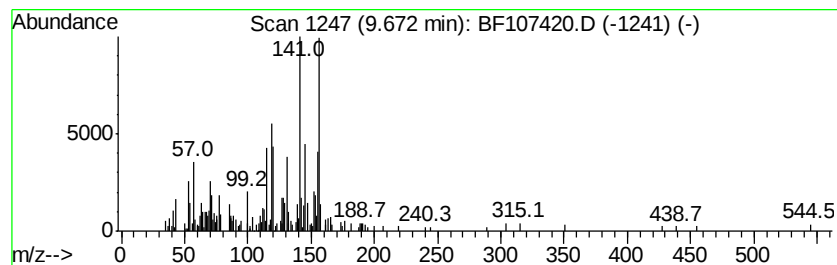
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Naphthalene, 2,7-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area   | Relative to ISTD | R.T.  |
|------|---------|--------|------------------|-------|
| 9.67 | 4.32 ng | 294625 | Acenaphthene-d10 | 10.02 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 90   |
| 2    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 89   |
| 3    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 64   |
| 4    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 64   |
| 5    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

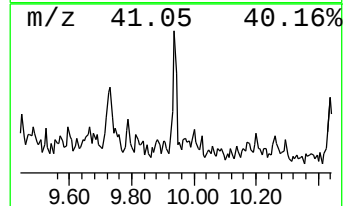
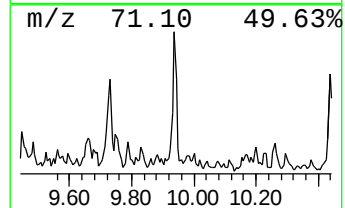
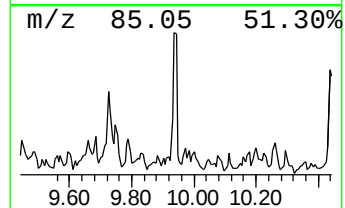
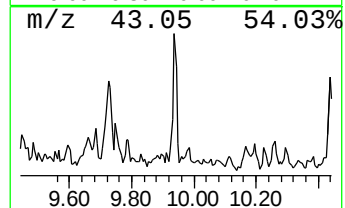
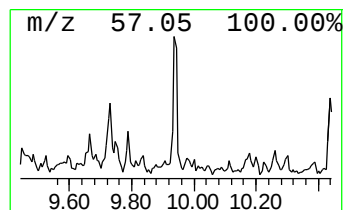
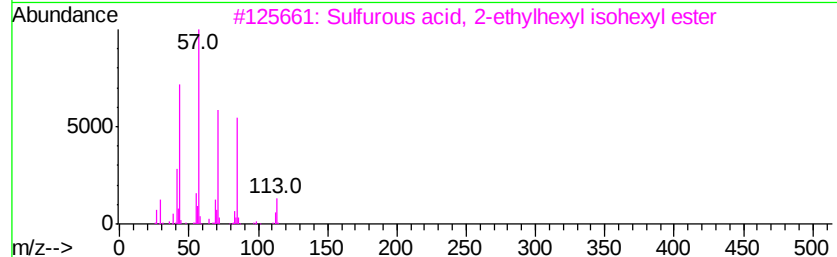
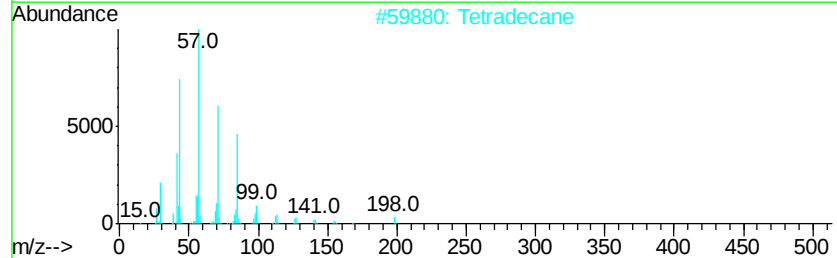
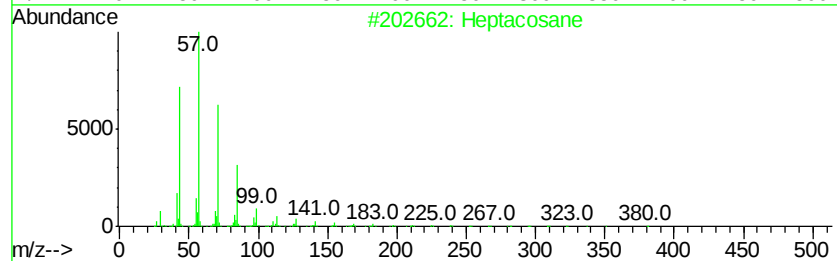
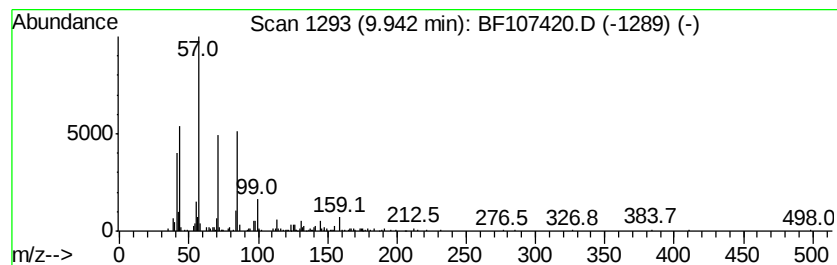
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Heptacosane Concentration Rank 10

| R.T. | EstConc | Area   | Relative to ISTD | R.T.  |
|------|---------|--------|------------------|-------|
| 9.94 | 5.64 ng | 384454 | Acenaphthene-d10 | 10.02 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Heptacosane                         | 380 | C27H56    | 000593-49-7  | 72   |
