

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121218\  
 Data File : BF111335.D  
 Acq On : 12 Dec 2018 21:33  
 Operator : JU/SJ  
 Sample : J6331-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

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-BF121218.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         | 3.228       | 191           | 194         | 204          | rBV      | 56120          | 135890        | 2.19%           | 0.248%        |
| 2         | 5.004       | 489           | 496         | 504          | rBV      | 256920         | 332521        | 5.35%           | 0.607%        |
| 3         | 5.416       | 561           | 566         | 569          | rBV      | 5318522        | 5538299       | 89.08%          | 10.111%       |
| 4         | 6.428       | 733           | 738         | 753          | rBV      | 5561681        | 6216994       | 100.00%         | 11.350%       |
| 5         | 6.563       | 757           | 761         | 764          | rBV      | 6162144        | 5639676       | 90.71%          | 10.296%       |
| 6         | 6.792       | 796           | 800         | 808          | rBV      | 1918574        | 1557475       | 25.05%          | 2.843%        |
| 7         | 6.951       | 823           | 827         | 830          | rBV      | 5248725        | 4393717       | 70.67%          | 8.022%        |
| 8         | 7.351       | 890           | 895         | 898          | rBV      | 3833673        | 3462225       | 55.69%          | 6.321%        |
| 9         | 8.075       | 1014          | 1018        | 1021         | rBV      | 2280838        | 1822561       | 29.32%          | 3.327%        |
| 10        | 9.151       | 1197          | 1201        | 1204         | rBV      | 6211012        | 5301210       | 85.27%          | 9.678%        |
