

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
 Data File : BF117369.D  
 Acq On : 10 Oct 2019 19:22  
 Operator : JU  
 Sample : K5145-01 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-100919

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-BF091319.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         | 5.416       | 563           | 566         | 590          | rBV      | 192987         | 306140        | 6.62%           | 1.945%        |
| 2         | 6.440       | 737           | 740         | 759          | rBV      | 235627         | 359370        | 7.77%           | 2.283%        |
| 3         | 6.569       | 759           | 762         | 774          | rVV      | 378130         | 369797        | 8.00%           | 2.350%        |
| 4         | 6.792       | 797           | 800         | 813          | rBV      | 242081         | 242017        | 5.24%           | 1.538%        |
| 5         | 6.951       | 823           | 827         | 842          | rBV      | 278773         | 286013        | 6.19%           | 1.817%        |
| 6         | 7.357       | 893           | 896         | 913          | rBV      | 125628         | 203156        | 4.39%           | 1.291%        |
| 7         | 8.075       | 1015          | 1018        | 1032         | rVB      | 253516         | 297165        | 6.43%           | 1.888%        |
| 8         | 9.151       | 1197          | 1201        | 1210         | rBV      | 389219         | 412501        | 8.92%           | 2.621%        |
| 9         | 9.545       | 1264          | 1268        | 1271         | rBV2     | 51978          | 65121         | 1.41%           | 0.414%        |
| 10        | 9.757       | 1302          | 1304        | 1309         | rVB      | 64572          | 54275         | 1.17%           | 0.345%        |
| 11        | 9.828       | 1313          | 1316        | 1326         | rVV      | 387055         | 361766        | 7.83%           | 2.299%        |
| 12        | 10.257      | 1386          | 1389        | 1392         | rVB      | 94205          | 66818         | 1.45%           | 0.425%        |
| 13        | 10.622      | 1448          | 1451        | 1458         | rBV      | 186478         | 187135        | 4.05%           | 1.189%        |
| 14        | 10.727      | 1466          | 1469        | 1480         | rBV      | 99898          | 121558        | 2.63%           | 0.772%        |
| 15        | 11.175      | 1542          | 1545        | 1548         | rBV      | 87557          | 76287         | 1.65%           | 0.485%        |
| 16        | 11.316      | 1566          | 1569        | 1580         | rBV      | 312750         | 347468        | 7.52%           | 2.208%        |
| 17        | 11.604      | 1615          | 1618        | 1620         | rBV      | 77681          | 67921         | 1.47%           | 0.432%        |
| 18        | 11.704      | 1631          | 1635        | 1638         | rBV      | 1499601        | 1262966       | 27.32%          | 8.025%        |
| 19        | 11.845      | 1654          | 1659        | 1665         | rBV3     | 43753          | 59267         | 1.28%           | 0.377%        |
| 20        | 12.010      | 1683          | 1687        | 1692         | rVB      | 61099          | 61441         | 1.33%           | 0.390%        |
| 21        | 12.398      | 1747          | 1753        | 1754         | rBV      | 2659702        | 2948054       | 63.77%          | 18.732%       |
| 22        | 12.422      | 1754          | 1757        | 1762         | rVB      | 4823923        | 4622756       | 100.00%         | 29.373%       |
| 23        | 12.492      | 1766          | 1769        | 1773         | rVB      | 492026         | 432341        | 9.35%           | 2.747%        |
| 24        | 12.533      | 1773          | 1776        | 1777         | rBV      | 89442          | 72126         | 1.56%           | 0.458%        |
| 25        | 12.727      | 1805          | 1809        | 1812         | rBV2     | 63693          | 65443         | 1.42%           | 0.416%        |
| 26        | 12.763      | 1812          | 1815        | 1822         | rVB2     | 114453         | 135513        | 2.93%           | 0.861%        |
| 27        | 12.898      | 1834          | 1838        | 1842         | rBV      | 332870         | 280970        | 6.08%           | 1.785%        |
| 28        | 13.139      | 1874          | 1879        | 1886         | rVB3     | 113280         | 162024        | 3.50%           | 1.029%        |
| 29        | 13.216      | 1890          | 1892        | 1896         | rVB      | 86262          | 72072         | 1.56%           | 0.458%        |
| 30        | 13.886      | 2003          | 2006        | 2012         | rBV      | 90370          | 91386         | 1.98%           | 0.581%        |
| 31        | 13.963      | 2013          | 2019        | 2022         | rBV2     | 288739         | 344881        | 7.46%           | 2.191%        |
| 32        | 14.110      | 2040          | 2044        | 2051         | rBV5     | 32284          | 53391         | 1.15%           | 0.339%        |
| 33        | 14.410      | 2092          | 2095        | 2099         | rBV4     | 59584          | 78522         | 1.70%           | 0.499%        |
| 34        | 14.504      | 2108          | 2111        | 2114         | rVB      | 52348          | 46558         | 1.01%           | 0.296%        |

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Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

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-BF091319.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 35 | 14.827 | 2161 | 2166 | 2175 | rBV  | 116069 | 189761 | 4.10% | 1.206% |
| 36 | 14.998 | 2191 | 2195 | 2198 | rBV  | 77284  | 108535 | 2.35% | 0.690% |
| 37 | 15.292 | 2242 | 2245 | 2249 | rVB  | 50658  | 61625  | 1.33% | 0.392% |
| 38 | 15.357 | 2252 | 2256 | 2261 | rBV  | 74622  | 105219 | 2.28% | 0.669% |
| 39 | 15.415 | 2261 | 2266 | 2270 | rBV  | 223110 | 317481 | 6.87% | 2.017% |
| 40 | 15.827 | 2332 | 2336 | 2340 | rBV  | 43672  | 59553  | 1.29% | 0.378% |
| 41 | 16.310 | 2414 | 2418 | 2424 | rVB4 | 37606  | 63818  | 1.38% | 0.405% |
| 42 | 16.874 | 2509 | 2514 | 2522 | rVB3 | 50471  | 101995 | 2.21% | 0.648% |
| 43 | 17.315 | 2584 | 2589 | 2599 | rVB2 | 24267  | 61582  | 1.33% | 0.391% |
| 44 | 17.551 | 2623 | 2629 | 2637 | rVB9 | 24873  | 54458  | 1.18% | 0.346% |

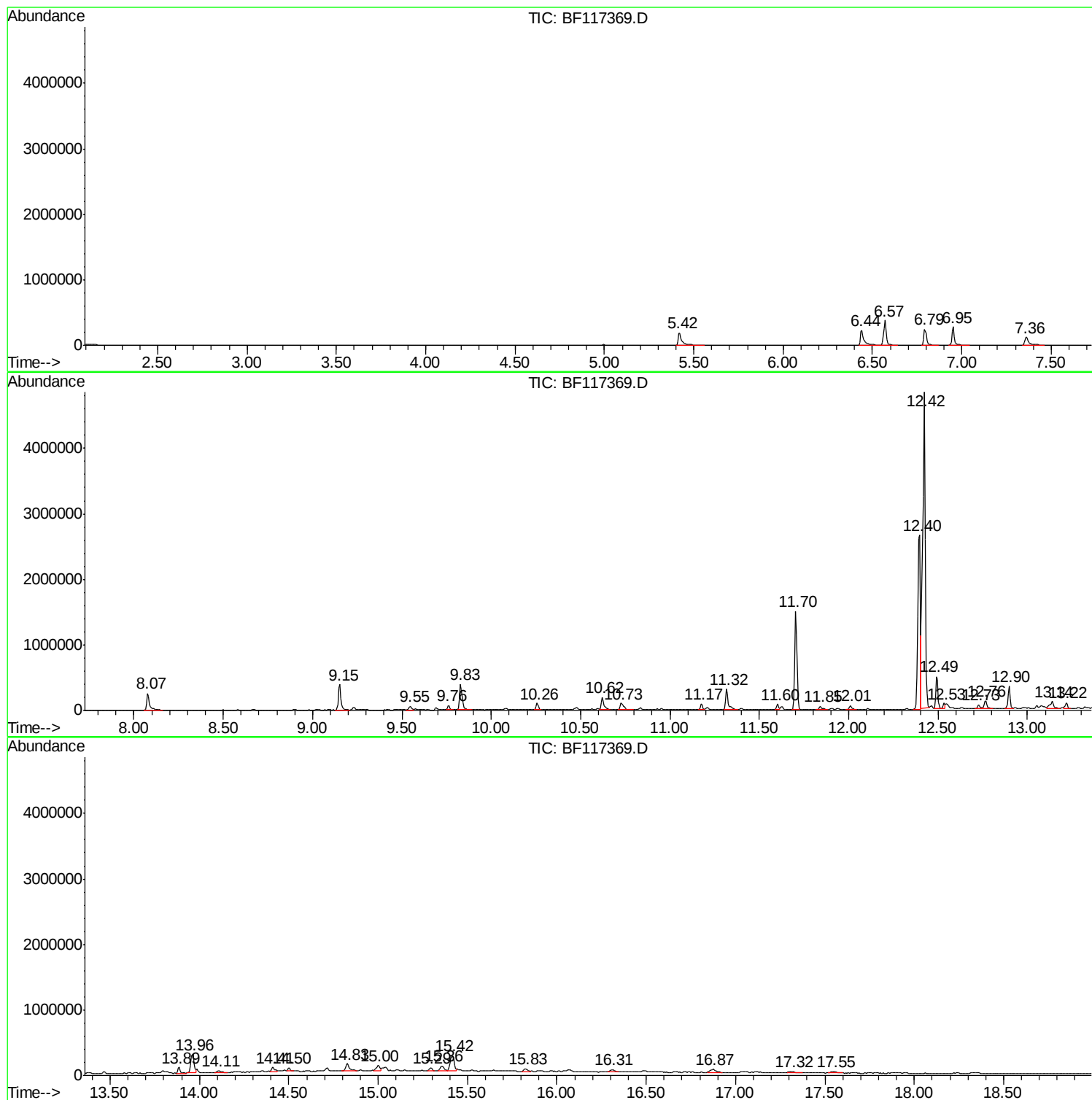
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
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Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