| 2    |    |   | Tetradecane                         | 198 | C14H30    | 000629-59-4  | 64   |
| 3    |    |   | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 59   |
| 4    |    |   | Pentadecane, 6-methyl-              | 226 | C16H34    | 010105-38-1  | 47   |
| 5    |    |   | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 47   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

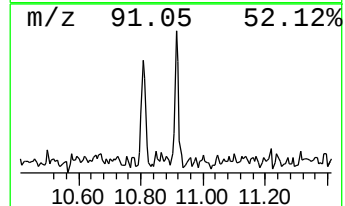
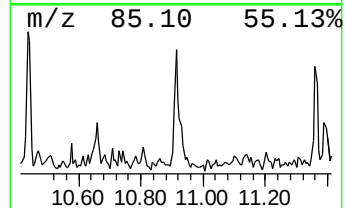
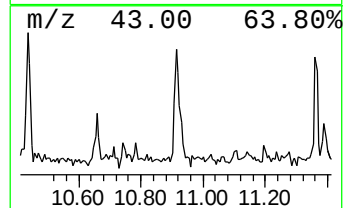
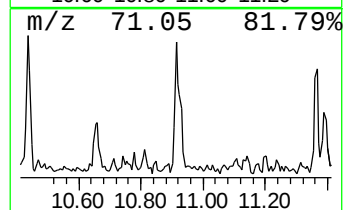
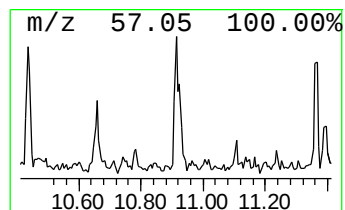
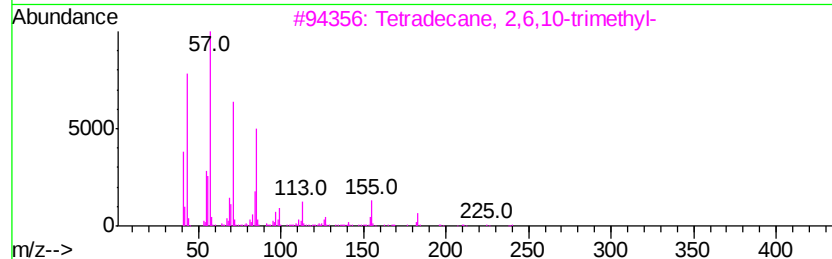
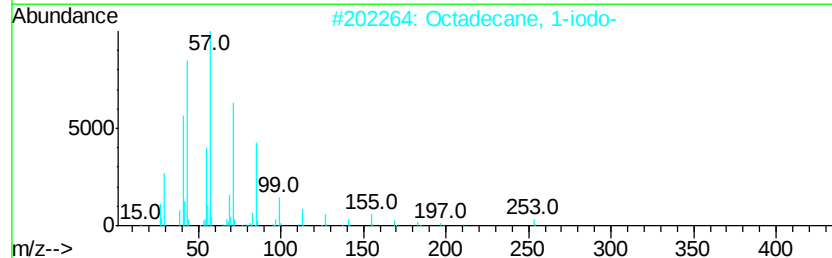
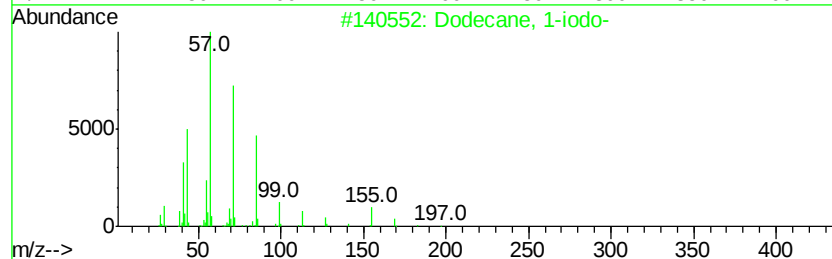
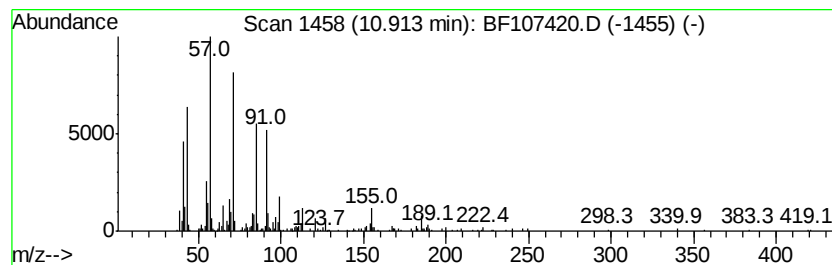
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Dodecane, 1-iodo- Concentration Rank 7

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------|--------|------------------|-------------|------|
| 10.91     | 6.14 ng                        | 465602 | Phenanthrene-d10 | 11.51       |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual |
| 1         | Dodecane, 1-iodo-              | 296    | C12H25I          | 004292-19-7 | 87   |
| 2         | Octadecane, 1-iodo-            | 380    | C18H37I          | 000629-93-6 | 86   |
| 3         | Tetradecane, 2,6,10-trimethyl- | 240    | C17H36           | 014905-56-7 | 83   |
