

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
 Data File : BF087071.D  
 Acq On : 15 May 2016 15:57  
 Operator : UM/SJ  
 Sample : H3038-03  
 Misc :  
 ALS Vial : 90 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PITT-1-N-WEST

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-BF050916.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         | 1.735       | 12            | 13          | 56           | rVB      | 3048612        | 5932344       | 100.00%         | 12.065%       |
| 2         | 4.741       | 274           | 276         | 285          | rBV      | 520155         | 858562        | 14.47%          | 1.746%        |
| 3         | 5.141       | 307           | 311         | 315          | rBV2     | 33846          | 85578         | 1.44%           | 0.174%        |
| 4         | 5.210       | 315           | 317         | 325          | rBV      | 3397981        | 3609422       | 60.84%          | 7.341%        |
| 5         | 5.484       | 339           | 341         | 344          | rVB      | 68457          | 68591         | 1.16%           | 0.140%        |
| 6         | 5.587       | 347           | 350         | 353          | rBV3     | 51834          | 135901        | 2.29%           | 0.276%        |
| 7         | 5.736       | 360           | 363         | 365          | rVB      | 61069          | 83600         | 1.41%           | 0.170%        |
| 8         | 5.793       | 365           | 368         | 370          | rBV2     | 51941          | 90131         | 1.52%           | 0.183%        |
| 9         | 5.839       | 370           | 372         | 375          | rVB      | 166340         | 222627        | 3.75%           | 0.453%        |
| 10        | 5.896       | 375           | 377         | 378          | rBV      | 80016          | 82894         | 1.40%           | 0.169%        |
| 11        | 6.033       | 386           | 389         | 393          | rBV4     | 56128          | 147441        | 2.49%           | 0.300%        |
| 12        | 6.101       | 393           | 395         | 397          | rBV2     | 48728          | 103133        | 1.74%           | 0.210%        |
| 13        | 6.136       | 397           | 398         | 402          | rVB      | 83307          | 106558        | 1.80%           | 0.217%        |
| 14        | 6.204       | 402           | 404         | 406          | rBV2     | 55664          | 114571        | 1.93%           | 0.233%        |
| 15        | 6.284       | 409           | 411         | 414          | rVV      | 2683283        | 3601226       | 60.70%          | 7.324%        |
| 16        | 6.387       | 418           | 420         | 423          | rVV      | 3755938        | 3544252       | 59.74%          | 7.208%        |
| 17        | 6.456       | 423           | 426         | 428          | rVB2     | 236602         | 321938        | 5.43%           | 0.655%        |
| 18        | 6.547       | 431           | 434         | 436          | rBV3     | 45811          | 93938         | 1.58%           | 0.191%        |
| 19        | 6.616       | 438           | 440         | 443          | rVB2     | 765770         | 1099568       | 18.54%          | 2.236%        |
| 20        | 6.673       | 443           | 445         | 446          | rBV      | 76152          | 107494        | 1.81%           | 0.219%        |
| 21        | 6.764       | 451           | 453         | 456          | rVV      | 2553772        | 2786846       | 46.98%          | 5.668%        |
| 22        | 6.844       | 457           | 460         | 461          | rBV2     | 30997          | 67232         | 1.13%           | 0.137%        |
| 23        | 6.890       | 461           | 464         | 466          | rVB4     | 101768         | 159849        | 2.69%           | 0.325%        |
| 24        | 6.959       | 469           | 470         | 472          | rBV      | 105735         | 120878        | 2.04%           | 0.246%        |
| 25        | 7.004       | 472           | 474         | 477          | rBV2     | 61803          | 106719        | 1.80%           | 0.217%        |
| 26        | 7.153       | 484           | 487         | 488          | rBV3     | 44995          | 96199         | 1.62%           | 0.196%        |
| 27        | 7.187       | 488           | 490         | 492          | rVV      | 2461307        | 2408807       | 40.60%          | 4.899%        |
| 28        | 7.222       | 492           | 493         | 495          | rVV      | 312363         | 304474        | 5.13%           | 0.619%        |
| 29        | 7.324       | 499           | 502         | 505          | rBV2     | 84485          | 185804        | 3.13%           | 0.378%        |
| 30        | 7.382       | 505           | 507         | 508          | rVV2     | 52995          | 75095         | 1.27%           | 0.153%        |
| 31        | 7.416       | 508           | 510         | 512          | rVB      | 105823         | 127027        | 2.14%           | 0.258%        |
| 32        | 7.530       | 517           | 520         | 524          | rBV4     | 50021          | 94395         | 1.59%           | 0.192%        |
| 33        | 7.644       | 528           | 530         | 532          | rVV3     | 35082          | 72111         | 1.22%           | 0.147%        |
| 34        | 7.896       | 550           | 552         | 555          | rBV      | 1038834        | 1209020       | 20.38%          | 2.459%        |

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Misc :  
ALS Vial : 90 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

Integration Parameters: rteint.p  
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Sampling : 1  
Start Thrs: 0.2  
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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-BF050916.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 8.330  | 588  | 590  | 595  | rVB2 | 39118   | 60801   | 1.02%  | 0.124% |
| 36 | 8.707  | 621  | 623  | 628  | rBV2 | 36881   | 71182   | 1.20%  | 0.145% |
| 37 | 8.982  | 644  | 647  | 649  | rBV  | 4173927 | 3825979 | 64.49% | 7.781% |
| 38 | 9.313  | 674  | 676  | 677  | rBV2 | 56052   | 69573   | 1.17%  | 0.141% |
| 39 | 9.382  | 680  | 682  | 684  | rBV  | 472377  | 403799  | 6.81%  | 0.821% |
| 40 | 9.587  | 699  | 700  | 703  | rBV  | 84341   | 137910  | 2.32%  | 0.280% |
| 41 | 9.645  | 703  | 705  | 707  | rVV  | 1032907 | 1084727 | 18.28% | 2.206% |
| 42 | 9.679  | 707  | 708  | 713  | rVB  | 69351   | 64978   | 1.10%  | 0.132% |
| 43 | 9.827  | 717  | 721  | 722  | rBV3 | 33203   | 76062   | 1.28%  | 0.155% |
| 44 | 9.919  | 725  | 729  | 730  | rVB2 | 37910   | 80842   | 1.36%  | 0.164% |
| 45 | 9.965  | 730  | 733  | 735  | rBV3 | 41148   | 75379   | 1.27%  | 0.153% |
| 46 | 10.056 | 738  | 741  | 742  | rBV3 | 38359   | 70654   | 1.19%  | 0.144% |
| 47 | 10.090 | 742  | 744  | 746  | rVB  | 206676  | 174359  | 2.94%  | 0.355% |
| 48 | 10.193 | 751  | 753  | 756  | rVB2 | 84191   | 106631  | 1.80%  | 0.217% |
| 49 | 10.308 | 761  | 763  | 766  | rBV2 | 149511  | 201094  | 3.39%  | 0.409% |
| 50 | 10.433 | 772  | 774  | 777  | rBV2 | 1371714 | 1942642 | 32.75% | 3.951% |
| 51 | 10.559 | 783  | 785  | 790  | rBV  | 257157  | 446907  | 7.53%  | 0.909% |
| 52 | 11.005 | 823  | 824  | 826  | rBV  | 138054  | 199148  | 3.36%  | 0.405% |
| 53 | 11.039 | 826  | 827  | 828  | rVB  | 143413  | 100248  | 1.69%  | 0.204% |
| 54 | 11.130 | 832  | 835  | 839  | rBV2 | 844355  | 1351216 | 22.78% | 2.748% |
| 55 | 11.199 | 839  | 841  | 843  | rBV  | 122484  | 169618  | 2.86%  | 0.345% |
| 56 | 11.691 | 882  | 884  | 886  | rBV  | 704852  | 875290  | 14.75% | 1.780% |
| 57 | 12.342 | 939  | 941  | 944  | rVB  | 412100  | 571261  | 9.63%  | 1.162% |
| 58 | 12.468 | 950  | 952  | 954  | rBV  | 127512  | 159541  | 2.69%  | 0.324% |
| 59 | 12.571 | 958  | 961  | 962  | rBV2 | 379974  | 590929  | 9.96%  | 1.202% |
| 60 | 12.719 | 971  | 974  | 976  | rBV  | 2150972 | 2517431 | 42.44% | 5.120% |
| 61 | 13.622 | 1051 | 1053 | 1057 | rVB3 | 309377  | 439167  | 7.40%  | 0.893% |
| 62 | 13.759 | 1063 | 1065 | 1069 | rBV2 | 1275103 | 1721150 | 29.01% | 3.500% |
| 63 | 14.537 | 1131 | 1133 | 1139 | rBV  | 370710  | 736203  | 12.41% | 1.497% |
| 64 | 14.834 | 1157 | 1159 | 1160 | rVB  | 292433  | 312454  | 5.27%  | 0.635% |
| 65 | 15.131 | 1183 | 1185 | 1191 | rVB2 | 636796  | 1242888 | 20.95% | 2.528% |
| 66 | 15.519 | 1217 | 1219 | 1221 | rBV  | 301351  | 429010  | 7.23%  | 0.873% |
| 67 | 16.068 | 1264 | 1267 | 1274 | rVB  | 274624  | 635767  | 10.72% | 1.293% |

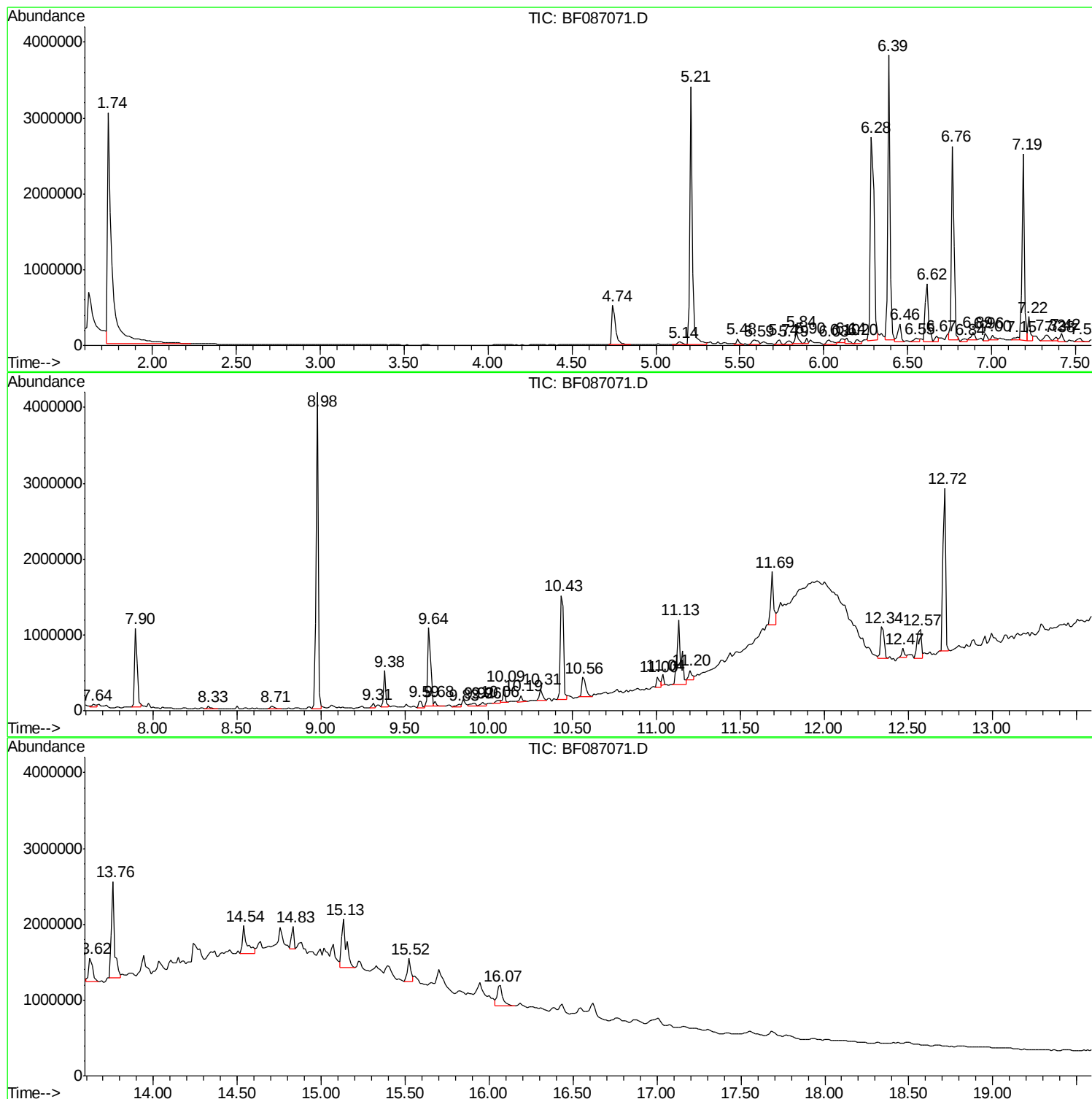
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Misc :  
ALS Vial : 90 Sample Multiplier: 1

