

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062216\  
 Data File : BF088262.D  
 Acq On : 22 Jun 2016 21:16  
 Operator : UM/SJ  
 Sample : H3676-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NCHC-009

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-BF060716.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         | 1.724       | 11            | 12          | 56           | rVB      | 1535875        | 3354508       | 100.00%         | 14.546%       |
| 2         | 4.730       | 274           | 275         | 291          | rVB      | 204592         | 395363        | 11.79%          | 1.714%        |
| 3         | 5.187       | 313           | 315         | 337          | rBV      | 1775270        | 1919896       | 57.23%          | 8.325%        |
| 4         | 6.262       | 407           | 409         | 417          | rBV      | 1659738        | 1992934       | 59.41%          | 8.642%        |
| 5         | 6.376       | 417           | 419         | 421          | rBV      | 2014838        | 2255600       | 67.24%          | 9.781%        |
| 6         | 6.604       | 437           | 439         | 446          | rBV      | 464203         | 424455        | 12.65%          | 1.841%        |
| 7         | 6.753       | 450           | 452         | 455          | rBV      | 1562309        | 1668428       | 49.74%          | 7.235%        |
| 8         | 7.176       | 487           | 489         | 492          | rBV      | 1345538        | 1353502       | 40.35%          | 5.869%        |
| 9         | 7.885       | 550           | 551         | 554          | rBV      | 596224         | 658459        | 19.63%          | 2.855%        |
| 10        | 8.970       | 643           | 646         | 648          | rBV      | 2586282        | 2557973       | 76.25%          | 11.092%       |
| 11        | 9.370       | 679           | 681         | 683          | rBV      | 393870         | 319959        | 9.54%           | 1.387%        |
| 12        | 9.633       | 702           | 704         | 707          | rBV      | 744446         | 709080        | 21.14%          | 3.075%        |
| 13        | 10.422      | 771           | 773         | 776          | rBV      | 1250647        | 1286898       | 38.36%          | 5.580%        |
| 14        | 10.548      | 782           | 784         | 788          | rVB      | 44212          | 66364         | 1.98%           | 0.288%        |
| 15        | 10.994      | 821           | 823         | 825          | rBV      | 38854          | 40508         | 1.21%           | 0.176%        |
| 16        | 11.119      | 832           | 834         | 836          | rBV      | 481681         | 658910        | 19.64%          | 2.857%        |
| 17        | 12.697      | 970           | 972         | 975          | rBV      | 2014648        | 1967908       | 58.66%          | 8.533%        |
| 18        | 13.611      | 1050          | 1052        | 1061         | rBV3     | 25671          | 87093         | 2.60%           | 0.378%        |
| 19        | 13.737      | 1061          | 1063        | 1070         | rVV      | 348991         | 541291        | 16.14%          | 2.347%        |
| 20        | 14.228      | 1103          | 1106        | 1110         | rBV2     | 18999          | 54422         | 1.62%           | 0.236%        |
| 21        | 15.108      | 1180          | 1183        | 1189         | rVB      | 369351         | 488661        | 14.57%          | 2.119%        |
| 22        | 15.497      | 1214          | 1217        | 1218         | rBV      | 28939          | 50371         | 1.50%           | 0.218%        |
| 23        | 15.668      | 1229          | 1232        | 1240         | rVB4     | 30944          | 86716         | 2.59%           | 0.376%        |
| 24        | 16.023      | 1261          | 1263        | 1266         | rVB2     | 19605          | 36253         | 1.08%           | 0.157%        |
| 25        | 16.560      | 1307          | 1310        | 1316         | rVB5     | 17204          | 50835         | 1.52%           | 0.220%        |
| 26        | 17.634      | 1402          | 1404        | 1411         | rVB5     | 13369          | 35338         | 1.05%           | 0.153%        |