| 4         | Hexadecane, 7-methyl-          | 240    | C17H36           | 026730-20-1 | 81   |
| 5         | 2-Bromo dodecane               | 248    | C12H25Br         | 013187-99-0 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

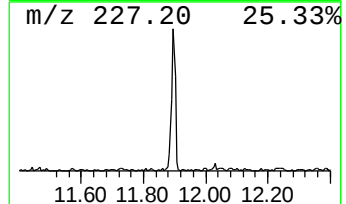
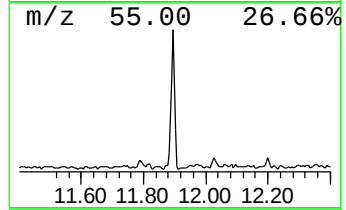
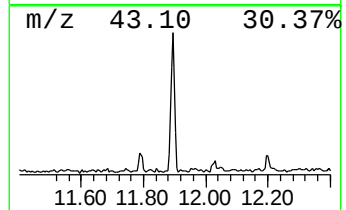
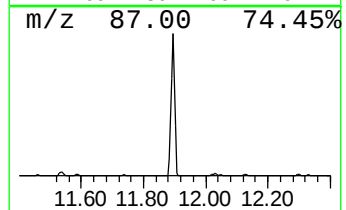
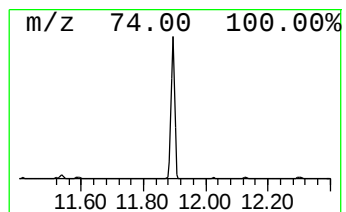
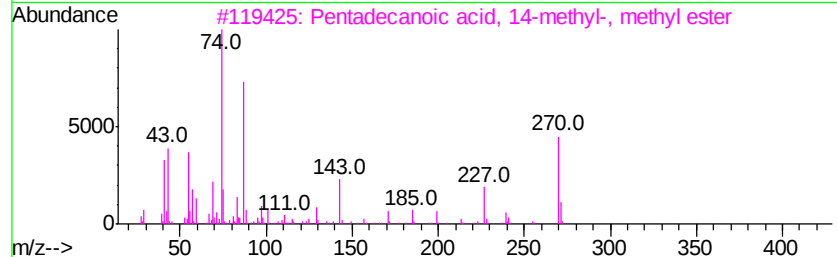
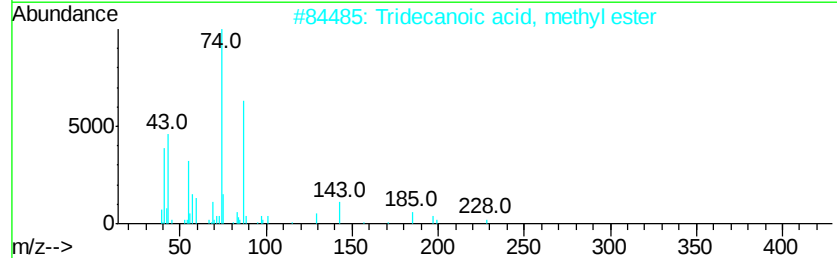
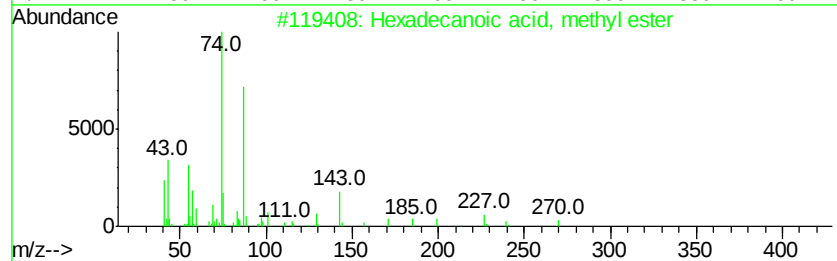
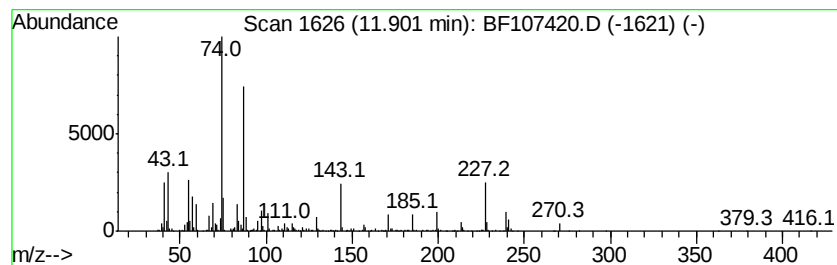
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Hexadecanoic acid, methyl e... Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.90 | 28.99 ng | 2199030 | Phenanthrene-d10 | 11.51 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 96   |
| 2    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 95   |
| 3    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 95   |
| 4    |    | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 93   |
| 5    |    | Tridecanoic acid, 12-methyl-, me... | 242 | C15H30O2 | 005129-58-8 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

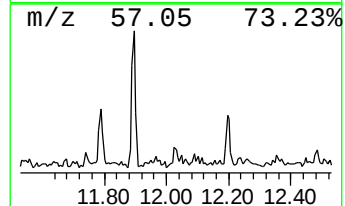
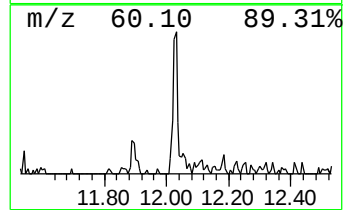
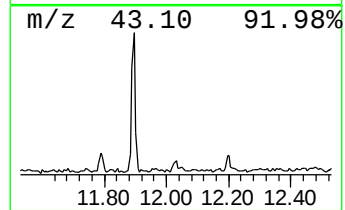
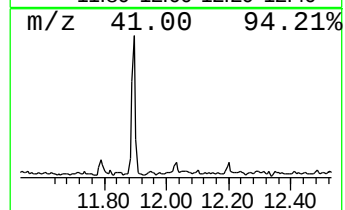
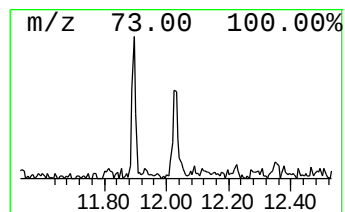
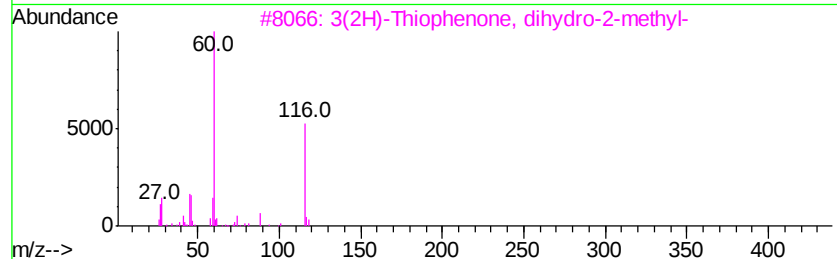