| 11        | 9.245       | 1214          | 1217        | 1222         | rVB2     | 52709          | 62623         | 1.01%           | 0.114%        |
| 12        | 9.545       | 1264          | 1268        | 1271         | rBV      | 768695         | 681872        | 10.97%          | 1.245%        |
| 13        | 9.828       | 1311          | 1316        | 1320         | rBV2     | 1913043        | 1646061       | 26.48%          | 3.005%        |
| 14        | 10.033      | 1348          | 1351        | 1354         | rBV      | 73030          | 64274         | 1.03%           | 0.117%        |
| 15        | 10.616      | 1446          | 1450        | 1453         | rBV      | 2683009        | 2455799       | 39.50%          | 4.483%        |
| 16        | 11.116      | 1532          | 1535        | 1539         | rVB      | 89769          | 87352         | 1.41%           | 0.159%        |
| 17        | 11.310      | 1564          | 1568        | 1570         | rBV      | 1640752        | 1389225       | 22.35%          | 2.536%        |
| 18        | 11.333      | 1570          | 1572        | 1576         | rVV      | 904579         | 713894        | 11.48%          | 1.303%        |
| 19        | 11.386      | 1576          | 1581        | 1583         | rVB      | 118070         | 129024        | 2.08%           | 0.236%        |
| 20        | 11.539      | 1602          | 1607        | 1610         | rBV2     | 95337          | 119995        | 1.93%           | 0.219%        |
| 21        | 11.816      | 1650          | 1654        | 1656         | rBV      | 83351          | 88592         | 1.42%           | 0.162%        |
| 22        | 11.845      | 1656          | 1659        | 1663         | rBV      | 741246         | 661484        | 10.64%          | 1.208%        |
| 23        | 11.921      | 1669          | 1672        | 1675         | rBV      | 124195         | 127465        | 2.05%           | 0.233%        |
