

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
 Data File : BF077070.D  
 Acq On : 27 Jan 2015 3:05  
 Operator : TP/IZ  
 Sample : G1158-06  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CC-6

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:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.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         | 1.407       | 26            | 28          | 35           | rVB      | 27649          | 55588         | 4.22%           | 0.676%        |
| 2         | 2.618       | 130           | 134         | 145          | rBV      | 452164         | 925462        | 70.24%          | 11.258%       |
| 3         | 3.876       | 236           | 244         | 247          | rBV      | 471910         | 1317518       | 100.00%         | 16.027%       |
| 4         | 7.179       | 531           | 533         | 539          | rBV      | 75793          | 130119        | 9.88%           | 1.583%        |
| 5         | 7.270       | 539           | 541         | 547          | rVB      | 16538          | 27129         | 2.06%           | 0.330%        |
| 6         | 7.773       | 581           | 585         | 595          | rVB2     | 73439          | 128183        | 9.73%           | 1.559%        |
| 7         | 8.093       | 609           | 613         | 619          | rVB      | 320552         | 505640        | 38.38%          | 6.151%        |
| 8         | 9.065       | 695           | 698         | 702          | rBV      | 228442         | 392013        | 29.75%          | 4.769%        |
| 9         | 10.231      | 796           | 800         | 803          | rBV      | 109636         | 174370        | 13.23%          | 2.121%        |
| 10        | 10.676      | 836           | 839         | 842          | rBV      | 104719         | 175022        | 13.28%          | 2.129%        |
| 11        | 10.734      | 842           | 844         | 848          | rVB      | 57042          | 84837         | 6.44%           | 1.032%        |
| 12        | 11.134      | 876           | 879         | 882          | rBV      | 22243          | 41482         | 3.15%           | 0.505%        |
| 13        | 12.071      | 959           | 961         | 965          | rBV      | 20418          | 33384         | 2.53%           | 0.406%        |
| 14        | 12.608      | 1004          | 1008        | 1020         | rBV      | 13264          | 43989         | 3.34%           | 0.535%        |
| 15        | 13.340      | 1068          | 1072        | 1075         | rBV      | 510685         | 791864        | 60.10%          | 9.633%        |
| 16        | 14.574      | 1177          | 1180        | 1186         | rVB      | 84480          | 129875        | 9.86%           | 1.580%        |
| 17        | 14.814      | 1198          | 1201        | 1205         | rVB      | 115597         | 196251        | 14.90%          | 2.387%        |
| 18        | 14.940      | 1209          | 1212        | 1219         | rVB      | 24509          | 47149         | 3.58%           | 0.574%        |
| 19        | 15.283      | 1236          | 1242        | 1247         | rVB2     | 14581          | 36112         | 2.74%           | 0.439%        |
| 20        | 17.031      | 1391          | 1395        | 1398         | rBV2     | 24764          | 63659         | 4.83%           | 0.774%        |
| 21        | 17.294      | 1415          | 1418        | 1422         | rBV2     | 40584          | 65284         | 4.96%           | 0.794%        |
| 22        | 17.523      | 1435          | 1438        | 1441         | rBV      | 50216          | 85683         | 6.50%           | 1.042%        |
| 23        | 17.637      | 1445          | 1448        | 1450         | rBV      | 187463         | 235127        | 17.85%          | 2.860%        |
| 24        | 17.740      | 1455          | 1457        | 1459         | rBV2     | 38114          | 62580         | 4.75%           | 0.761%        |
| 25        | 17.969      | 1474          | 1477        | 1480         | rBV4     | 21586          | 54887         | 4.17%           | 0.668%        |
| 26        | 18.151      | 1491          | 1493        | 1495         | rBV2     | 19418          | 45640         | 3.46%           | 0.555%        |
| 27        | 18.243      | 1499          | 1501        | 1504         | rBV3     | 19773          | 37168         | 2.82%           | 0.452%        |
| 28        | 18.311      | 1505          | 1507        | 1510         | rBV3     | 30152          | 79523         | 6.04%           | 0.967%        |
| 29        | 18.723      | 1541          | 1543        | 1546         | rBV3     | 46812          | 123888        | 9.40%           | 1.507%        |
| 30        | 18.872      | 1554          | 1556        | 1558         | rBV      | 52332          | 103447        | 7.85%           | 1.258%        |
| 31        | 18.917      | 1558          | 1560        | 1562         | rVV2     | 56734          | 93475         | 7.09%           | 1.137%        |
| 32        | 19.249      | 1586          | 1589        | 1591         | rBV      | 112092         | 267124        | 20.27%          | 3.249%        |
| 33        | 19.386      | 1599          | 1601        | 1602         | rBV      | 104436         | 160090        | 12.15%          | 1.947%        |
| 34        | 19.580      | 1615          | 1618        | 1619         | rBV      | 191589         | 343632        | 26.08%          | 4.180%        |

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Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

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:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |     |        |        |        |         |
|----|--------|------|------|------|-----|--------|--------|--------|---------|
| 35 | 19.740 | 1630 | 1632 | 1634 | rBV | 165823 | 301208 | 22.86% | 3.664%  |
| 36 | 19.889 | 1643 | 1645 | 1648 | rVB | 601767 | 862341 | 65.45% | 10.490% |

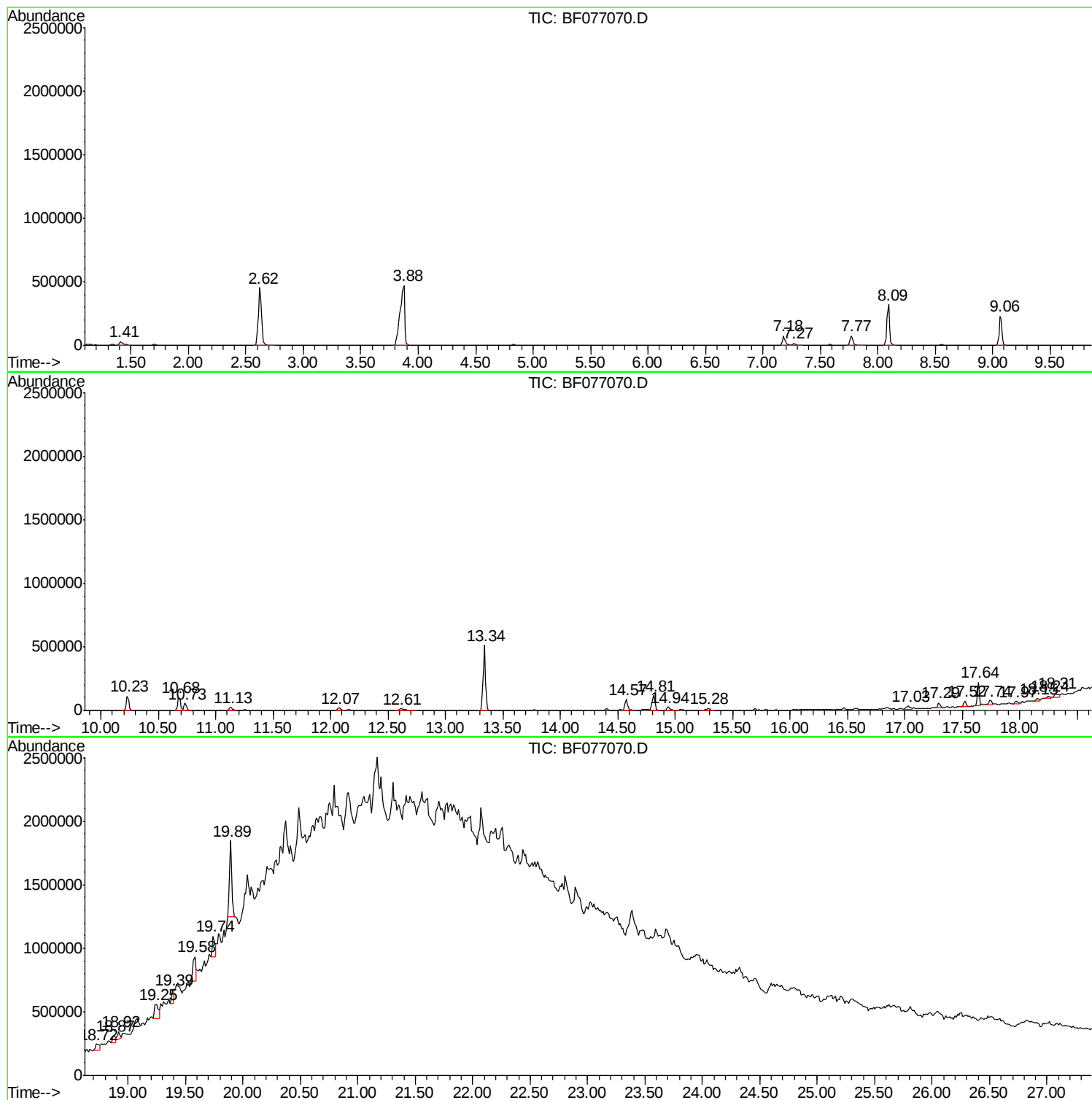
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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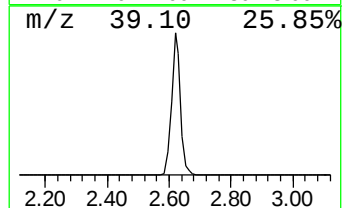
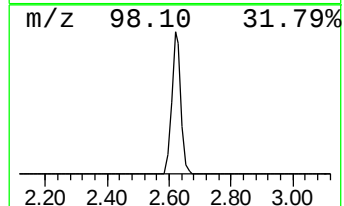
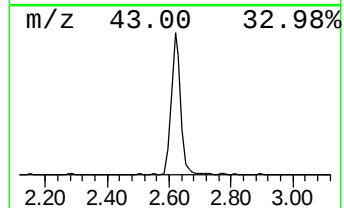
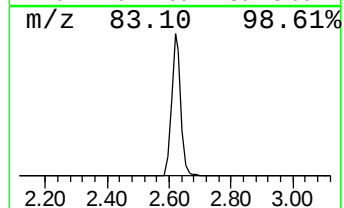
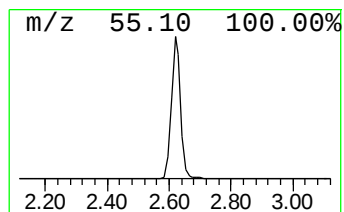
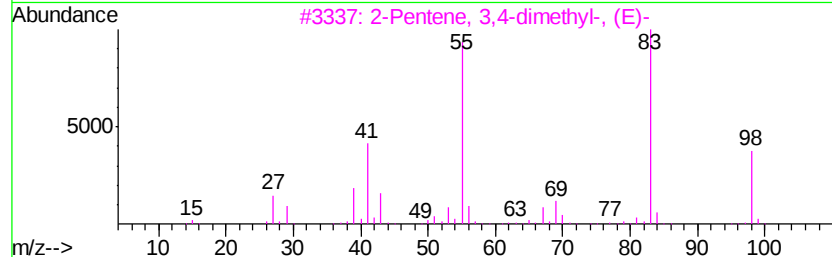
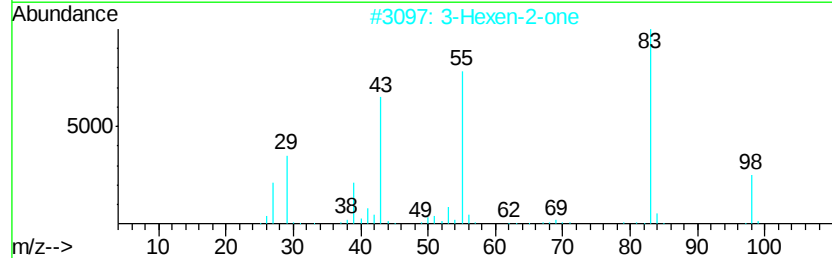
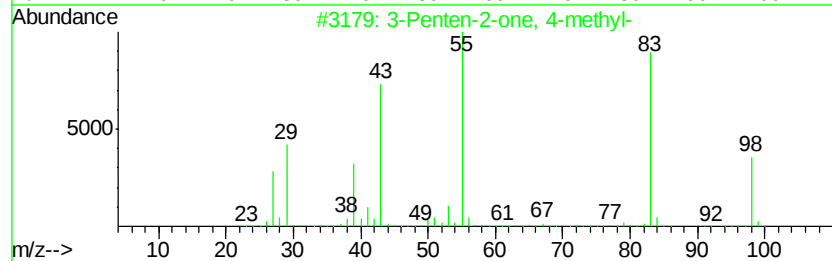
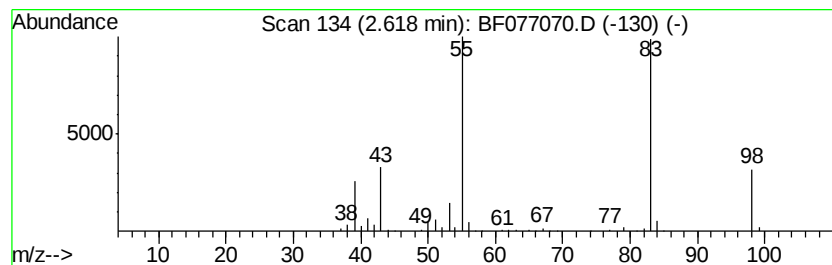
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 3-Penten-2-one, 4-methyl- Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 2.62 | 144.40 ng | 925462 | 1,4-Dichlorobenzene-d4 | 7.77 |

| Hit# | of | Tentative ID                   | MW | MolForm | CAS#        | Qual |
|------|----|--------------------------------|----|---------|-------------|------|
| 1    | 5  | 3-Penten-2-one, 4-methyl-      | 98 | C6H10O  | 000141-79-7 | 91   |
| 2    |    | 3-Hexen-2-one                  | 98 | C6H10O  | 000763-93-9 | 91   |
| 3    |    | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14   | 004914-92-5 | 86   |
| 4    |    | 2-Pentene, 2,4-dimethyl-       | 98 | C7H14   | 000625-65-0 | 86   |
| 5    |    | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14   | 004914-91-4 | 86   |