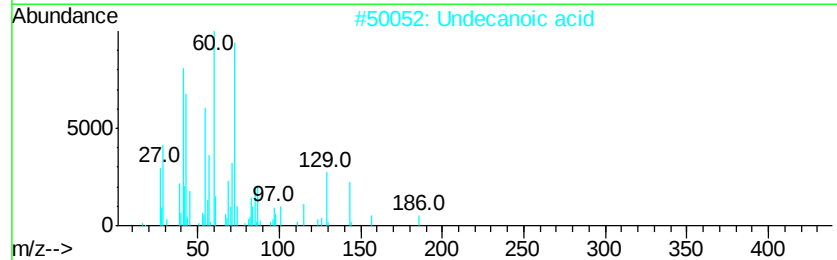
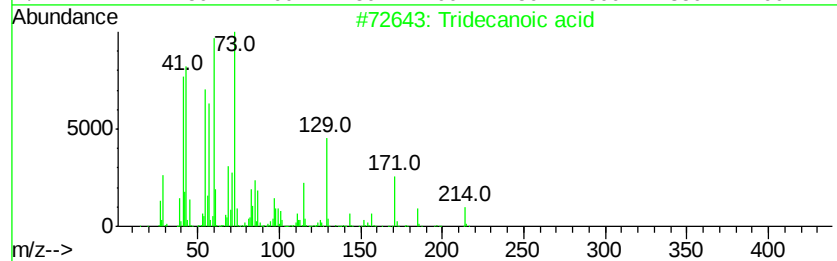
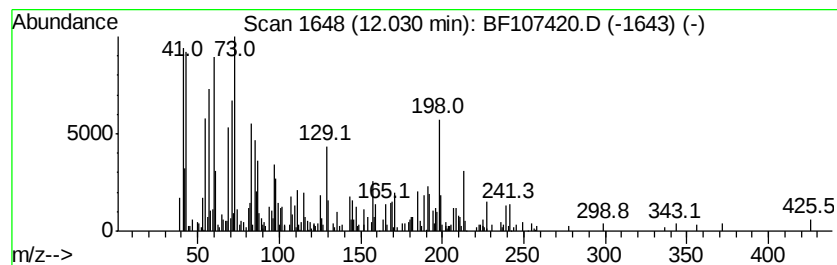
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 unknown12.03 Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.03 | 4.81 ng | 364938 | Phenanthrene-d10 | 11.51 |

| Hit# | of | 5 | Tentative ID                                                                     | MW  | MolForm  | CAS#         | Qual |
|------|----|---|----------------------------------------------------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Tridecanoic acid                                                                 | 214 | C13H26O2 | 000638-53-9  | 38   |
| 2    |    |   | Undecanoic acid                                                                  | 186 | C11H22O2 | 000112-37-8  | 27   |
| 3    |    |   | 3(2H)-Thiophenone, dihydro-2-methyl-                                             | 116 | C5H8OS   | 013679-85-1  | 18   |
| 4    |    |   | Nonanoic acid                                                                    | 158 | C9H18O2  | 000112-05-0  | 18   |
| 5    |    |   | Benzonitrile, 4-(2-methyl-1,3-oxo-5-phenyl-1,3-dihydro-2H-benzofuran-2-ylidene)- | 205 | C11H11NO | 1000115-95-3 | 18   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

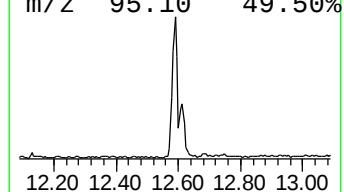
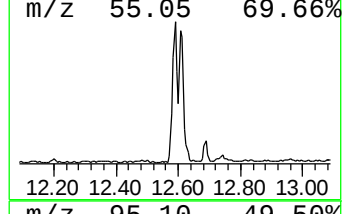