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BNA\_F  
ClientSampleID :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
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Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

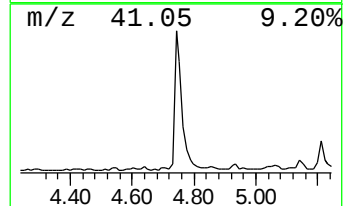
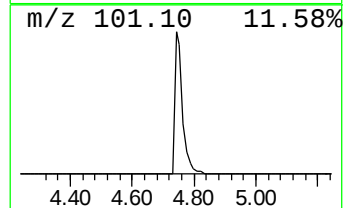
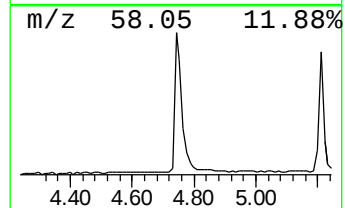
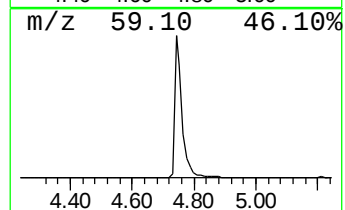
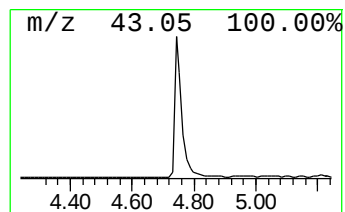
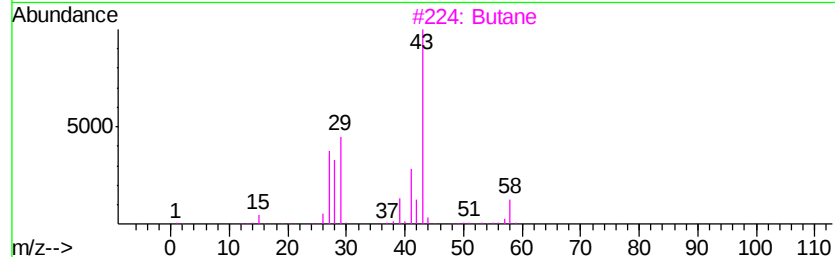
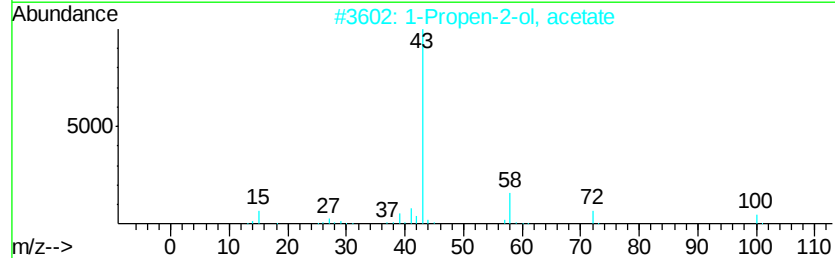
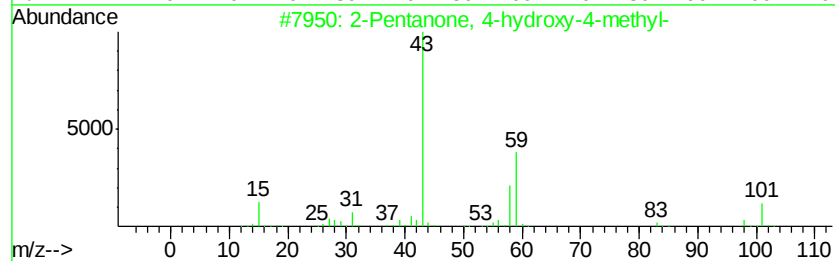
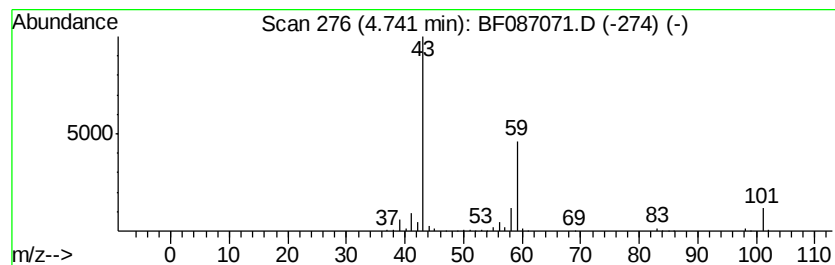
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.74 | 15.62 ng | 858562 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56   |
| 2    |    |   | 1-Propen-2-ol, acetate           | 100 | C5H8O2  | 000108-22-5 | 10   |
| 3    |    |   | Butane                           | 58  | C4H10   | 000106-97-8 | 9    |
| 4    |    |   | Diacetamide                      | 101 | C4H7NO2 | 000625-77-4 | 9    |
| 5    |    |   | 2-Propanone, 1-(1-methylethoxy)- | 116 | C6H12O2 | 042781-12-4 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

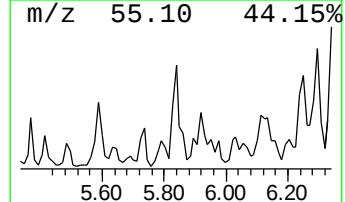
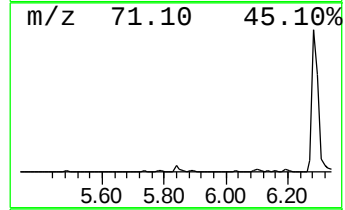
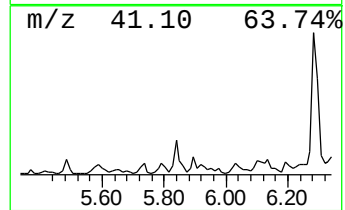
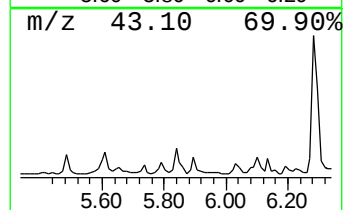
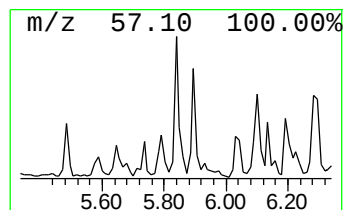
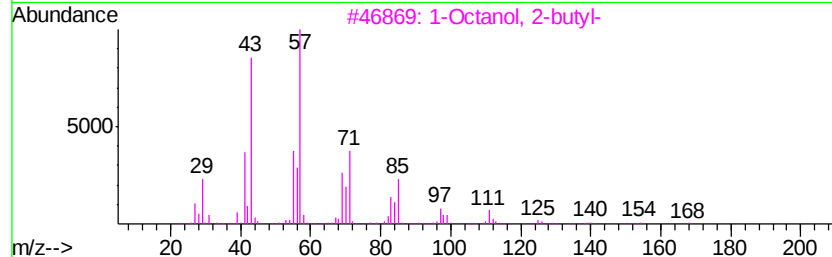
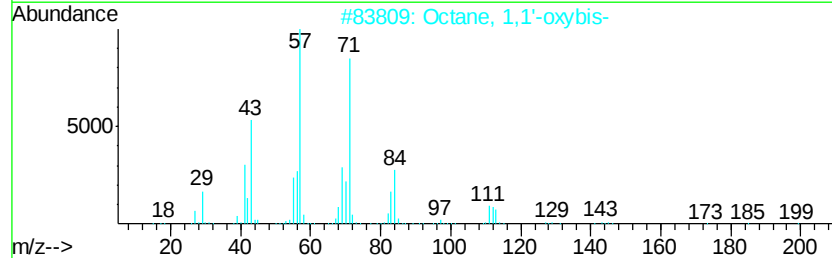
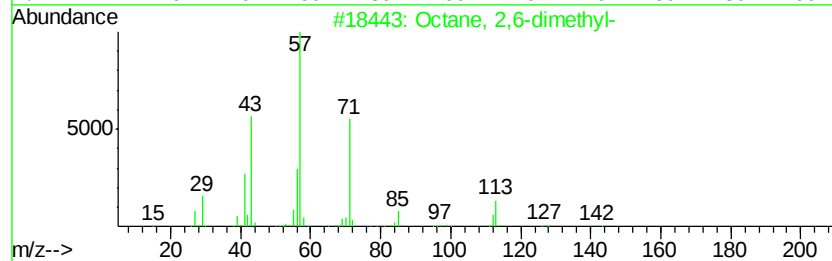
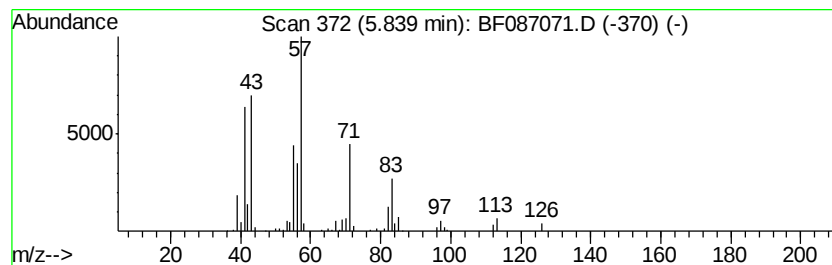
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Octane, 2,6-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.84 | 4.05 ng | 222627 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,6-dimethyl-    | 142 | C10H22  | 002051-30-1 | 59   |
| 2    |    | Octane, 1,1'-oxybis-     | 242 | C16H34O | 000629-82-3 | 53   |
| 3    |    | 1-Octanol, 2-butyl-      | 186 | C12H26O | 003913-02-8 | 53   |
| 4    |    | Nonane, 3-methyl-        | 142 | C10H22  | 005911-04-6 | 53   |
| 5    |    | Decane, 2,6,7-trimethyl- | 184 | C13H28  | 062108-25-2 | 50   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

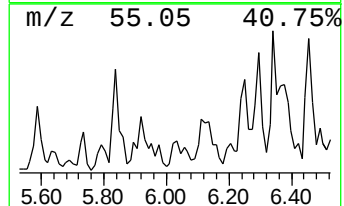
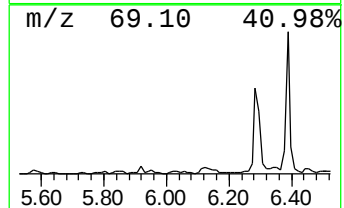
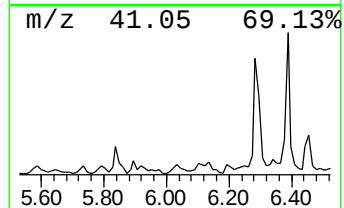
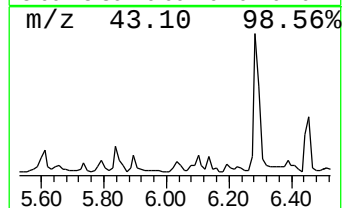
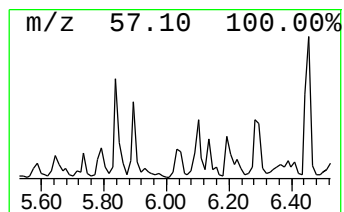
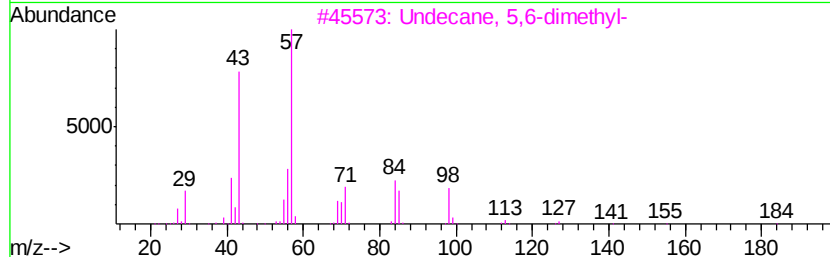
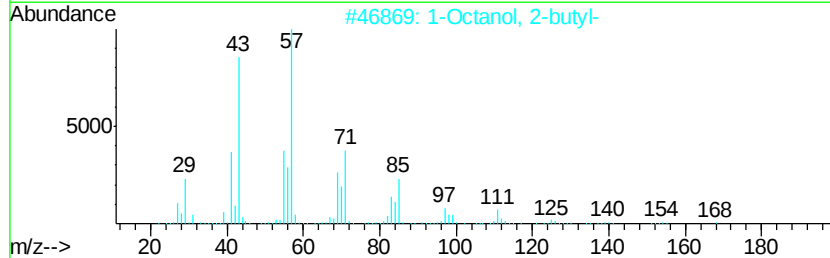
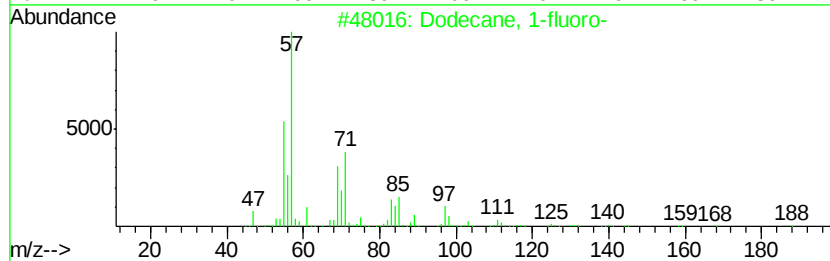
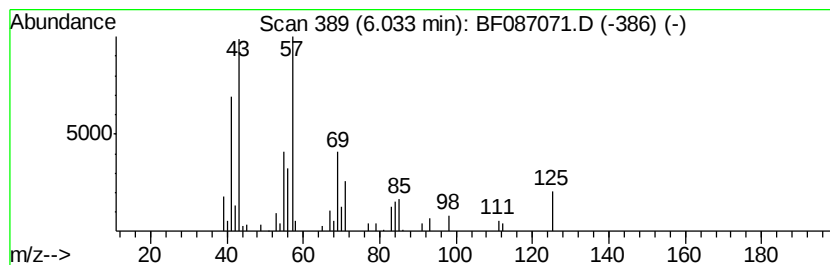
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Dodecane, 1-fluoro- Concentration Rank 19