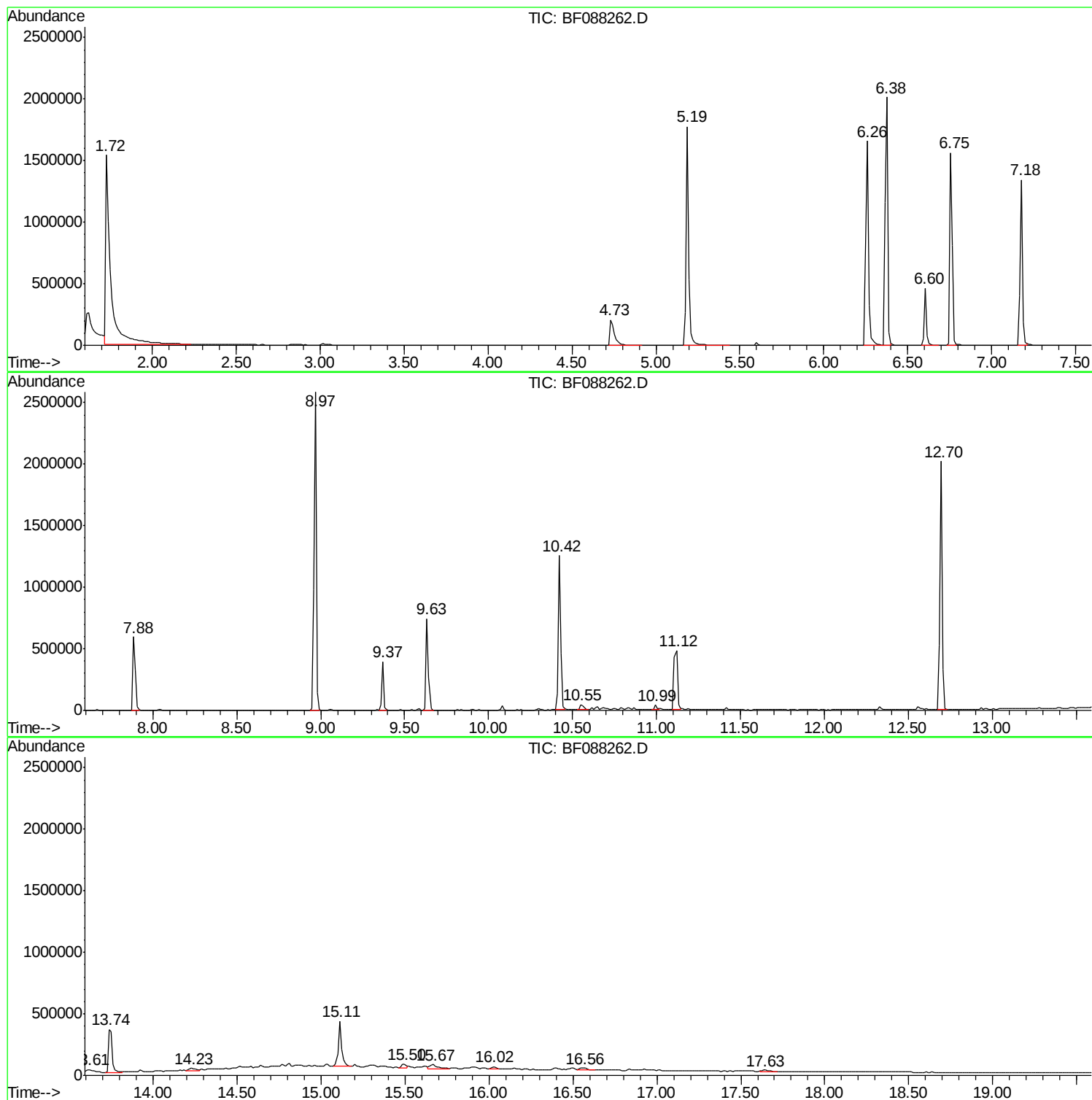
Sum of corrected areas: 23061725

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleID :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

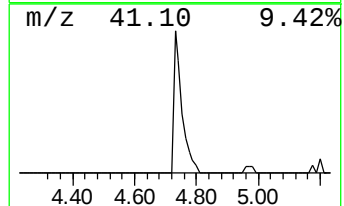
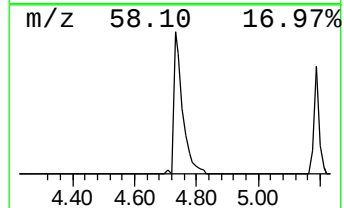
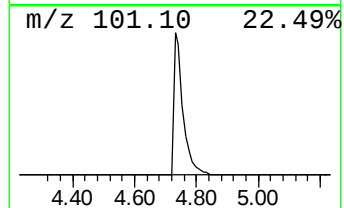
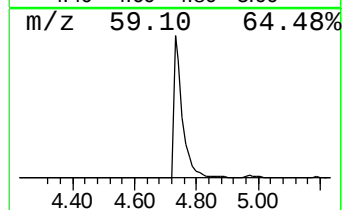
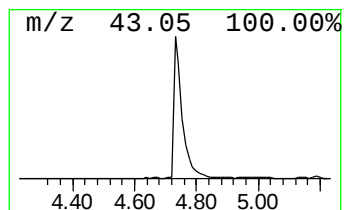
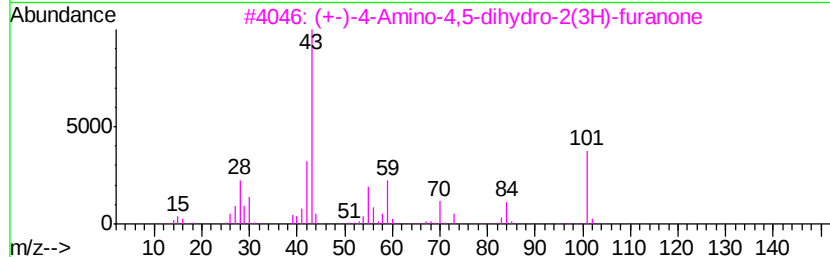
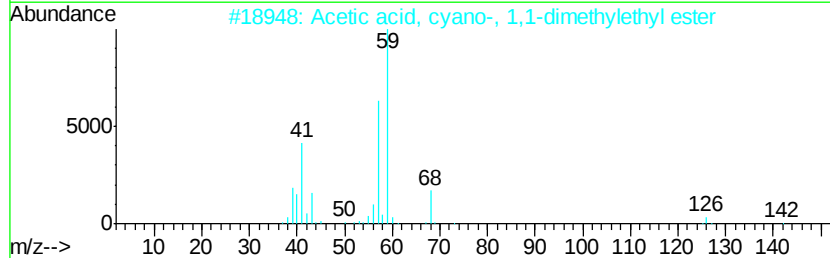
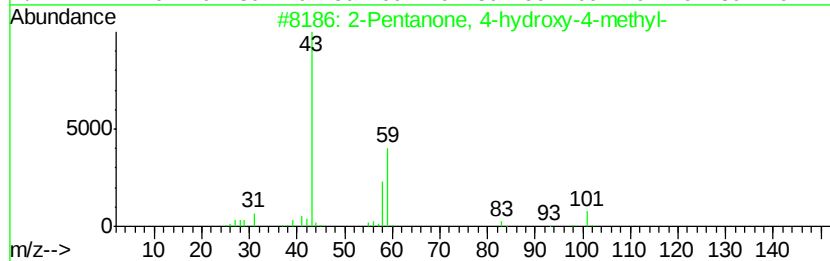
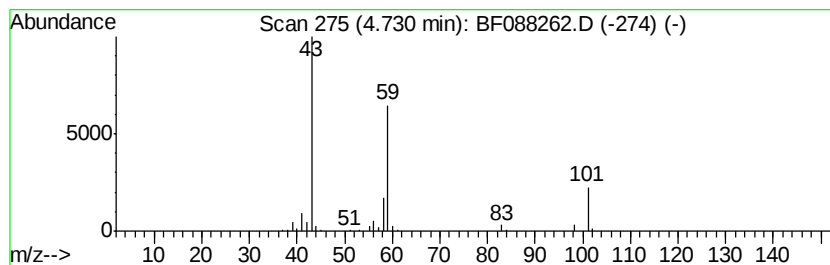
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.73 | 18.63 ng | 395363 | 1,4-Dichlorobenzene-d4 | 6.60 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 3    |    | (+)-4-Amino-4,5-dihydro-2(3H)-f...   | 101 | C4H7NO2  | 016504-58-8 | 9    |
| 4    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