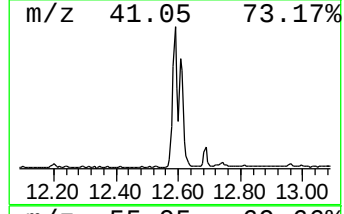
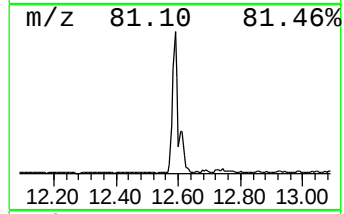
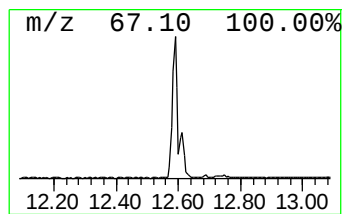
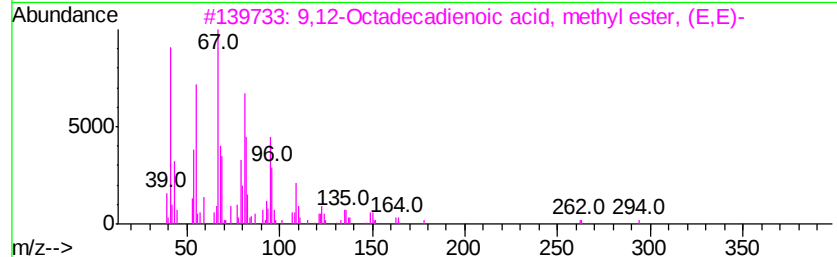
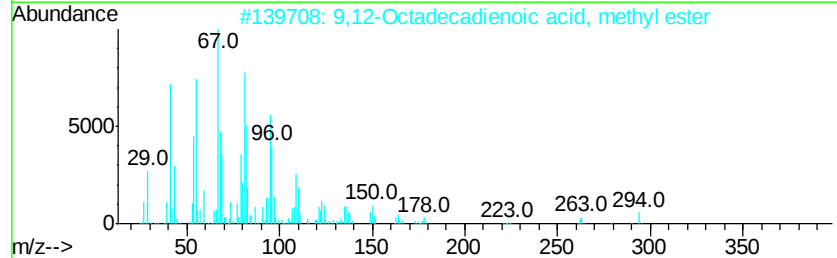
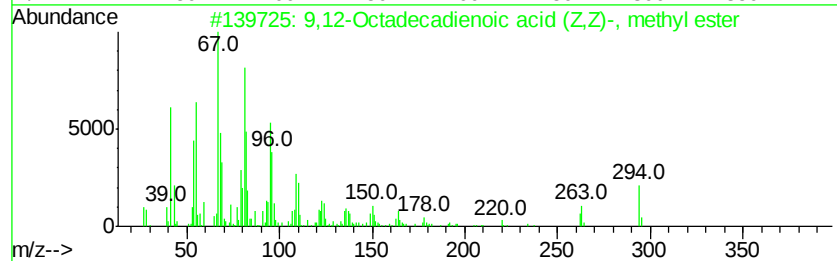
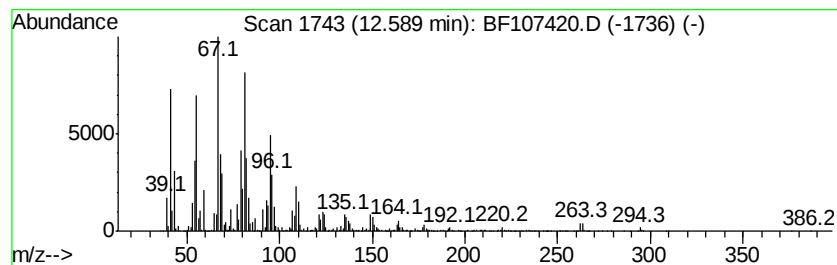
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 9,12-Octadecadienoic acid (... Concentration Rank 1

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 12.59 | 116.17 ng | 8812680 | Phenanthrene-d10 | 11.51 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99   |
| 2    |    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99   |
| 3    |    | 9,12-Octadecadienoic acid, methv... | 294 | C19H34O2 | 002566-97-4 | 99   |
| 4    |    | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 98   |
| 5    |    | 9,11-Octadecadienoic acid, methy... | 294 | C19H34O2 | 013038-47-6 | 98   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

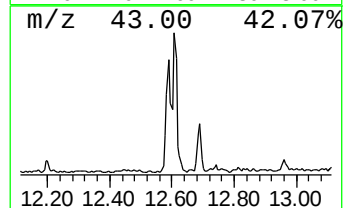
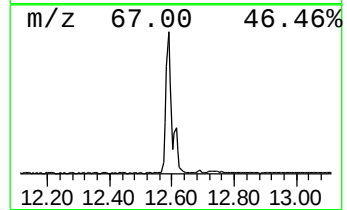
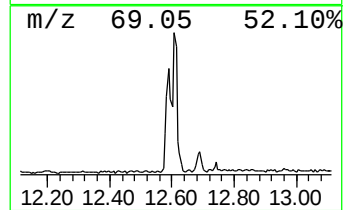
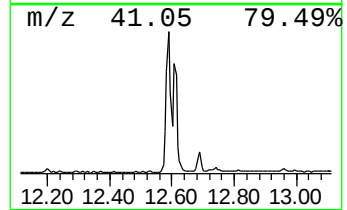
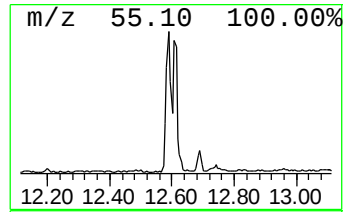
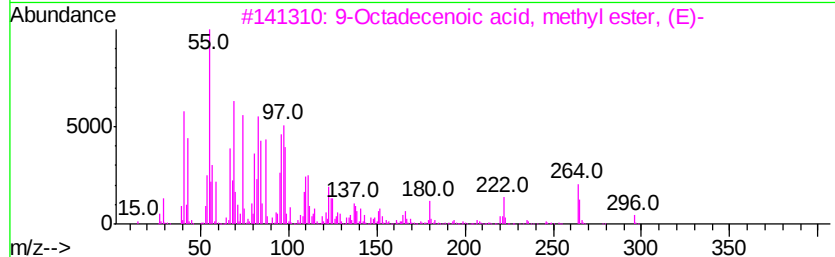
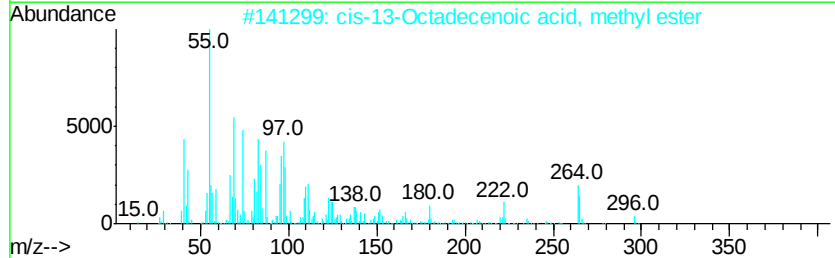
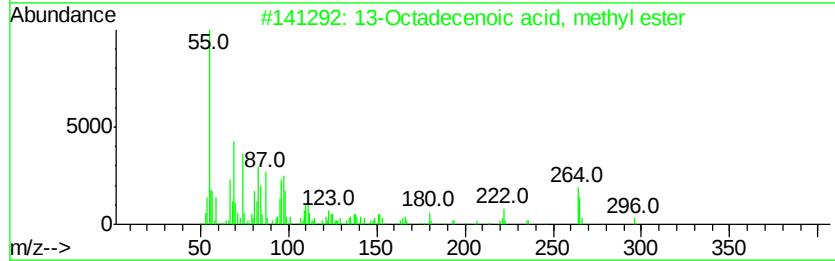
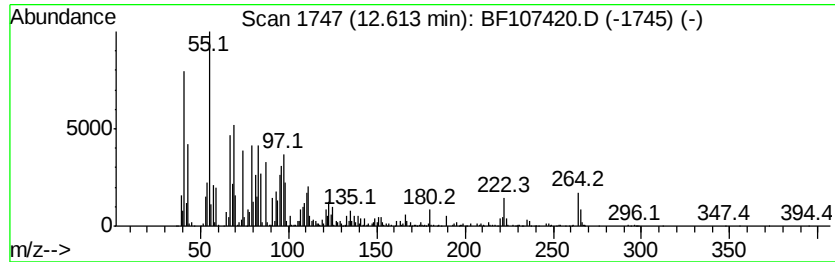