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.03 | 2.68 ng | 147441 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 1-fluoro-     | 188 | C12H25F | 000334-68-9 | 53   |
| 2    |    | 1-Octanol, 2-butyl-     | 186 | C12H26O | 003913-02-8 | 50   |
| 3    |    | Undecane, 5,6-dimethyl- | 184 | C13H28  | 017615-91-7 | 47   |
| 4    |    | Hexane, 2,4-dimethyl-   | 114 | C8H18   | 000589-43-5 | 43   |
| 5    |    | Decane                  | 142 | C10H22  | 000124-18-5 | 43   |



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PITT-1-N-WEST

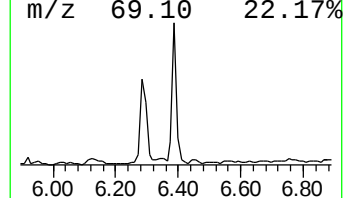
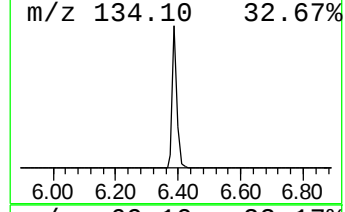
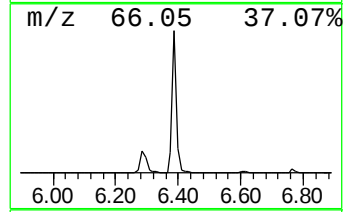
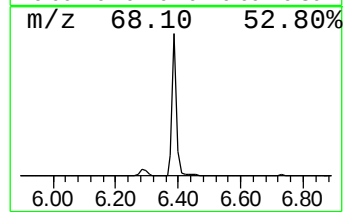
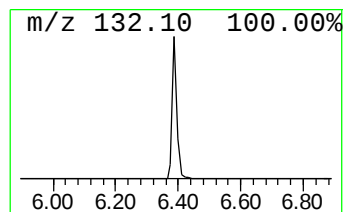
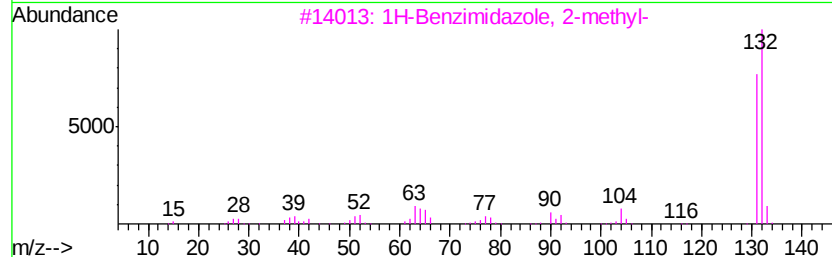
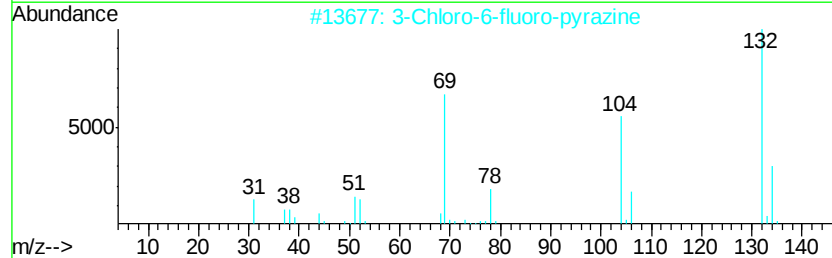
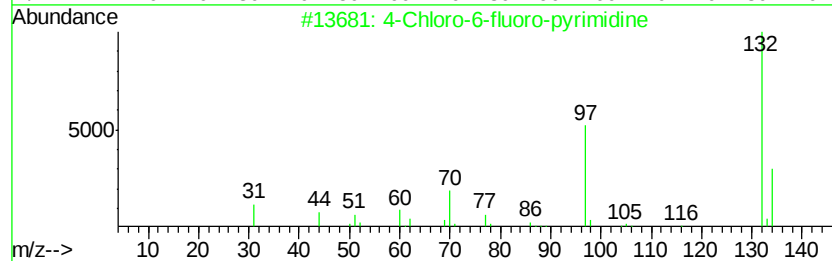
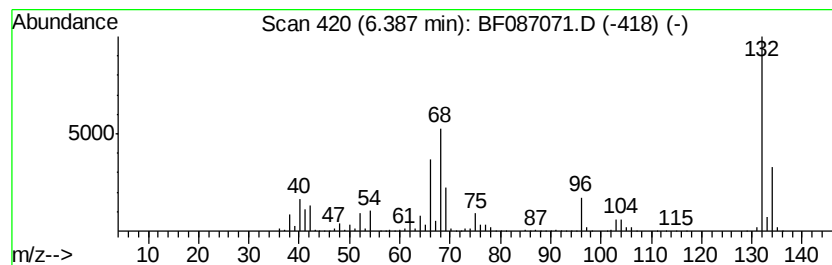
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 unknown6.39 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.39 | 64.47 ng | 3544250 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# | of | Tentative ID                       | MW  | MolForm   | CAS#         | Qual |
|------|----|------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 4-Chloro-6-fluoro-pyrimidine       | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine         | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 3    |    | 1H-Benzimidazole, 2-methyl-        | 132 | C8H8N2    | 000615-15-6  | 22   |
| 4    |    | Tranylcypromine-propionyl          | 189 | C12H15NO  | 1000123-86-3 | 22   |
| 5    |    | Pyrazolo(2,3-a)pyridine, 7-methyl- | 132 | C8H8N2    | 034760-58-2  | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

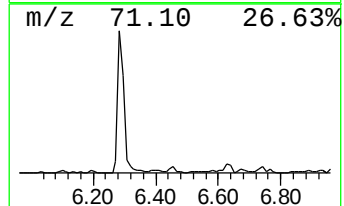
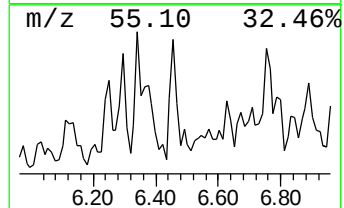
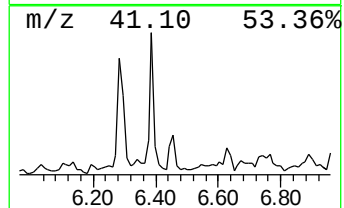
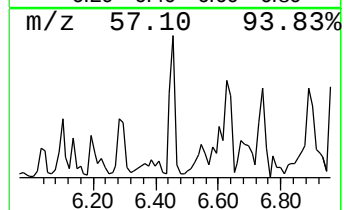
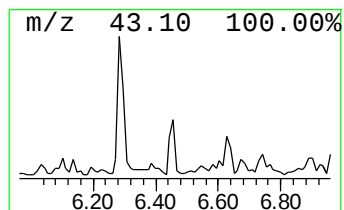
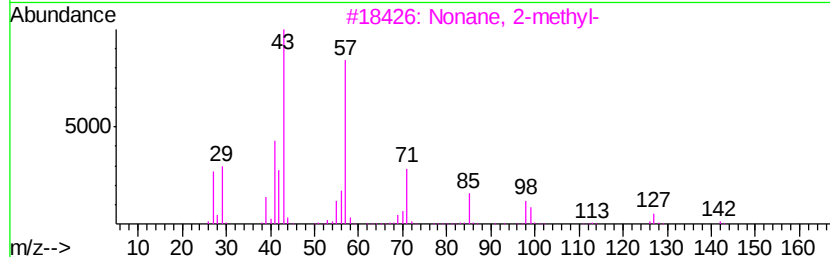
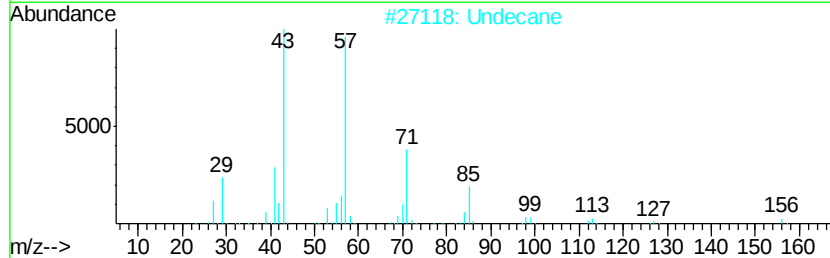
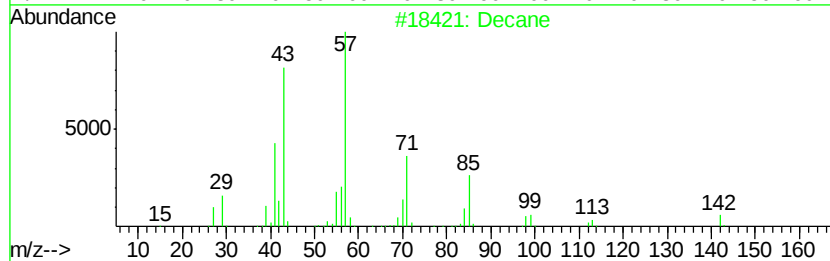
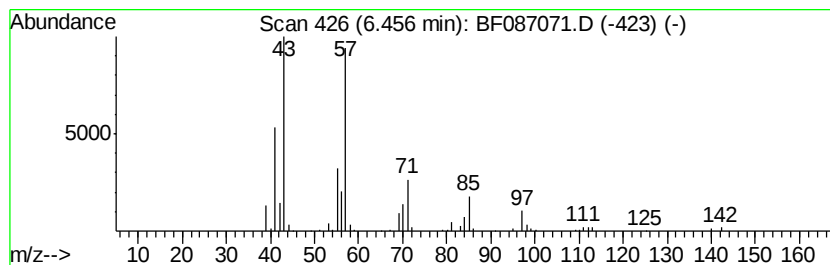
Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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 6 Decane Concentration Rank 10

| R.T.      | EstConc                 | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------|--------|------------------------|-------------|------|
| 6.46      | 5.86 ng                 | 321938 | 1,4-Dichlorobenzene-d4 | 6.62        |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm                | CAS#        | Qual |
| 1         | Decane                  | 142    | C10H22                 | 000124-18-5 | 90   |
| 2         | Undecane                | 156    | C11H24                 | 001120-21-4 | 72   |
| 3         | Nonane, 2-methyl-       | 142    | C10H22                 | 000871-83-0 | 64   |
| 4         | Octane                  | 114    | C8H18                  | 000111-65-9 | 64   |
| 5         | Undecane, 2,3-dimethyl- | 184    | C13H28                 | 017312-77-5 | 53   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