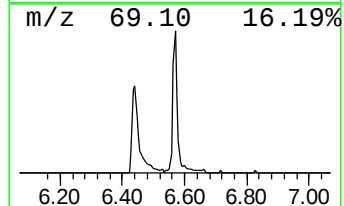
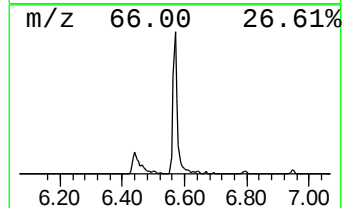
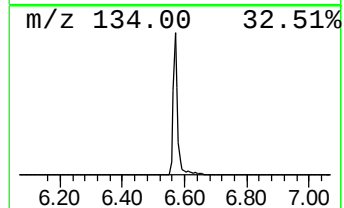
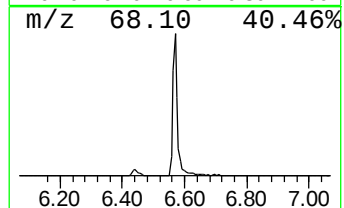
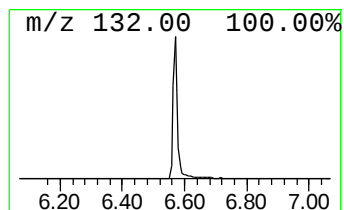
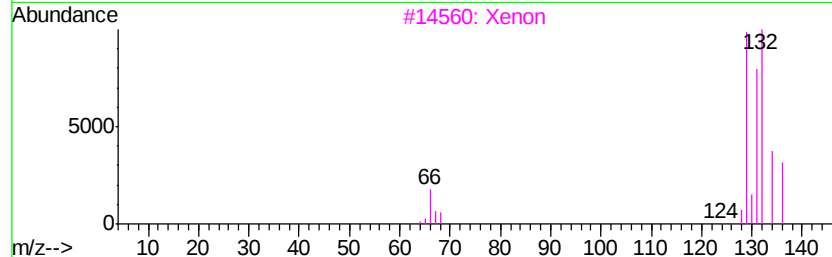
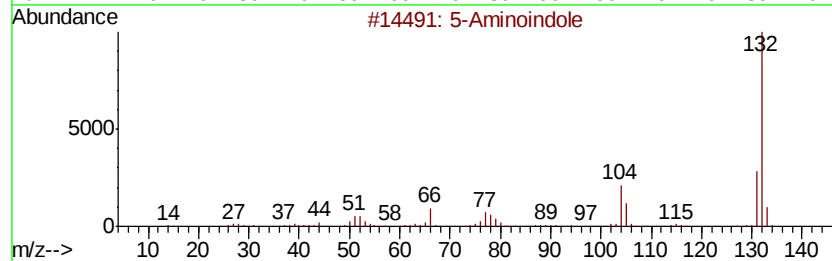
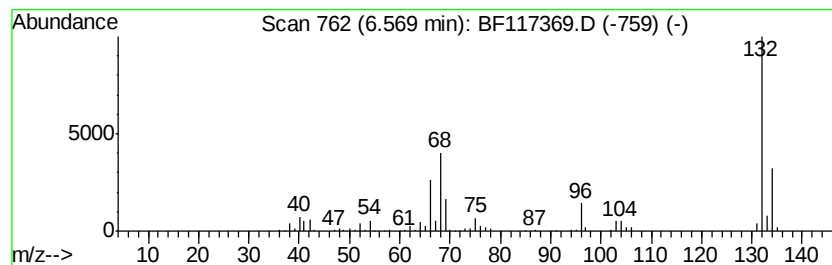
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.57 Concentration Rank 4

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.57 | 30.56 ng | 369797 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 5-Aminoindole                       | 132 | C8H8N2  | 005192-03-0  | 12   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO | 031357-76-3  | 12   |
| 3    |    | Xenon                               | 132 | Xe      | 007440-63-3  | 9    |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12  | 028749-81-7  | 9    |
| 5    |    | (5-Methyl-2-pyridyl)acetonitrile    | 132 | C8H8N2  | 1000241-93-9 | 9    |



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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

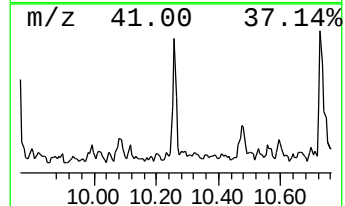
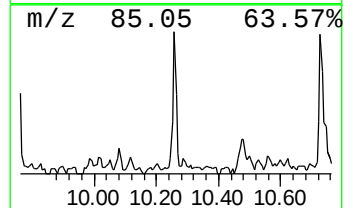
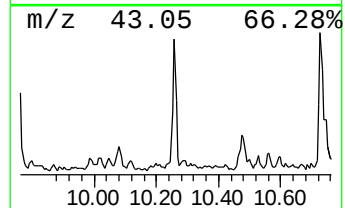
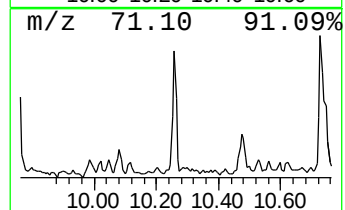
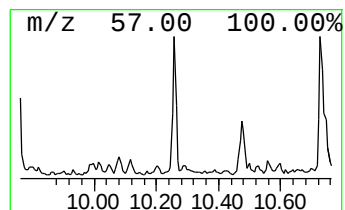
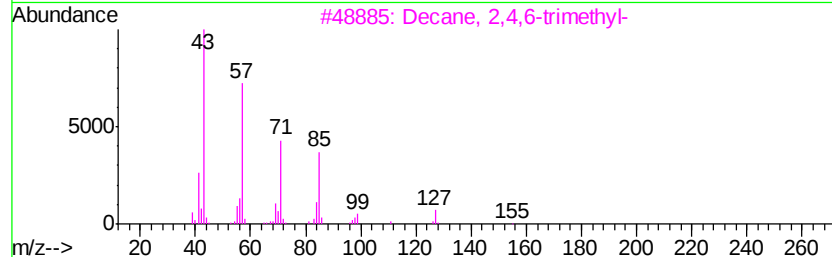
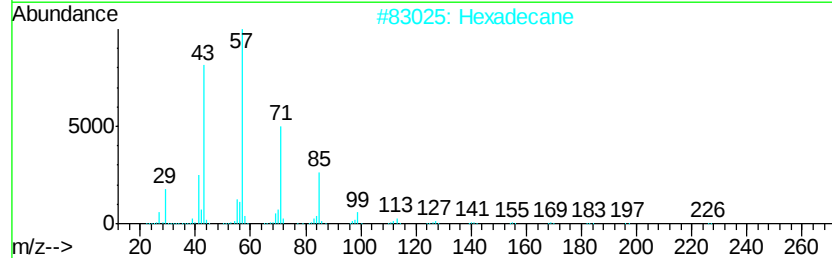
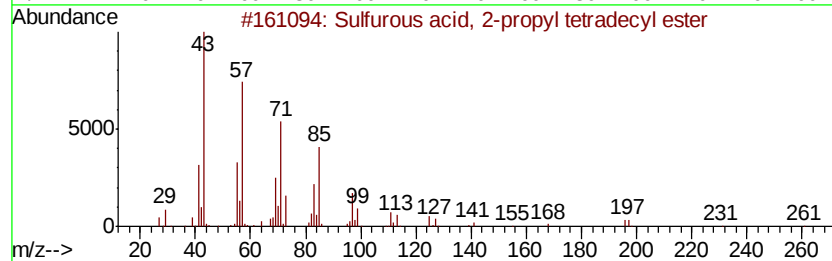
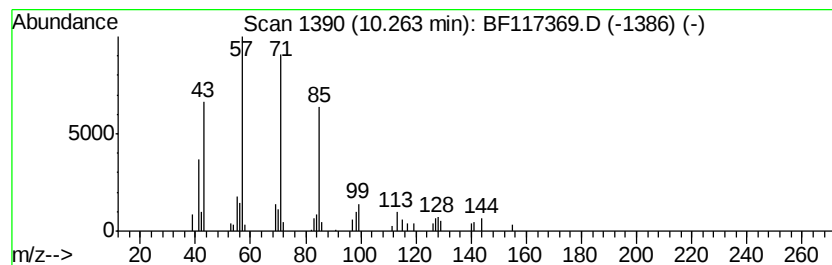
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Sulfurous acid, 2-propyl te... Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD | R.T. |
|-------|---------|-------|------------------|------|
| 10.26 | 3.69 ng | 66818 | Acenaphthene-d10 | 9.83 |

| Hit# | of | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, 2-propyl tetradec... | 320 | C17H36O3S | 1000309-12-5 | 86   |
| 2    |    | Hexadecane                           | 226 | C16H34    | 000544-76-3  | 80   |
| 3    |    | Decane, 2,4,6-trimethyl-             | 184 | C13H28    | 062108-27-4  | 78   |
| 4    |    | Heneicosane                          | 296 | C21H44    | 000629-94-7  | 78   |
| 5    |    | Sulfurous acid, 2-ethylhexyl iso...  | 278 | C14H30O3S | 1000309-19-0 | 72   |



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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
HD-01-100919

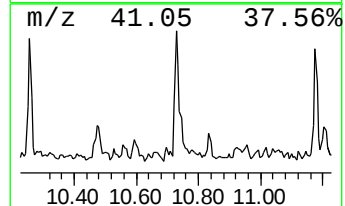
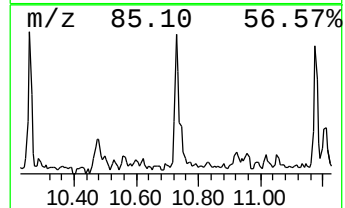
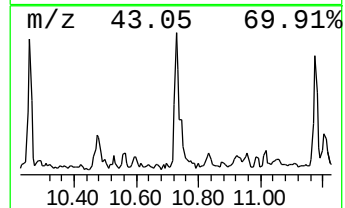
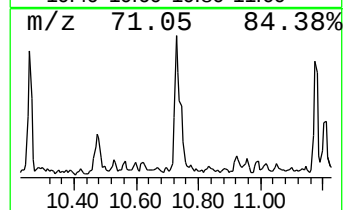
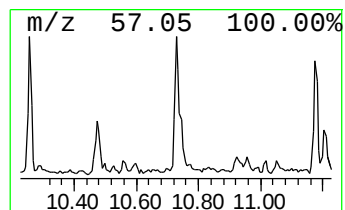
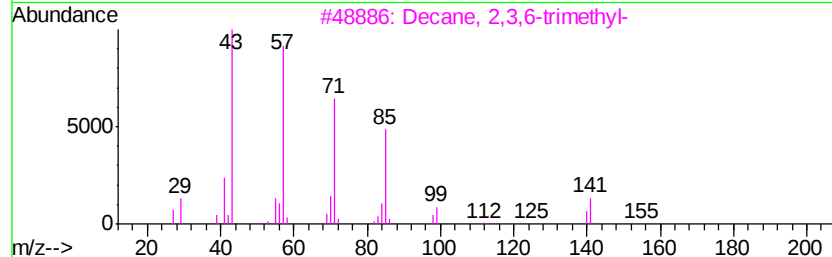
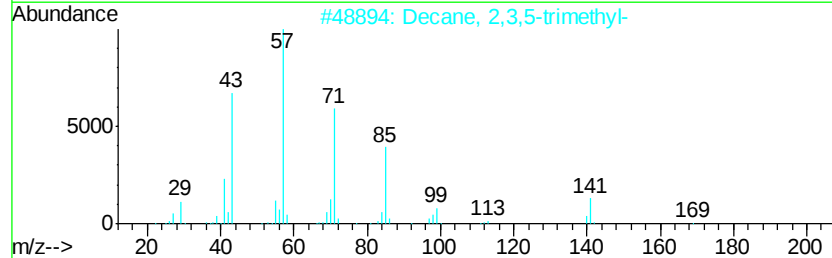
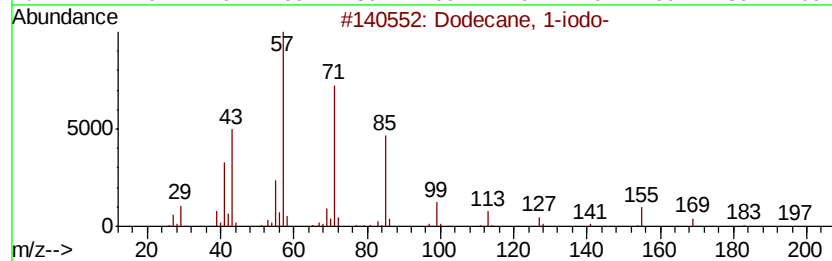
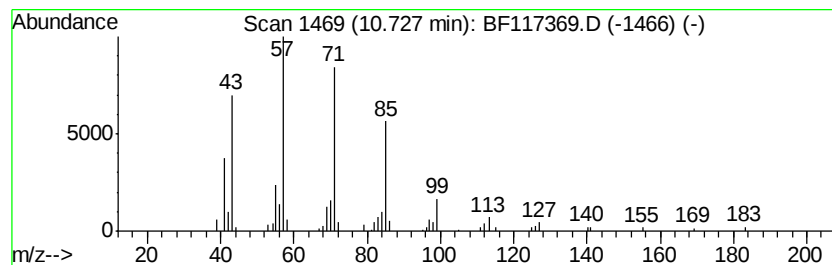
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Dodecane, 1-iodo- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.73 | 7.00 ng | 121558 | Phenanthrene-d10 | 11.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Dodecane, 1-iodo-                   | 296 | C12H25I   | 004292-19-7  | 80   |
| 2    |    | Decane, 2,3,5-trimethyl-            | 184 | C13H28    | 062238-11-3  | 78   |
| 3    |    | Decane, 2,3,6-trimethyl-            | 184 | C13H28    | 062238-12-4  | 78   |
| 4    |    | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 72   |
| 5    |    | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 72   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