| 24        | 12.110      | 1701          | 1704        | 1705         | rBV      | 79266          | 68168         | 1.10%           | 0.124%        |
| 25        | 12.127      | 1705          | 1707        | 1710         | rVB      | 149304         | 116844        | 1.88%           | 0.213%        |
| 26        | 12.363      | 1744          | 1747        | 1750         | rVB3     | 68976          | 74474         | 1.20%           | 0.136%        |
| 27        | 12.416      | 1750          | 1756        | 1758         | rBV5     | 45034          | 84832         | 1.36%           | 0.155%        |
| 28        | 12.445      | 1758          | 1761        | 1766         | rVB2     | 87625          | 87940         | 1.41%           | 0.161%        |
| 29        | 12.521      | 1771          | 1774        | 1778         | rBV      | 1238422        | 1026654       | 16.51%          | 1.874%        |
| 30        | 12.627      | 1789          | 1792        | 1798         | rBV3     | 226403         | 267871        | 4.31%           | 0.489%        |
| 31        | 12.751      | 1807          | 1813        | 1816         | rBV      | 999483         | 995504        | 16.01%          | 1.817%        |
| 32        | 12.898      | 1834          | 1838        | 1845         | rVB      | 4493537        | 3988574       | 64.16%          | 7.282%        |
| 33        | 12.968      | 1848          | 1850        | 1854         | rVB2     | 52446          | 65595         | 1.06%           | 0.120%        |
| 34        | 13.080      | 1867          | 1869        | 1872         | rVB      | 81429          | 68774         | 1.11%           | 0.126%        |

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Operator : JU/SJ  
Sample : J6331-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