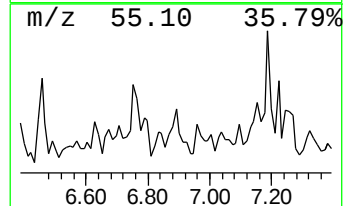
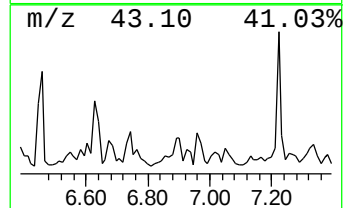
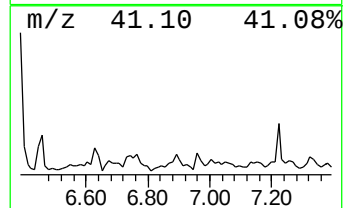
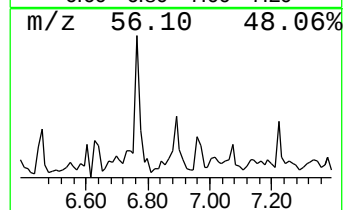
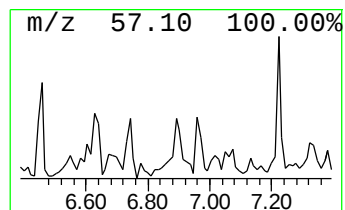
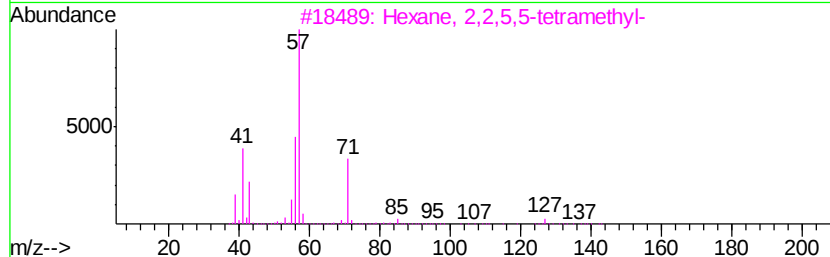
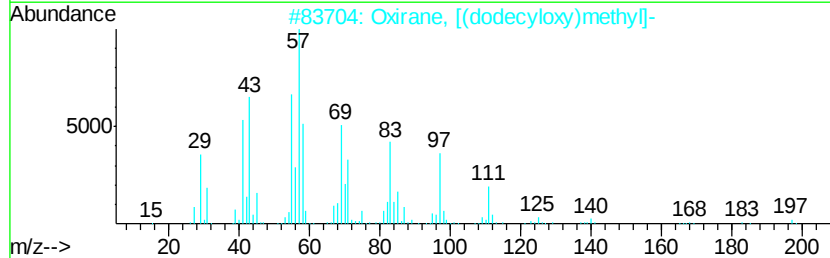
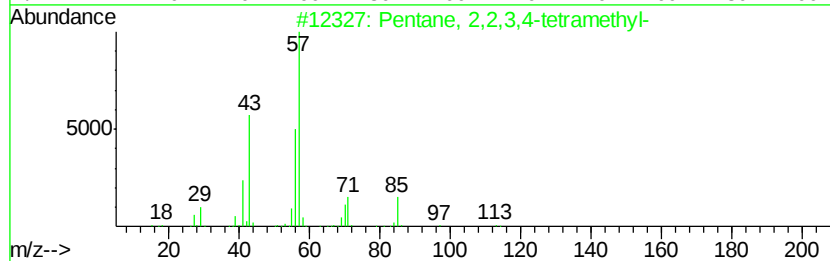
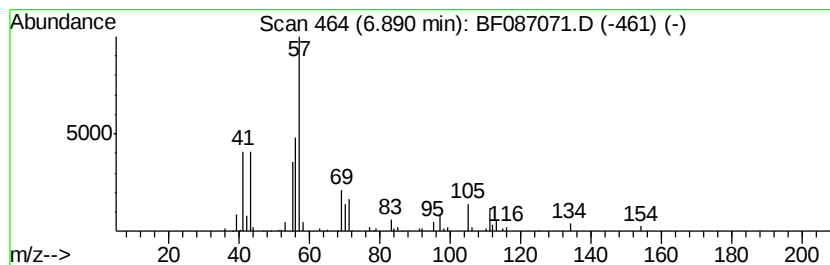
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown6.89 Concentration Rank 18

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.89 | 2.91 ng | 159849 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# | of | Tentative ID                   | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------|-----|----------|-------------|------|
| 1    | 5  | Pentane, 2,2,3,4-tetramethyl-  | 128 | C9H20    | 001186-53-4 | 47   |
| 2    |    | Oxirane, [(dodecyloxy)methyl]- | 242 | C15H30O2 | 002461-18-9 | 38   |
| 3    |    | Hexane, 2,2,5,5-tetramethyl-   | 142 | C10H22   | 001071-81-4 | 38   |
| 4    |    | Pentane, 2,2,4,4-tetramethyl-  | 128 | C9H20    | 001070-87-7 | 37   |
| 5    |    | Heptane, 2,2-dimethyl-         | 128 | C9H20    | 001071-26-7 | 37   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

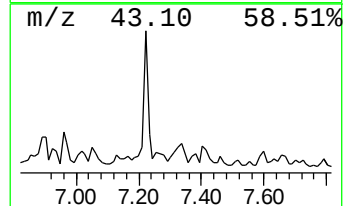
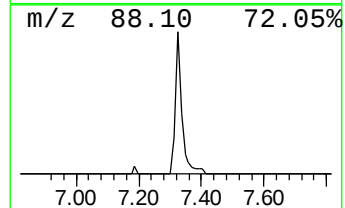
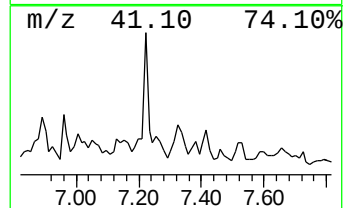
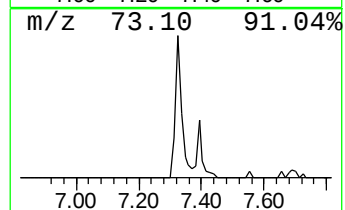
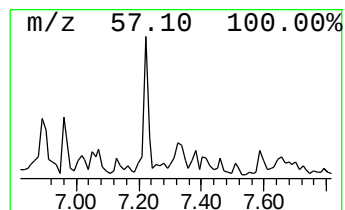
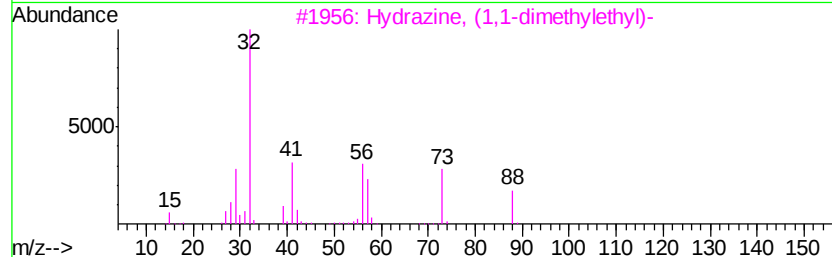
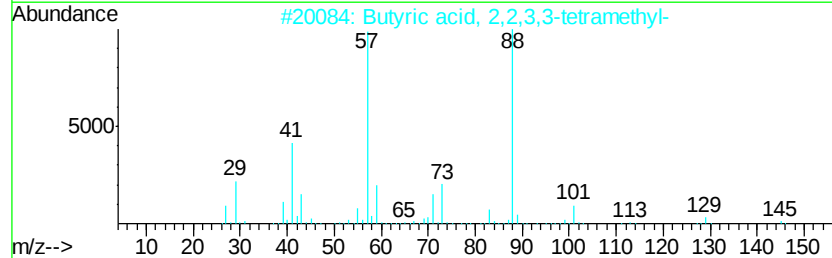
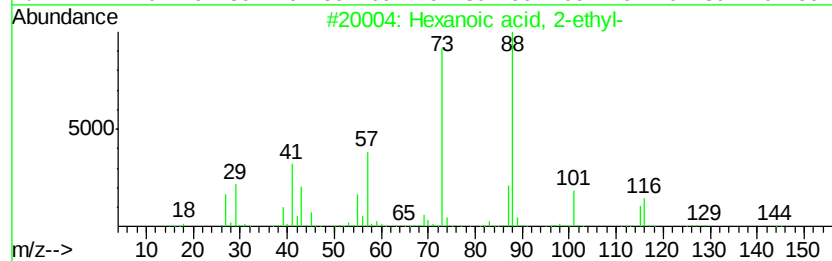
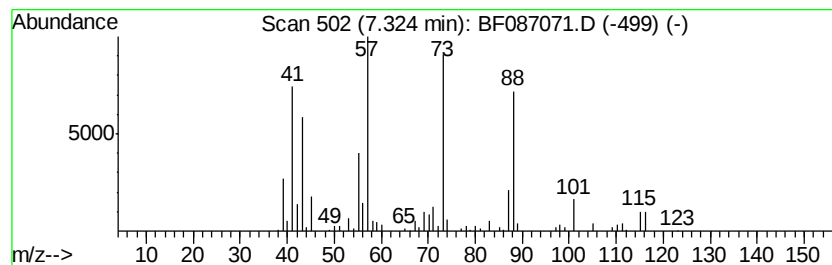
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Hexanoic acid, 2-ethyl- Concentration Rank 16

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 7.32 | 3.07 ng | 185804 | Naphthalene-d8   | 7.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Hexanoic acid, 2-ethyl-             | 144 | C8H16O2   | 000149-57-5 | 64   |
| 2    |    | Butyric acid, 2,2,3,3-tetramethyl-  | 144 | C8H16O2   | 030407-41-1 | 43   |
| 3    |    | Hydrazine, (1,1-dimethylethyl)-     | 88  | C4H12N2   | 032064-67-8 | 43   |
| 4    |    | Butanoic acid, 2-methyl-, methyl... | 116 | C6H12O2   | 000868-57-5 | 32   |
| 5    |    | Hexanamide, 6-(heptyloxy)-          | 229 | C13H27NO2 | 055191-08-7 | 32   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

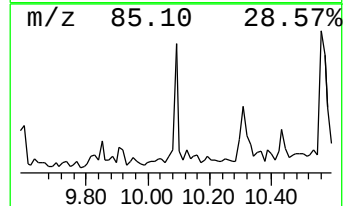
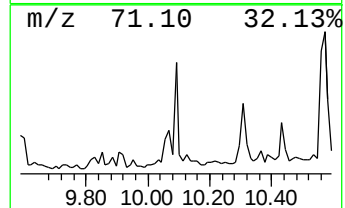
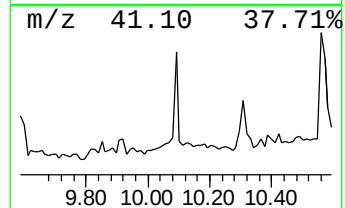
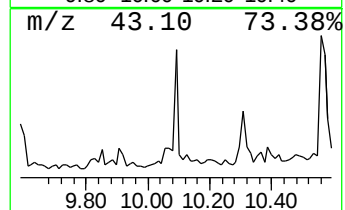
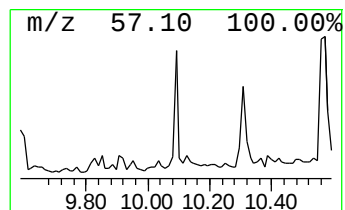
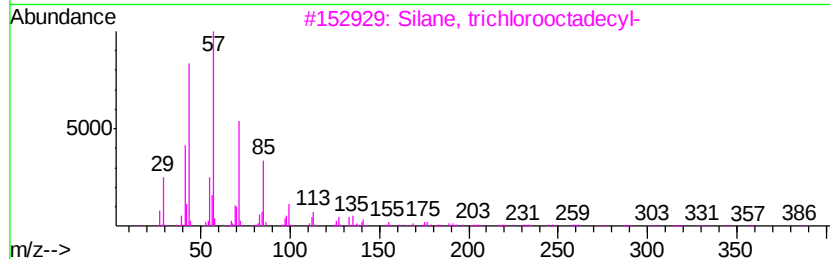
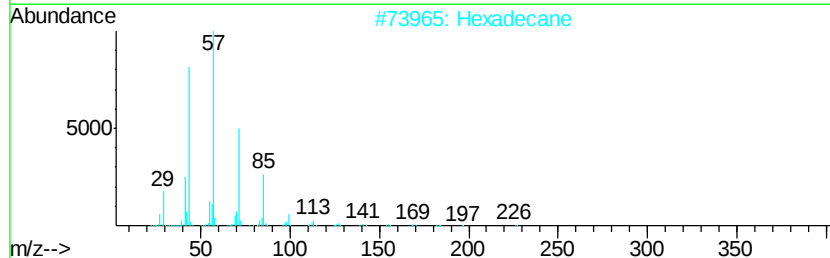
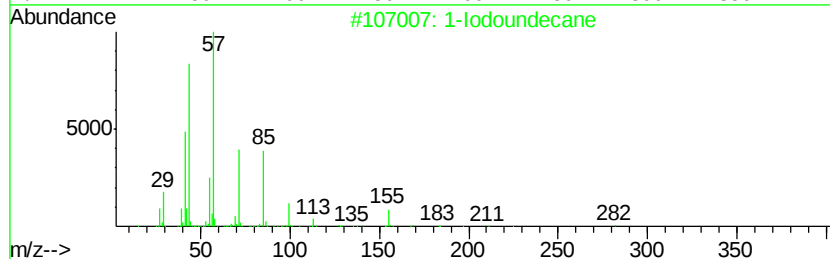
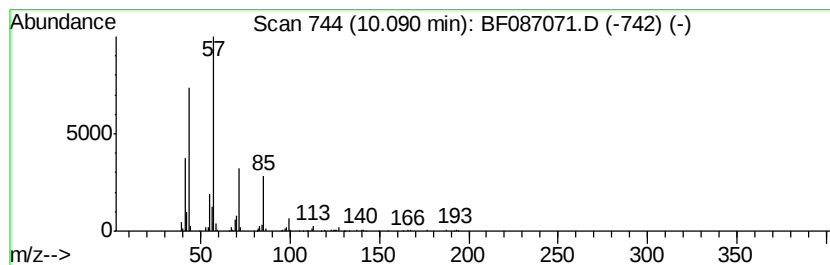
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ClientSampleId :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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 1-Iodoundecane Concentration Rank 15