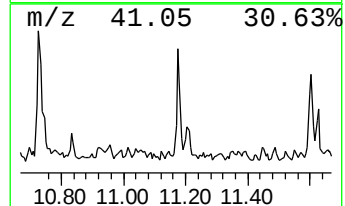
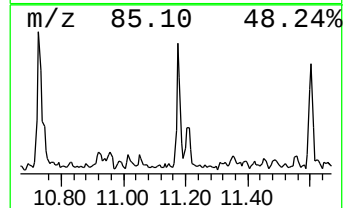
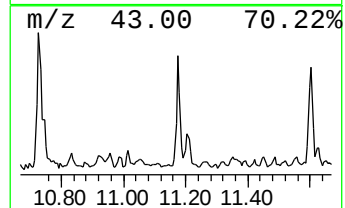
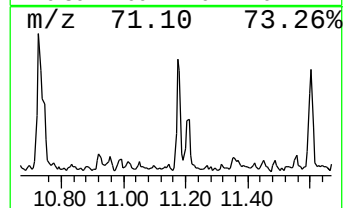
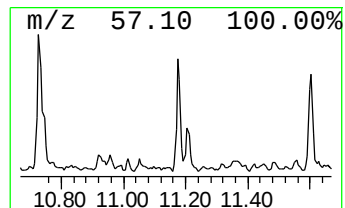
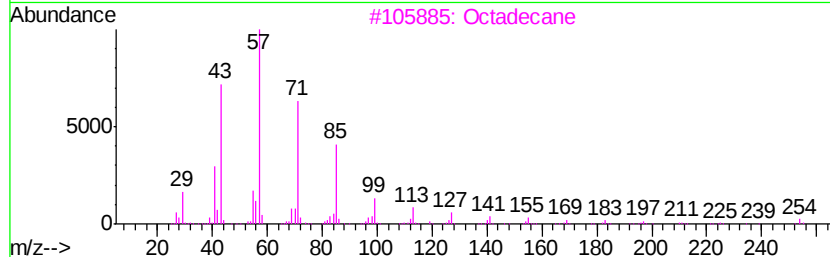
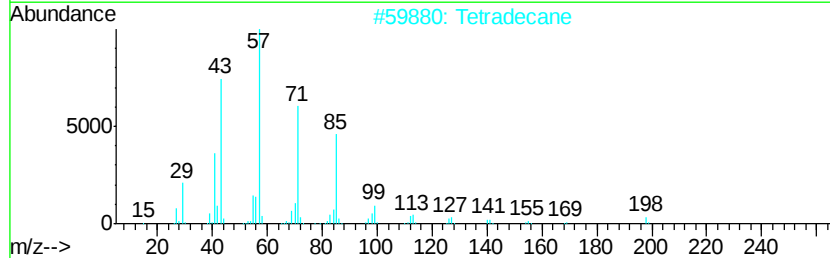
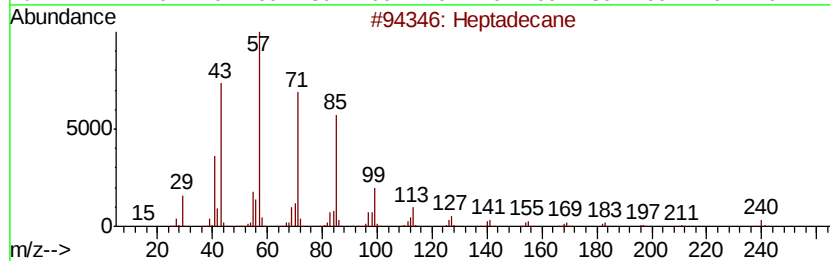
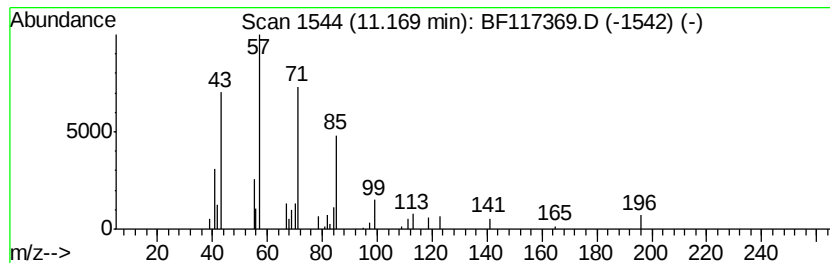
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptadecane Concentration Rank 11

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.17 | 4.39 ng | 76287 | Phenanthrene-d10 | 11.32 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Heptadecane              |              | 240 | C17H36  | 000629-78-7 | 91   |
| 2       | Tetradecane              |              | 198 | C14H30  | 000629-59-4 | 90   |
| 3       | Octadecane               |              | 254 | C18H38  | 000593-45-3 | 90   |
| 4       | Decane, 2,3,6-trimethyl- |              | 184 | C13H28  | 062238-12-4 | 86   |
| 5       | Hexacosane               |              | 366 | C26H54  | 000630-01-3 | 86   |



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Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

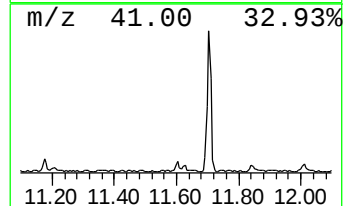
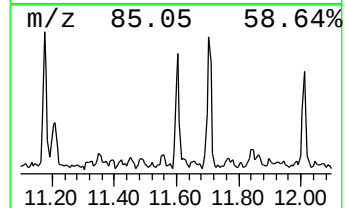
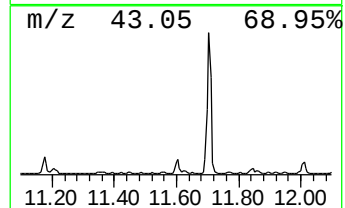
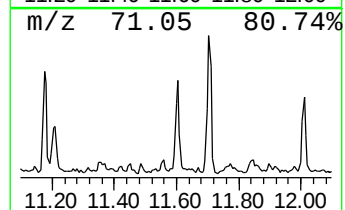
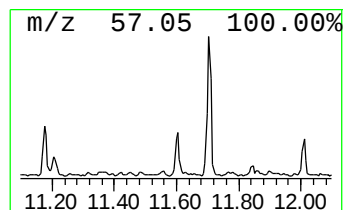
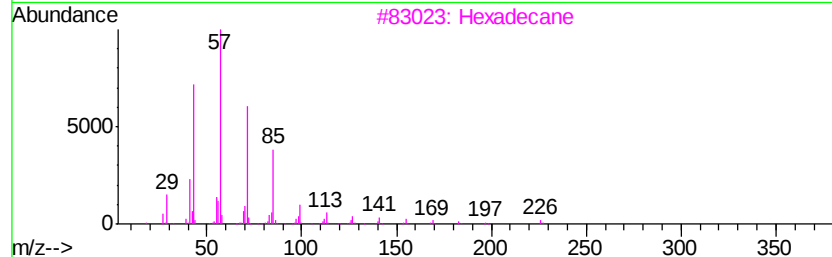
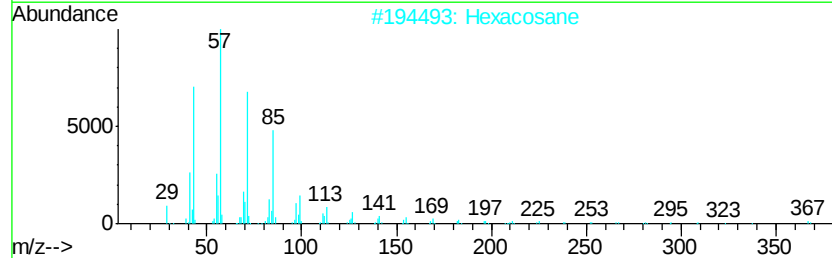
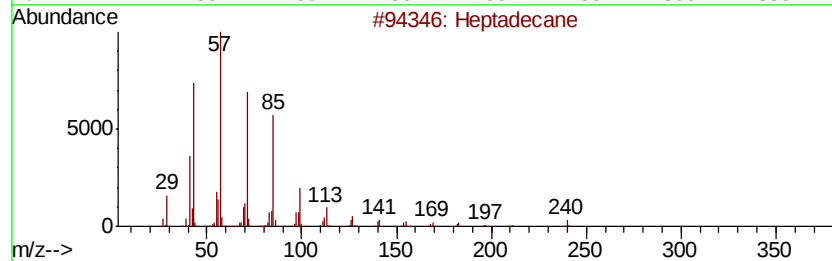
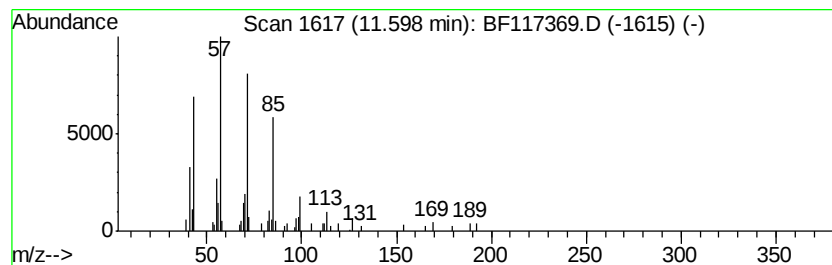
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Hexacosane Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.60 | 3.91 ng | 67921 | Phenanthrene-d10 | 11.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Heptadecane                         | 240 | C17H36    | 000629-78-7  | 91   |
| 2    |    | Hexacosane                          | 366 | C26H54    | 000630-01-3  | 90   |
| 3    |    | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 80   |
| 4    |    | Sulfurous acid, butyl dodecyl ester | 306 | C16H34O3S | 1000309-17-9 | 78   |
| 5    |    | 1-Iodo-2-methylundecane             | 296 | C12H25I   | 073105-67-6  | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