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-BF121218.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.180 | 1882 | 1886 | 1890 | rBV3 | 94477   | 127609  | 2.05%  | 0.233% |
| 36 | 13.580 | 1952 | 1954 | 1961 | rVB  | 97265   | 117068  | 1.88%  | 0.214% |
| 37 | 13.698 | 1970 | 1974 | 1977 | rBV2 | 76303   | 119881  | 1.93%  | 0.219% |
| 38 | 13.751 | 1980 | 1983 | 1987 | rVV2 | 281614  | 335846  | 5.40%  | 0.613% |
| 39 | 13.804 | 1990 | 1992 | 2001 | rVB  | 549847  | 772168  | 12.42% | 1.410% |
| 40 | 13.945 | 2012 | 2016 | 2019 | rBV2 | 1407919 | 1690312 | 27.19% | 3.086% |
| 41 | 13.974 | 2019 | 2021 | 2027 | rVB  | 409765  | 369046  | 5.94%  | 0.674% |
| 42 | 14.968 | 2187 | 2190 | 2193 | rBV  | 294572  | 445430  | 7.16%  | 0.813% |
| 43 | 15.262 | 2237 | 2240 | 2245 | rVB  | 202832  | 245983  | 3.96%  | 0.449% |
| 44 | 15.321 | 2247 | 2250 | 2254 | rBV  | 202140  | 236925  | 3.81%  | 0.433% |
| 45 | 15.386 | 2257 | 2261 | 2264 | rBV  | 744072  | 840439  | 13.52% | 1.534% |

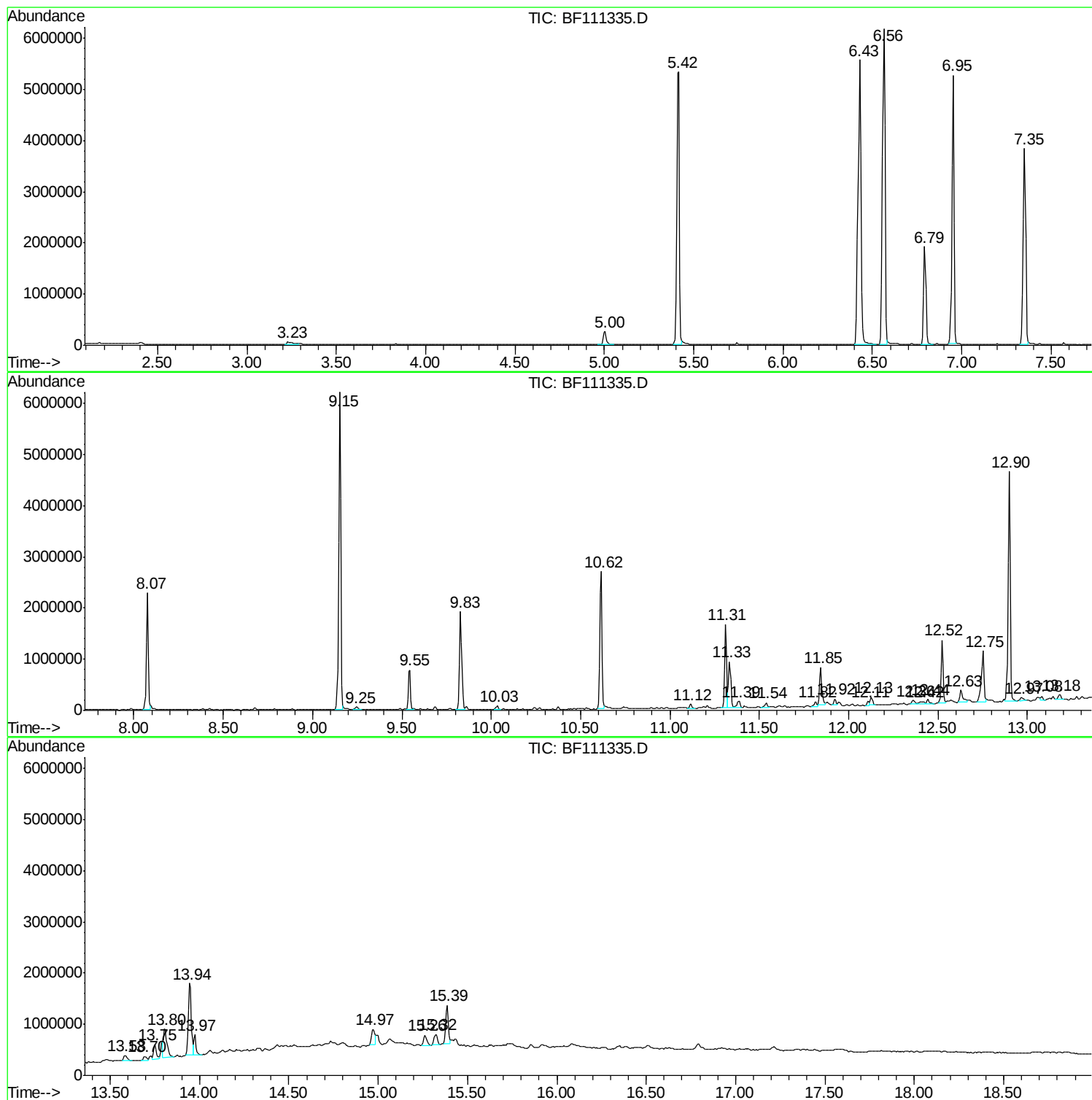
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

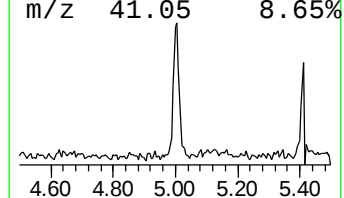
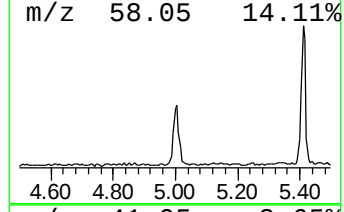
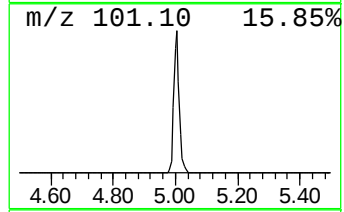
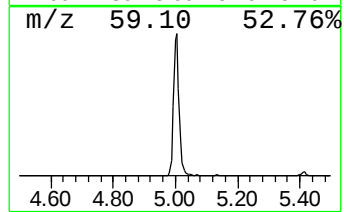
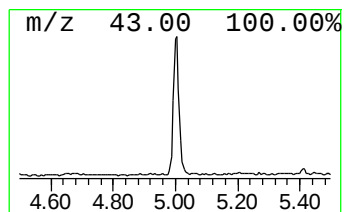
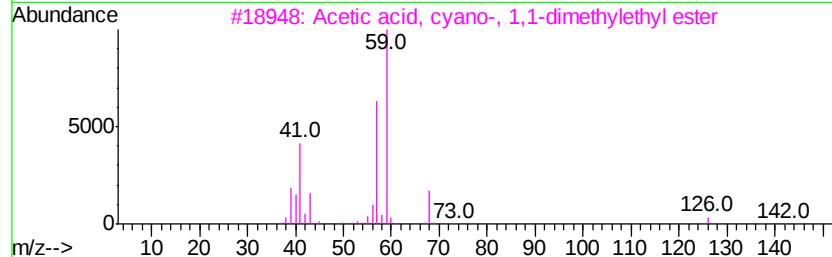
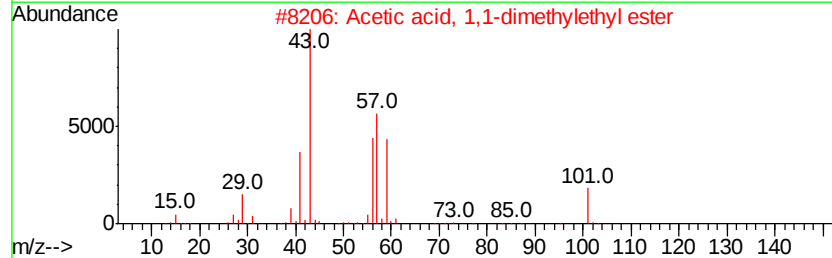
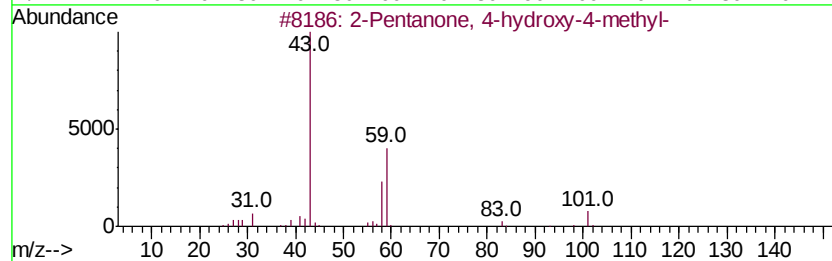
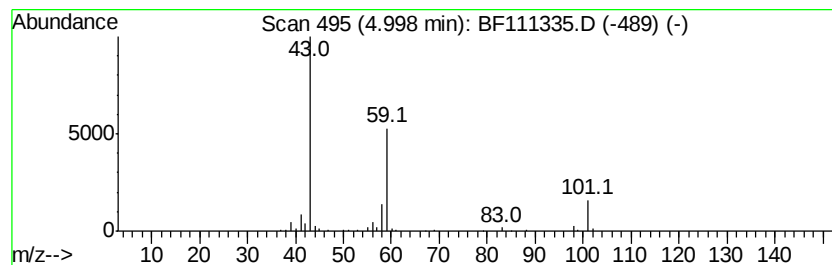
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.00 | 4.27 ng | 332521 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of | 5                                    | Tentative ID | MW       | MolForm     | CAS# | Qual |
|---------|--------------------------------------|--------------|----------|-------------|------|------|
| 1       | 2-Pentanone, 4-hydroxy-4-methyl-     | 116          | C6H12O2  | 000123-42-2 | 45   |      |