| R.T.    | EstConc                      | Area            | Relative to ISTD | R.T.      |
|---------|------------------------------|-----------------|------------------|-----------|
| 10.09   | 3.21 ng                      | 174359          | Acenaphthene-d10 | 9.64      |
| Hit# of | 5                            | Tentative ID    | MW MolForm       | CAS# Qual |
| 1       | 1-Iodoundecane               | 282 C11H23I     | 004282-44-4      | 72        |
| 2       | Hexadecane                   | 226 C16H34      | 000544-76-3      | 64        |
| 3       | Silane, trichlorooctadecyl-  | 386 C18H37Cl3Si | 000112-04-9      | 59        |
| 4       | Dodecane, 2-methyl-6-propyl- | 226 C16H34      | 055045-08-4      | 59        |
| 5       | Tridecane, 7-propyl-         | 226 C16H34      | 055045-09-5      | 59        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

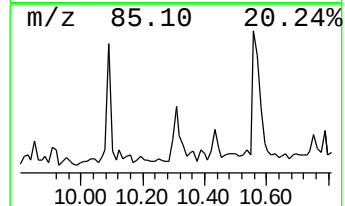
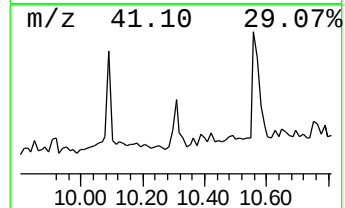
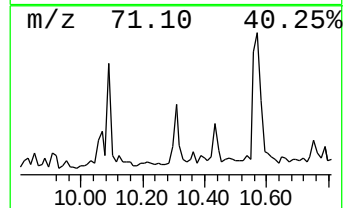
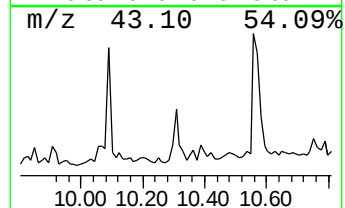
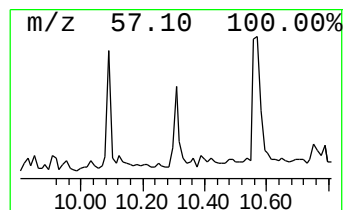
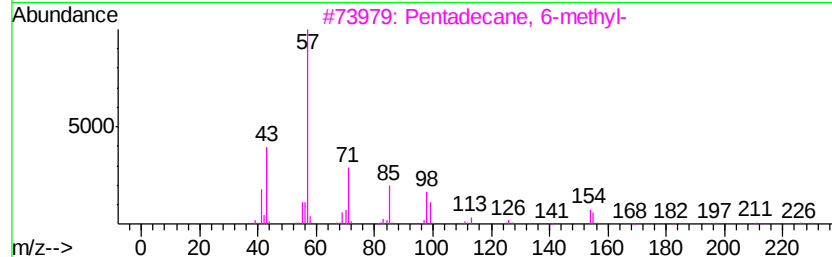
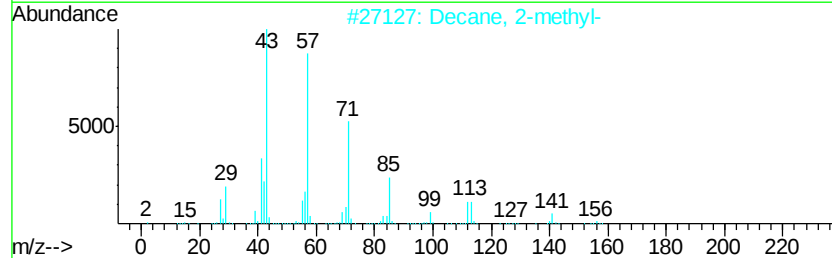
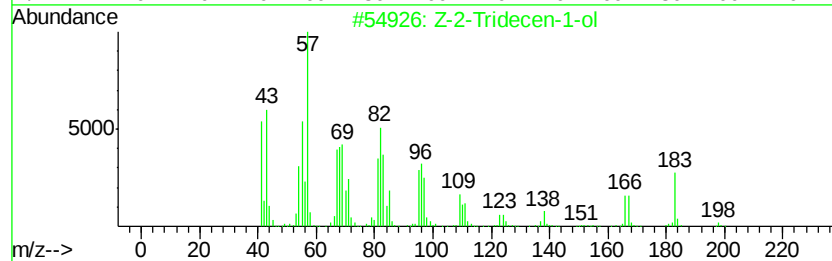
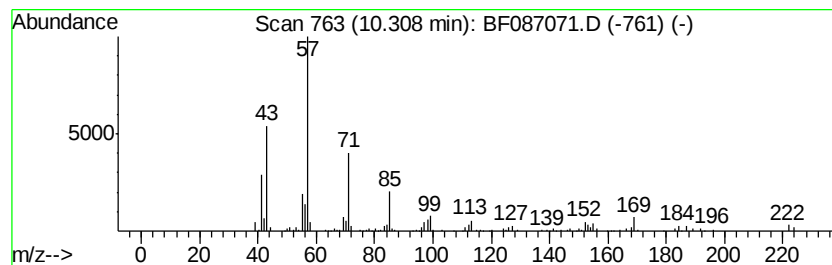
Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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 Z-2-Tridecen-1-ol Concentration Rank 14

| R.T.      | EstConc                | Area   | Relative to ISTD |              | R.T. |
|-----------|------------------------|--------|------------------|--------------|------|
| 10.31     | 3.71 ng                | 201094 | Acenaphthene-d10 |              | 9.64 |
| Hit# of 5 | Tentative ID           | MW     | MolForm          | CAS#         | Qual |
| 1         | Z-2-Tridecen-1-ol      | 198    | C13H26O          | 1000130-75-8 | 80   |
| 2         | Decane, 2-methyl-      | 156    | C11H24           | 006975-98-0  | 72   |
| 3         | Pentadecane, 6-methyl- | 226    | C16H34           | 010105-38-1  | 64   |
| 4         | Eicosane               | 282    | C20H42           | 000112-95-8  | 58   |
| 5         | Decane, 3,6-dimethyl-  | 170    | C12H26           | 017312-53-7  | 58   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

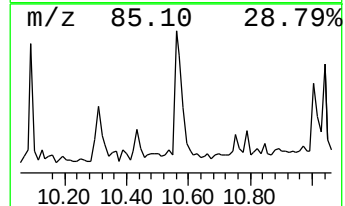
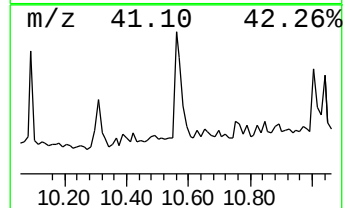
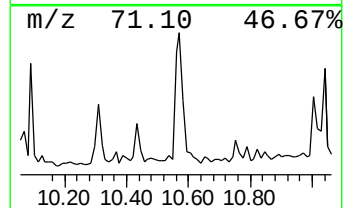
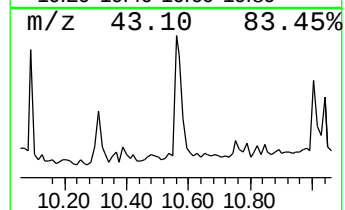
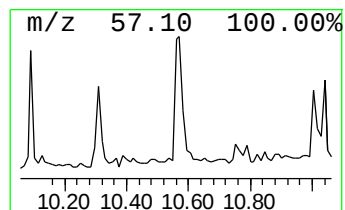
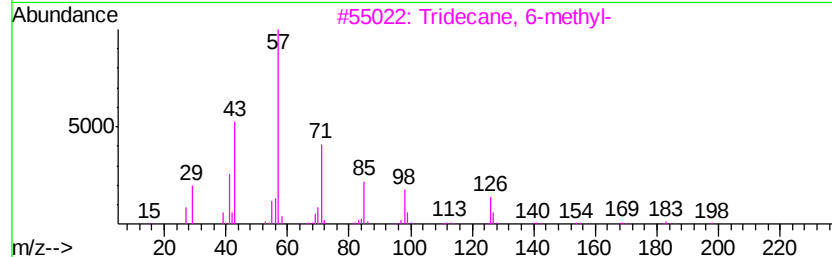
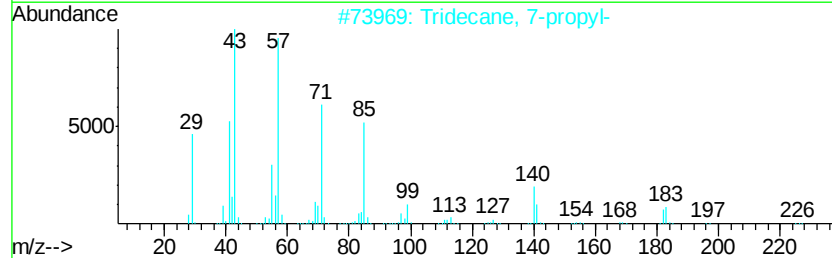
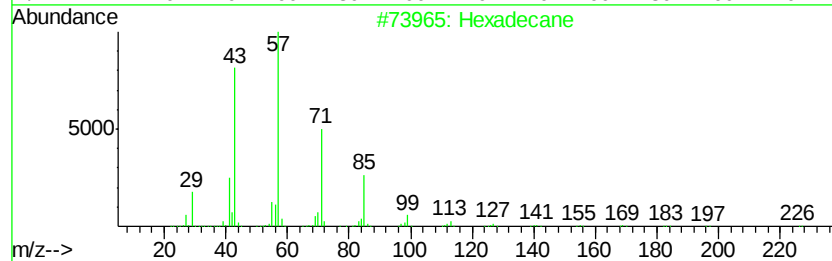
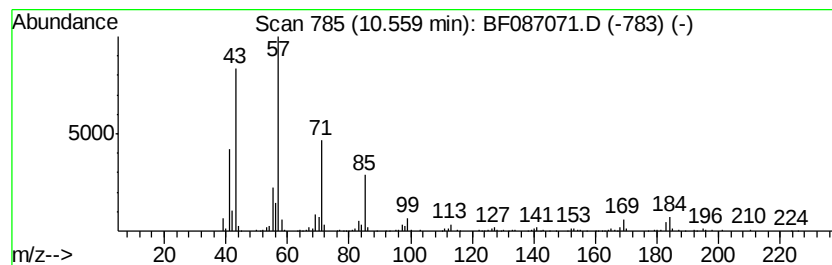
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ClientSampleId :  
PITT-1-N-WEST

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 13 Hexadecane Concentration Rank 9

| R.T.      | EstConc               | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------|--------|------------------|-------------|-------|
| 10.56     | 6.61 ng               | 446907 | Phenanthrene-d10 |             | 11.13 |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual  |
| 1         | Hexadecane            | 226    | C16H34           | 000544-76-3 | 96    |
| 2         | Tridecane, 7-propyl-  | 226    | C16H34           | 055045-09-5 | 89    |
| 3         | Tridecane, 6-methyl-  | 198    | C14H30           | 013287-21-3 | 81    |
| 4         | Octadecane            | 254    | C18H38           | 000593-45-3 | 80    |
| 5         | Decane, 3,6-dimethyl- | 170    | C12H26           | 017312-53-7 | 76    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