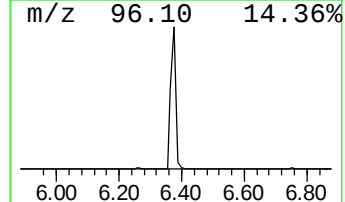
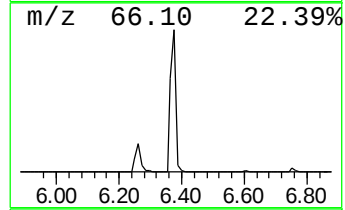
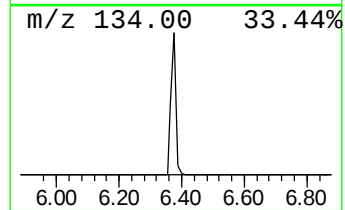
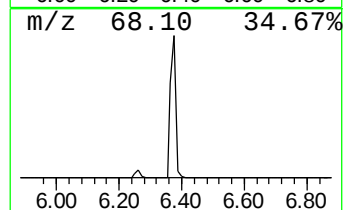
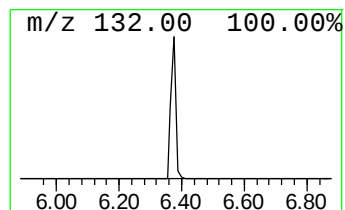
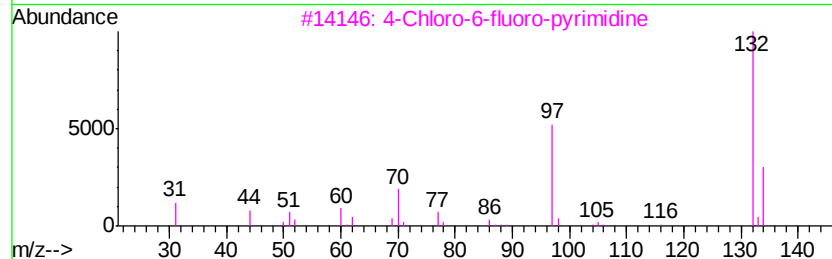
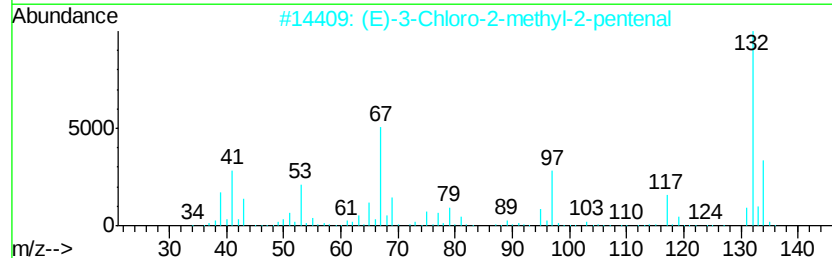
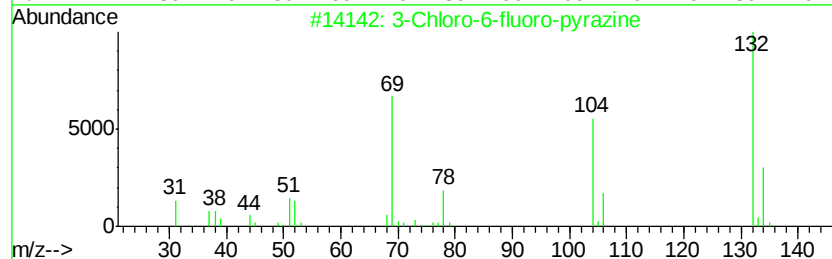
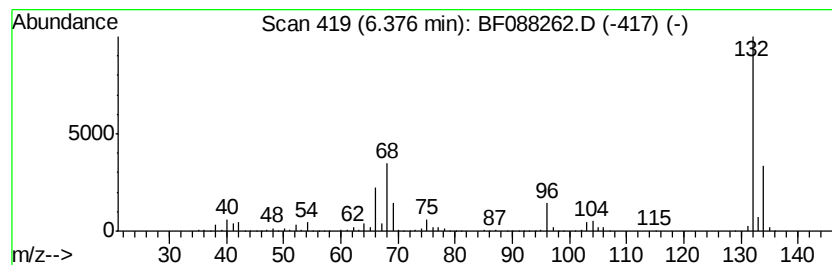
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown6.38 Concentration Rank 2

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 6.38 | 106.28 ng | 2255600 | 1,4-Dichlorobenzene-d4 | 6.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 3    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 4    |    | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