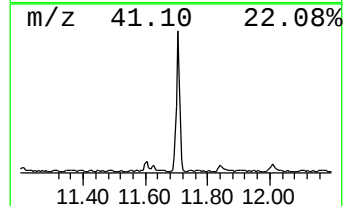
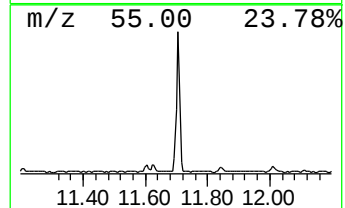
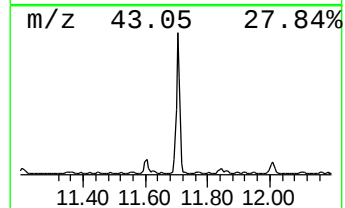
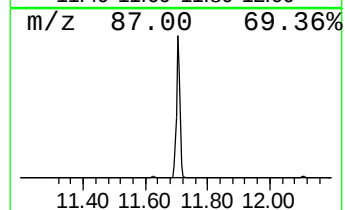
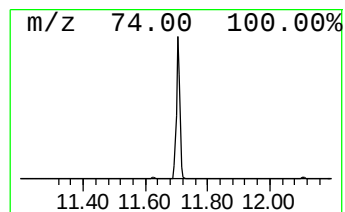
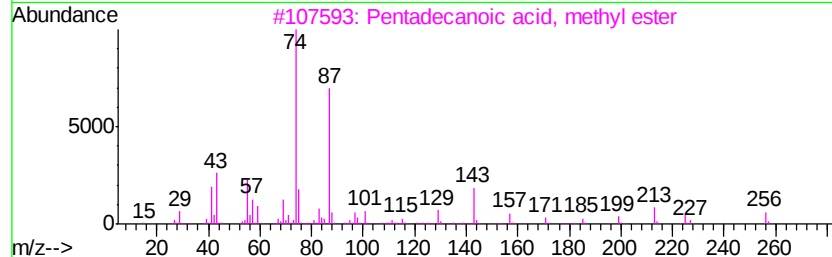
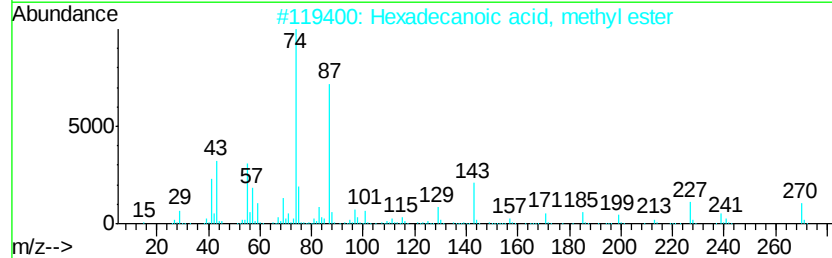
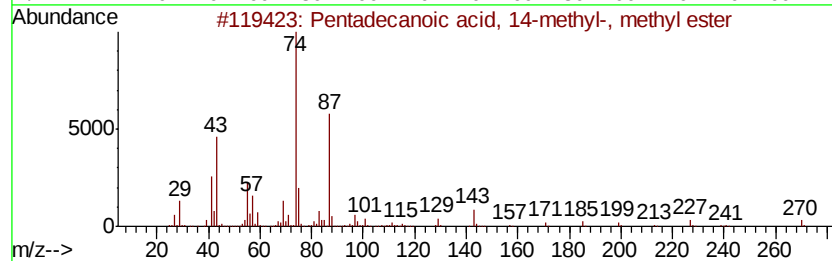
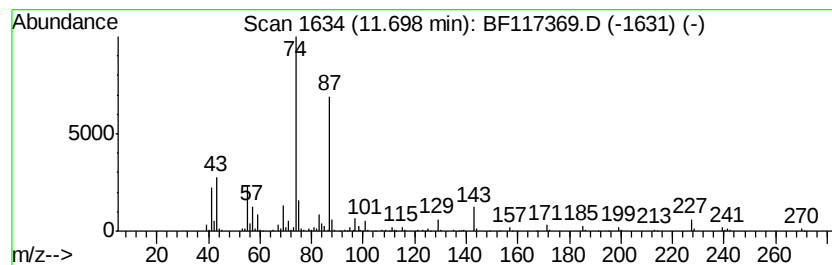
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Pentadecanoic acid, 14-meth... Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.70 | 72.70 ng | 1262970 | Phenanthrene-d10 | 11.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 97   |
| 2    |    | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 97   |
| 3    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 90   |
| 4    |    | Dodecanoic acid, methyl ester       | 214 | C13H26O2 | 000111-82-0 | 87   |
| 5    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

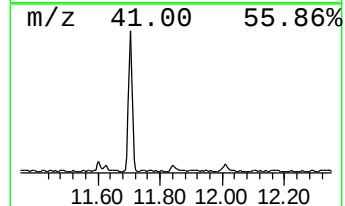
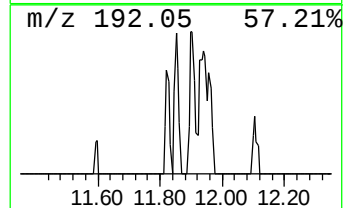
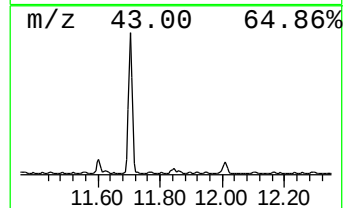
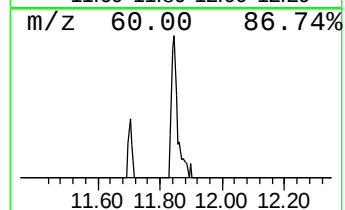
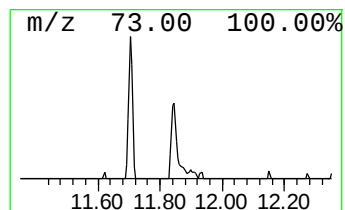
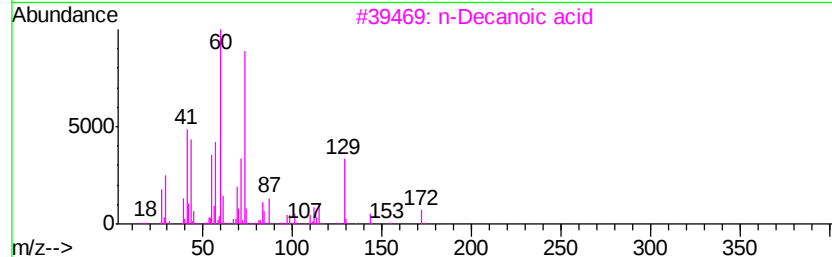
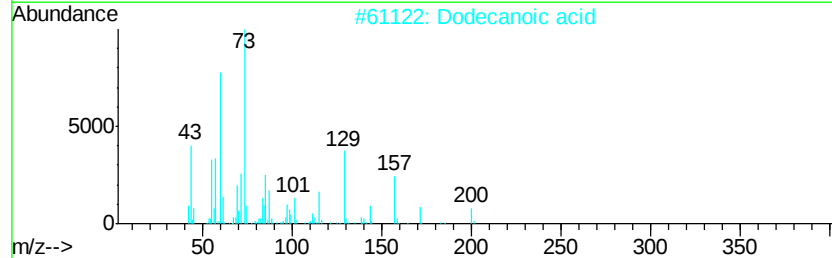
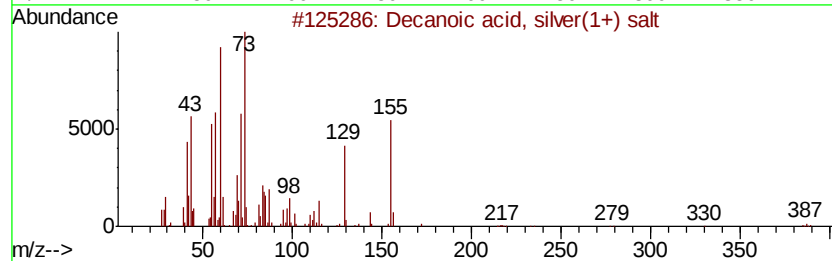
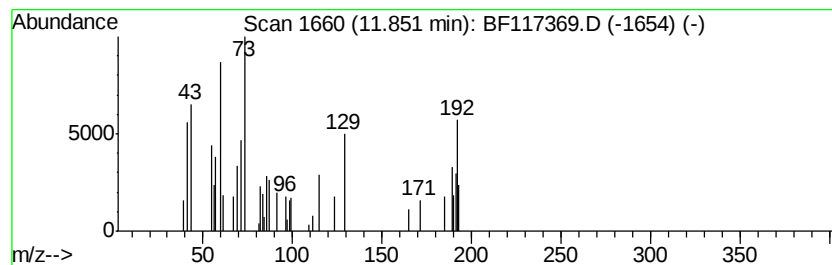
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Decanoic acid, silver(1+) salt Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.85 | 3.41 ng | 59267 | Phenanthrene-d10 | 11.32 |

| Hit# | of | Tentative ID                   | MW  | MolForm     | CAS#         | Qual |
|------|----|--------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2  | 013126-67-5  | 52   |
| 2    |    | Dodecanoic acid                | 200 | C12H24O2    | 000143-07-7  | 52   |
| 3    |    | n-Decanoic acid                | 172 | C10H20O2    | 000334-48-5  | 47   |
| 4    |    | Lactose                        | 342 | C12H22O11   | 000063-42-3  | 43   |
| 5    |    | 1-Octadecanesulphonyl chloride | 352 | C18H37ClO2S | 1000342-70-4 | 11   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleID :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