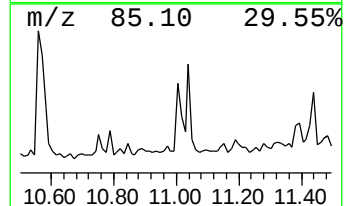
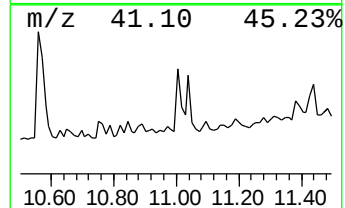
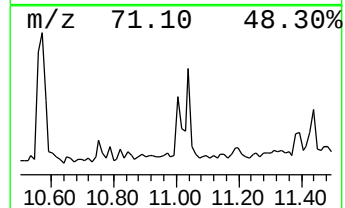
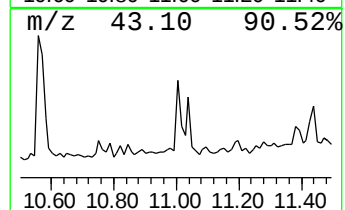
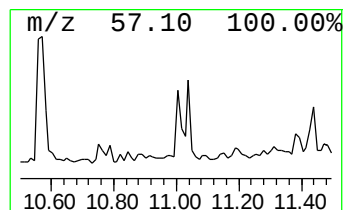
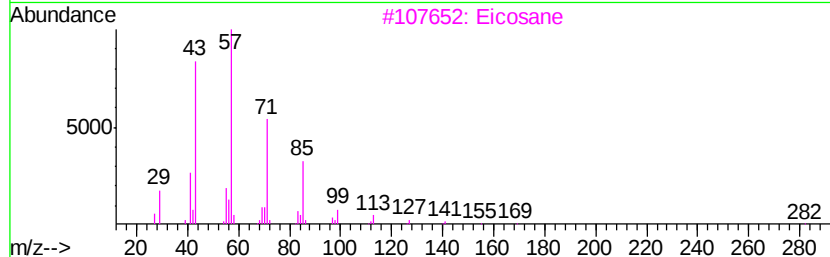
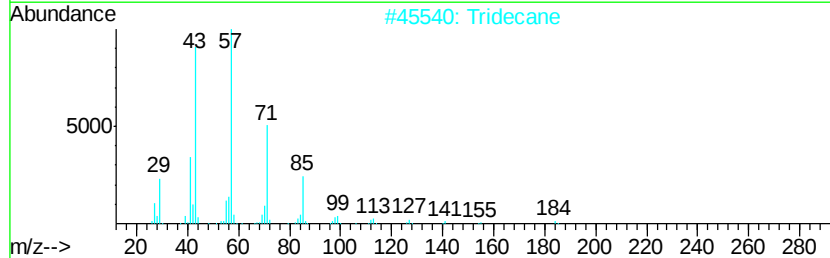
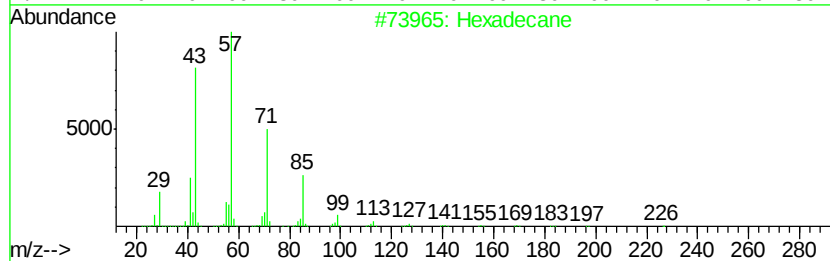
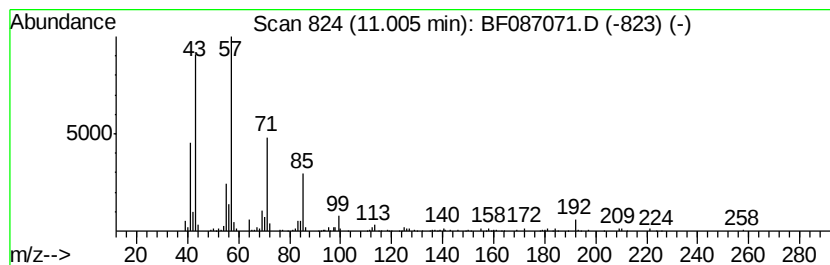
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ClientSampleId :  
PITT-1-N-WEST

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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 14 Tridecane Concentration Rank 17

| R.T.      | EstConc              | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------|--------|------------------|-------------|------|
| 11.00     | 2.95 ng              | 199148 | Phenanthrene-d10 | 11.13       |      |
| Hit# of 5 | Tentative ID         | MW     | MolForm          | CAS#        | Qual |
| 1         | Hexadecane           | 226    | C16H34           | 000544-76-3 | 96   |
| 2         | Tridecane            | 184    | C13H28           | 000629-50-5 | 87   |
| 3         | Eicosane             | 282    | C20H42           | 000112-95-8 | 72   |
| 4         | Tetradecane, 1-iodo- | 324    | C14H29I          | 019218-94-1 | 72   |
| 5         | Tridecane, 6-propyl- | 226    | C16H34           | 055045-10-8 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

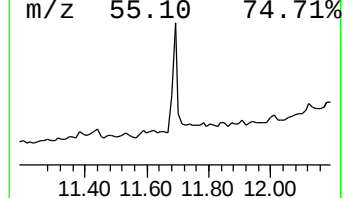
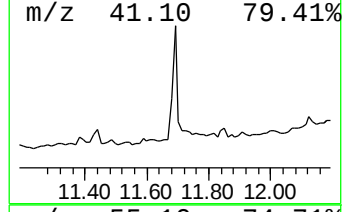
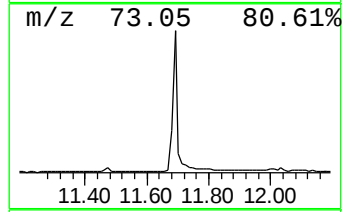
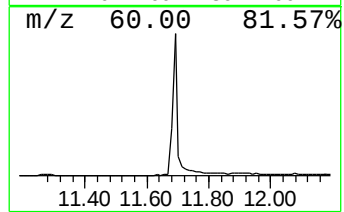
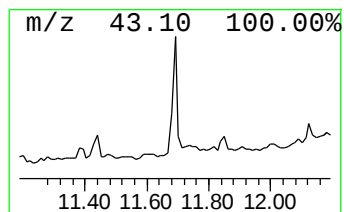
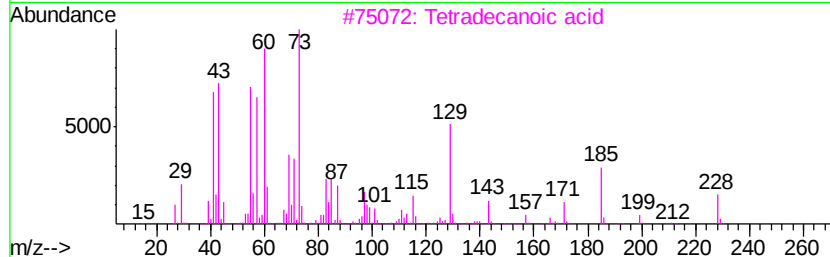
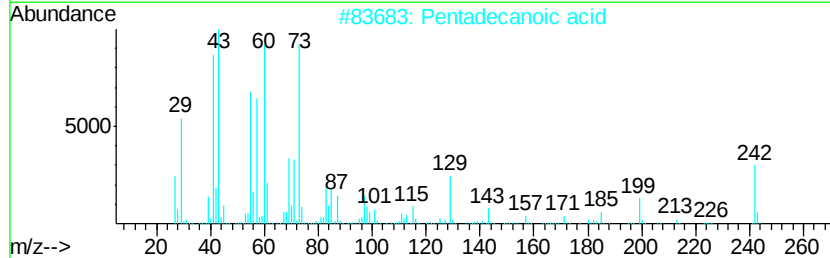
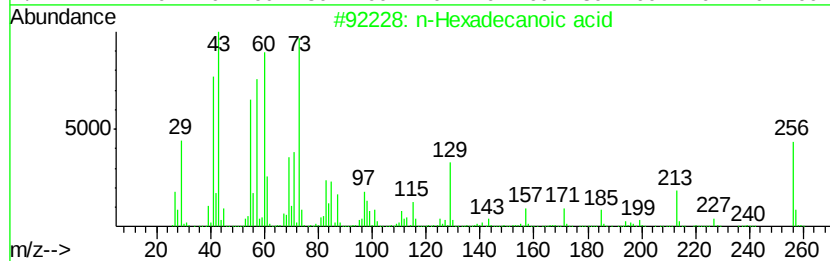
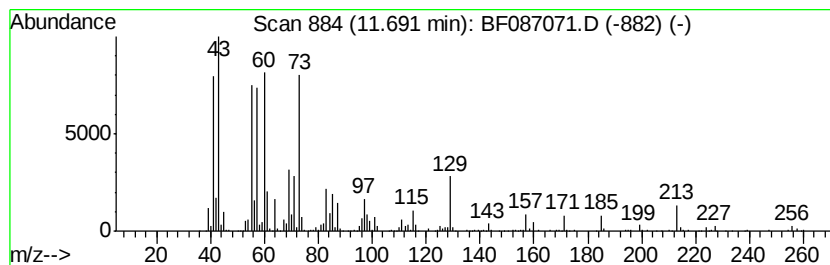
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 n-Hexadecanoic acid Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.69 | 12.96 ng | 875290 | Phenanthrene-d10 | 11.13 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 91   |
| 2    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 91   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 86   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 76   |
| 5    |    | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

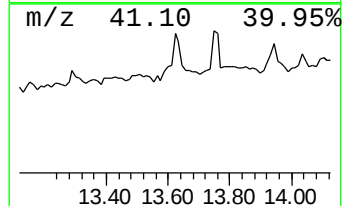
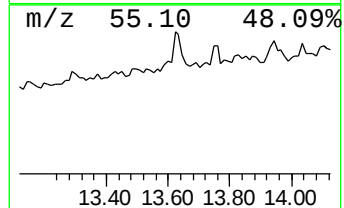
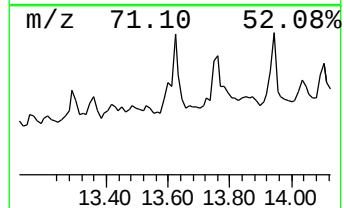
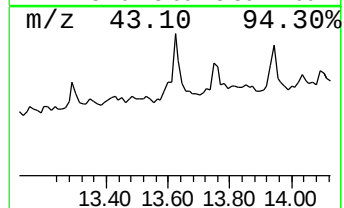
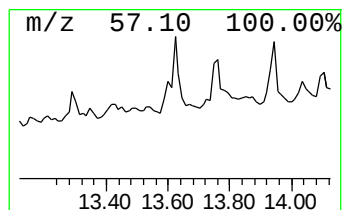
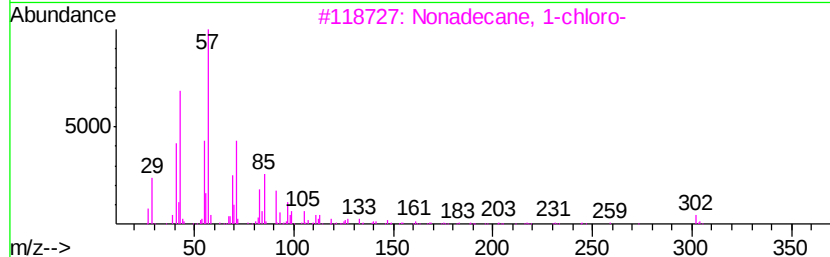
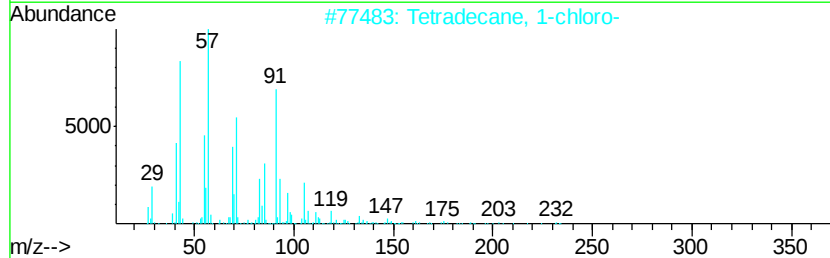
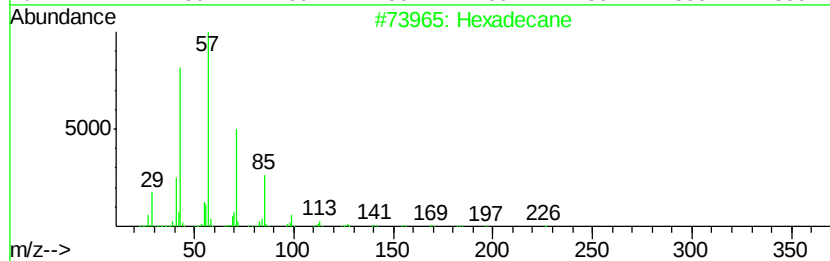
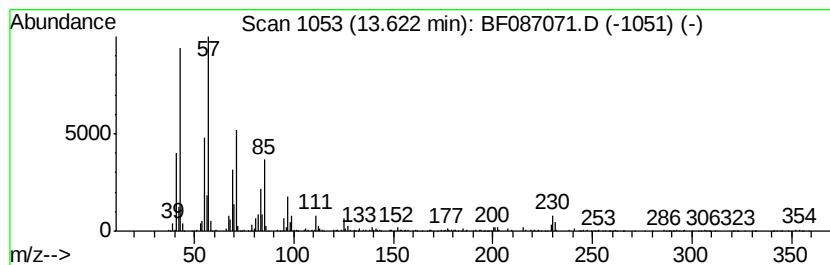
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ClientSampleId :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 16 Tetradecane, 1-chloro- Concentration Rank 11