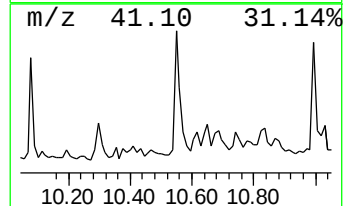
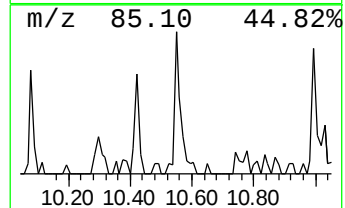
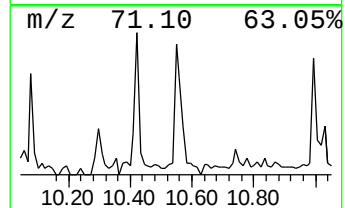
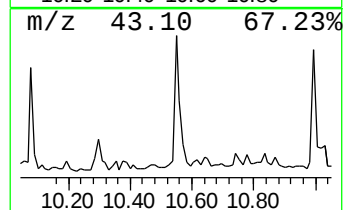
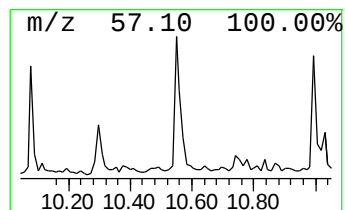
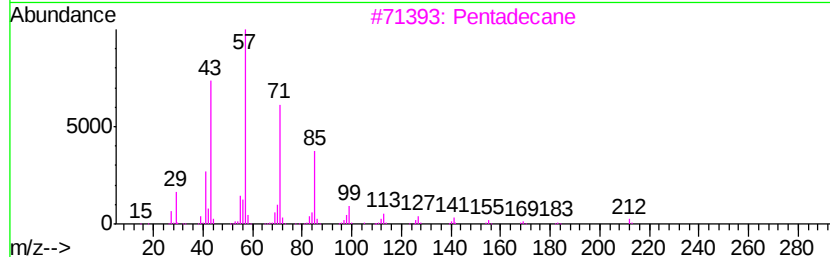
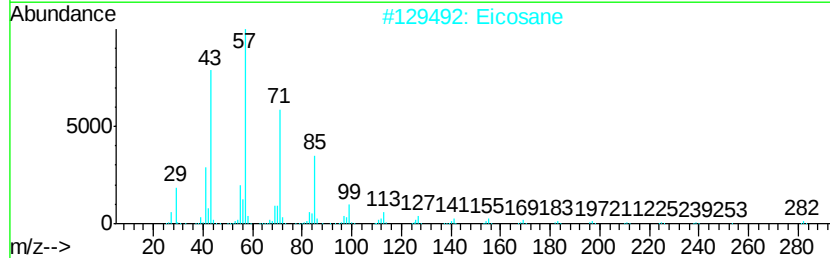
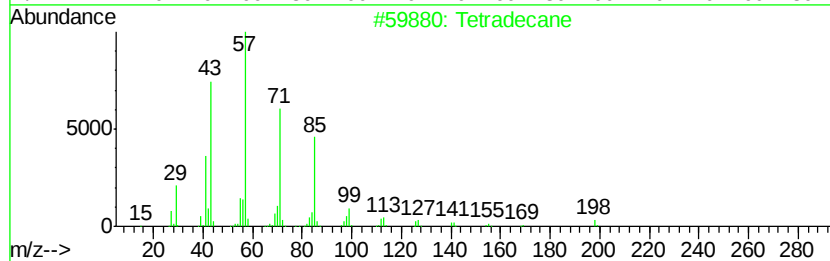
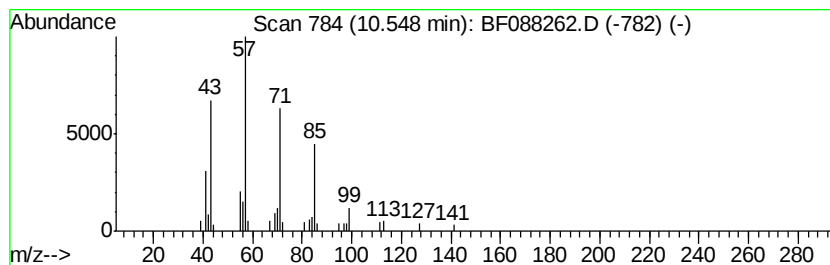
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Tetradecane Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 10.55 | 2.01 ng | 66364 | Phenanthrene-d10 | 11.12 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Tetradecane              | 198 | C14H30  | 000629-59-4 | 86   |
| 2       |   | Eicosane                 | 282 | C20H42  | 000112-95-8 | 86   |
| 3       |   | Pentadecane              | 212 | C15H32  | 000629-62-9 | 86   |
| 4       |   | Dodecane, 2-methyl-      | 184 | C13H28  | 001560-97-0 | 78   |
| 5       |   | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

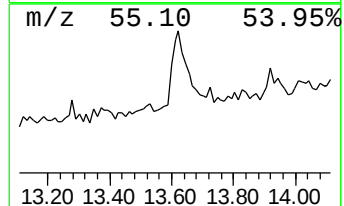
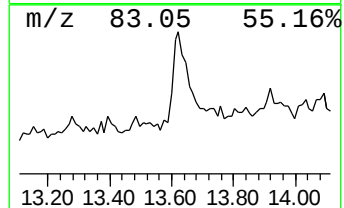
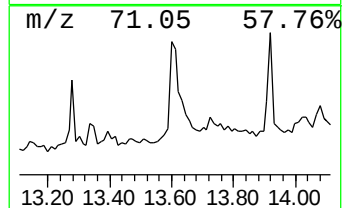
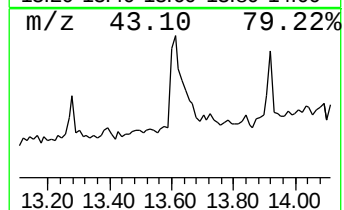
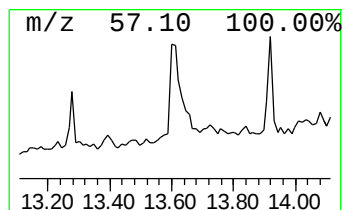
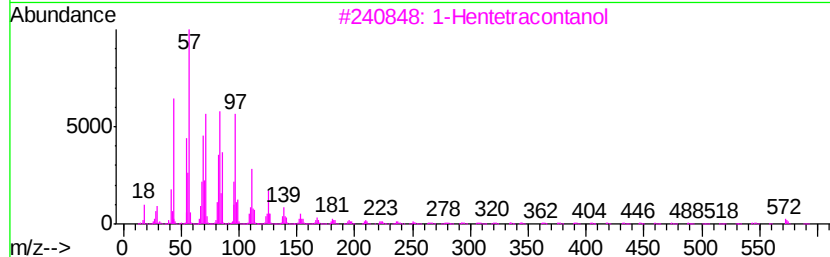
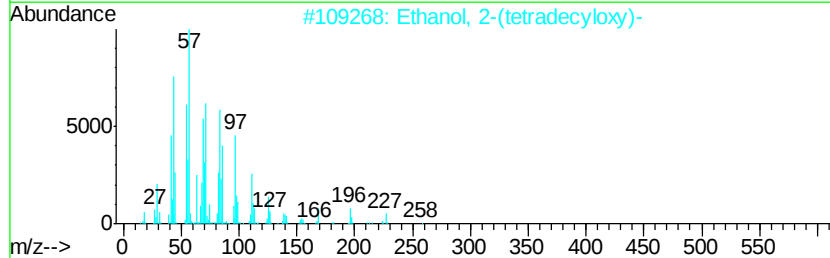
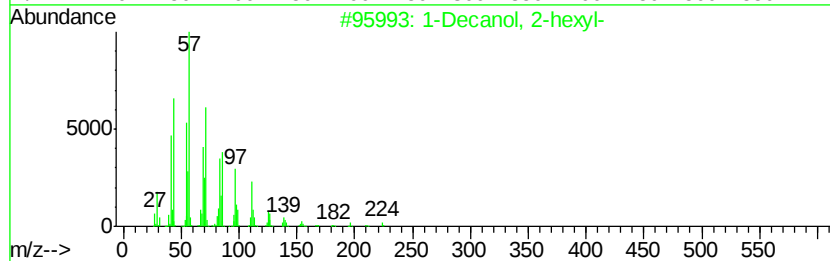
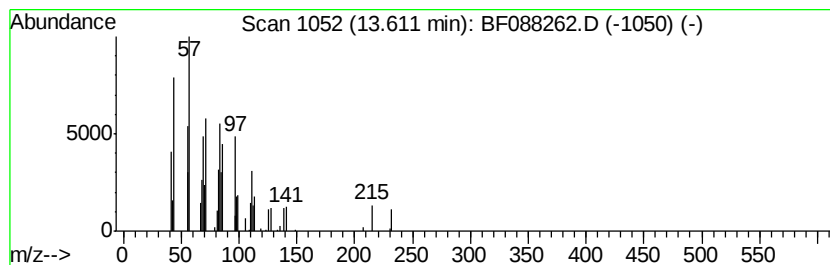
Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 1-Decanol, 2-hexyl- Concentration Rank 6

