

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
 Data File : BG038664.D  
 Acq On : 17 Dec 2018 15:44  
 Operator : JU/SJ  
 Sample : J6378-15  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-SD013-0612-01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.141       | 345           | 349         | 358          | rVB2     | 23013          | 39132         | 2.29%           | 0.312%        |
| 2         | 5.353       | 381           | 385         | 391          | rVB4     | 12732          | 21758         | 1.27%           | 0.174%        |
| 3         | 5.541       | 413           | 417         | 422          | rBV2     | 15901          | 23495         | 1.37%           | 0.188%        |
| 4         | 5.605       | 422           | 428         | 434          | rVV      | 442433         | 754239        | 44.09%          | 6.020%        |
| 5         | 5.670       | 434           | 439         | 454          | rVB      | 528424         | 947143        | 55.36%          | 7.560%        |
| 6         | 6.046       | 496           | 503         | 511          | rVB6     | 18308          | 41446         | 2.42%           | 0.331%        |
| 7         | 7.115       | 680           | 685         | 692          | rBV3     | 80284          | 135412        | 7.92%           | 1.081%        |
| 8         | 7.215       | 692           | 702         | 718          | rVB      | 464379         | 911628        | 53.29%          | 7.276%        |
| 9         | 7.585       | 758           | 765         | 772          | rBV      | 432254         | 767541        | 44.87%          | 6.126%        |
| 10        | 7.691       | 778           | 783         | 791          | rVB      | 34604          | 55550         | 3.25%           | 0.443%        |
| 11        | 8.061       | 839           | 846         | 849          | rBV      | 73415          | 135371        | 7.91%           | 1.081%        |
| 12        | 8.091       | 849           | 851         | 858          | rVV      | 37595          | 54885         | 3.21%           | 0.438%        |
| 13        | 8.173       | 858           | 865         | 873          | rVB5     | 12999          | 27409         | 1.60%           | 0.219%        |
| 14        | 8.379       | 894           | 900         | 909          | rVB      | 303885         | 553080        | 32.33%          | 4.415%        |
| 15        | 8.678       | 947           | 951         | 959          | rVB3     | 14136          | 24878         | 1.45%           | 0.199%        |
| 16        | 9.154       | 1024          | 1032        | 1038         | rVB5     | 10532          | 19783         | 1.16%           | 0.158%        |
| 17        | 9.236       | 1038          | 1046        | 1061         | rBV      | 289194         | 546665        | 31.95%          | 4.363%        |
| 18        | 9.560       | 1095          | 1101        | 1106         | rVB2     | 33195          | 52517         | 3.07%           | 0.419%        |
| 19        | 10.259      | 1214          | 1220        | 1225         | rBV3     | 13475          | 23170         | 1.35%           | 0.185%        |
| 20        | 10.805      | 1306          | 1313        | 1317         | rBV3     | 16836          | 31049         | 1.81%           | 0.248%        |
| 21        | 10.876      | 1319          | 1325        | 1330         | rVV      | 99997          | 195191        | 11.41%          | 1.558%        |
| 22        | 10.929      | 1330          | 1334        | 1339         | rVV2     | 45933          | 84065         | 4.91%           | 0.671%        |
| 23        | 10.982      | 1339          | 1343        | 1351         | rVB4     | 12677          | 23929         | 1.40%           | 0.191%        |