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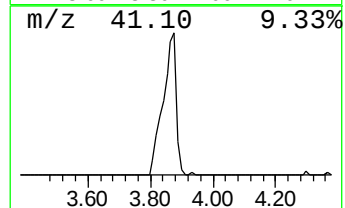
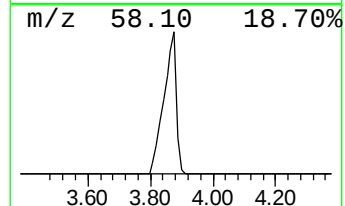
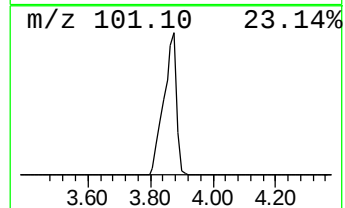
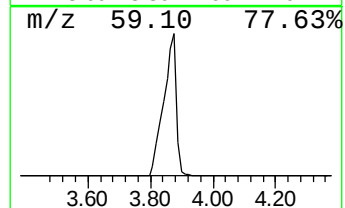
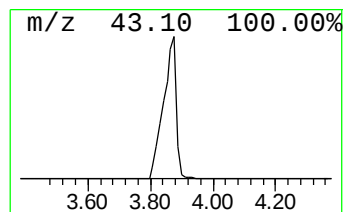
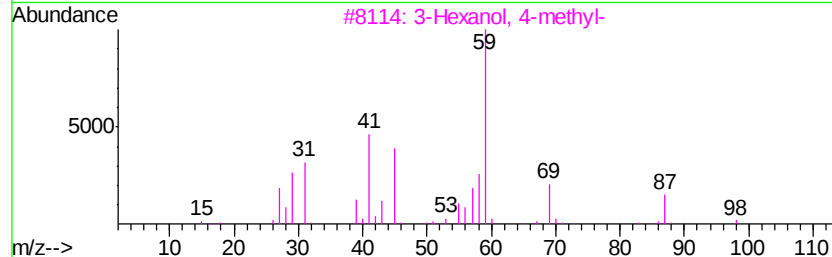
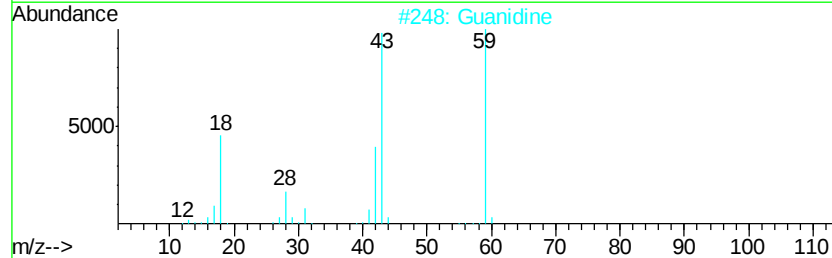
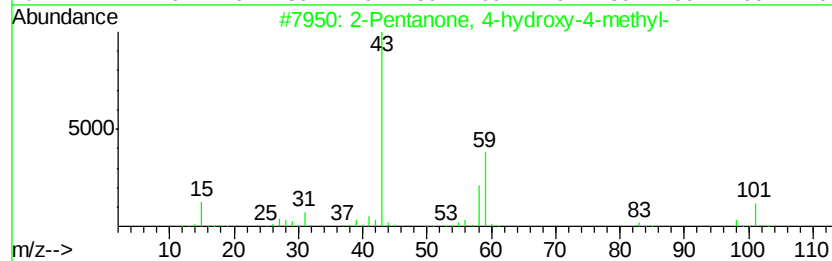
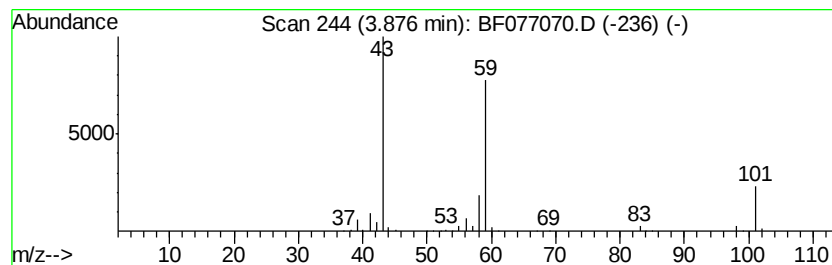
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 3.88 | 205.57 ng | 1317520 | 1,4-Dichlorobenzene-d4 | 7.77 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | Guanidine                            | 59  | CH5N3    | 000113-00-8 | 50   |
| 3    |    | 3-Hexanol, 4-methyl-                 | 116 | C7H16O   | 000615-29-2 | 36   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 28   |
| 5    |    | (+)-4-Amino-4,5-dihydro-2(3H)-f...   | 101 | C4H7NO2  | 016504-58-8 | 9    |



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BNA\_F  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

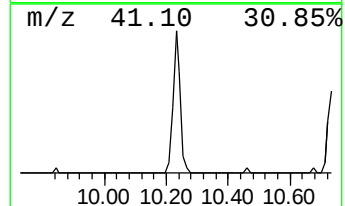
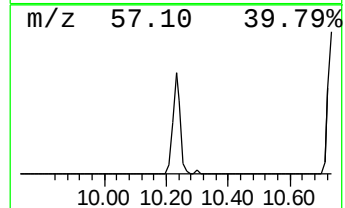
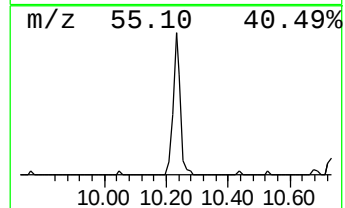
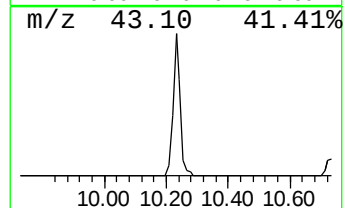
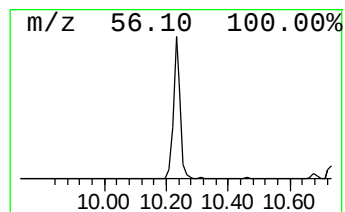
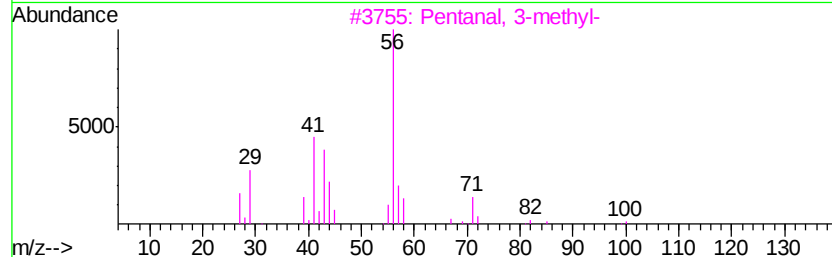
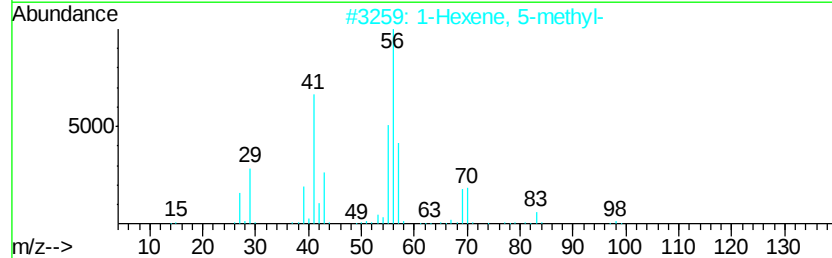
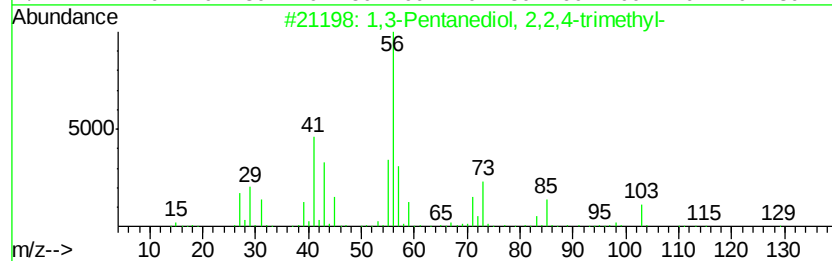
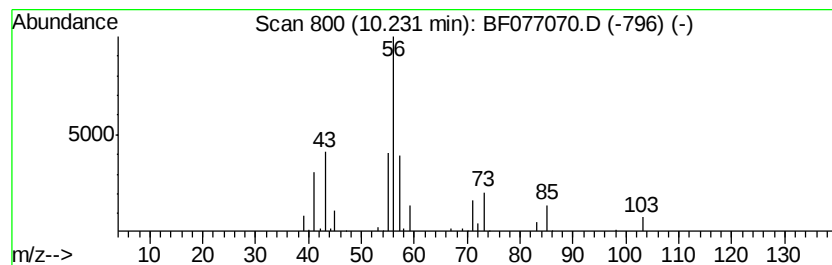
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 1,3-Pentanediol, 2,2,4-trimethyl- Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.23 | 19.93 ng | 174370 | Napthalene-d8    | 10.68 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,3-Pentanediol, 2,2,4-trimethyl- | 146 | C8H18O2 | 000144-19-4 | 72   |
| 2    |    | 1-Hexene, 5-methyl-               | 98  | C7H14   | 003524-73-0 | 49   |
| 3    |    | Pentanal, 3-methyl-               | 100 | C6H12O  | 015877-57-3 | 47   |
| 4    |    | Propane, 1-isocyanato-            | 85  | C4H7NO  | 000110-78-1 | 38   |
| 5    |    | Cyclopentanamine                  | 85  | C5H11N  | 001003-03-8 | 38   |