| R.T.    | EstConc                     | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------------|--------------|------------------|-----------|
| 13.61   | 3.22 ng                     | 87093        | Chrysene-d12     | 13.75     |
| Hit# of | 5                           | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 1-Decanol, 2-hexyl-         | 242 C16H34O  | 002425-77-6      | 72        |
| 2       | Ethanol, 2-(tetradecyloxy)- | 258 C16H34O2 | 002136-70-1      | 72        |
| 3       | 1-Hentetracontanol          | 593 C41H84O  | 040710-42-7      | 72        |
| 4       | 1-Decanol, 2-octyl-         | 270 C18H38O  | 045235-48-1      | 72        |
| 5       | 1-Dodecanol, 2-octyl-       | 298 C20H42O  | 005333-42-6      | 72        |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

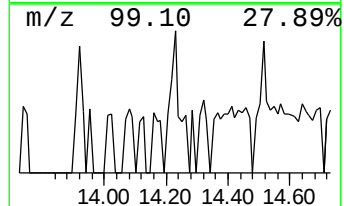
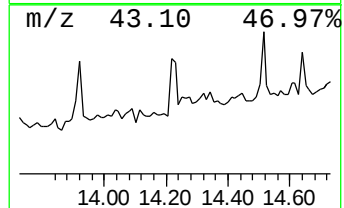
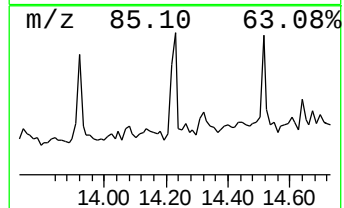
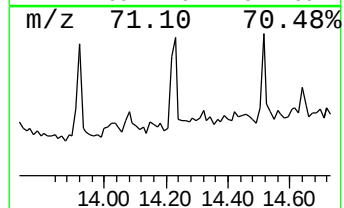
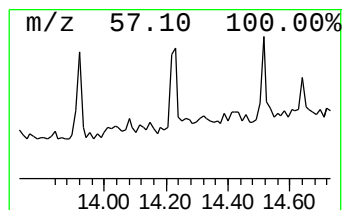
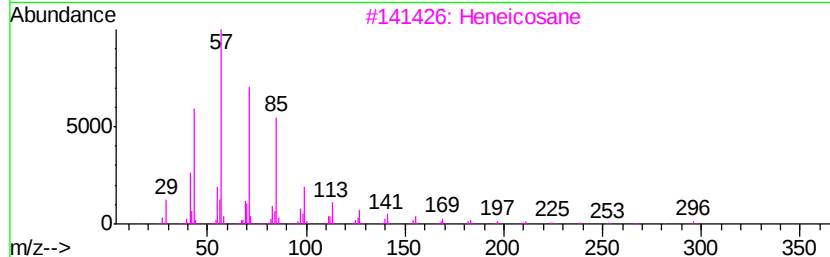
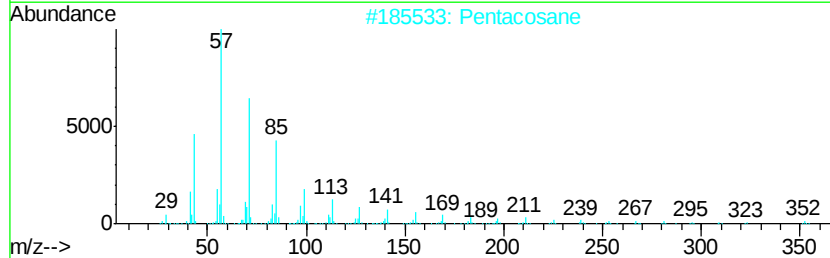
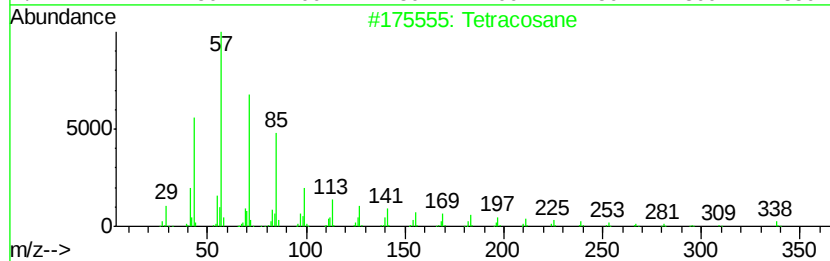
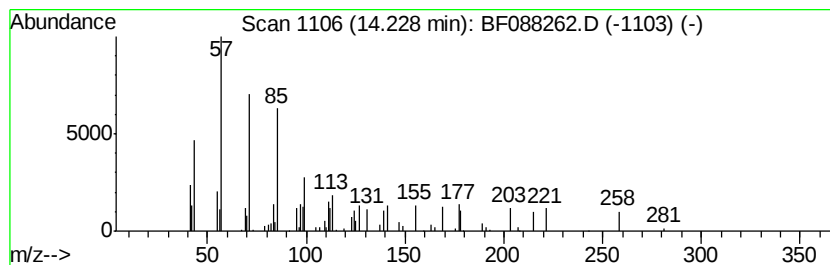
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Tetracosane Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.23 | 2.01 ng | 54422 | Chrysene-d12     | 13.75 |