| R.T.      | EstConc                | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------|--------|------------------|-------------|------|
| 13.62     | 5.10 ng                | 439167 | Chrysene-d12     | 13.76       |      |
| Hit# of 5 | Tentative ID           | MW     | MolForm          | CAS#        | Qual |
| 1         | Hexadecane             | 226    | C16H34           | 000544-76-3 | 90   |
| 2         | Tetradecane, 1-chloro- | 232    | C14H29Cl         | 002425-54-9 | 83   |
| 3         | Nonadecane, 1-chloro-  | 302    | C19H39Cl         | 062016-76-6 | 80   |
| 4         | Hexadecane, 1-chloro-  | 260    | C16H33Cl         | 004860-03-1 | 80   |
| 5         | Docosane, 9-octyl-     | 422    | C30H62           | 055319-83-0 | 80   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

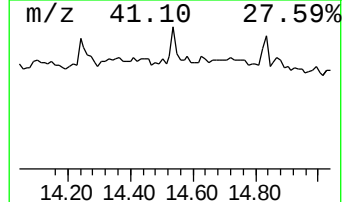
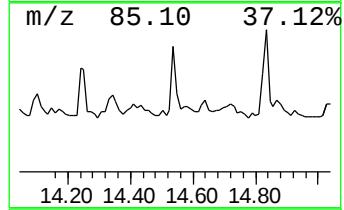
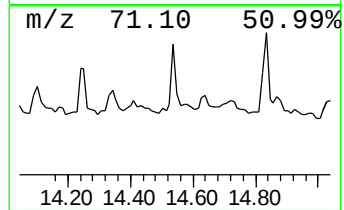
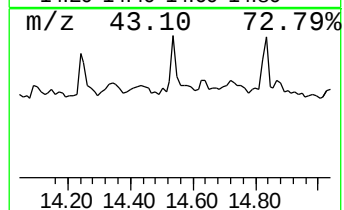
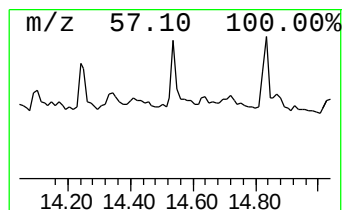
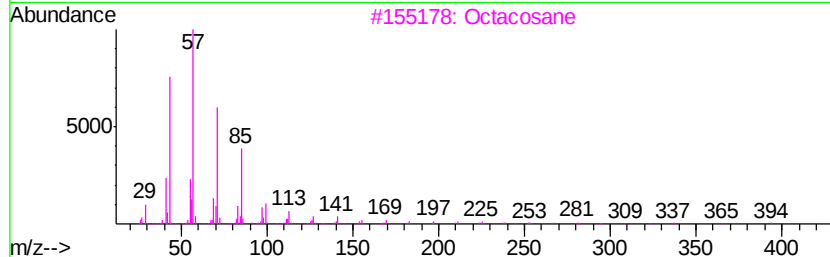
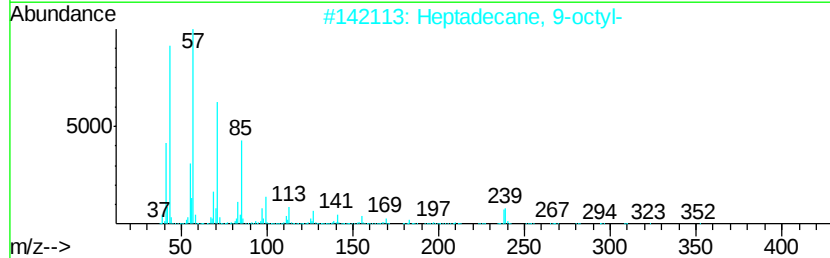
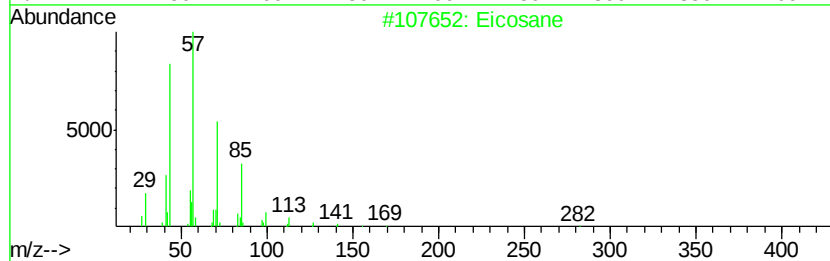
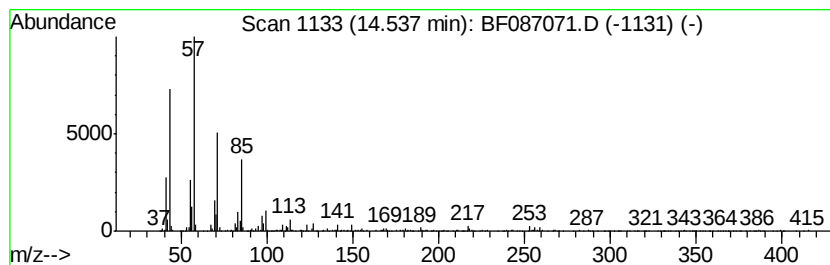
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Eicosane Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.54 | 11.85 ng | 736203 | Perylene-d12     | 15.13 |

| Hit# | of                    | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|-----------------------|---|--------------|-----|---------|-------------|------|
| 1    | Eicosane              |   |              | 282 | C20H42  | 000112-95-8 | 96   |
| 2    | Heptadecane, 9-octyl- |   |              | 352 | C25H52  | 007225-64-1 | 90   |
| 3    | Octacosane            |   |              | 394 | C28H58  | 000630-02-4 | 87   |
| 4    | Hexatriacontane       |   |              | 507 | C36H74  | 000630-06-8 | 87   |
| 5    | Heptacosane           |   |              | 380 | C27H56  | 000593-49-7 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

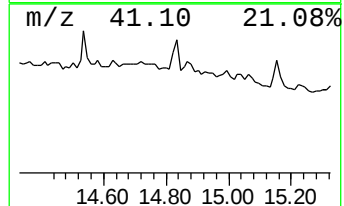
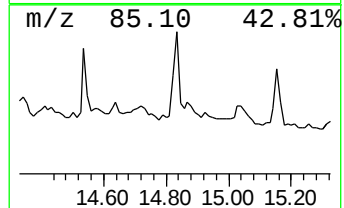
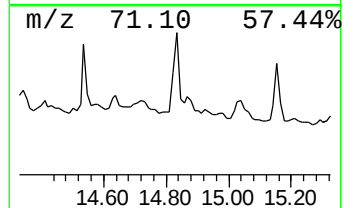
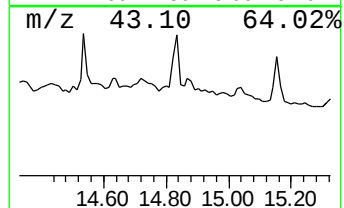
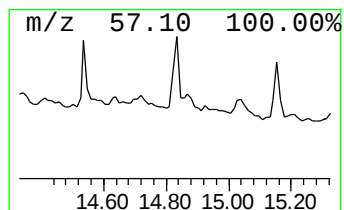
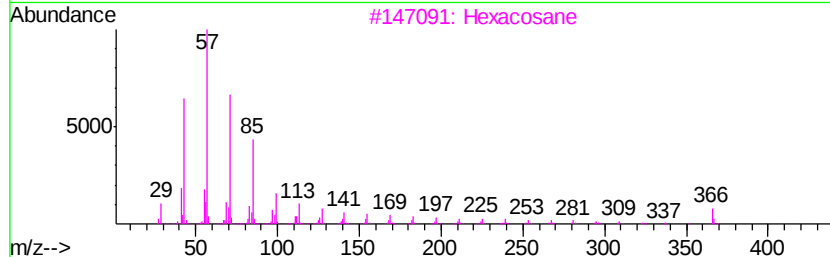
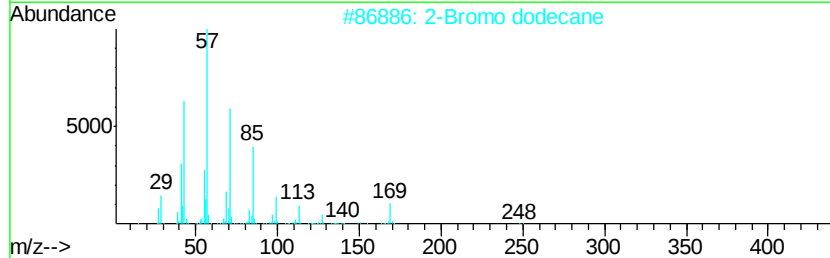
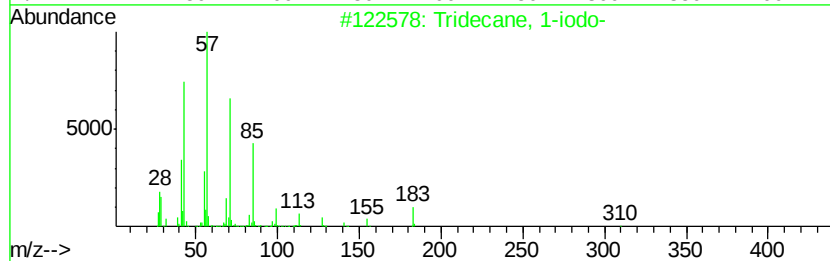
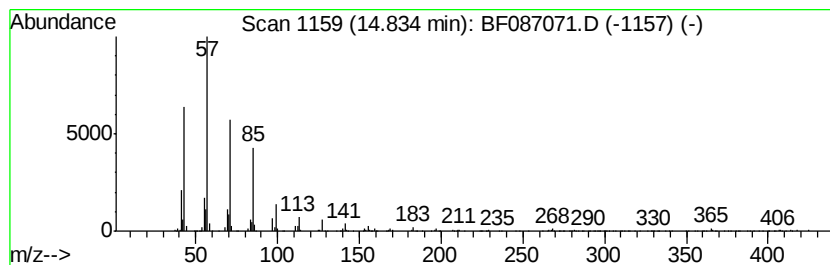
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TIC Integration Parameters: LSCINT.P