| 2       | Acetic acid, 1,1-dimethylethyl e...  | 116          | C6H12O2  | 000540-88-5 | 38   |      |
| 3       | Acetic acid, cyano-, 1,1-dimethyl... | 141          | C7H11NO2 | 001116-98-9 | 37   |      |
| 4       | 3-Hexanol, 4-methyl-                 | 116          | C7H16O   | 000615-29-2 | 33   |      |
| 5       | 2,3-Butanedione, monooxime           | 101          | C4H7NO2  | 000057-71-6 | 16   |      |



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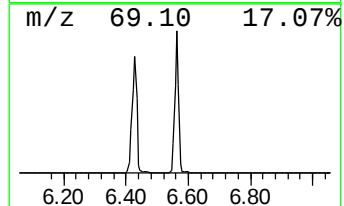
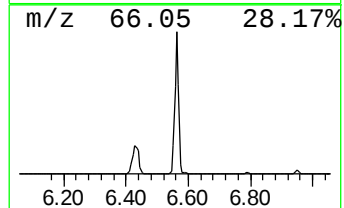
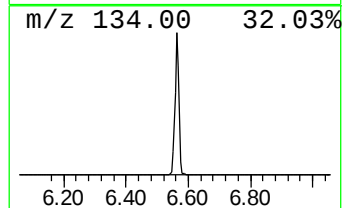
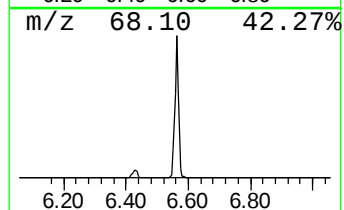
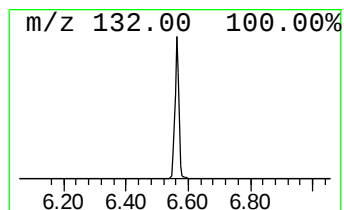
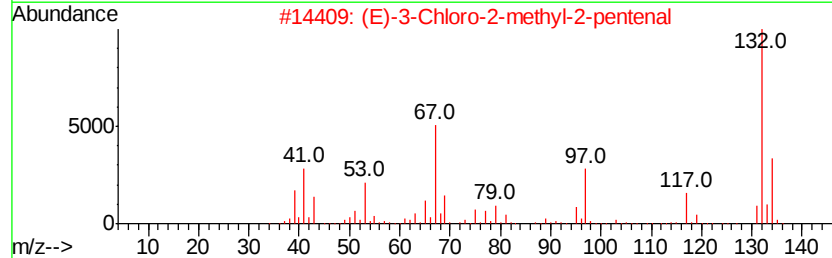
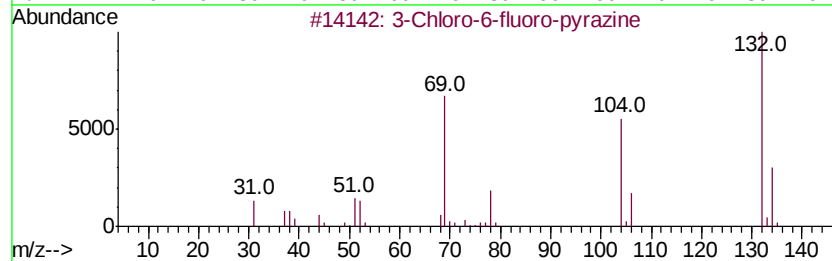
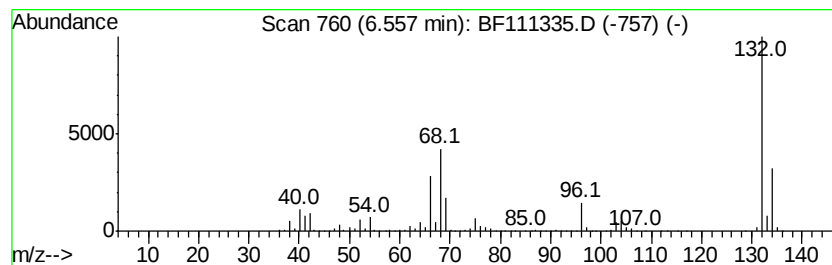
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.56 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.56 | 72.42 ng | 5639680 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

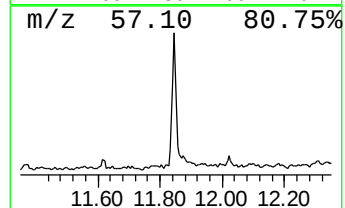
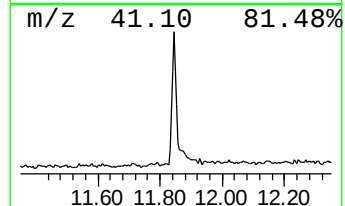
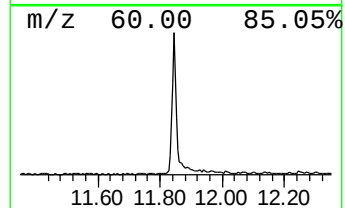
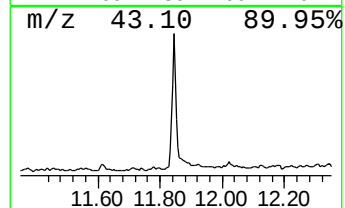
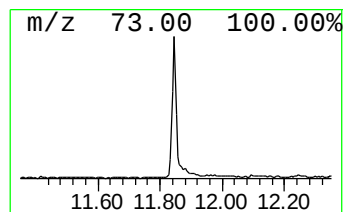
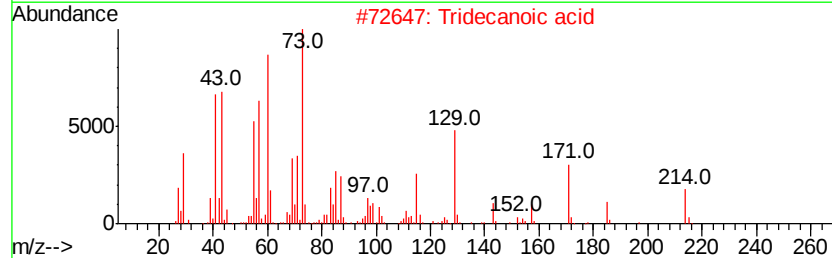
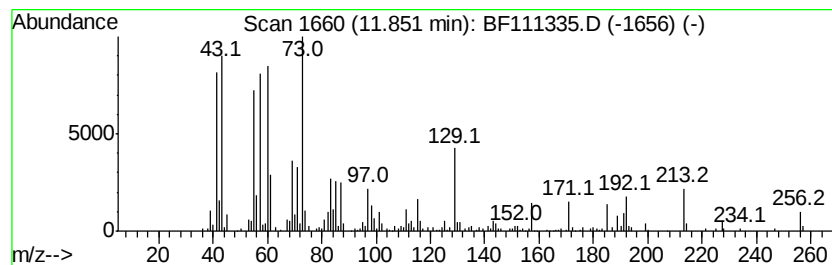
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.85 | 9.52 ng | 661484 | Phenanthrene-d10 | 11.31 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 91   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 70   |
| 4       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 70   |
| 5       |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 53   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
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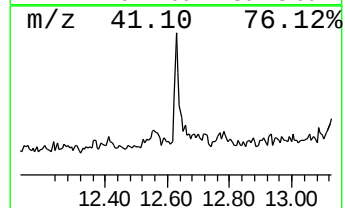
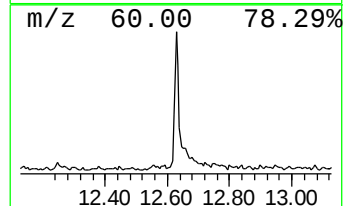
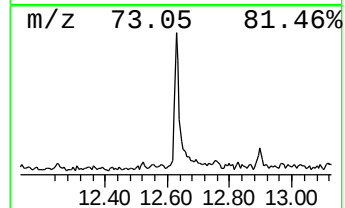