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 13-Octadecenoic acid, methy... Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.61 | 67.54 ng | 5123980 | Phenanthrene-d10 | 11.51 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 13-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-47-3  | 97   |
| 2    |    |   | cis-13-Octadecenoic acid, methyl... | 296 | C19H36O2 | 1000333-58-3 | 94   |
| 3    |    |   | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8  | 91   |
| 4    |    |   | 11-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 052380-33-3  | 90   |
| 5    |    |   | trans-13-Octadecenoic acid, meth... | 296 | C19H36O2 | 1000333-61-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071618\  
Data File : BF107420.D  
Acq On : 16 Jul 2018 23:22  
Operator : JU/SJ  
Sample : J3821-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

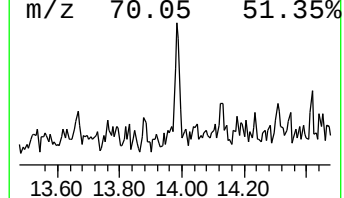
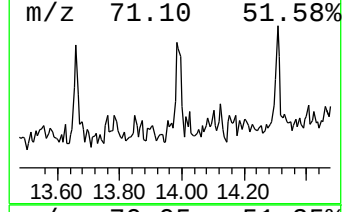
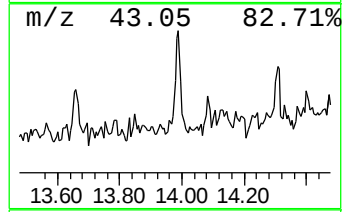
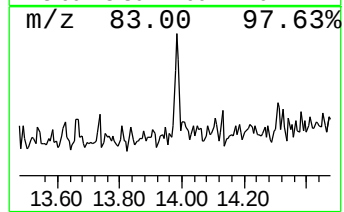
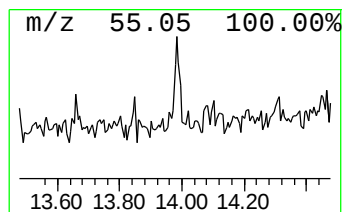
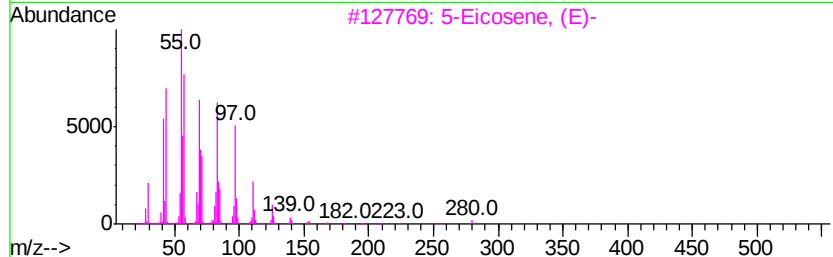
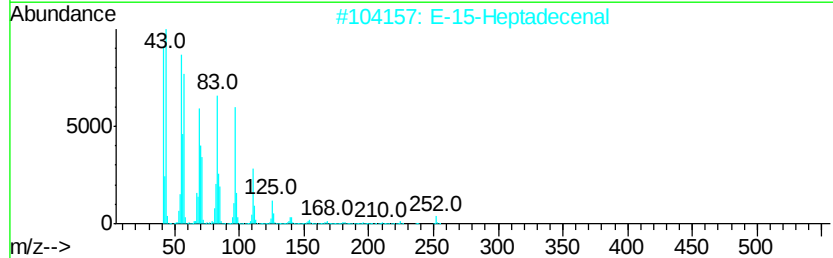
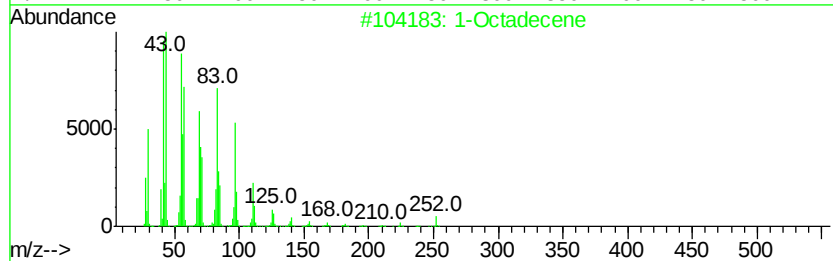
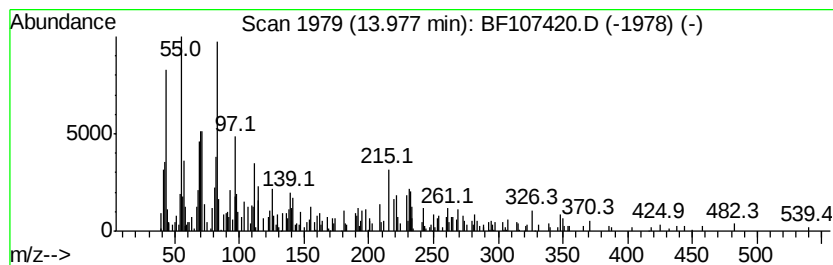
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 1-Octadecene Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.98 | 6.01 ng | 551699 | Chrysene-d12     | 14.17 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------|-----|---------|--------------|------|