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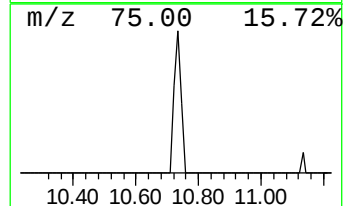
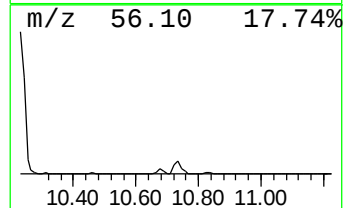
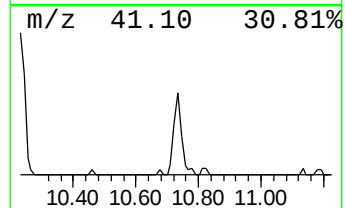
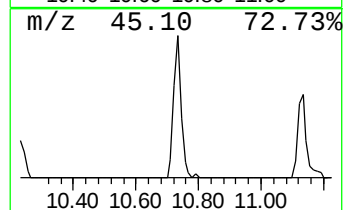
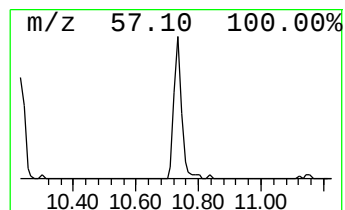
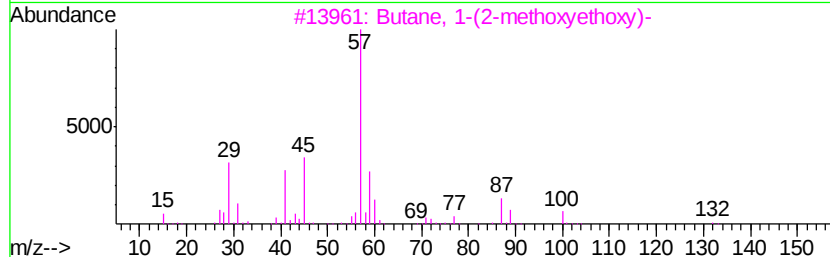
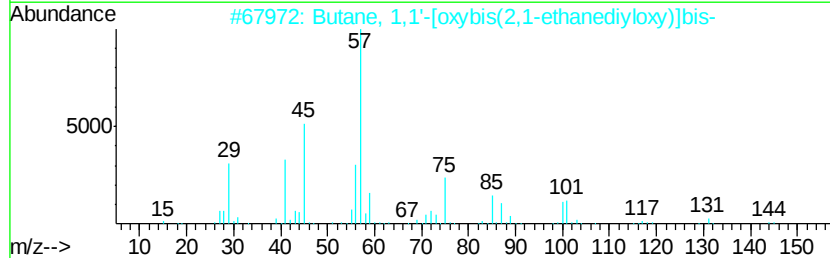
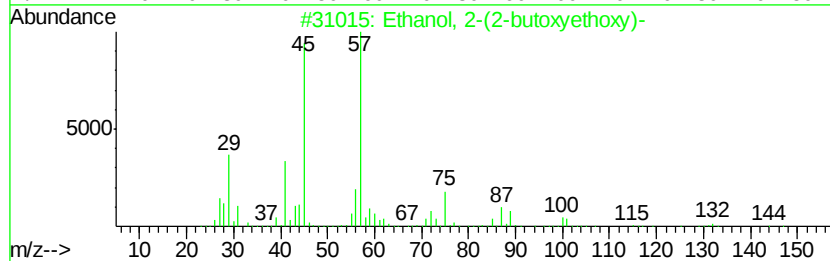
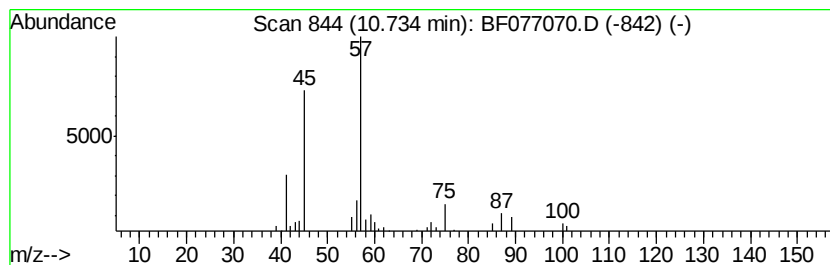
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Ethanol, 2-(2-butoxyethoxy)- Concentration Rank 9

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|-------|------------------|-------------|------|
| 10.73     | 9.69 ng                             | 84837 | Naphthalene-d8   | 10.68       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#        | Qual |
| 1         | Ethanol, 2-(2-butoxyethoxy)-        | 162   | C8H18O3          | 000112-34-5 | 90   |
| 2         | Butane, 1,1'-[oxybis(2,1-ethaned... | 218   | C12H26O3         | 000112-73-2 | 50   |
| 3         | Butane, 1-(2-methoxyethoxy)-        | 132   | C7H16O2          | 013343-98-1 | 42   |
| 4         | Ethylene glycol monoisobutyl ether  | 118   | C6H14O2          | 004439-24-1 | 42   |
| 5         | Ethanol, 2-butoxy-                  | 118   | C6H14O2          | 000111-76-2 | 42   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

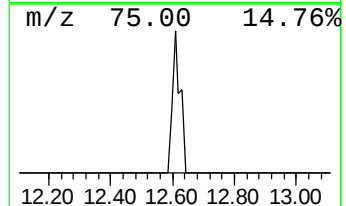
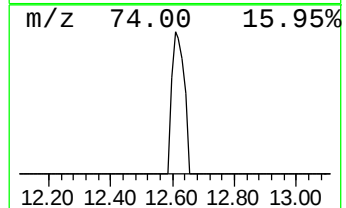
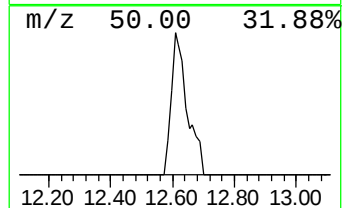
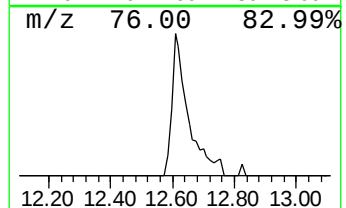
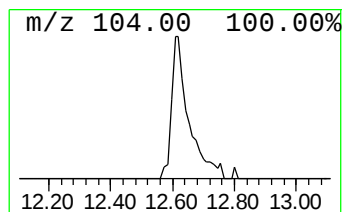
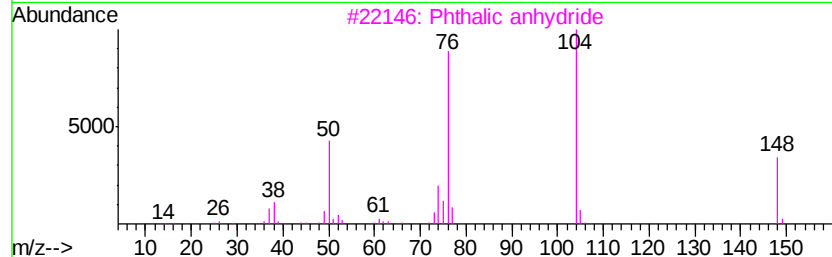
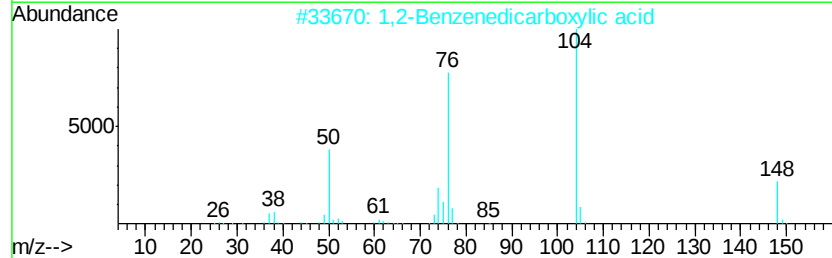
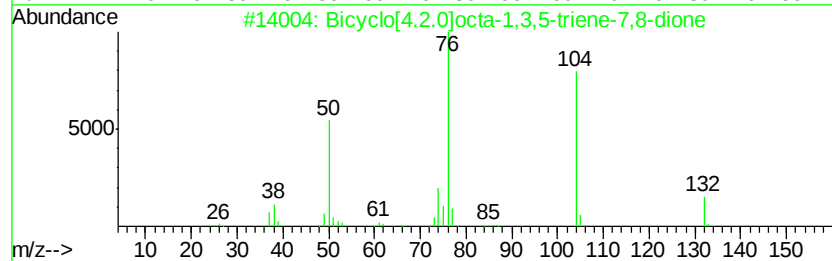
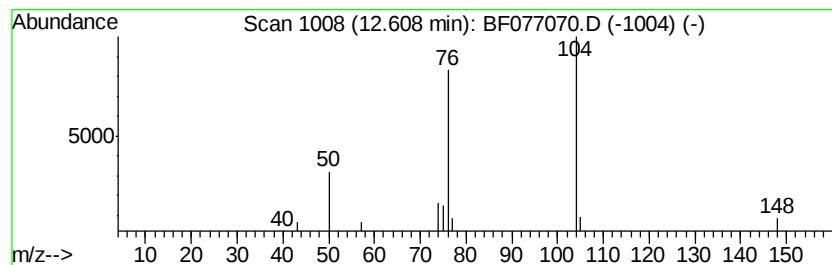
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.61 | 5.03 ng | 43989 | Naphthalene-d8   | 10.68 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[4.2.0]octa-1,3,5-triene-... | 132 | C8H4O2  | 006383-11-5 | 83   |
| 2    |    | 1,2-Benzenedicarboxylic acid        | 166 | C8H6O4  | 000088-99-3 | 83   |
| 3    |    | Phthalic anhydride                  | 148 | C8H4O3  | 000085-44-9 | 83   |
| 4    |    | Phthamic acid                       | 165 | C8H7NO3 | 000088-97-1 | 83   |
| 5    |    | 1H-Isoindole-1,3(2H)-dione, 2-(h... | 177 | C9H7NO3 | 000118-29-6 | 78   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

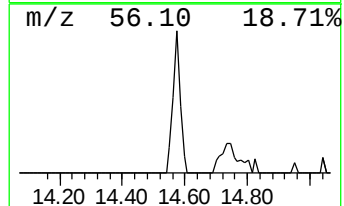
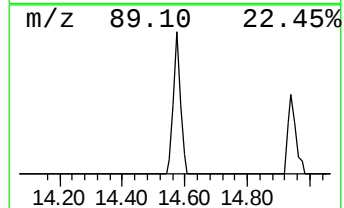
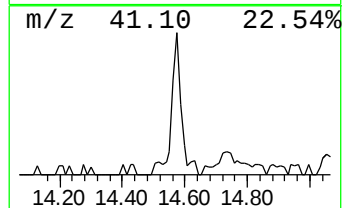
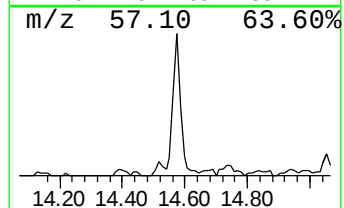
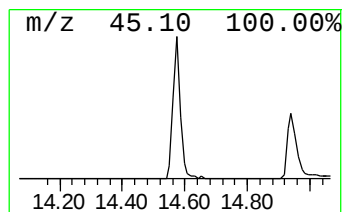
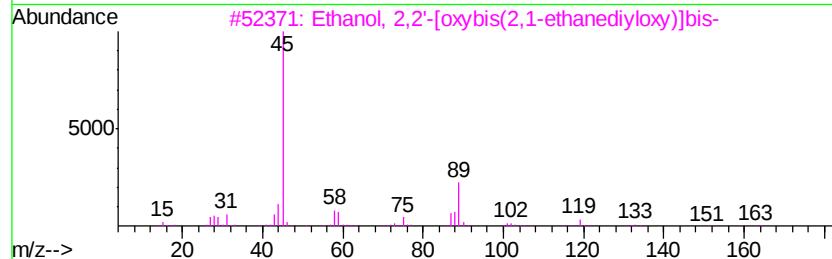
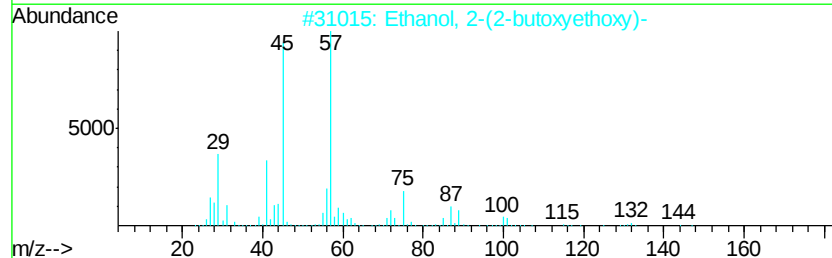
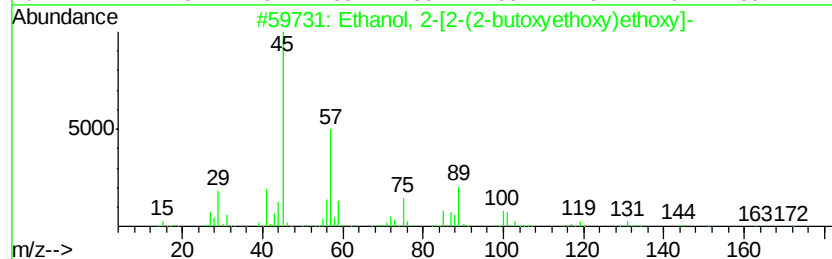
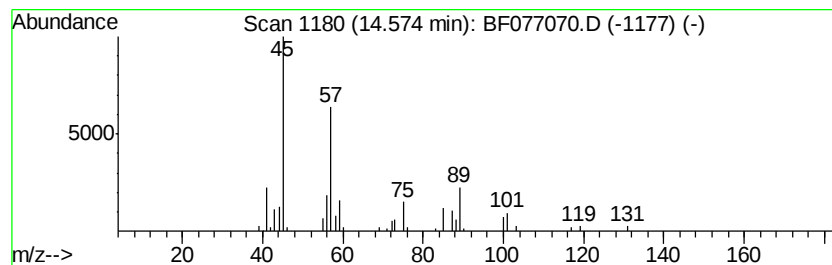
Instrument :  
BNA\_F  
ClientSampleID :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Ethanol, 2-[2-(2-butoxyetho... Concentration Rank 7