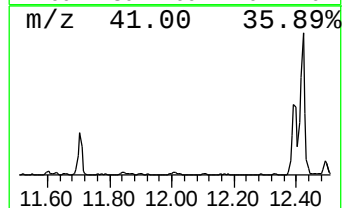
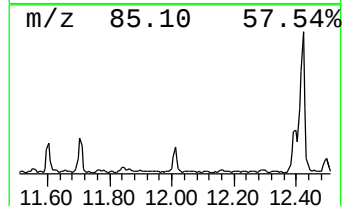
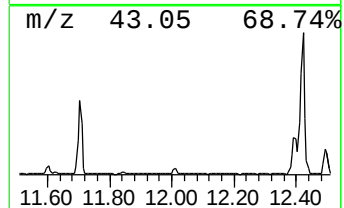
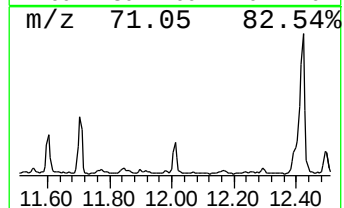
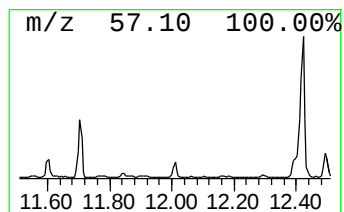
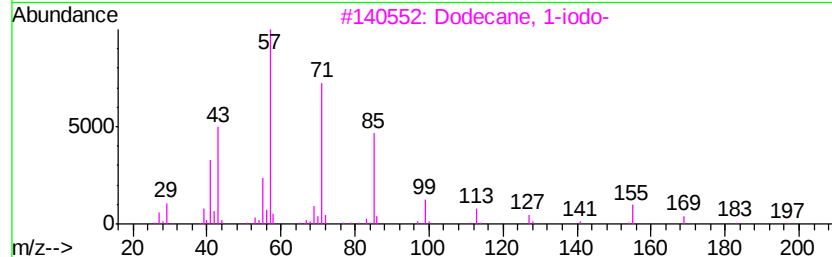
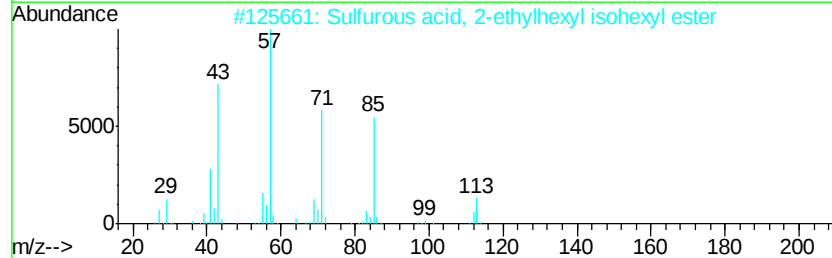
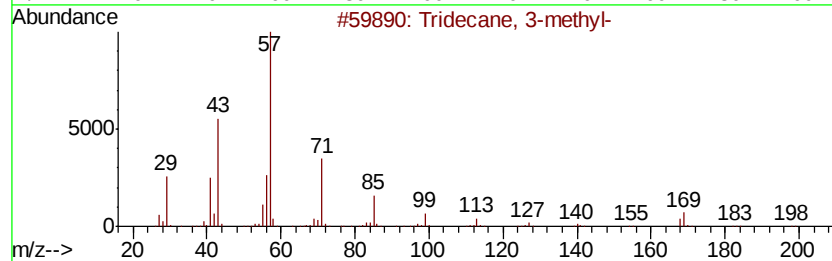
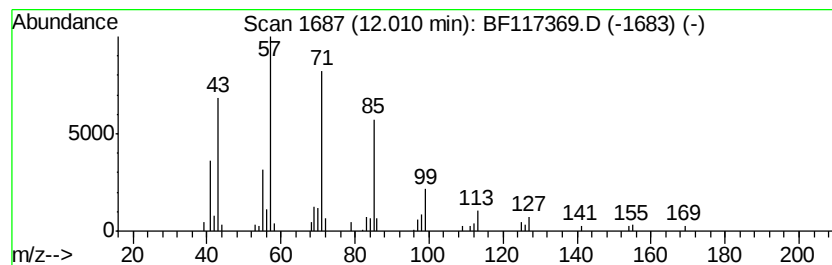
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Tridecane, 3-methyl- Concentration Rank 18

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.01 | 3.54 ng | 61441 | Phenanthrene-d10 | 11.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Tridecane, 3-methyl-                | 198 | C14H30    | 006418-41-3  | 80   |
| 2    |    | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 72   |
| 3    |    | Dodecane, 1-iodo-                   | 296 | C12H25I   | 004292-19-7  | 72   |
| 4    |    | Heptacosane                         | 380 | C27H56    | 000593-49-7  | 64   |
| 5    |    | Heptadecane                         | 240 | C17H36    | 000629-78-7  | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

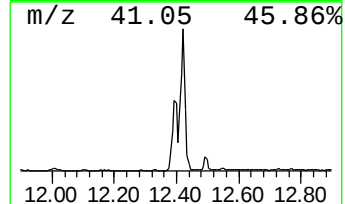
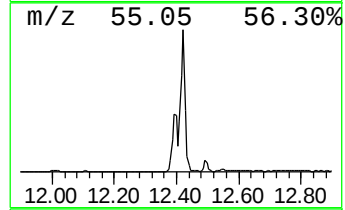
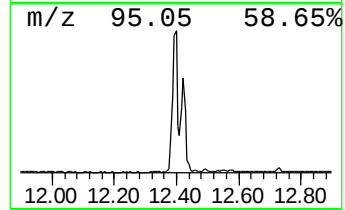
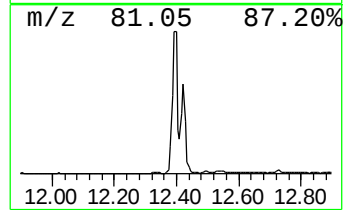
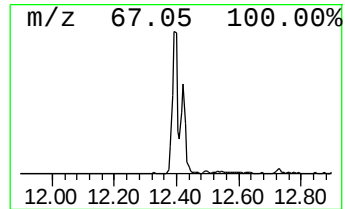
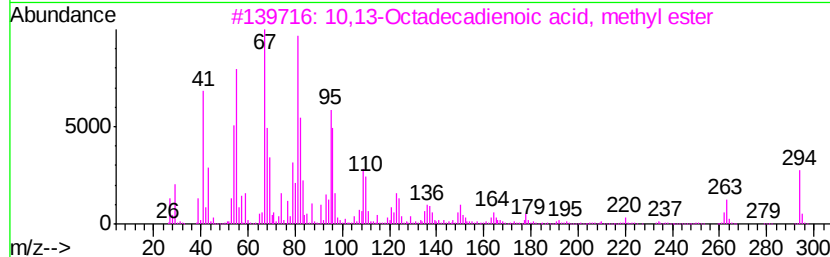
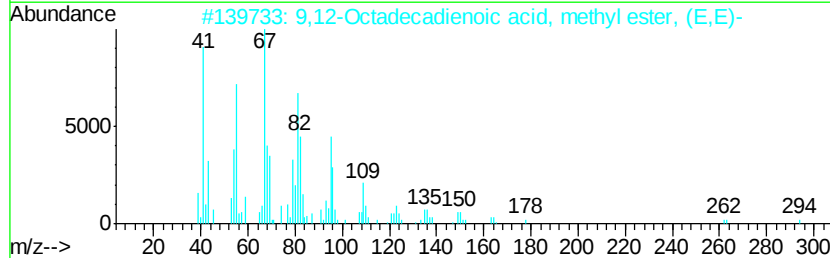
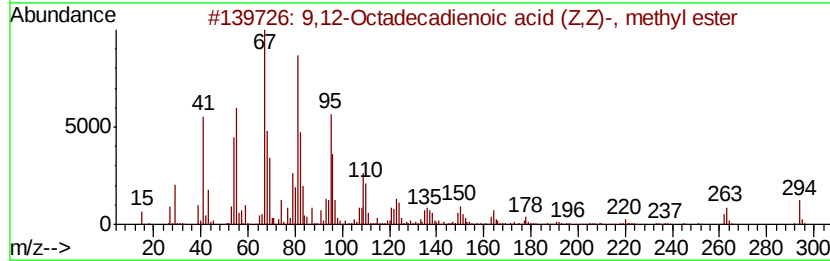
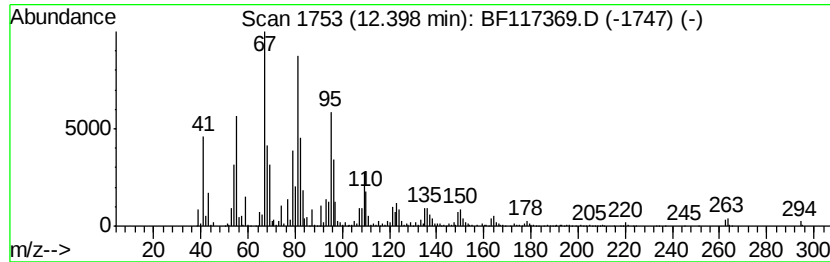
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 9,12-Octadecadienoic acid (... Concentration Rank 2

| R.T.    | EstConc                             | Area         | Relative to ISTD |             | R.T.  |      |
|---------|-------------------------------------|--------------|------------------|-------------|-------|------|
| 12.40   | 169.69 ng                           | 2948050      | Phenanthrene-d10 |             | 11.32 |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS#  | Qual |
| 1       | 9,12-Octadecadienoic acid (Z,Z)-... | 294          | C19H34O2         | 000112-63-0 | 99    |      |
| 2       | 9,12-Octadecadienoic acid, methy... | 294          | C19H34O2         | 002566-97-4 | 99    |      |
| 3       | 10,13-Octadecadienoic acid, meth... | 294          | C19H34O2         | 056554-62-2 | 98    |      |
| 4       | 11,14-Octadecadienoic acid, meth... | 294          | C19H34O2         | 056554-61-1 | 98    |      |
| 5       | 9,12-Octadecadienoic acid (Z,Z)-    | 280          | C18H32O2         | 000060-33-3 | 94    |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

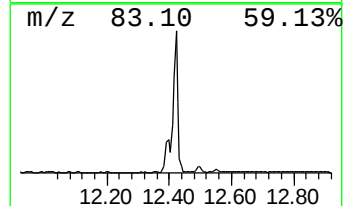
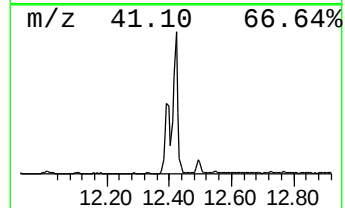
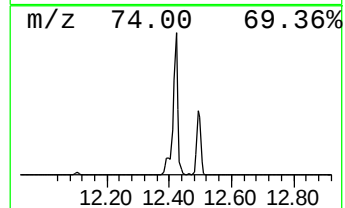
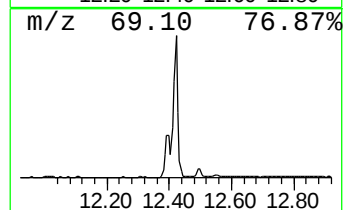
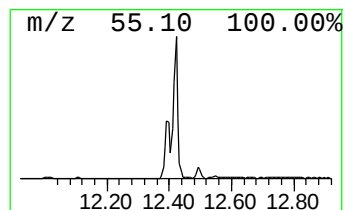
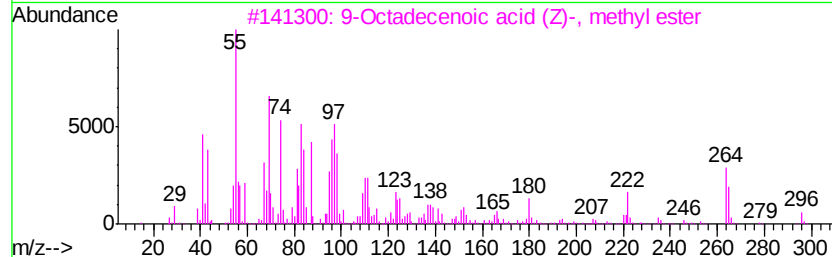
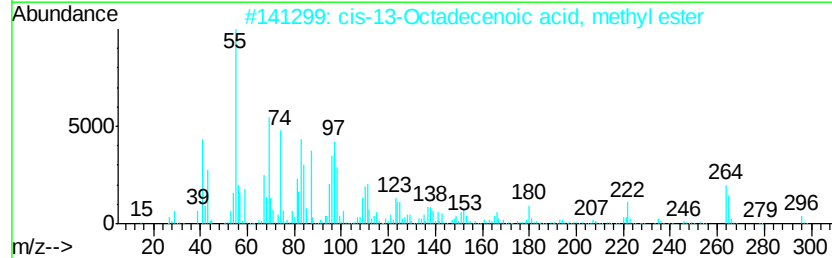
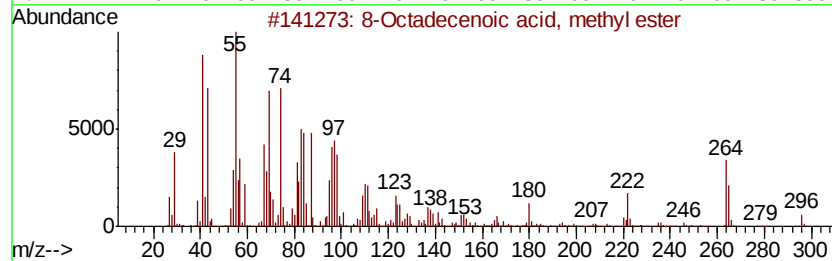
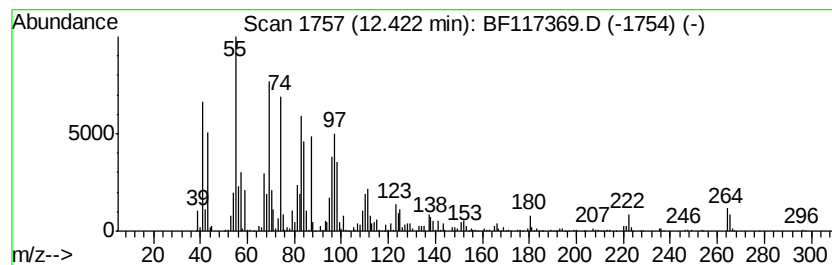
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 8-Octadecenoic acid, methyl... Concentration Rank 1