| Hit# | of | Tentative ID    | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------|-----|---------|-------------|------|
| 1    | 5  | Tetracosane     | 338 | C24H50  | 000646-31-1 | 52   |
| 2    |    | Pentacosane     | 352 | C25H52  | 000629-99-2 | 49   |
| 3    |    | Heneicosane     | 296 | C21H44  | 000629-94-7 | 46   |
| 4    |    | Heptacosane     | 380 | C27H56  | 000593-49-7 | 43   |
| 5    |    | Hexatriacontane | 507 | C36H74  | 000630-06-8 | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

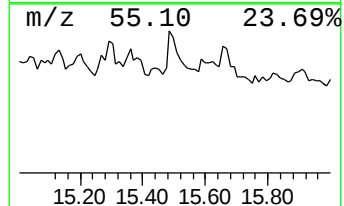
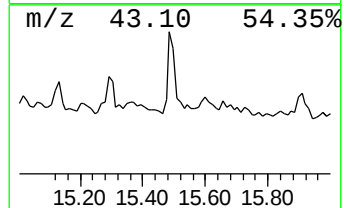
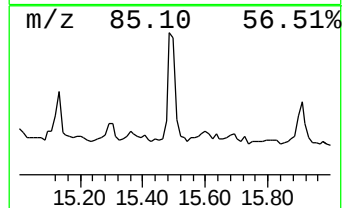
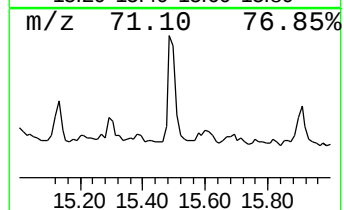
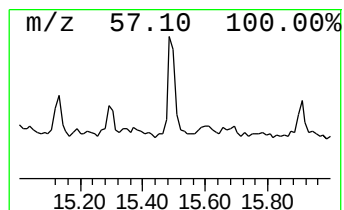
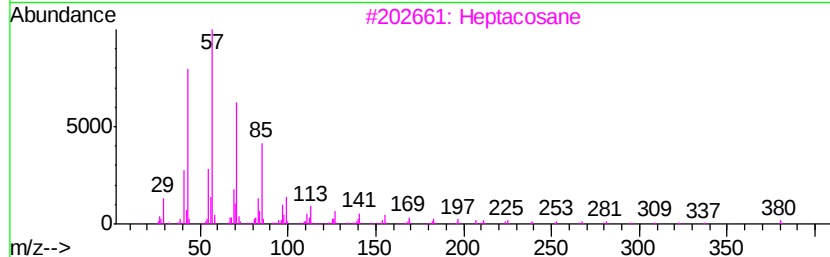
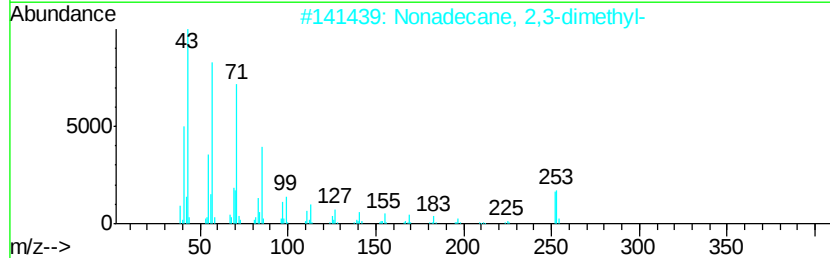
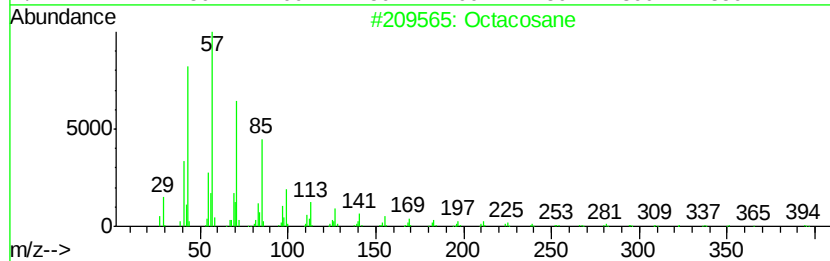
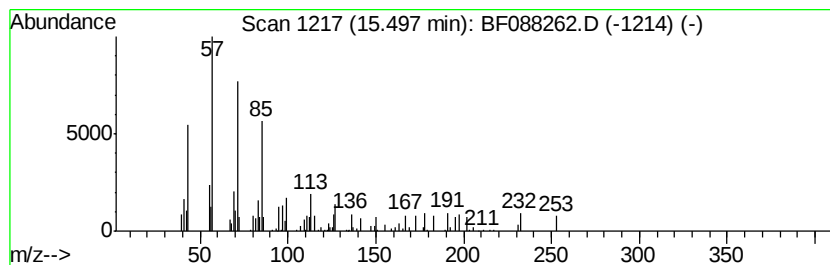
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Octacosane Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.50 | 2.06 ng | 50371 | Perylene-d12     | 15.11 |

| Hit# of | 5                         | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------------|--------------|-----|---------|-------------|------|
| 1       | Octacosane                |              | 394 | C28H58  | 000630-02-4 | 72   |
| 2       | Nonadecane, 2,3-dimethyl- |              | 296 | C21H44  | 075163-99-4 | 72   |
| 3       | Heptacosane               |              | 380 | C27H56  | 000593-49-7 | 72   |
| 4       | Heneicosane               |              | 296 | C21H44  | 000629-94-7 | 72   |
| 5       | Hexacosane                |              | 366 | C26H54  | 000630-01-3 | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