| 1    |    |   | 1-Octadecene       | 252 | C18H36  | 000112-88-9  | 86   |
| 2    |    |   | E-15-Heptadecenal  | 252 | C17H32O | 1000130-97-9 | 78   |
| 3    |    |   | 5-Eicosene, (E)-   | 280 | C20H40  | 074685-30-6  | 70   |
| 4    |    |   | Cyclotetracosane   | 336 | C24H48  | 000297-03-0  | 62   |
| 5    |    |   | 3-Octadecene, (E)- | 252 | C18H36  | 007206-19-1  | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071618\  
 Data File : BF107420.D  
 Acq On : 16 Jul 2018 23:22  
 Operator : JU/SJ  
 Sample : J3821-01 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-071218-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071618.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 |
| unknown6.75          | 6.75  | 31.8    | ng    | 1836270  | 1                     | 6.98  | 1154380 | 20.0 |
| Benzene, 1,2,3-tr... | 6.80  | 5.3     | ng    | 308641   | 1                     | 6.98  | 1154380 | 20.0 |
| Benzene, 1,4-diet... | 7.30  | 4.3     | ng    | 248669   | 1                     | 6.98  | 1154380 | 20.0 |
| Benzene, 1-methyl... | 7.37  | 4.2     | ng    | 243613   | 1                     | 6.98  | 1154380 | 20.0 |
| unknown7.62          | 7.62  | 5.0     | ng    | 285692   | 1                     | 6.98  | 1154380 | 20.0 |
| unknown8.00          | 8.00  | 4.4     | ng    | 385848   | 2                     | 8.27  | 1736680 | 20.0 |