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.           |
|---------|----------|-------------------------------------|------------------|----------------|
| 14.57   | 13.24 ng | 129875                              | Acenaphthene-d10 | 14.81          |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |          | Ethanol, 2-[2-(2-butoxyethoxy)et... | 206 C10H22O4     | 000143-22-6 91 |
| 2       |          | Ethanol, 2-(2-butoxyethoxy)-        | 162 C8H18O3      | 000112-34-5 64 |
| 3       |          | Ethanol, 2,2'-[oxybis(2,1-ethane... | 194 C8H18O5      | 000112-60-7 59 |
| 4       |          | Pentaethylene glycol                | 238 C10H22O6     | 004792-15-8 59 |
| 5       |          | Butane, 1-(1-methylpropoxy)-        | 130 C8H18O       | 000999-65-5 47 |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

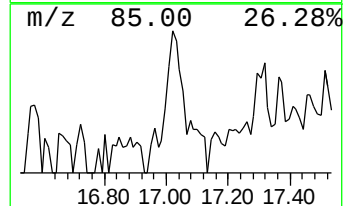
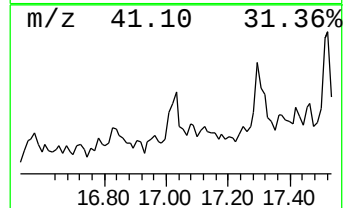
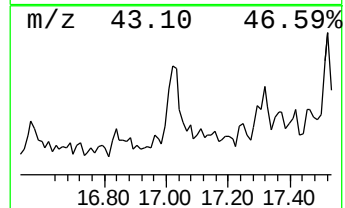
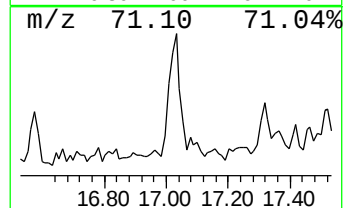
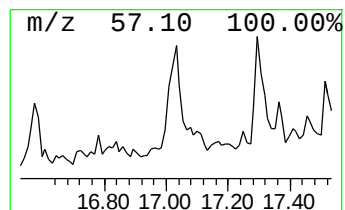
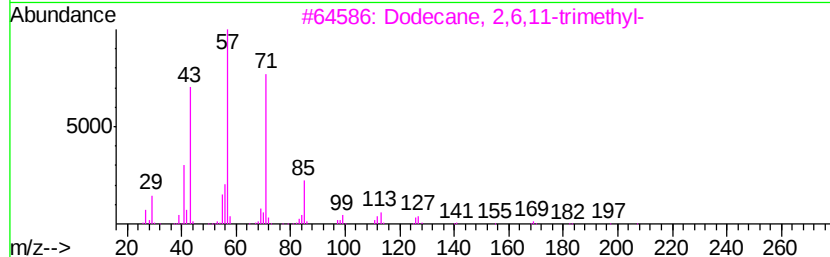
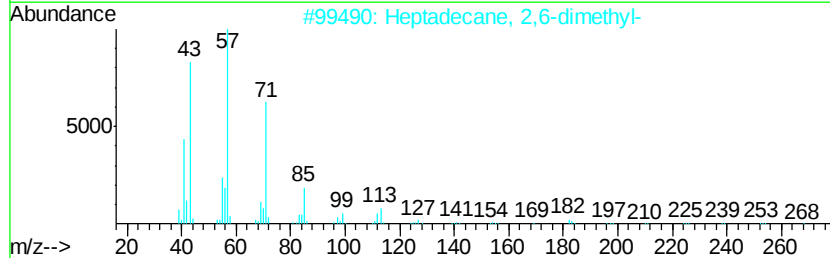
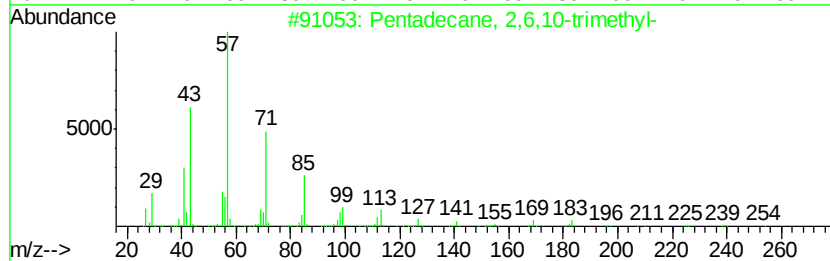
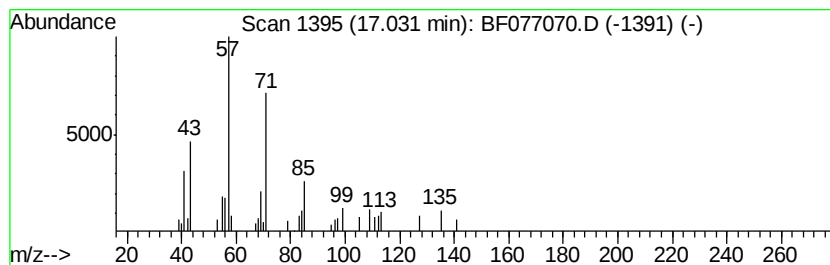
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Pentadecane, 2,6,10-trimethyl- Concentration Rank 18

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.03 | 5.41 ng | 63659 | Phenanthrene-d10 | 17.64 |

| Hit# of | 5                              | Tentative ID | MW          | MolForm     | CAS# | Qual |
|---------|--------------------------------|--------------|-------------|-------------|------|------|
| 1       | Pentadecane, 2,6,10-trimethyl- | 254          | C18H38      | 003892-00-0 | 64   |      |
| 2       | Heptadecane, 2,6-dimethyl-     | 268          | C19H40      | 054105-67-8 | 64   |      |
| 3       | Dodecane, 2,6,11-trimethyl-    | 212          | C15H32      | 031295-56-4 | 59   |      |
| 4       | Silane, trichlorooctadecyl-    | 386          | C18H37Cl3Si | 000112-04-9 | 53   |      |
| 5       | Heptacosane                    | 380          | C27H56      | 000593-49-7 | 53   |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

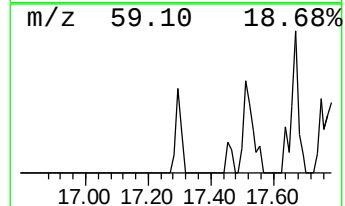
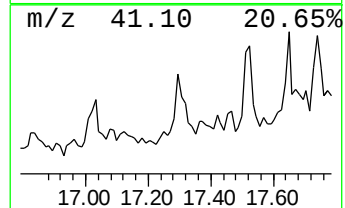
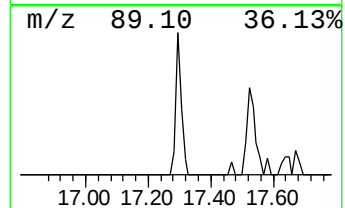
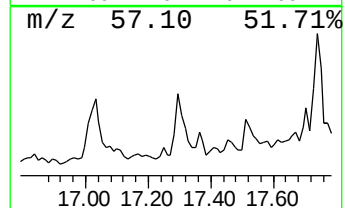
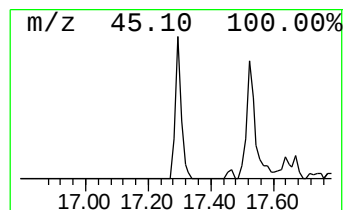
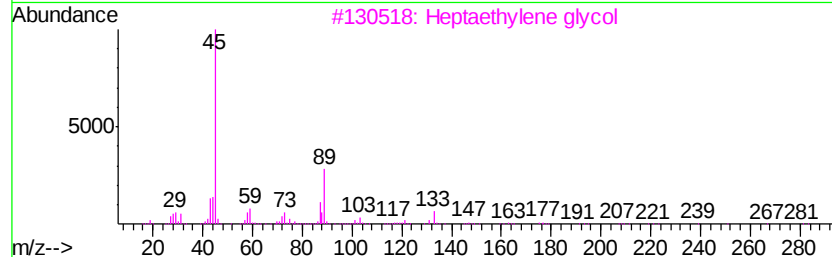
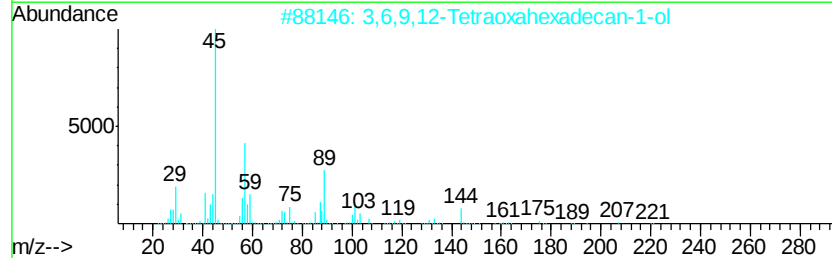
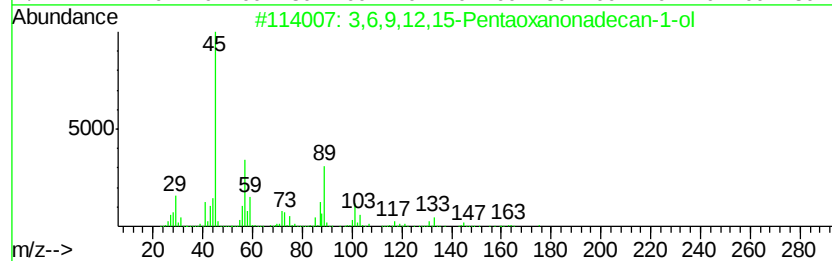
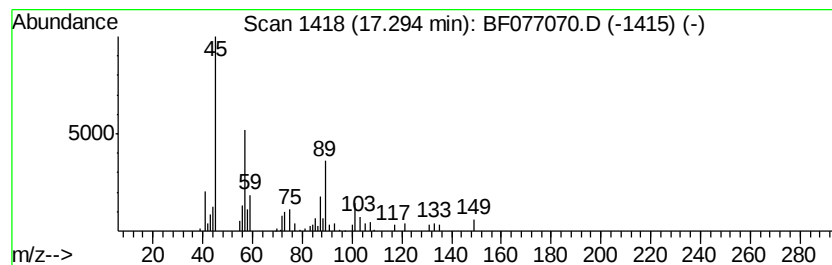
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 3,6,9,12,15-Pentaoxanonadec... Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.29 | 5.55 ng | 65284 | Phenanthrene-d10 | 17.64 |

| Hit# | of                                 | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 3,6,9,12,15-Pentaoxanonadecan-1-ol | 294 | C14H30O6     | 001786-94-3  | 87      |      |      |
| 2    | 3,6,9,12-Tetraoxahexadecan-1-ol    | 250 | C12H26O5     | 001559-34-8  | 86      |      |      |
| 3    | Heptaethylene glycol               | 326 | C14H30O8     | 005617-32-3  | 72      |      |      |
| 4    | Hexagol                            | 282 | C12H26O7     | 002615-15-8  | 72      |      |      |
| 5    | Octaethylene glycol                | 370 | C16H34O9     | 1000289-34-2 | 64      |      |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