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 12.42 | 266.08 ng | 4622760 | Phenanthrene-d10 | 11.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 8-Octadecenoic acid, methyl ester   | 296 | C19H36O2 | 002345-29-1  | 99   |
| 2    |    | cis-13-Octadecenoic acid, methyl... | 296 | C19H36O2 | 1000333-58-3 | 95   |
| 3    |    | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9  | 95   |
| 4    |    | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8  | 91   |
| 5    |    | 7-Octadecenoic acid, methyl ester   | 296 | C19H36O2 | 057396-98-2  | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

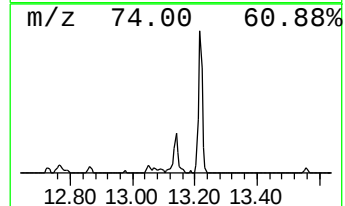
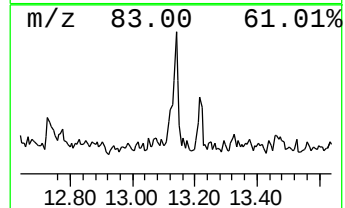
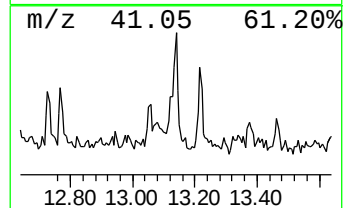
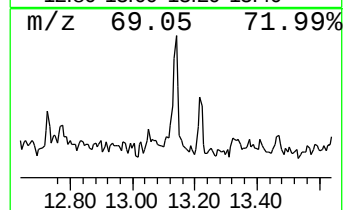
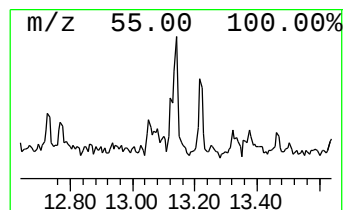
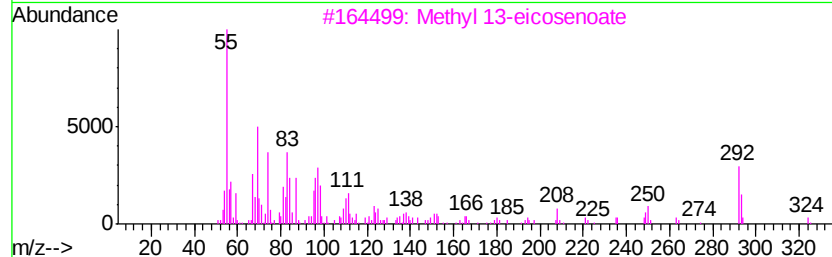
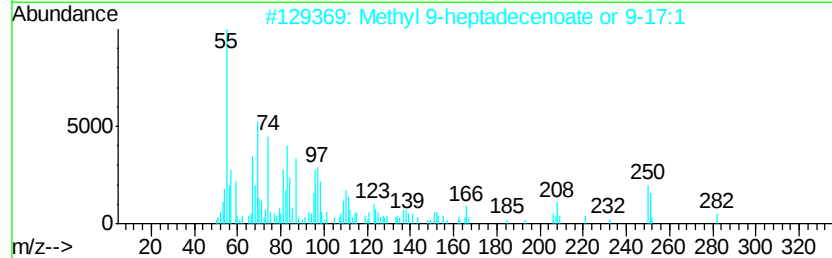
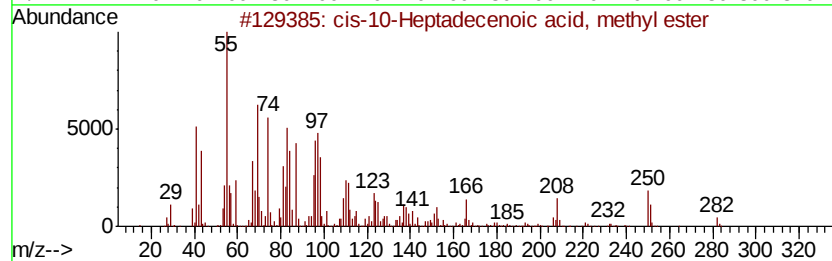
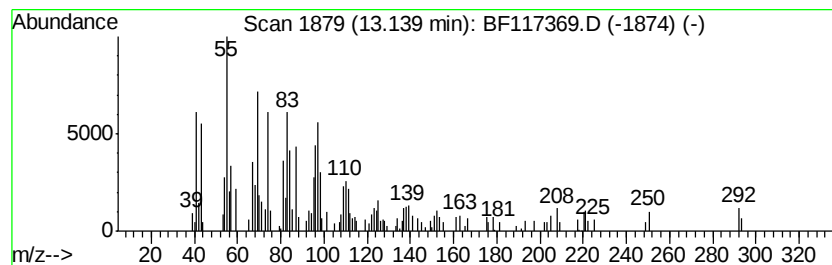
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 cis-10-Heptadecenoic acid, ... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.14 | 9.40 ng | 162024 | Chrysene-d12     | 13.96 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | cis-10-Heptadecenoic acid, methy... | 282 | C18H34O2 | 1000333-62-1 | 91   |
| 2    |    |   | Methyl 9-heptadecenoate or 9-17:1   | 282 | C18H34O2 | 1000336-38-0 | 90   |
| 3    |    |   | Methyl 13-eicosenoate               | 324 | C21H40O2 | 1000336-48-4 | 83   |
| 4    |    |   | Cyclopropaneoctanoic acid, 2-hex... | 282 | C18H34O2 | 010152-61-1  | 76   |
| 5    |    |   | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9  | 70   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

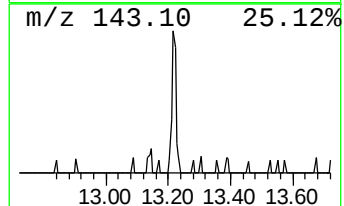
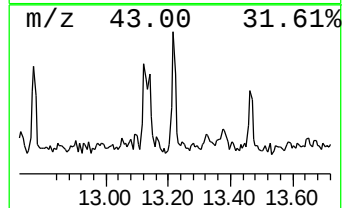
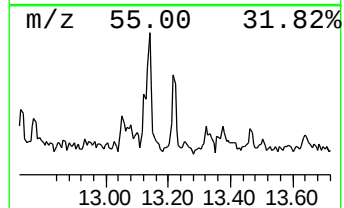
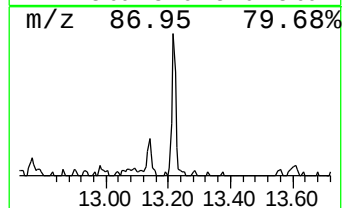
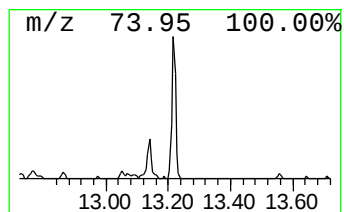
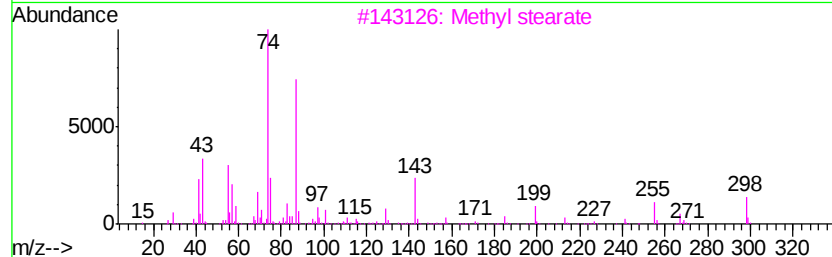
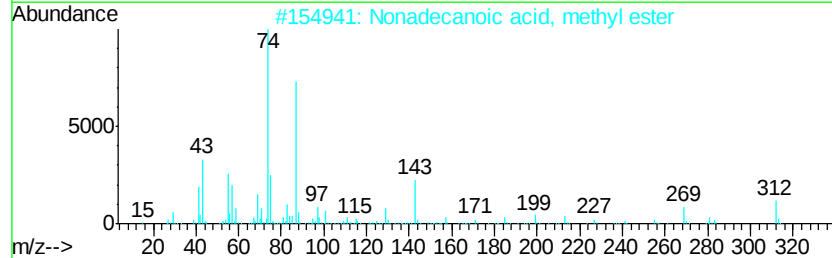
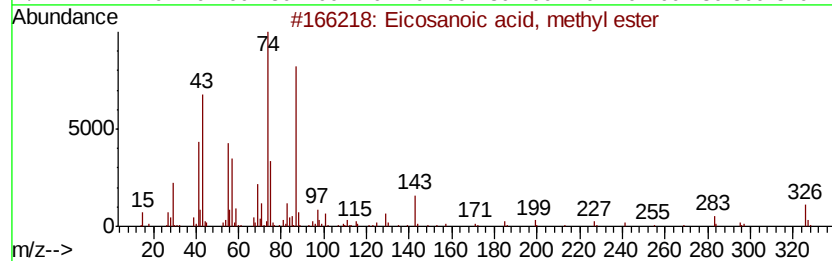
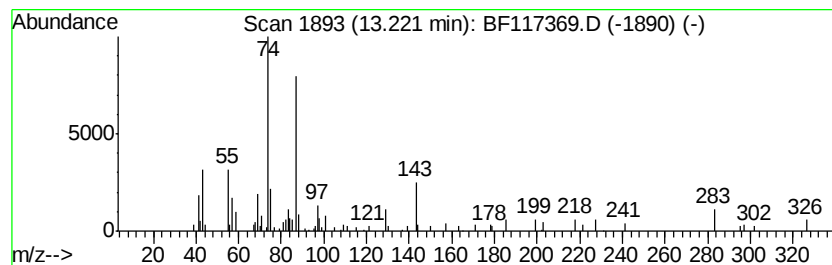
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Eicosanoic acid, methyl ester Concentration Rank 12

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.22 | 4.18 ng | 72072 | Chrysene-d12     | 13.96 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Eicosanoic acid, methyl ester       | 326 | C21H42O2 | 001120-28-1 | 93   |
| 2    |    |   | Nonadecanoic acid, methyl ester     | 312 | C20H40O2 | 001731-94-8 | 87   |
| 3    |    |   | Methyl stearate                     | 298 | C19H38O2 | 000112-61-8 | 87   |
| 4    |    |   | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 86   |
| 5    |    |   | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