| unknown8.55          | 8.55  | 4.7     | ng    | 409933   | 2                     | 8.27  | 1736680 | 20.0 |
| Naphthalene, 1,2,... | 8.77  | 4.8     | ng    | 421250   | 2                     | 8.27  | 1736680 | 20.0 |
| Tridecane            | 8.84  | 5.9     | ng    | 508808   | 2                     | 8.27  | 1736680 | 20.0 |
| Naphthalene, 1,2,... | 8.92  | 4.3     | ng    | 372551   | 2                     | 8.27  | 1736680 | 20.0 |
| Heneicosane          | 9.41  | 9.2     | ng    | 625732   | 3                     | 10.02 | 1364160 | 20.0 |
| Naphthalene, 2,7-... | 9.67  | 4.3     | ng    | 294625   | 3                     | 10.02 | 1364160 | 20.0 |
| Heptacosane          | 9.94  | 5.6     | ng    | 384454   | 3                     | 10.02 | 1364160 | 20.0 |
| Dodecane, 1-iodo-    | 10.91 | 6.1     | ng    | 465602   | 4                     | 11.51 | 1517240 | 20.0 |
| Hexadecanoic acid... | 11.90 | 29.0    | ng    | 2199030  | 4                     | 11.51 | 1517240 | 20.0 |
| unknown12.03         | 12.03 | 4.8     | ng    | 364938   | 4                     | 11.51 | 1517240 | 20.0 |
| 9,12-Octadecadien... | 12.59 | 116.2   | ng    | 8812680  | 4                     | 11.51 | 1517240 | 20.0 |
| 13-Octadecenoic a... | 12.61 | 67.5    | ng    | 5123980  | 4                     | 11.51 | 1517240 | 20.0 |
| 1-Octadecene         | 13.98 | 6.0     | ng    | 551699   | 5                     | 14.17 | 1834600 | 20.0 |