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Peak Number 18 Tridecane, 1-iodo- Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.83 | 5.03 ng | 312454 | Perylene-d12     | 15.13 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------|-----|----------|-------------|------|
| 1    |    |   | Tridecane, 1-iodo- | 310 | C13H27I  | 035599-77-0 | 93   |
| 2    |    |   | 2-Bromo dodecane   | 248 | C12H25Br | 013187-99-0 | 91   |
| 3    |    |   | Hexacosane         | 366 | C26H54   | 000630-01-3 | 91   |
| 4    |    |   | Heptacosane        | 380 | C27H56   | 000593-49-7 | 87   |
| 5    |    |   | Nonadecane         | 268 | C19H40   | 000629-92-5 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
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Operator : UM/SJ  
Sample : H3038-03  
Misc :  
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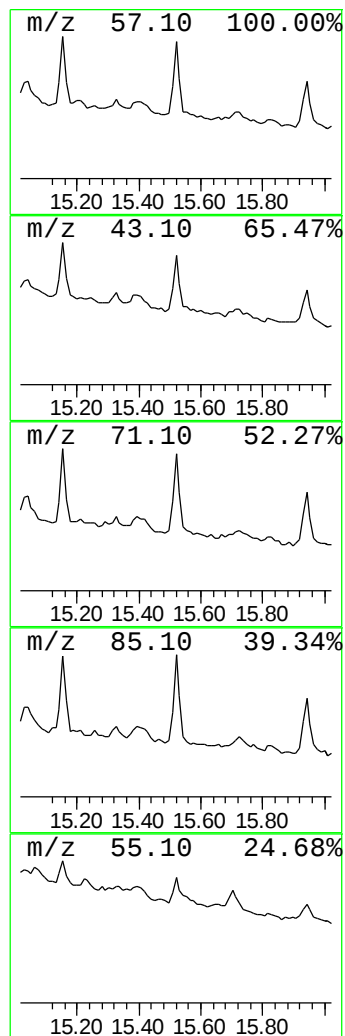
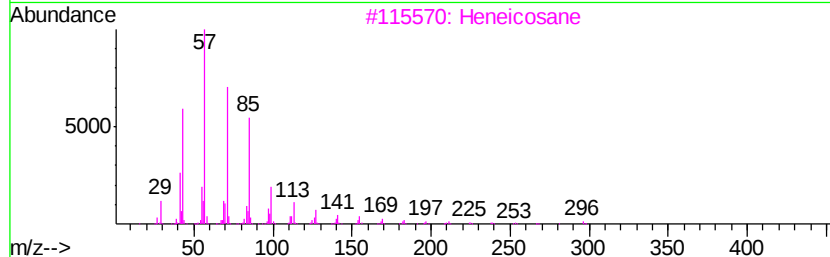
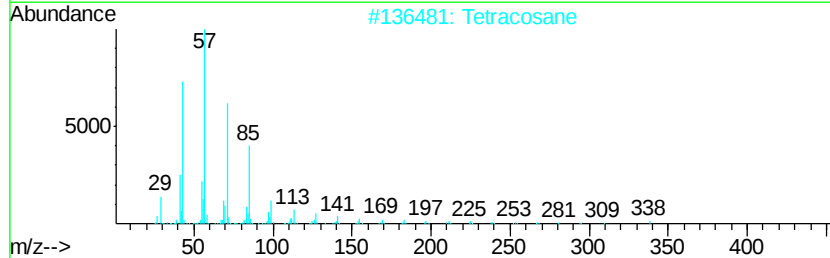
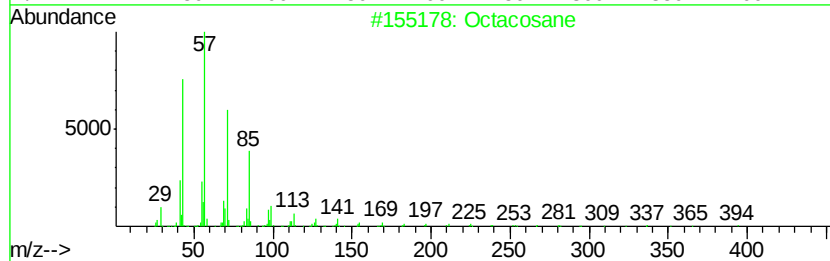
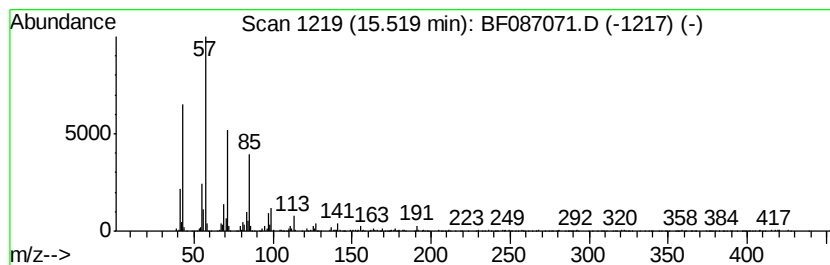
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ClientSampleId :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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 Octacosane Concentration Rank 8

| R.T.      | EstConc            | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------|--------|------------------|-------------|------|
| 15.52     | 6.90 ng            | 429010 | Perylene-d12     | 15.13       |      |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#        | Qual |
| 1         | Octacosane         | 394    | C28H58           | 000630-02-4 | 87   |
| 2         | Tetracosane        | 338    | C24H50           | 000646-31-1 | 80   |
| 3         | Heneicosane        | 296    | C21H44           | 000629-94-7 | 74   |
| 4         | Nonadecane         | 268    | C19H40           | 000629-92-5 | 74   |
| 5         | Eicosane, 9-octyl- | 394    | C28H58           | 013475-77-9 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087071.D  
Acq On : 15 May 2016 15:57  
Operator : UM/SJ  
Sample : H3038-03  
Misc :  
ALS Vial : 90 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

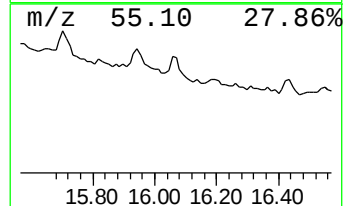
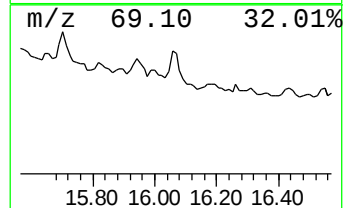
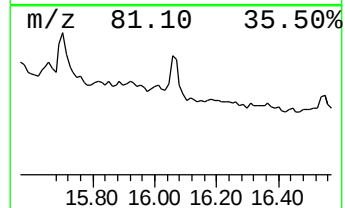
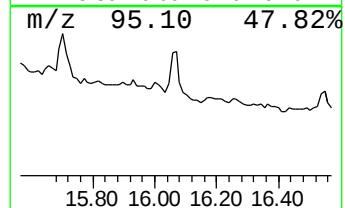
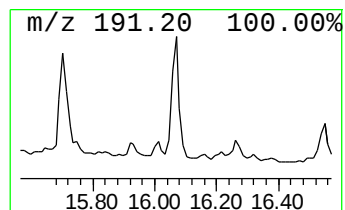
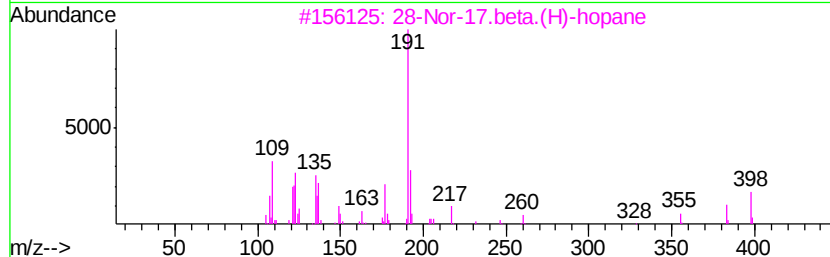
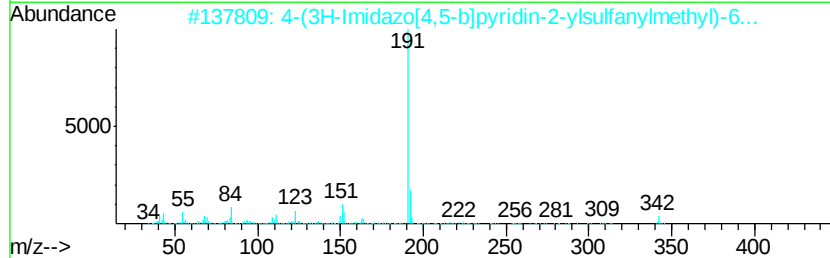
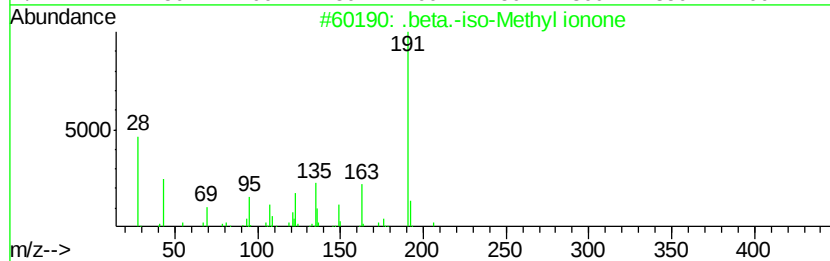
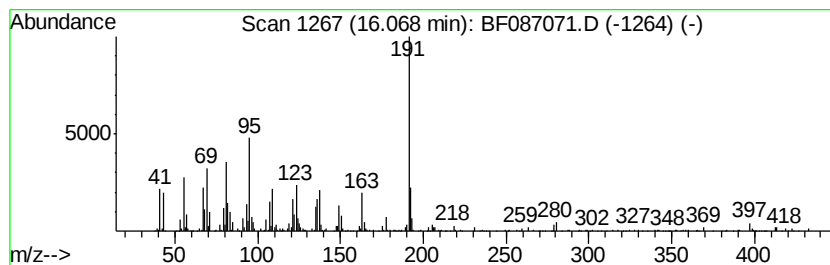
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 unknown16.07 Concentration Rank 7

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 16.07 | 10.23 ng | 635767 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | .beta.-iso-Methyl ionone            | 206 | C14H22O     | 1000285-40-2 | 47   |
| 2    |    | 4-(3H-Imidazo[4,5-b]pyridin-2-yl... | 342 | C15H18N8S   | 1000276-08-2 | 38   |
| 3    |    | 28-Nor-17.beta.(H)-hopane           | 398 | C29H50      | 036728-72-0  | 37   |
| 4    |    | 4,5-Dihydrothiazol-4-one, 2-(2-m... | 222 | C10H10N2O2S | 022476-61-5  | 35   |
| 5    |    | Butanoic acid, 4-(4-hydroxypheny... | 209 | C10H11N04   | 062558-67-2  | 32   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
 Data File : BF087071.D  
 Acq On : 15 May 2016 15:57  
 Operator : UM/SJ  
 Sample : H3038-03  
 Misc :  
 ALS Vial : 90 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PITT-1-N-WEST

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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 |
| 2-Pentanone, 4-hy... | 4.74  | 15.6    | ng    | 858562   | 1                     | 6.62  | 1099570 | 20.0 |
| Octane, 2,6-dimet... | 5.84  | 4.0     | ng    | 222627   | 1                     | 6.62  | 1099570 | 20.0 |
| Dodecane, 1-fluoro-  | 6.03  | 2.7     | ng    | 147441   | 1                     | 6.62  | 1099570 | 20.0 |
| unknown6.39          | 6.39  | 64.5    | ng    | 3544250  | 1                     | 6.62  | 1099570 | 20.0 |
| Decane               | 6.46  | 5.9     | ng    | 321938   | 1                     | 6.62  | 1099570 | 20.0 |
| unknown6.89          | 6.89  | 2.9     | ng    | 159849   | 1                     | 6.62  | 1099570 | 20.0 |
| Hexanoic acid, 2-... | 7.32  | 3.1     | ng    | 185804   | 2                     | 7.90  | 1209020 | 20.0 |
| 1-Iodoundecane       | 10.09 | 3.2     | ng    | 174359   | 3                     | 9.64  | 1084730 | 20.0 |
| Z-2-Tridecen-1-ol    | 10.31 | 3.7     | ng    | 201094   | 3                     | 9.64  | 1084730 | 20.0 |
| Hexadecane           | 10.56 | 6.6     | ng    | 446907   | 4                     | 11.13 | 1351220 | 20.0 |
| Tridecane            | 11.00 | 3.0     | ng    | 199148   | 4                     | 11.13 | 1351220 | 20.0 |
| n-Hexadecanoic acid  | 11.69 | 13.0    | ng    | 875290   | 4                     | 11.13 | 1351220 | 20.0 |
| Tetradecane, 1-ch... | 13.62 | 5.1     | ng    | 439167   | 5                     | 13.76 | 1721150 | 20.0 |
| Eicosane             | 14.54 | 11.9    | ng    | 736203   | 6                     | 15.13 | 1242890 | 20.0 |
| Tridecane, 1-iodo-   | 14.83 | 5.0     | ng    | 312454   | 6                     | 15.13 | 1242890 | 20.0 |
| Octacosane           | 15.52 | 6.9     | ng    | 429010   | 6                     | 15.13 | 1242890 | 20.0 |
| unknown16.07         | 16.07 | 10.2    | ng    | 635767   | 6                     | 15.13 | 1242890 | 20.0 |