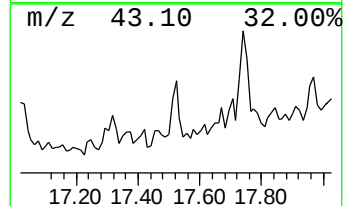
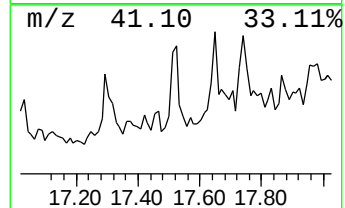
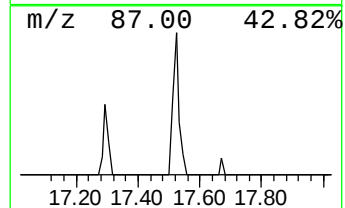
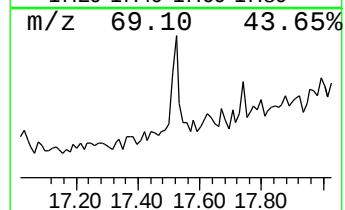
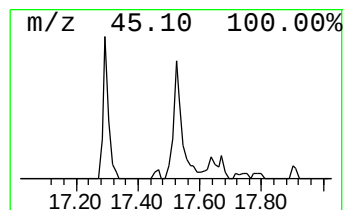
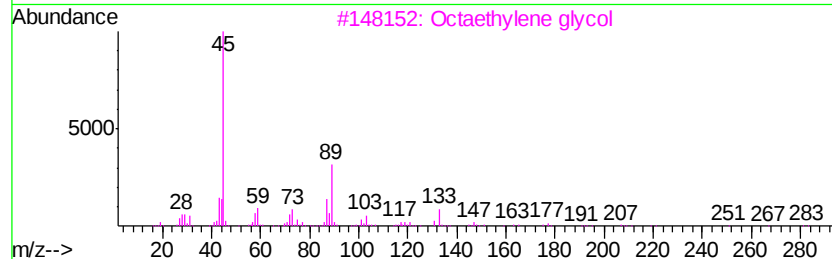
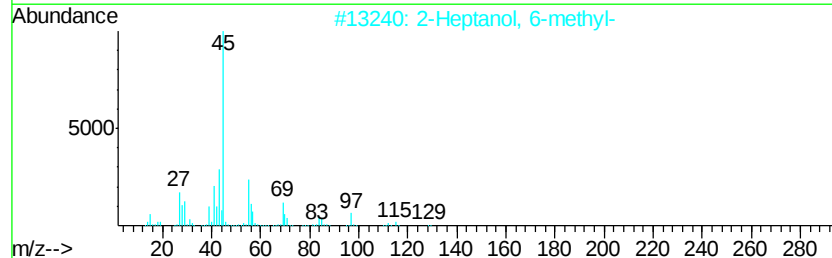
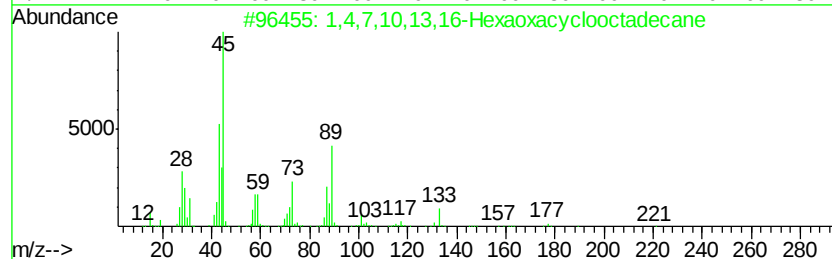
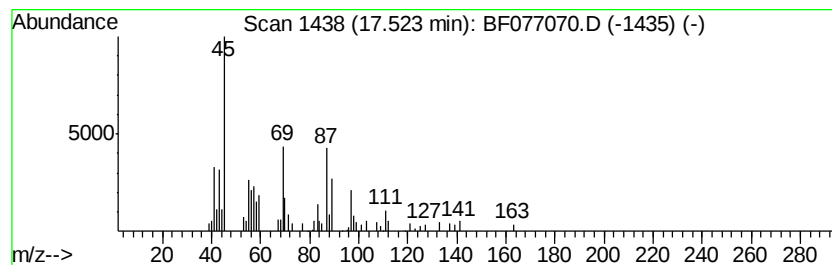
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown17.52 Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.52 | 7.29 ng | 85683 | Phenanthrene-d10 | 17.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1,4,7,10,13,16-Hexaoxacyclooctad... | 264 | C12H24O6 | 017455-13-9  | 43   |
| 2    |    | 2-Heptanol, 6-methyl-               | 130 | C8H18O   | 004730-22-7  | 43   |
| 3    |    | Octaethylene glycol                 | 370 | C16H34O9 | 1000289-34-2 | 38   |
| 4    |    | 2-Hexadecanol                       | 242 | C16H34O  | 014852-31-4  | 38   |
| 5    |    | Pentaethylene glycol                | 238 | C10H22O6 | 004792-15-8  | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

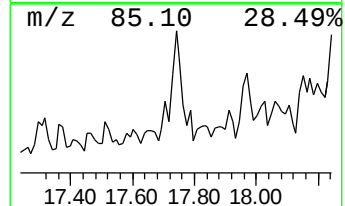
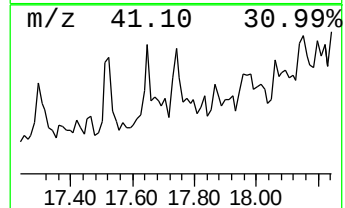
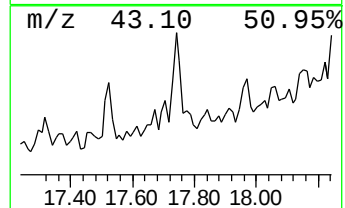
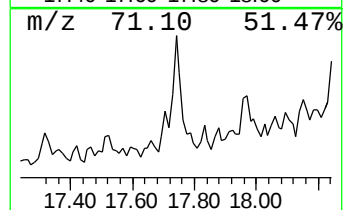
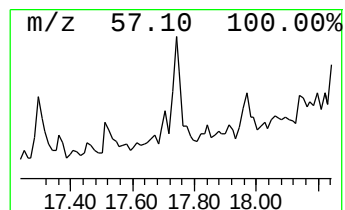
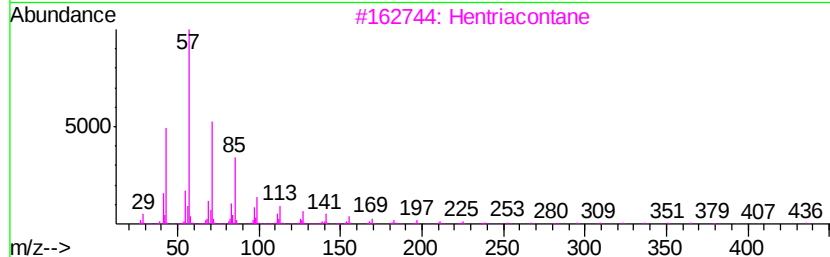
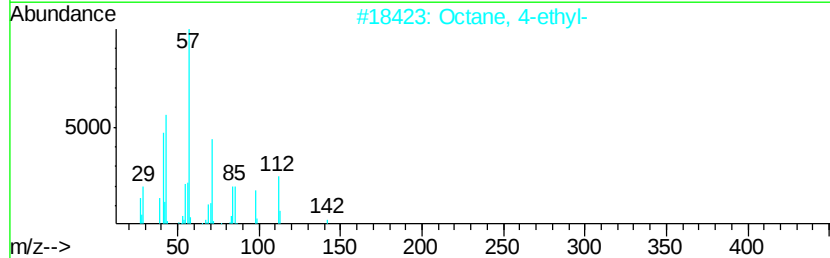
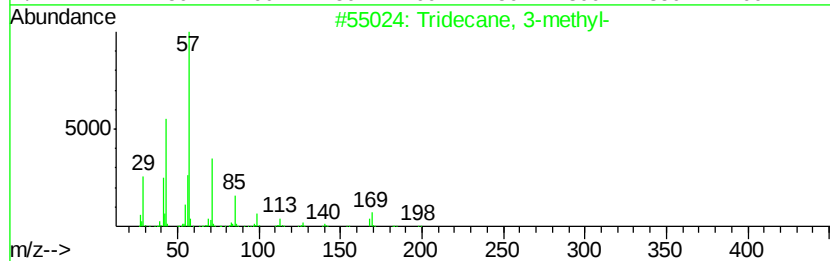
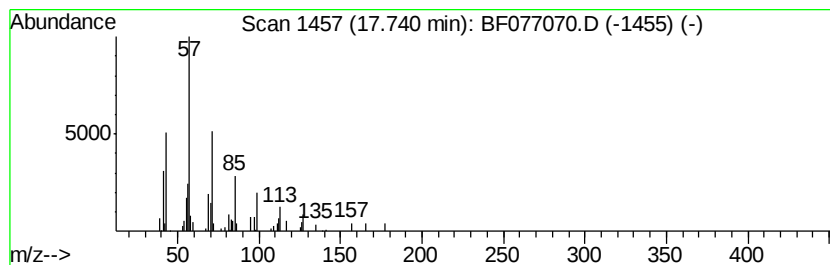
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Tridecane, 3-methyl- Concentration Rank 19

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.74 | 5.32 ng | 62580 | Phenanthrene-d10 | 17.64 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane, 3-methyl-    | 198 | C14H30  | 006418-41-3 | 64   |
| 2    |    | Octane, 4-ethyl-        | 142 | C10H22  | 015869-86-0 | 53   |
| 3    |    | Hentriacontane          | 437 | C31H64  | 000630-04-6 | 53   |
| 4    |    | Undecane, 4,6-dimethyl- | 184 | C13H28  | 017312-82-2 | 47   |
| 5    |    | Octane, 3,6-dimethyl-   | 142 | C10H22  | 015869-94-0 | 47   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

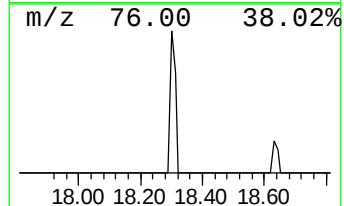
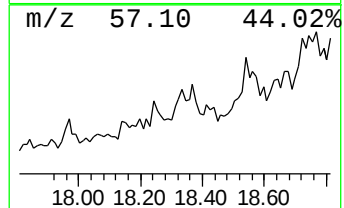
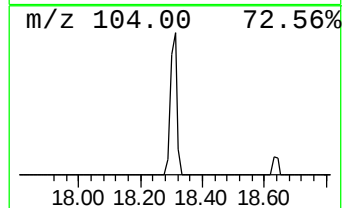
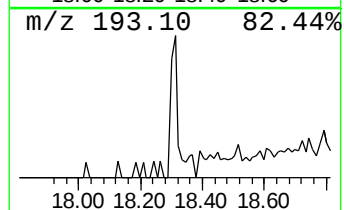
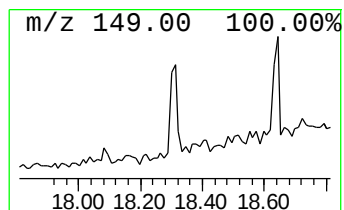
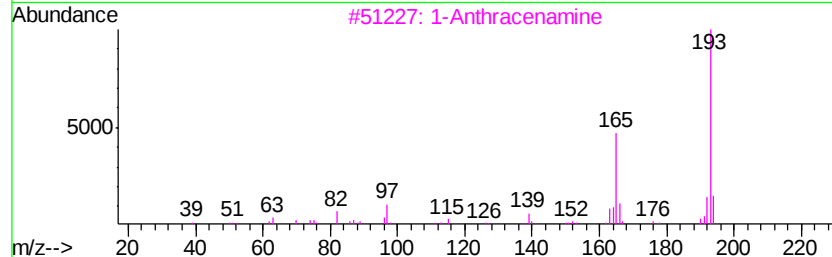
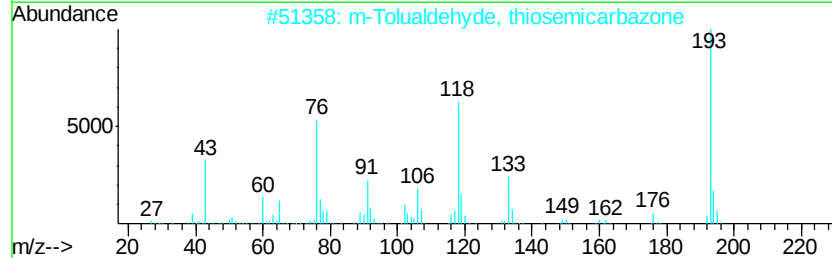
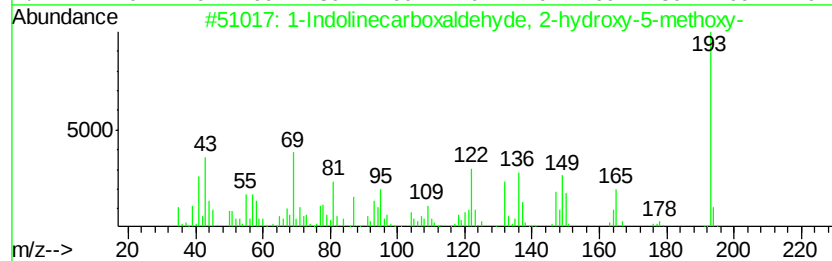
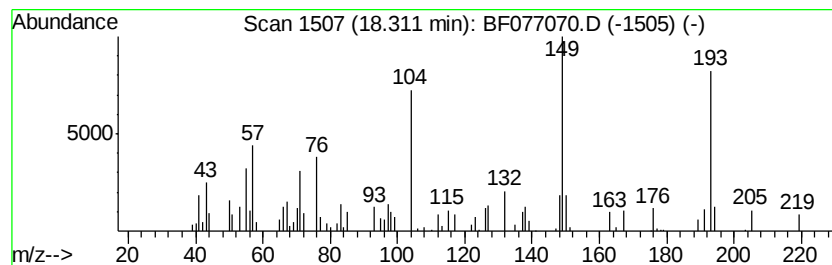
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 unknown18.31 Concentration Rank 16

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 18.31 | 6.76 ng | 79523 | Phenanthrene-d10 | 17.64 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | 1-Indolinecarboxaldehyde, 2-hydr... | 193 | C10H11N03 | 013303-70-3 | 38   |
| 2    |    |   | m-Tolualdehyde, thiosemicarbazone   | 193 | C9H11N3S  | 005706-82-1 | 27   |
| 3    |    |   | 1-Anthracenamine                    | 193 | C14H11N   | 000610-49-1 | 25   |
| 4    |    |   | 9-Vinylcarbazole                    | 193 | C14H11N   | 001484-13-5 | 25   |
| 5    |    |   | Quinoline, 7-chloro-4-hydrazino-    | 193 | C9H8ClN3  | 023834-14-2 | 25   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