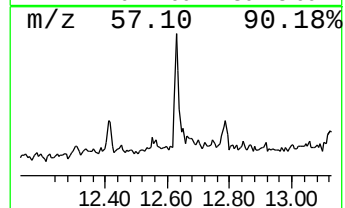
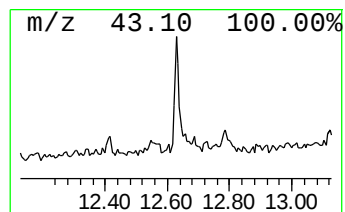
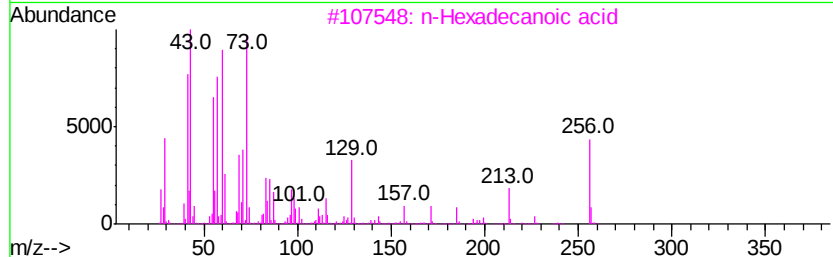
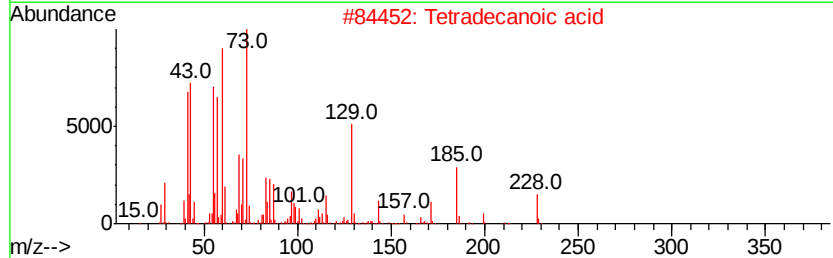
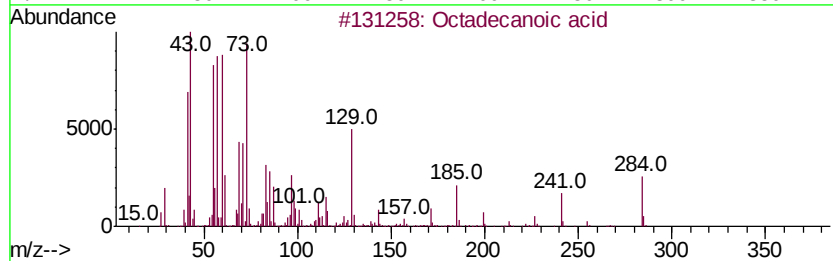
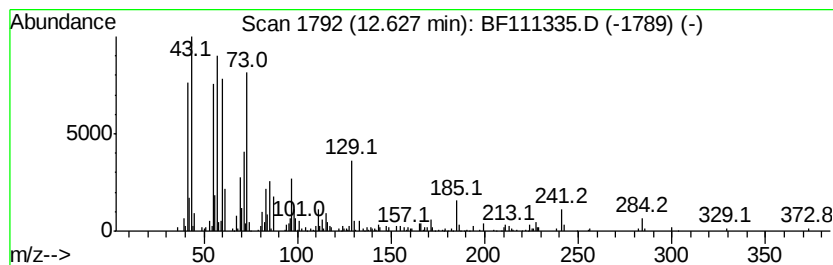
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Octadecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.63 | 3.86 ng | 267871 | Phenanthrene-d10 | 11.31 |

| Hit# of | 5 | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|---------|---|------------------------------------|-----|----------|-------------|------|
| 1       |   | Octadecanoic acid                  | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2       |   | Tetradecanoic acid                 | 228 | C14H28O2 | 000544-63-8 | 90   |
| 3       |   | n-Hexadecanoic acid                | 256 | C16H32O2 | 000057-10-3 | 90   |
| 4       |   | Pentadecanoic acid                 | 242 | C15H30O2 | 001002-84-2 | 87   |
| 5       |   | Octadecanoic acid, 2-(2-hydroxy... | 372 | C22H44O4 | 000106-11-6 | 87   |



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TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

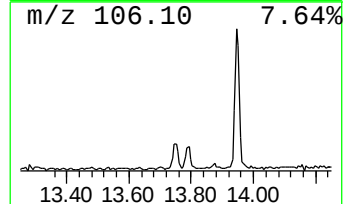
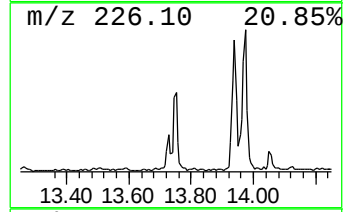
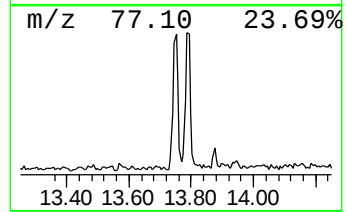
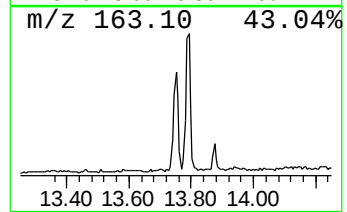
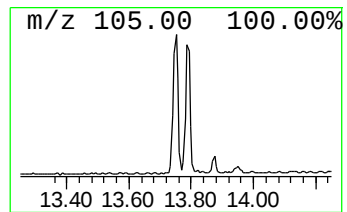
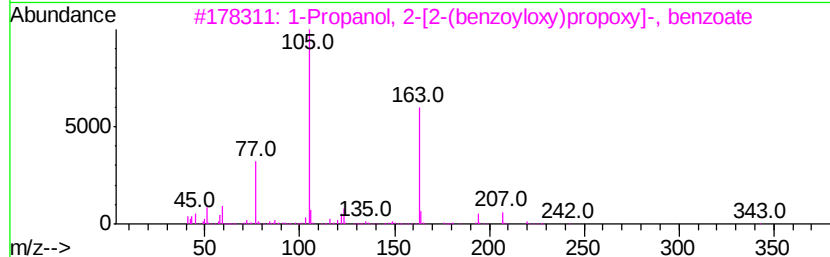
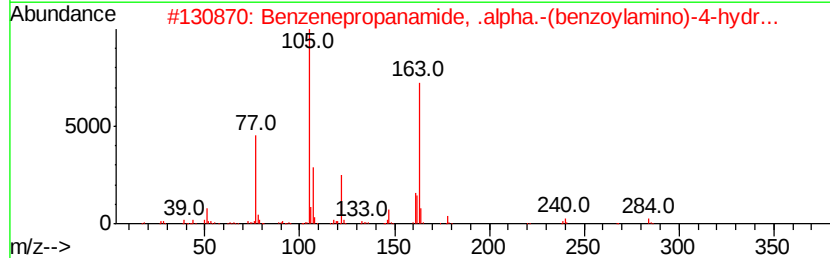
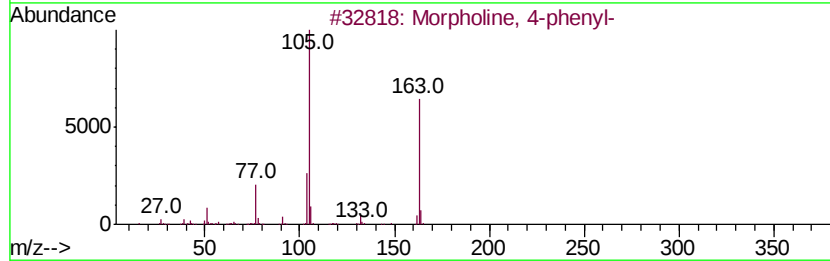
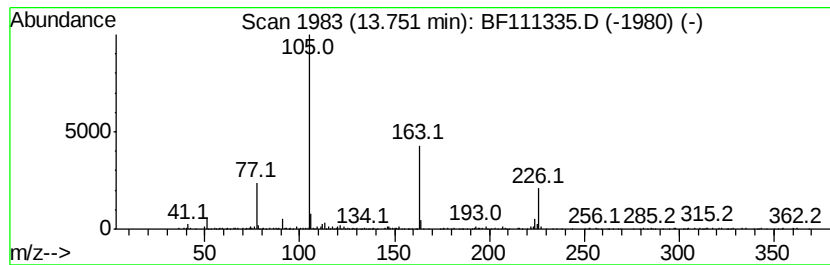
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Morpholine, 4-phenyl- Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.75 | 3.97 ng | 335846 | Chrysene-d12     | 13.95 |

| Hit# | of | Tentative ID                         | MW  | MolForm    | CAS#         | Qual |
|------|----|--------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Morpholine, 4-phenyl-                | 163 | C10H13NO   | 000092-53-5  | 50   |