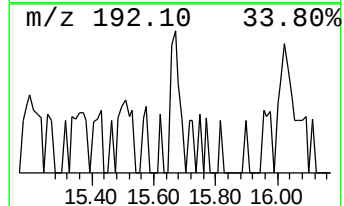
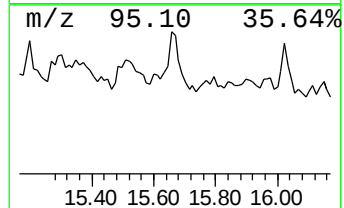
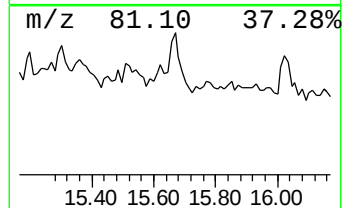
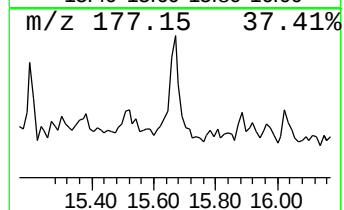
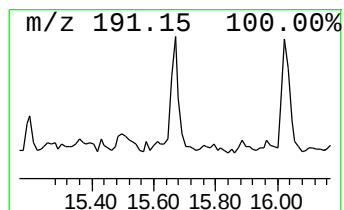
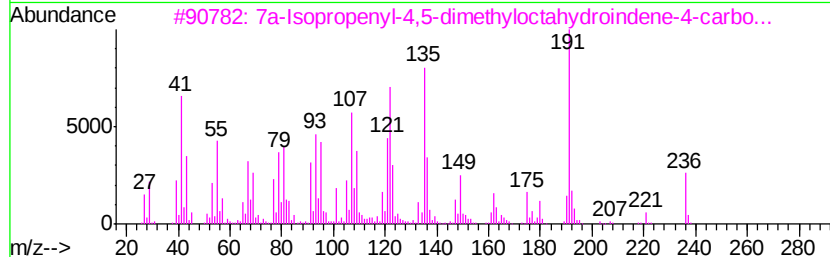
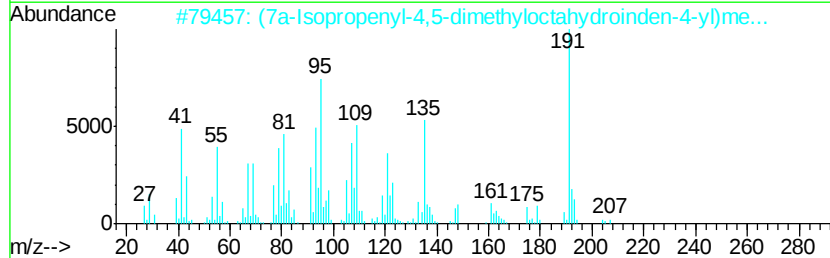
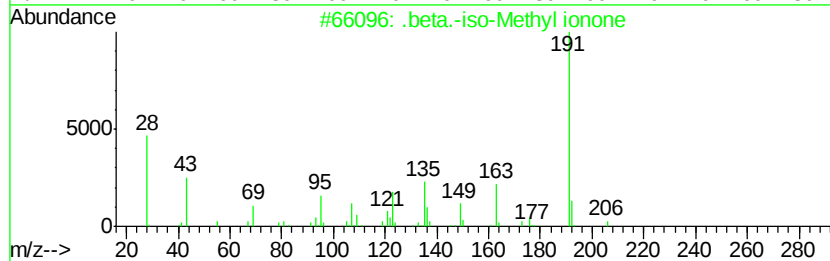
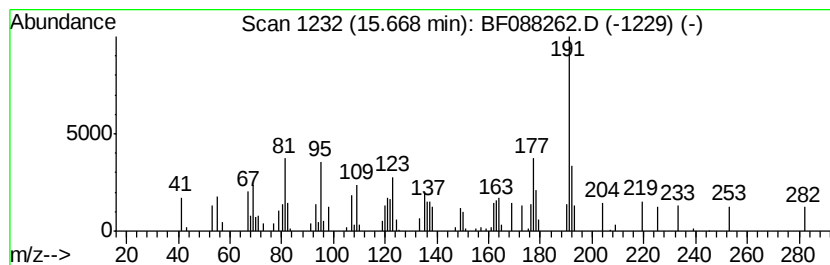
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 9 unknown15.67 Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.67 | 3.55 ng | 86716 | Perylene-d12     | 15.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | .beta.-iso-Methyl ionone            | 206 | C14H22O   | 1000285-40-2 | 47   |
| 2    |    | (7a-Isopropenyl-4,5-dimethylocta... | 222 | C15H26O   | 1000187-02-9 | 38   |
| 3    |    | 7a-Isopropenyl-4,5-dimethyloctah... | 236 | C15H24O2  | 1000192-14-7 | 32   |
| 4    |    | N-(3,4,5,6-Tetrahydro-1,3-thiazi... | 192 | C10H12N2S | 003420-40-4  | 30   |
| 5    |    | 2-Phenylamino-5,6(4H)dihydro-1,3... | 192 | C10H12N2S | 1000147-35-4 | 27   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