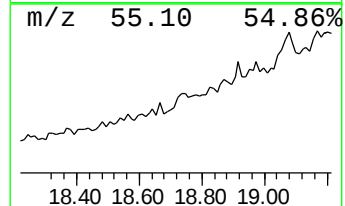
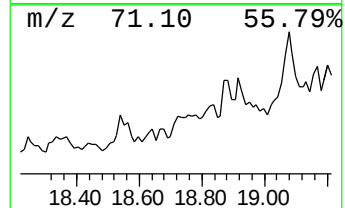
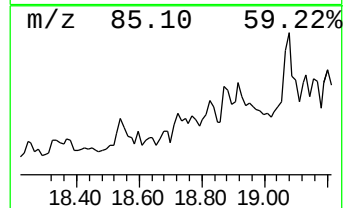
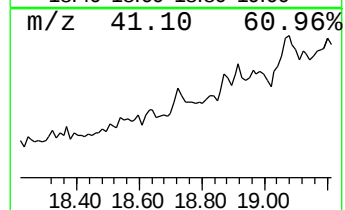
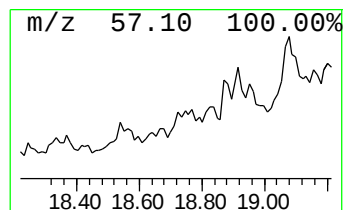
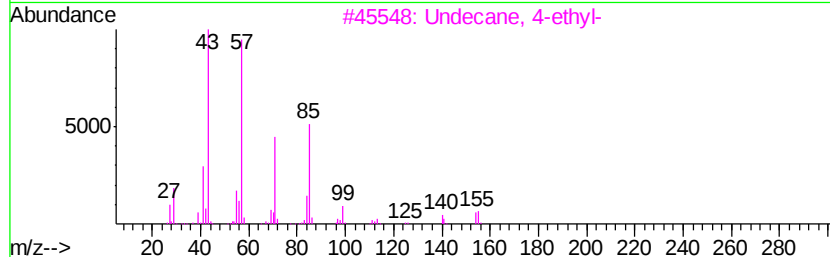
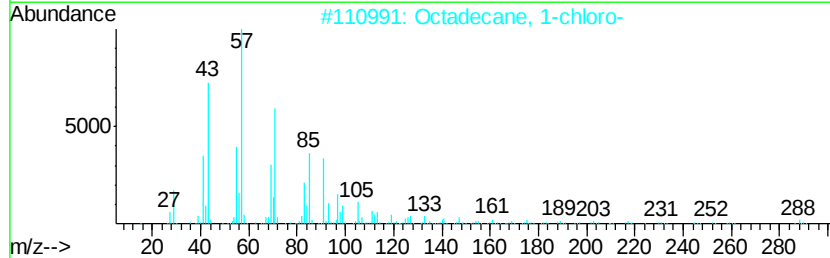
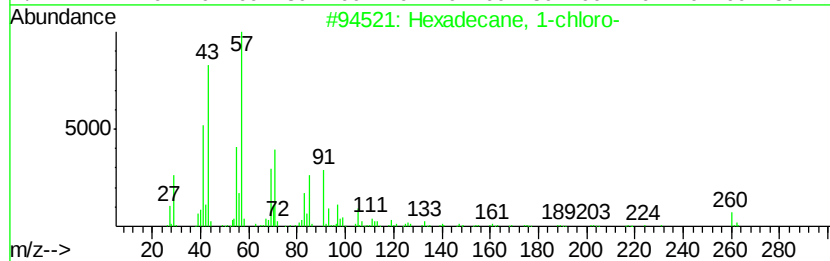
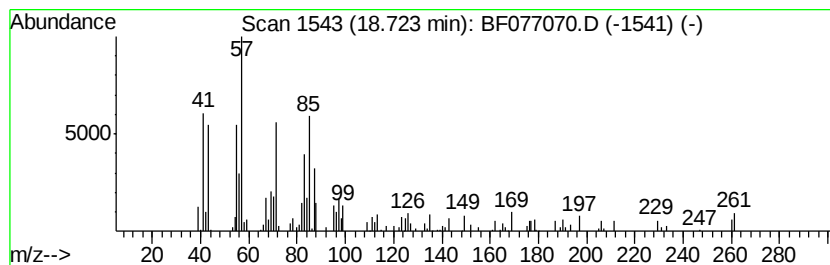
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TIC Integration Parameters: LSCINT.P

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Peak Number 14 unknown18.72 Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 18.72 | 10.54 ng | 123888 | Phenanthrene-d10 | 17.64 |

| Hit# | of | Tentative ID                | MW  | MolForm     | CAS#        | Qual |
|------|----|-----------------------------|-----|-------------|-------------|------|
| 1    | 5  | Hexadecane, 1-chloro-       | 260 | C16H33Cl    | 004860-03-1 | 41   |
| 2    |    | Octadecane, 1-chloro-       | 288 | C18H37Cl    | 003386-33-2 | 30   |
| 3    |    | Undecane, 4-ethyl-          | 184 | C13H28      | 017312-59-3 | 27   |
| 4    |    | 3,5-Dimethyldodecane        | 198 | C14H30      | 107770-99-0 | 27   |
| 5    |    | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

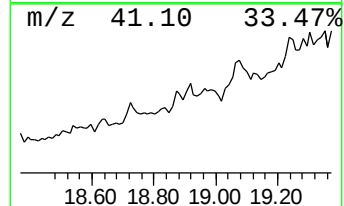
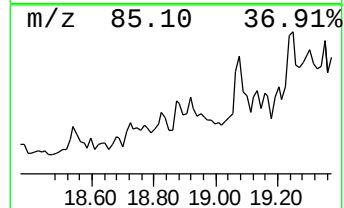
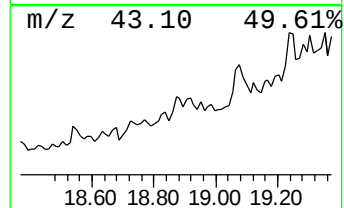
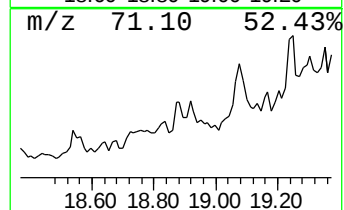
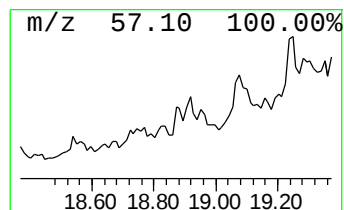
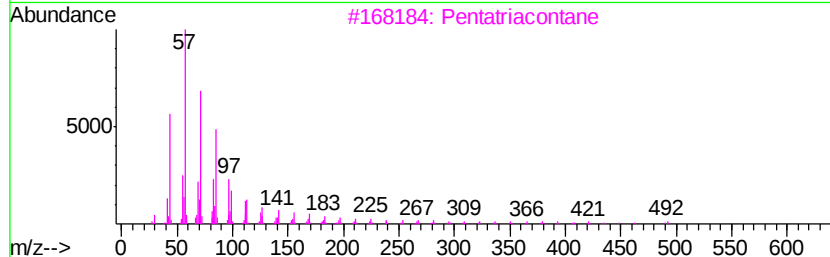
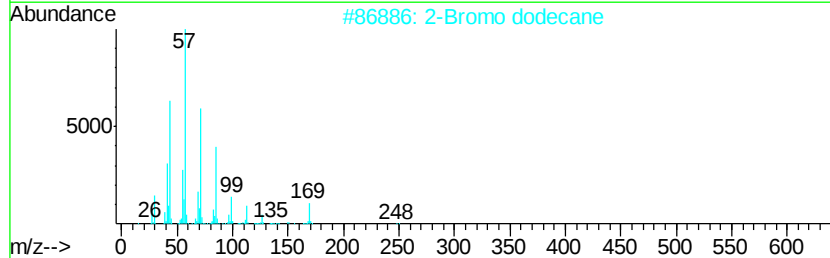
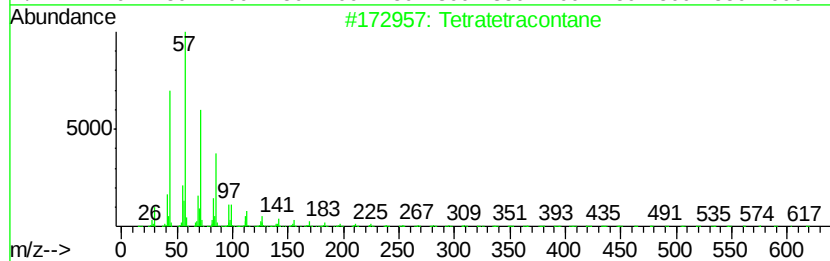
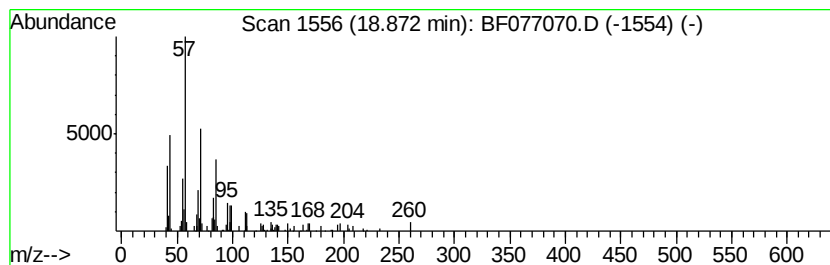
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TIC Integration Parameters: LSCINT.P

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Peak Number 15 Tetratetracontane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.87 | 8.80 ng | 103447 | Phenanthrene-d10 | 17.64 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|----|---|------------------------|-----|----------|-------------|------|
| 1    |    |   | Tetratetracontane      | 619 | C44H90   | 007098-22-8 | 64   |
| 2    |    |   | 2-Bromo dodecane       | 248 | C12H25Br | 013187-99-0 | 64   |
| 3    |    |   | Pentatriacontane       | 493 | C35H72   | 000630-07-9 | 64   |
| 4    |    |   | Pentadecane, 8-heptyl- | 310 | C22H46   | 071005-15-7 | 59   |
| 5    |    |   | Dodecane, 1-iodo-      | 296 | C12H25I  | 004292-19-7 | 58   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

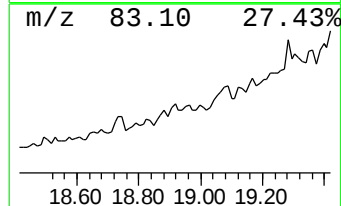
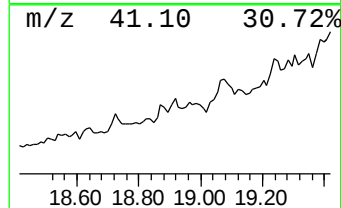
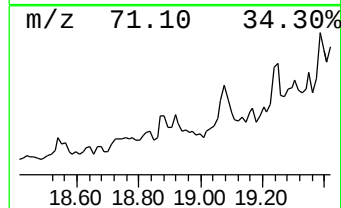
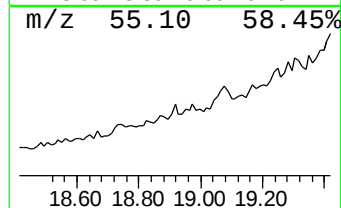
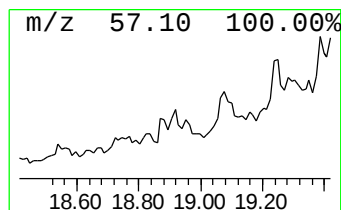
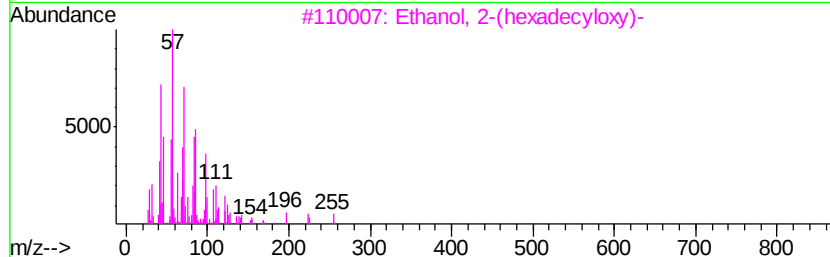
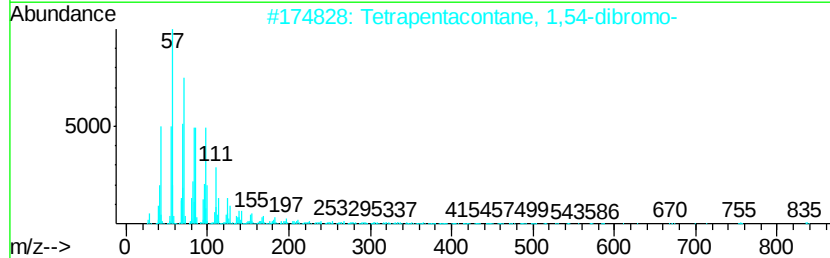
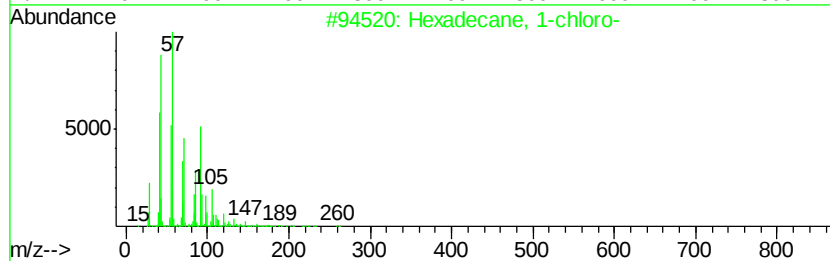
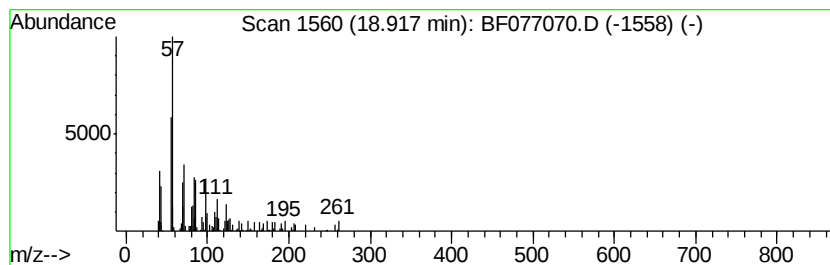
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 unknown18.92 Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 18.92 | 7.95 ng | 93475 | Phenanthrene-d10 | 17.64 |