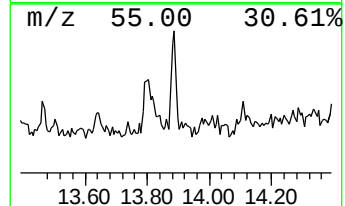
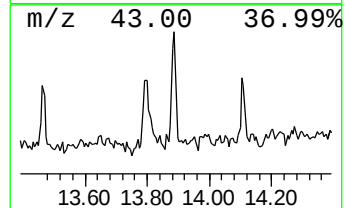
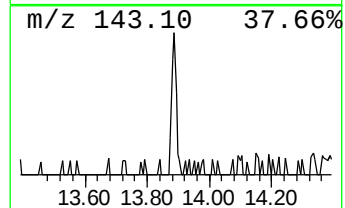
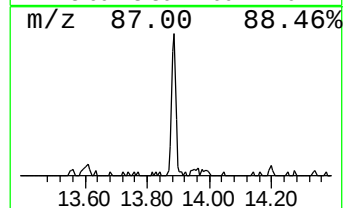
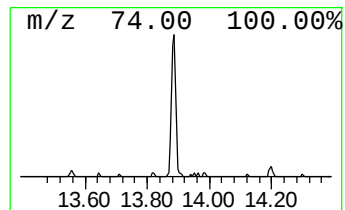
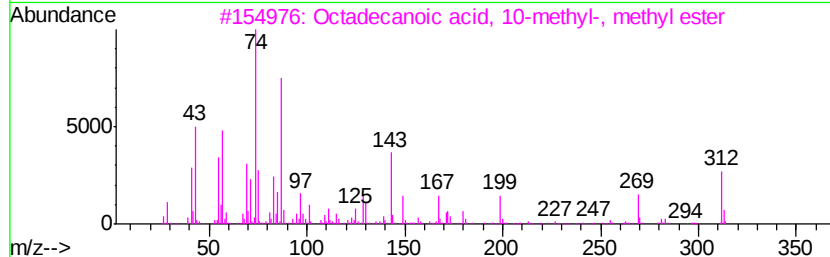
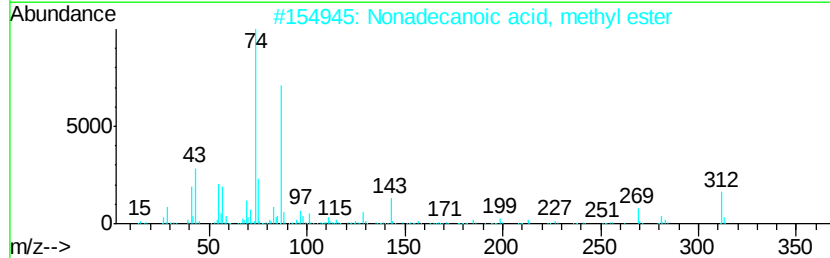
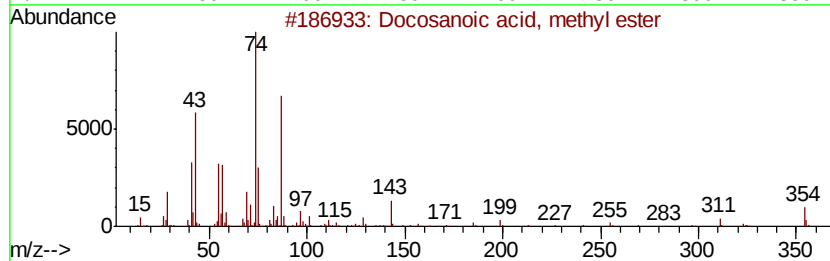
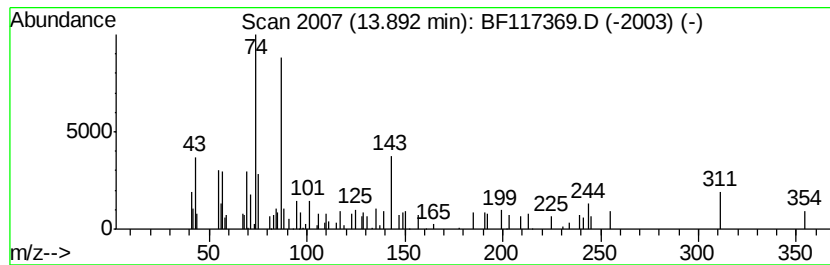
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Docosanoic acid, methyl ester Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.89 | 5.30 ng | 91386 | Chrysene-d12     | 13.96 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Docosanoic acid, methyl ester       | 354 | C23H46O2 | 000929-77-1 | 96   |
| 2    |    | Nonadecanoic acid, methyl ester     | 312 | C20H40O2 | 001731-94-8 | 90   |
| 3    |    | Octadecanoic acid, 10-methyl-, m... | 312 | C20H40O2 | 002490-19-9 | 90   |
| 4    |    | Methyl stearate                     | 298 | C19H38O2 | 000112-61-8 | 87   |
| 5    |    | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

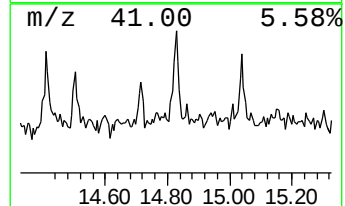
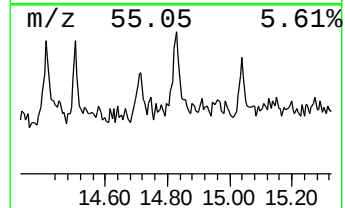
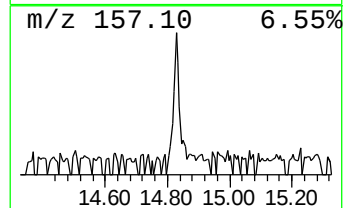
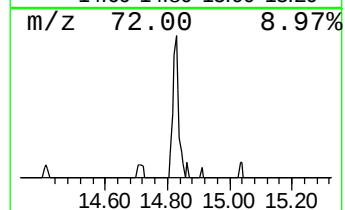
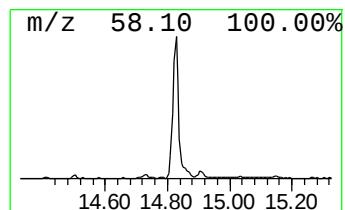
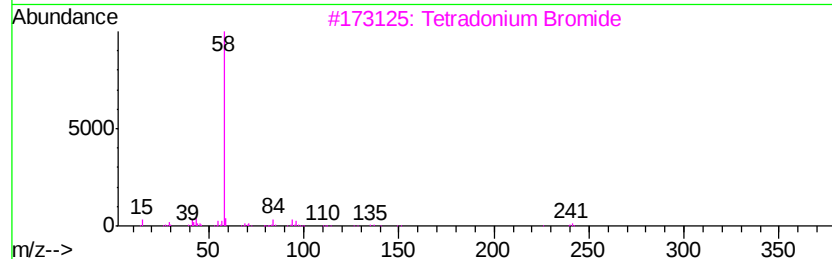
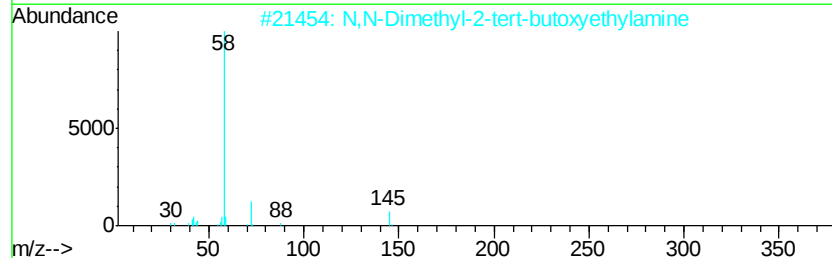
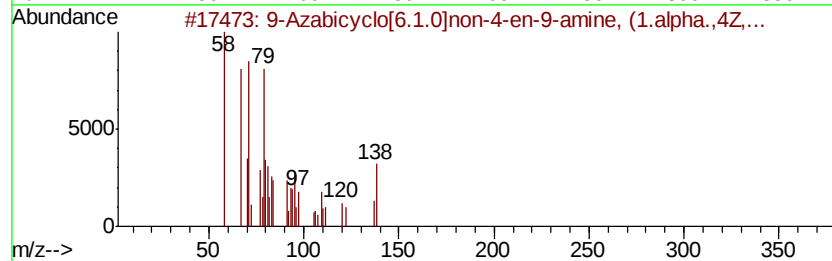
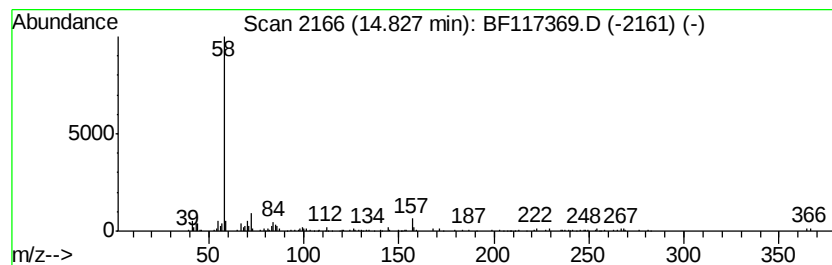
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 9-Azabicyclo[6.1.0]non-4-en... Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.83 | 11.95 ng | 189761 | Perylene-d12     | 15.42 |

| Hit# | of | Tentative ID                         | MW  | MolForm    | CAS#        | Qual |
|------|----|--------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 9-Azabicyclo[6.1.0]non-4-en-9-am...  | 138 | C8H14N2    | 066387-78-8 | 76   |
| 2    |    | N,N-Dimethyl-2-tert-butoxyethyla...  | 145 | C8H19NO    | 071126-61-9 | 64   |
| 3    |    | Tetradonium Bromide                  | 335 | C17H38BrN  | 001119-97-7 | 64   |
| 4    |    | N,N-Dimethyl-2-cyclohexyloxyethyl... | 171 | C10H21NO   | 071126-60-8 | 64   |
| 5    |    | 3(N,N-Dimethylmyristylammonio)pr...  | 363 | C19H41NO3S | 014933-09-6 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