| 2    |    | Benzenepropanamide, .alpha.-(ben...  | 284 | C16H16N2O3 | 058690-81-6  | 50   |
| 3    |    | 1-Propanol, 2-[2-(benzovloxy)pro...  | 342 | C20H22O5   | 020109-39-1  | 42   |
| 4    |    | Benzoic acid, 2,3-dimethylphenyl...  | 226 | C15H14O2   | 1000360-68-4 | 38   |
| 5    |    | (3-Phenylloxiran-2-yl)methyl benz... | 254 | C16H14O3   | 1000366-96-1 | 36   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111335.D  
Acq On : 12 Dec 2018 21:33  
Operator : JU/SJ  
Sample : J6331-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

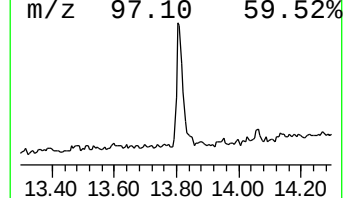
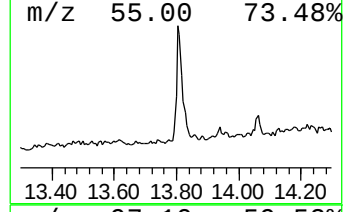
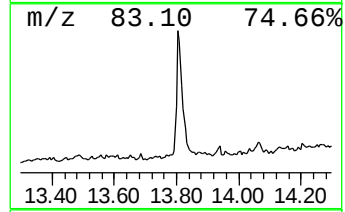
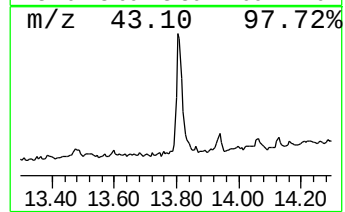
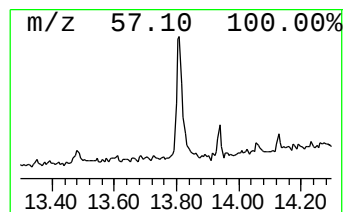
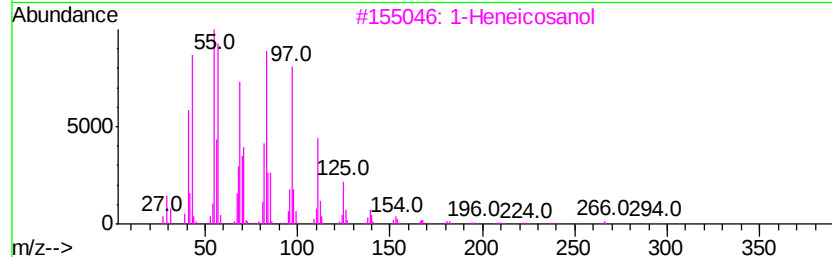
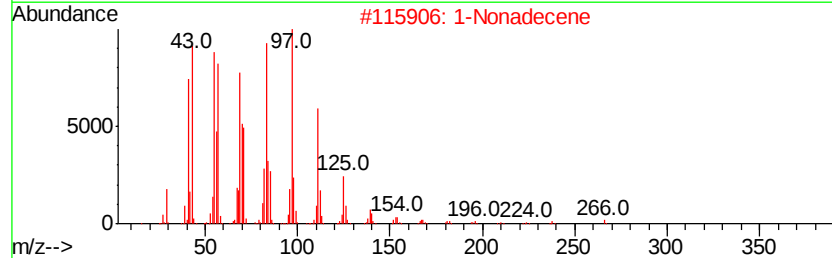
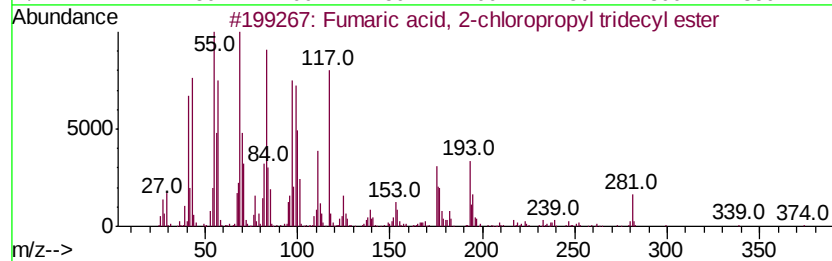
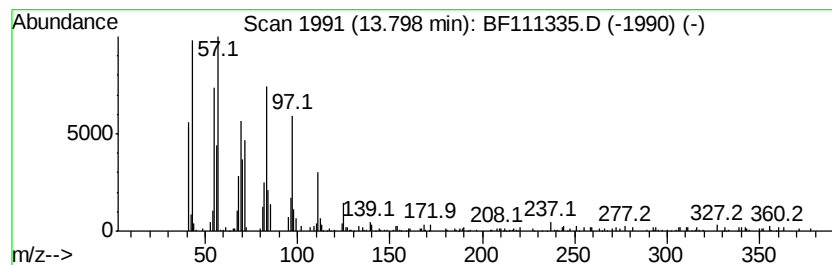
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Fumaric acid, 2-chloropropyl... Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.80 | 9.14 ng | 772168 | Chrysene-d12     | 13.95 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Fumaric acid, 2-chloropropyl tri... | 374 | C20H35ClO4 | 1000348-57-1 | 96   |
| 2    |    | 1-Nonadecene                        | 266 | C19H38     | 018435-45-5  | 95   |
| 3    |    | 1-Heneicosanol                      | 312 | C21H44O    | 015594-90-8  | 94   |
| 4    |    | 1-Heneicosyl formate                | 340 | C22H44O2   | 077899-03-7  | 94   |
| 5    |    | n-Nonadecanol-1                     | 284 | C19H40O    | 001454-84-8  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111335.D  
Acq On : 12 Dec 2018 21:33  
Operator : JU/SJ  
Sample : J6331-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

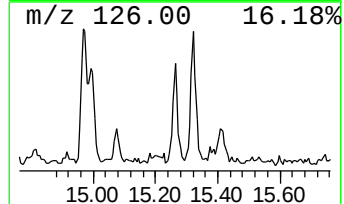