| Hit# | of | Tentative ID                     | MW  | MolForm    | CAS#         | Qual |
|------|----|----------------------------------|-----|------------|--------------|------|
| 1    | 5  | Hexadecane, 1-chloro-            | 260 | C16H33Cl   | 004860-03-1  | 41   |
| 2    |    | Tetrapentacontane, 1,54-dibromo- | 915 | C54H108Br2 | 1000156-09-4 | 38   |
| 3    |    | Ethanol, 2-(hexadecyloxy)-       | 286 | C18H38O2   | 002136-71-2  | 35   |
| 4    |    | 1-Bromodocosane                  | 388 | C22H45Br   | 006938-66-5  | 27   |
| 5    |    | Heptacosane, 1-chloro-           | 414 | C27H55Cl   | 062016-79-9  | 27   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

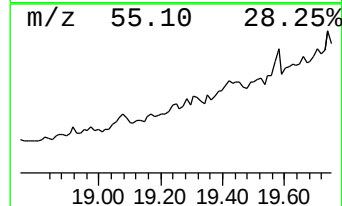
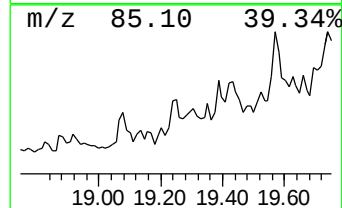
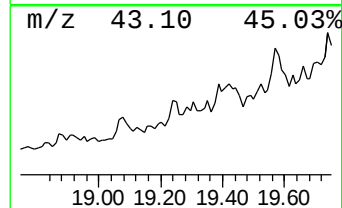
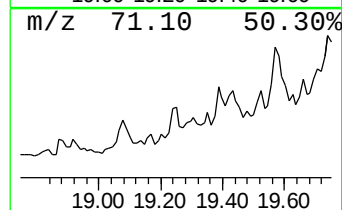
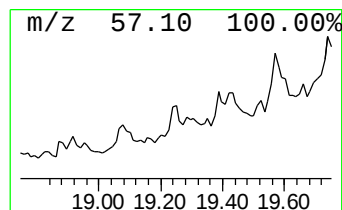
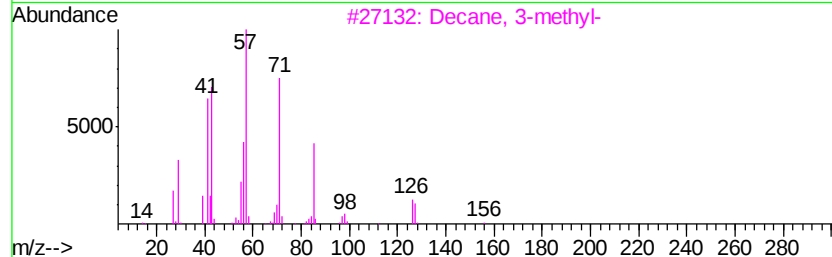
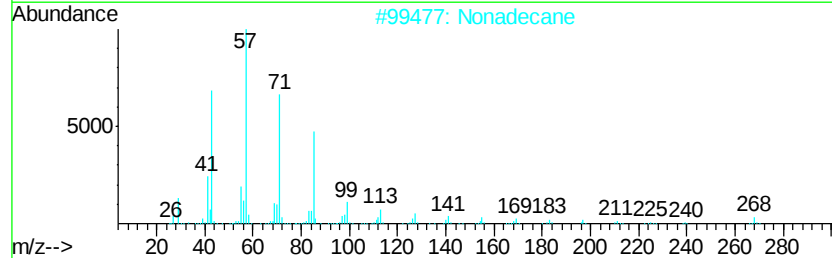
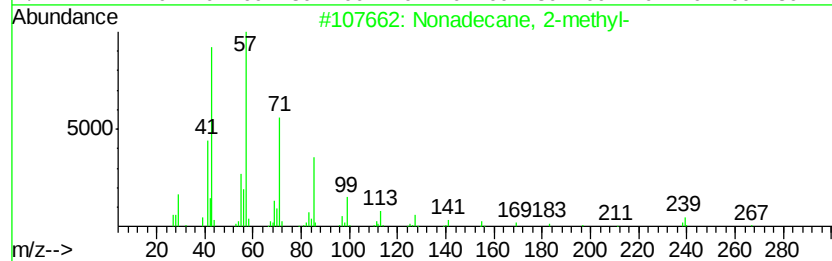
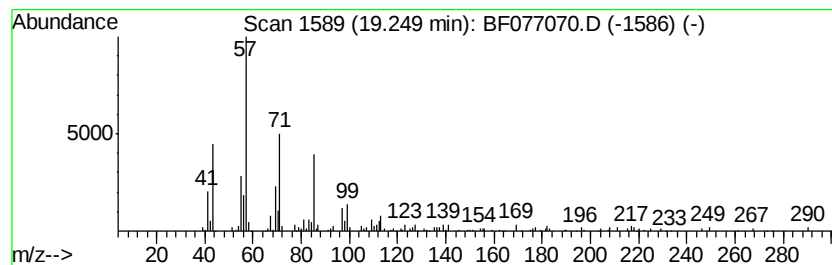
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Nonadecane, 2-methyl- Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 19.25 | 22.72 ng | 267124 | Phenanthrene-d10 | 17.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonadecane, 2-methyl-               | 282 | C20H42  | 001560-86-7 | 80   |
| 2    |    | Nonadecane                          | 268 | C19H40  | 000629-92-5 | 80   |
| 3    |    | Decane, 3-methyl-                   | 156 | C11H24  | 013151-34-3 | 72   |
| 4    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 68   |
| 5    |    | Pentadecane                         | 212 | C15H32  | 000629-62-9 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

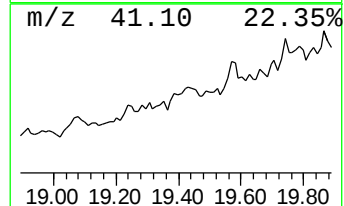
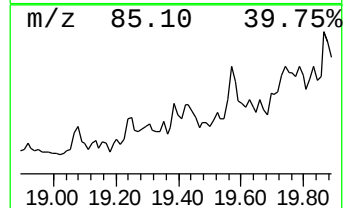
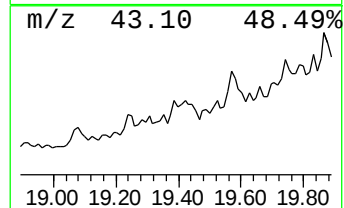
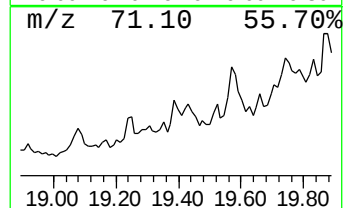
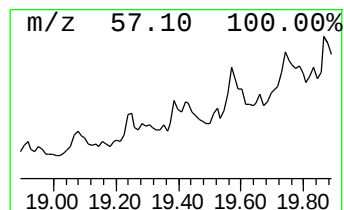
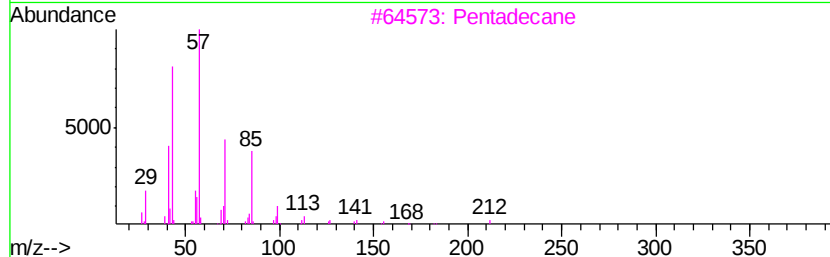
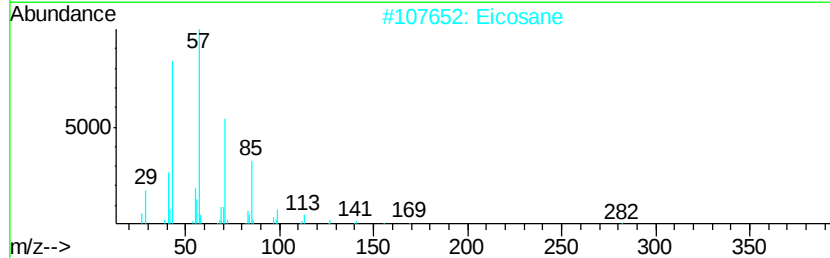
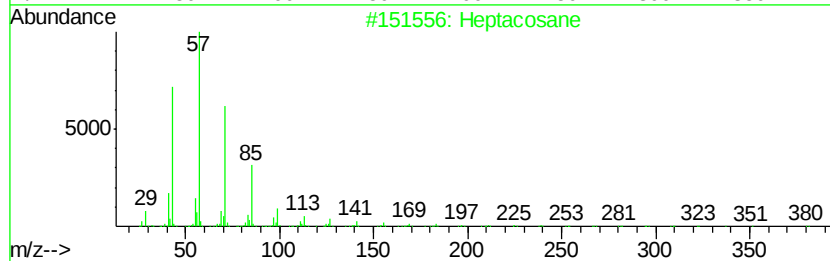
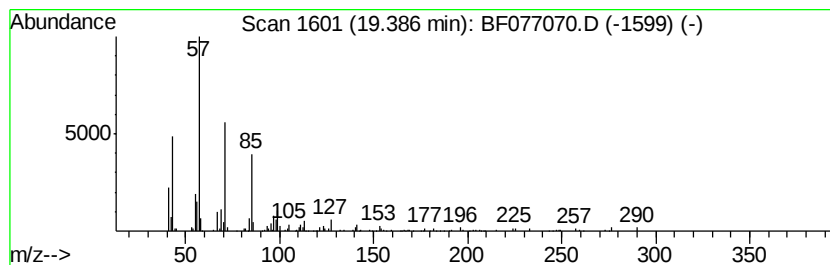
Instrument :  
BNA\_F  
ClientSampleId :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Heptacosane Concentration Rank 6

| R.T.    | EstConc           | Area         | Relative to ISTD | R.T.      |
|---------|-------------------|--------------|------------------|-----------|
| 19.39   | 13.62 ng          | 160090       | Phenanthrene-d10 | 17.64     |
| Hit# of | 5                 | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heptacosane       | 380 C27H56   | 000593-49-7      | 86        |
| 2       | Eicosane          | 282 C20H42   | 000112-95-8      | 86        |
| 3       | Pentadecane       | 212 C15H32   | 000629-62-9      | 86        |
| 4       | Tetradecane       | 198 C14H30   | 000629-59-4      | 78        |
| 5       | Dodecane, 1-iodo- | 296 C12H25I  | 004292-19-7      | 78        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleID :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