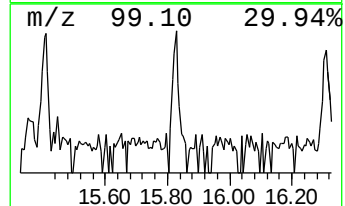
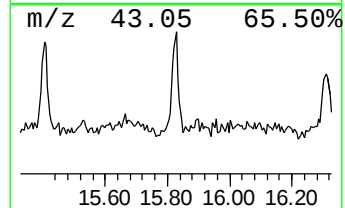
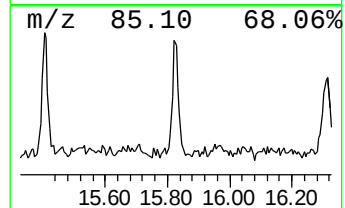
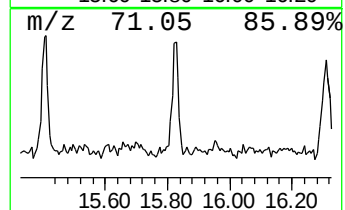
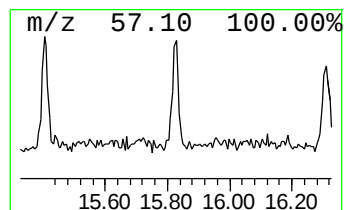
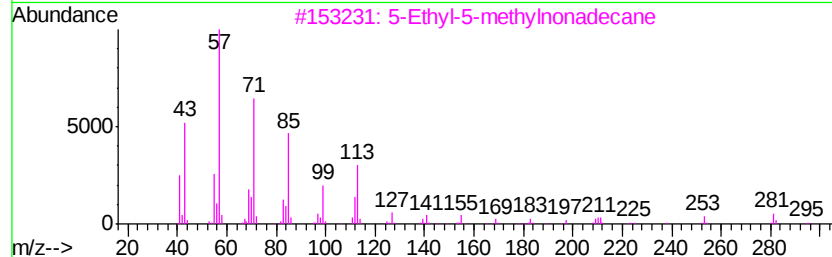
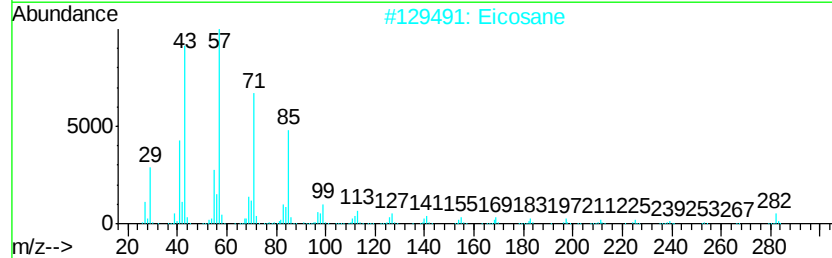
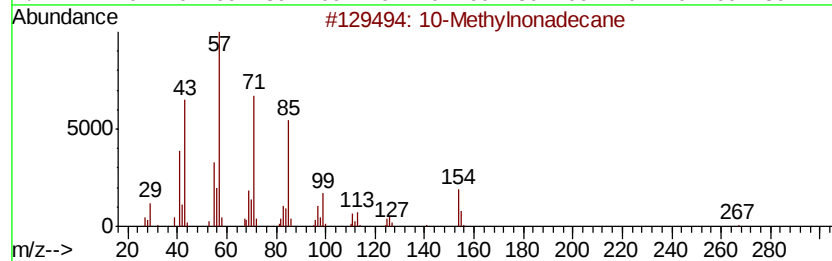
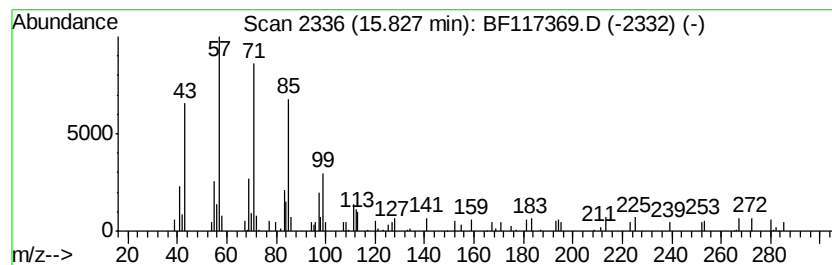
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 18 10-Methylnonadecane Concentration Rank 16

| R.T.      | EstConc                      | Area  | Relative to ISTD |              | R.T.  |
|-----------|------------------------------|-------|------------------|--------------|-------|
| 15.83     | 3.75 ng                      | 59553 | Perylene-d12     |              | 15.42 |
| Hit# of 5 | Tentative ID                 | MW    | MolForm          | CAS#         | Qual  |
| 1         | 10-Methylnonadecane          | 282   | C20H42           | 056862-62-5  | 64    |
| 2         | Eicosane                     | 282   | C20H42           | 000112-95-8  | 64    |
| 3         | 5-Ethyl-5-methylnonadecane   | 310   | C22H46           | 1000360-42-7 | 53    |
| 4         | Dodecane, 2-methyl-6-propyl- | 226   | C16H34           | 055045-08-4  | 53    |
| 5         | Eicosane, 10-methyl-         | 296   | C21H44           | 054833-23-7  | 53    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\  
Data File : BF117369.D  
Acq On : 10 Oct 2019 19:22  
Operator : JU  
Sample : K5145-01 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

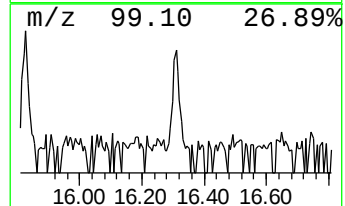
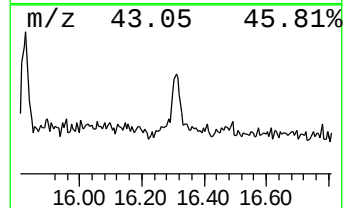
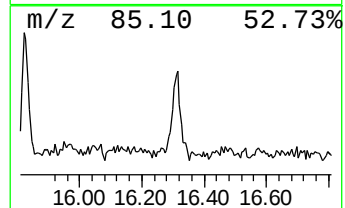
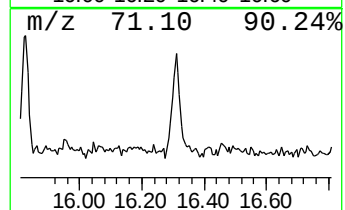
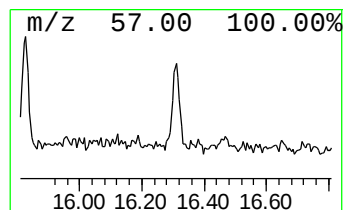
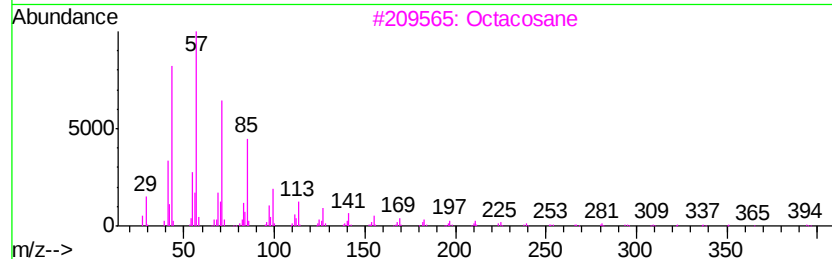
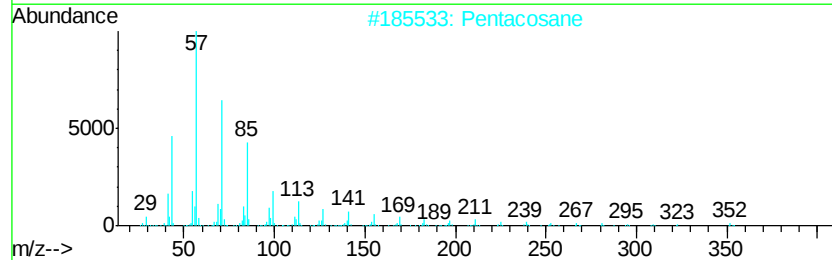
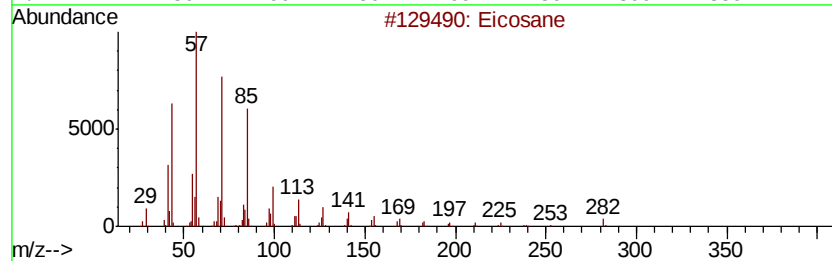
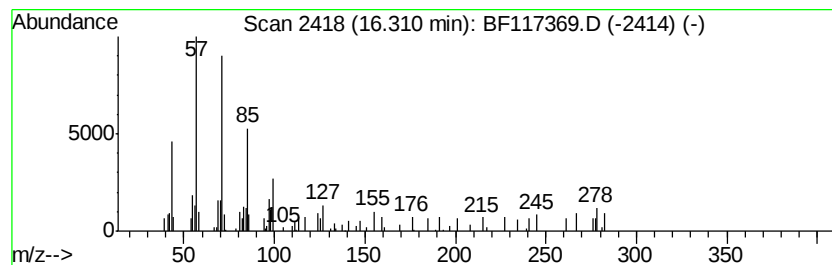
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Eicosane Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.31 | 4.02 ng | 63818 | Perylene-d12     | 15.42 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Eicosane     | 282 | C20H42  | 000112-95-8 | 64   |
| 2    |    |   | Pentacosane  | 352 | C25H52  | 000629-99-2 | 64   |
| 3    |    |   | Octacosane   | 394 | C28H58  | 000630-02-4 | 59   |
| 4    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 59   |
| 5    |    |   | Hexacosane   | 366 | C26H54  | 000630-01-3 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF101019\  
 Data File : BF117369.D  
 Acq On : 10 Oct 2019 19:22  
 Operator : JU  
 Sample : K5145-01 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-100919

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF091319.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 |
| unknown6.57          | 6.57  | 30.6    | ng    | 369797   | 1                     | 6.79  | 242017 | 20.0 |
| Sulfurous acid, 2... | 10.26 | 3.7     | ng    | 66818    | 3                     | 9.83  | 361766 | 20.0 |
| Dodecane, 1-iodo-    | 10.73 | 7.0     | ng    | 121558   | 4                     | 11.32 | 347468 | 20.0 |
| Heptadecane          | 11.17 | 4.4     | ng    | 76287    | 4                     | 11.32 | 347468 | 20.0 |
| Hexacosane           | 11.60 | 3.9     | ng    | 67921    | 4                     | 11.32 | 347468 | 20.0 |
| Pentadecanoic aci... | 11.70 | 72.7    | ng    | 1262970  | 4                     | 11.32 | 347468 | 20.0 |
| Decanoic acid, si... | 11.85 | 3.4     | ng    | 59267    | 4                     | 11.32 | 347468 | 20.0 |
| Tridecane, 3-methyl- | 12.01 | 3.5     | ng    | 61441    | 4                     | 11.32 | 347468 | 20.0 |
| 9,12-Octadecadien... | 12.40 | 169.7   | ng    | 2948050  | 4                     | 11.32 | 347468 | 20.0 |
| 8-Octadecenoic ac... | 12.42 | 266.1   | ng    | 4622760  | 4                     | 11.32 | 347468 | 20.0 |
| cis-10-Heptadecen... | 13.14 | 9.4     | ng    | 162024   | 5                     | 13.96 | 344881 | 20.0 |
| Eicosanoic acid, ... | 13.22 | 4.2     | ng    | 72072    | 5                     | 13.96 | 344881 | 20.0 |
| Docosanoic acid, ... | 13.89 | 5.3     | ng    | 91386    | 5                     | 13.96 | 344881 | 20.0 |
| 9-Azabicyclo[6.1...  | 14.83 | 11.9    | ng    | 189761   | 6                     | 15.42 | 317481 | 20.0 |
| 10-Methylnonadecane  | 15.83 | 3.8     | ng    | 59553    | 6                     | 15.42 | 317481 | 20.0 |
| Eicosane             | 16.31 | 4.0     | ng    | 63818    | 6                     | 15.42 | 317481 | 20.0 |