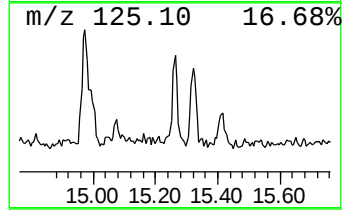
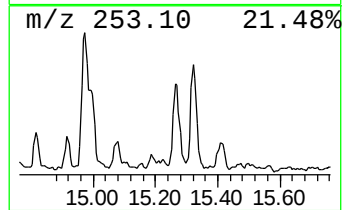
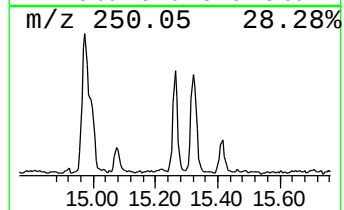
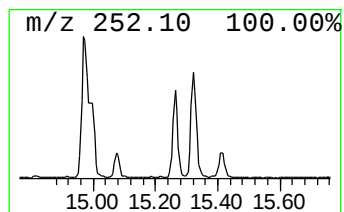
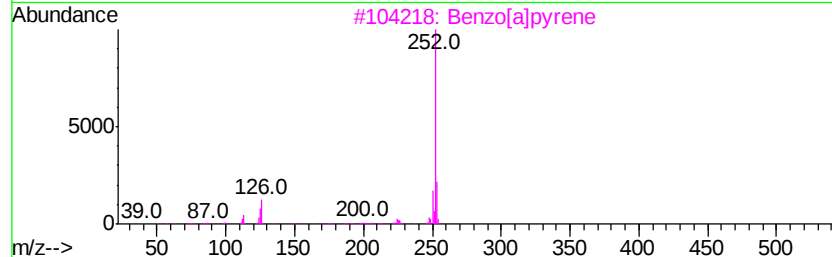
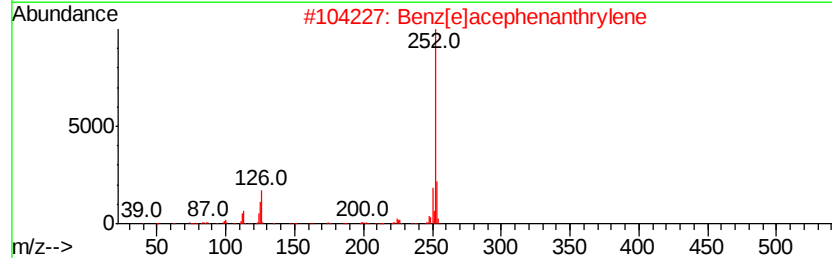
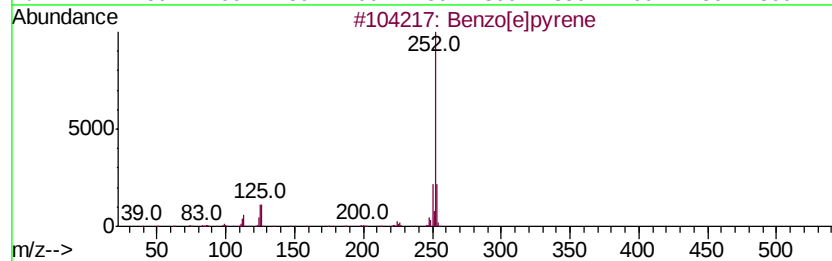
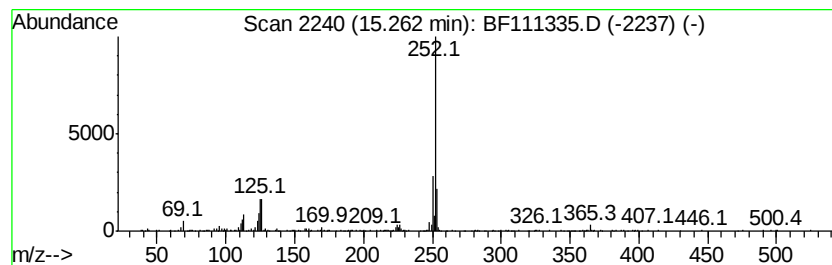
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Benzo[e]pyrene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.26 | 5.85 ng | 245983 | Perylene-d12     | 15.39 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 2       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 97   |
| 3       |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 95   |
| 4       |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 93   |
| 5       |   | Benzo[j]fluoranthene     | 252 | C20H12  | 000205-82-3 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121218\  
Data File : BF111335.D  
Acq On : 12 Dec 2018 21:33  
Operator : JU/SJ  
Sample : J6331-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121218.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 |
| 2-Pentanone, 4-hy... | 5.00  | 4.3     | ng    | 332521   | 1                     | 6.79  | 1557480 | 20.0 |
| unknown6.56          | 6.56  | 72.4    | ng    | 5639680  | 1                     | 6.79  | 1557480 | 20.0 |
| n-Hexadecanoic acid  | 11.85 | 9.5     | ng    | 661484   | 4                     | 11.31 | 1389230 | 20.0 |
| Octadecanoic acid    | 12.63 | 3.9     | ng    | 267871   | 4                     | 11.31 | 1389230 | 20.0 |
| Morpholine, 4-phe... | 13.75 | 4.0     | ng    | 335846   | 5                     | 13.95 | 1690310 | 20.0 |
| Fumaric acid, 2-c... | 13.80 | 9.1     | ng    | 772168   | 5                     | 13.95 | 1690310 | 20.0 |
| Benzo[e]pyrene       | 15.26 | 5.8     | ng    | 245983   | 6                     | 15.39 | 840439  | 20.0 |