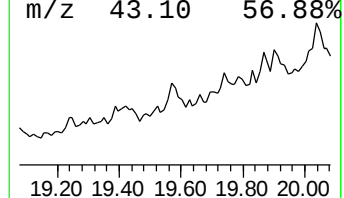
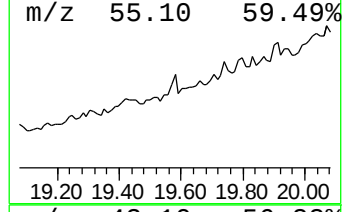
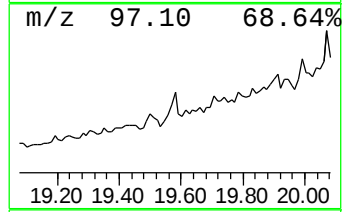
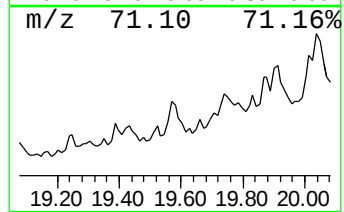
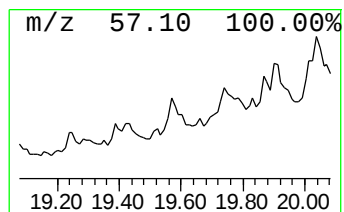
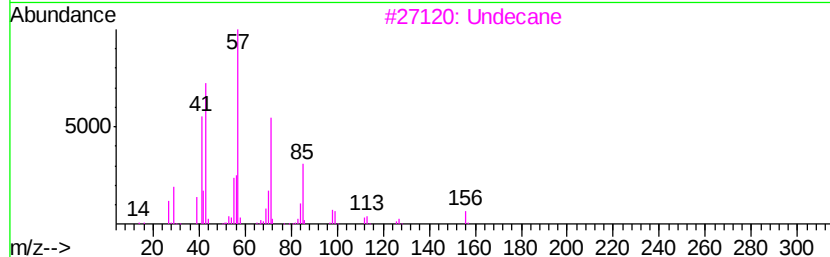
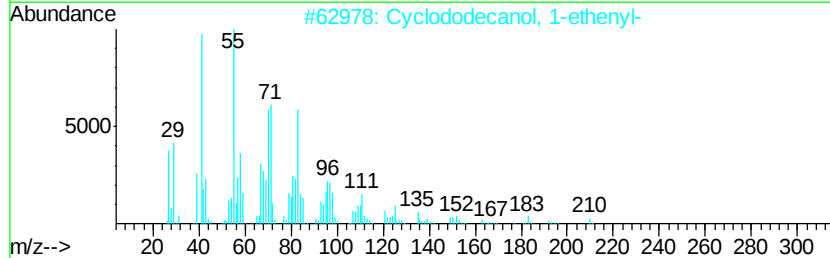
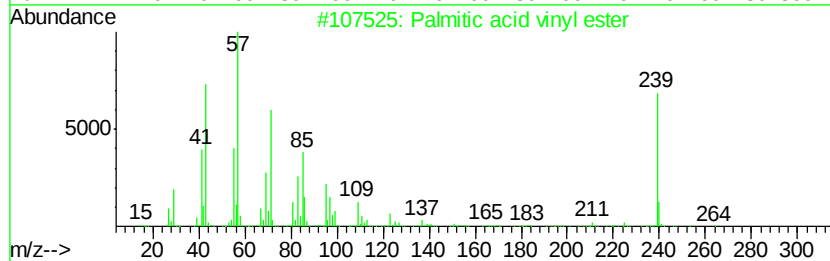
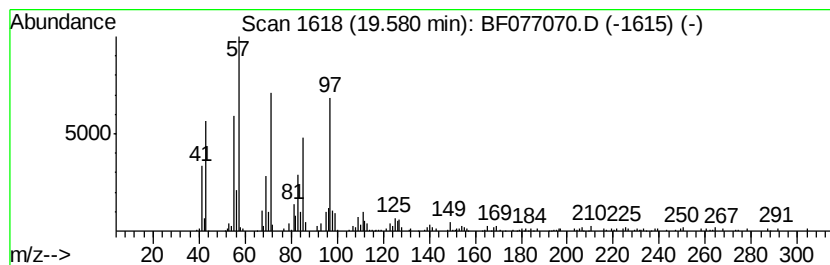
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Palmitic acid vinyl ester Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.58 | 7.97 ng | 343632 | Chrysene-d12     | 21.17 |

| Hit# | of | Tentative ID               | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------------|-----|----------|-------------|------|
| 1    | 5  | Palmitic acid vinyl ester  | 282 | C18H34O2 | 000693-38-9 | 64   |
| 2    |    | Cyclododecanol, 1-ethenyl- | 210 | C14H26O  | 006244-49-1 | 45   |
| 3    |    | Undecane                   | 156 | C11H24   | 001120-21-4 | 41   |
| 4    |    | Hexadecane                 | 226 | C16H34   | 000544-76-3 | 41   |
| 5    |    | Nonane, 5-butyl-           | 184 | C13H28   | 017312-63-9 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
Data File : BF077070.D  
Acq On : 27 Jan 2015 3:05  
Operator : TP/IZ  
Sample : G1158-06  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

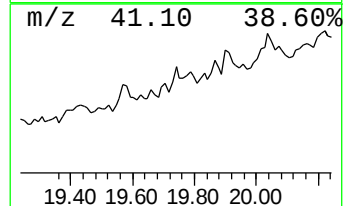
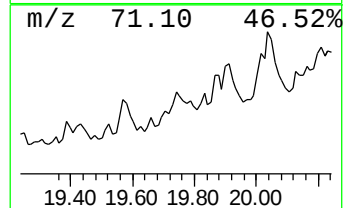
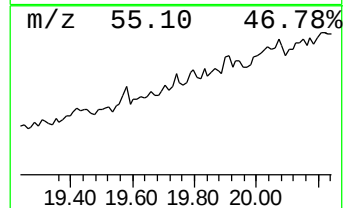
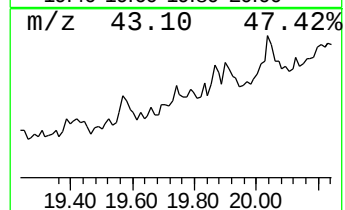
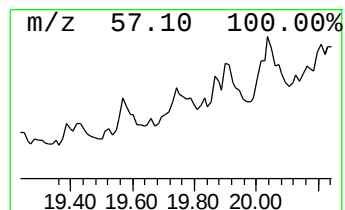
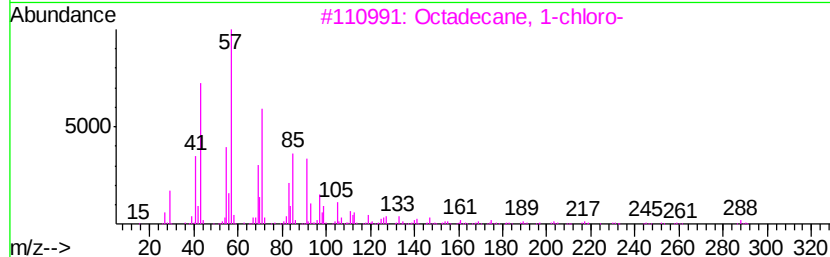
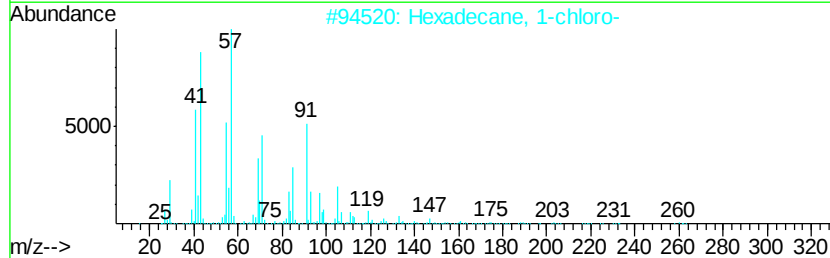
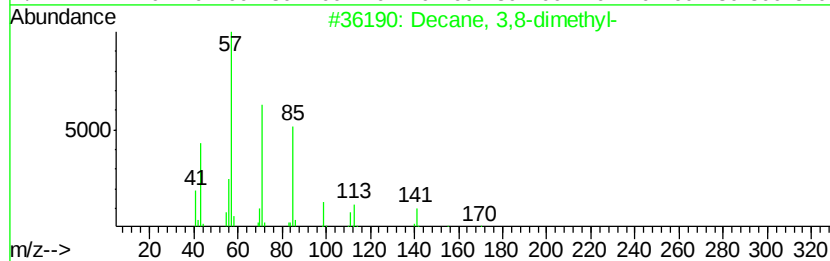
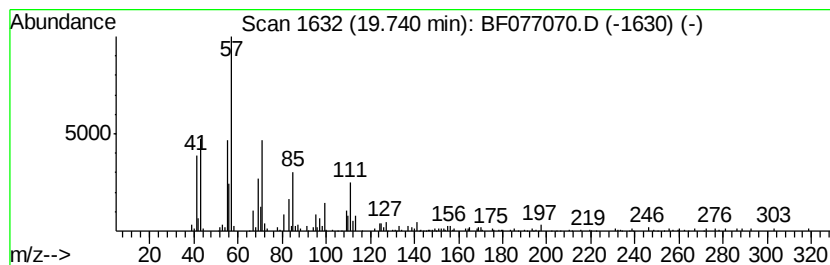
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Decane, 3,8-dimethyl- Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.74 | 6.99 ng | 301208 | Chrysene-d12     | 21.17 |

| Hit# | of | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------|-----|----------|-------------|------|
| 1    | 5  | Decane, 3,8-dimethyl-   | 170 | C12H26   | 017312-55-9 | 68   |
| 2    |    | Hexadecane, 1-chloro-   | 260 | C16H33Cl | 004860-03-1 | 68   |
| 3    |    | Octadecane, 1-chloro-   | 288 | C18H37Cl | 003386-33-2 | 64   |
| 4    |    | Undecane, 3,9-dimethyl- | 184 | C13H28   | 017301-31-4 | 59   |
| 5    |    | Tritetracontane         | 605 | C43H88   | 007098-21-7 | 53   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012615\  
 Data File : BF077070.D  
 Acq On : 27 Jan 2015 3:05  
 Operator : TP/IZ  
 Sample : G1158-06  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CC-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 3-Penten-2-one, 4... | 2.62  | 144.4   | ng    | 925462   | 1                     | 7.77  | 128183 | 20.0 |
| 2-Pentanone, 4-hy... | 3.88  | 205.6   | ng    | 1317520  | 1                     | 7.77  | 128183 | 20.0 |
| 1,3-Pentanediol, ... | 10.23 | 19.9    | ng    | 174370   | 2                     | 10.68 | 175022 | 20.0 |
| Ethanol, 2-(2-but... | 10.73 | 9.7     | ng    | 84837    | 2                     | 10.68 | 175022 | 20.0 |
| Bicyclo[4.2.0]oct... | 12.61 | 5.0     | ng    | 43989    | 2                     | 10.68 | 175022 | 20.0 |
| Ethanol, 2-[2-(2-... | 14.57 | 13.2    | ng    | 129875   | 3                     | 14.81 | 196251 | 20.0 |
| Pentadecane, 2,6,... | 17.03 | 5.4     | ng    | 63659    | 4                     | 17.64 | 235127 | 20.0 |
| 3,6,9,12,15-Penta... | 17.29 | 5.5     | ng    | 65284    | 4                     | 17.64 | 235127 | 20.0 |
| unknown17.52         | 17.52 | 7.3     | ng    | 85683    | 4                     | 17.64 | 235127 | 20.0 |
| Tridecane, 3-methyl- | 17.74 | 5.3     | ng    | 62580    | 4                     | 17.64 | 235127 | 20.0 |
| unknown18.31         | 18.31 | 6.8     | ng    | 79523    | 4                     | 17.64 | 235127 | 20.0 |
| unknown18.72         | 18.72 | 10.5    | ng    | 123888   | 4                     | 17.64 | 235127 | 20.0 |
| Tetratetracontane    | 18.87 | 8.8     | ng    | 103447   | 4                     | 17.64 | 235127 | 20.0 |
| unknown18.92         | 18.92 | 8.0     | ng    | 93475    | 4                     | 17.64 | 235127 | 20.0 |
| Nonadecane, 2-met... | 19.25 | 22.7    | ng    | 267124   | 4                     | 17.64 | 235127 | 20.0 |
| Heptacosane          | 19.39 | 13.6    | ng    | 160090   | 4                     | 17.64 | 235127 | 20.0 |
| Palmitic acid vin... | 19.58 | 8.0     | ng    | 343632   | 5                     | 21.17 | 862341 | 20.0 |
| Decane, 3,8-dimet... | 19.74 | 7.0     | ng    | 301208   | 5                     | 21.17 | 862341 | 20.0 |