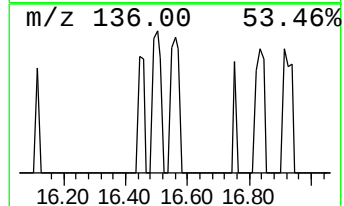
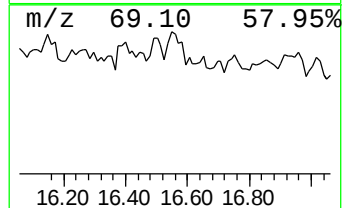
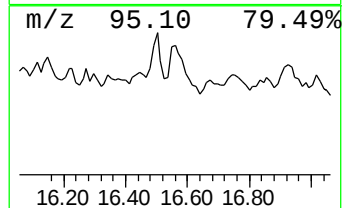
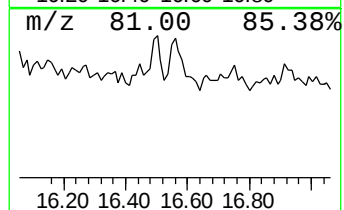
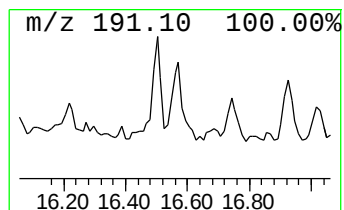
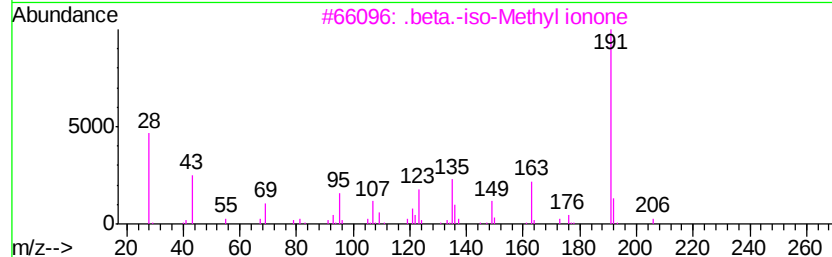
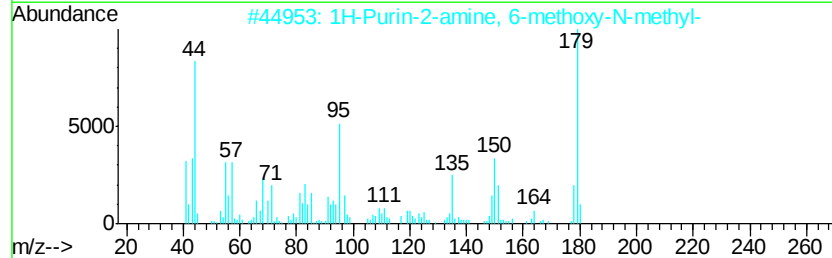
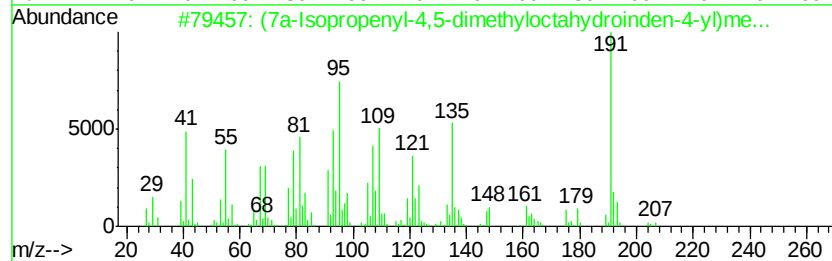
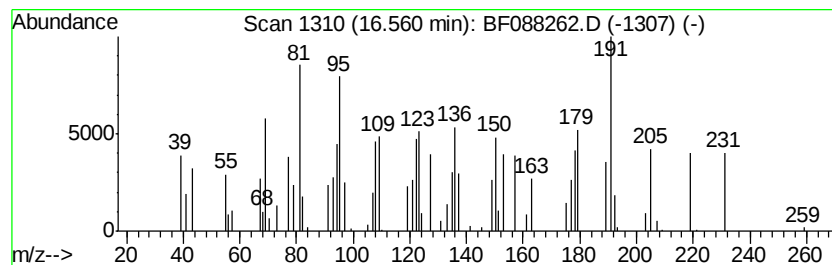
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 unknown16.56 Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.56 | 2.08 ng | 50835 | Perylene-d12     | 15.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | (7a-Isopropenyl-4,5-dimethylocta... | 222 | C15H26O  | 1000187-02-9 | 22   |
| 2    |    | 1H-Purin-2-amine, 6-methoxy-N-me... | 179 | C7H9N5O  | 050704-44-4  | 12   |
| 3    |    | .beta.-iso-Methyl ionone            | 206 | C14H22O  | 1000285-40-2 | 12   |
| 4    |    | 2-(4a,8-Dimethyl-6-oxo-1,2,3,4,4... | 234 | C15H22O2 | 1000190-21-8 | 10   |
| 5    |    | 2H-1-Benzopyran-2-one, 4,7-dihyd... | 178 | C9H6O4   | 001983-81-9  | 10   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062216\  
Data File : BF088262.D  
Acq On : 22 Jun 2016 21:16  
Operator : UM/SJ  
Sample : H3676-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NCHC-009

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 4.73  | 18.6    | ng    | 395363   | 1                     | 6.60  | 424455 | 20.0 |
| unknown6.38          | 6.38  | 106.3   | ng    | 2255600  | 1                     | 6.60  | 424455 | 20.0 |
| Tetradecane          | 10.55 | 2.0     | ng    | 66364    | 4                     | 11.12 | 658910 | 20.0 |
| 1-Decanol, 2-hexyl-  | 13.61 | 3.2     | ng    | 87093    | 5                     | 13.75 | 541291 | 20.0 |
| Tetracosane          | 14.23 | 2.0     | ng    | 54422    | 5                     | 13.75 | 541291 | 20.0 |
| Octacosane           | 15.50 | 2.1     | ng    | 50371    | 6                     | 15.11 | 488661 | 20.0 |
| unknown15.67         | 15.67 | 3.5     | ng    | 86716    | 6                     | 15.11 | 488661 | 20.0 |
| unknown16.56         | 16.56 | 2.1     | ng    | 50835    | 6                     | 15.11 | 488661 | 20.0 |