| 24        | 11.845      | 1484          | 1490        | 1495         | rBV      | 16090          | 27765         | 1.62%           | 0.222%        |
| 25        | 12.051      | 1520          | 1525        | 1530         | rBV2     | 15783          | 24069         | 1.41%           | 0.192%        |
| 26        | 12.245      | 1552          | 1558        | 1566         | rBV3     | 25490          | 42775         | 2.50%           | 0.341%        |
| 27        | 12.527      | 1600          | 1606        | 1616         | rBV      | 47705          | 83635         | 4.89%           | 0.668%        |
| 28        | 12.744      | 1631          | 1643        | 1652         | rBV2     | 27258          | 53306         | 3.12%           | 0.425%        |
| 29        | 13.056      | 1687          | 1696        | 1700         | rBV8     | 9055           | 18720         | 1.09%           | 0.149%        |
| 30        | 13.191      | 1714          | 1719        | 1725         | rBV2     | 17393          | 25058         | 1.46%           | 0.200%        |
| 31        | 13.314      | 1733          | 1740        | 1748         | rVB      | 650960         | 1051725       | 61.48%          | 8.395%        |
| 32        | 13.479      | 1762          | 1768        | 1772         | rBV      | 29972          | 47175         | 2.76%           | 0.377%        |
| 33        | 13.725      | 1803          | 1810        | 1812         | rBV3     | 14906          | 25469         | 1.49%           | 0.203%        |
| 34        | 13.866      | 1827          | 1834        | 1840         | rBV5     | 26393          | 69763         | 4.08%           | 0.557%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
 Data File : BG038664.D  
 Acq On : 17 Dec 2018 15:44  
 Operator : JU/SJ  
 Sample : J6378-15  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-SD013-0612-01

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |       |         |         |         |         |
|----|--------|------|------|------|-------|---------|---------|---------|---------|
| 35 | 14.013 | 1852 | 1859 | 1863 | rBV   | 40169   | 79615   | 4.65%   | 0.635%  |
| 36 | 14.066 | 1864 | 1868 | 1873 | rVV2  | 22077   | 41006   | 2.40%   | 0.327%  |
| 37 | 14.137 | 1875 | 1880 | 1884 | rVB2  | 39789   | 61356   | 3.59%   | 0.490%  |
| 38 | 14.248 | 1893 | 1899 | 1903 | rBV3  | 18285   | 29276   | 1.71%   | 0.234%  |
| 39 | 14.419 | 1922 | 1928 | 1934 | rBV6  | 12200   | 21081   | 1.23%   | 0.168%  |
| 40 | 14.548 | 1946 | 1950 | 1958 | rVB   | 32362   | 46761   | 2.73%   | 0.373%  |
| 41 | 14.695 | 1966 | 1975 | 1982 | rBV2  | 151072  | 261694  | 15.30%  | 2.089%  |
| 42 | 14.889 | 2003 | 2008 | 2017 | rBV4  | 13599   | 33636   | 1.97%   | 0.268%  |
| 43 | 15.083 | 2036 | 2041 | 2048 | rVB6  | 20426   | 40744   | 2.38%   | 0.325%  |
| 44 | 15.159 | 2048 | 2054 | 2062 | rBV5  | 26221   | 46782   | 2.73%   | 0.373%  |
| 45 | 15.300 | 2072 | 2078 | 2084 | rBV6  | 14423   | 28923   | 1.69%   | 0.231%  |
| 46 | 15.459 | 2100 | 2105 | 2107 | rBV4  | 13213   | 21779   | 1.27%   | 0.174%  |
| 47 | 15.500 | 2108 | 2112 | 2116 | rVV   | 40314   | 59990   | 3.51%   | 0.479%  |
| 48 | 15.541 | 2116 | 2119 | 2124 | rVV5  | 11112   | 18369   | 1.07%   | 0.147%  |
| 49 | 15.623 | 2126 | 2133 | 2140 | rVV9  | 8350    | 21192   | 1.24%   | 0.169%  |
| 50 | 15.899 | 2170 | 2180 | 2184 | rBV4  | 24607   | 62604   | 3.66%   | 0.500%  |
| 51 | 16.187 | 2222 | 2229 | 2236 | rVV   | 599451  | 950347  | 55.55%  | 7.586%  |
| 52 | 16.358 | 2253 | 2258 | 2260 | rBV2  | 38434   | 55931   | 3.27%   | 0.446%  |
| 53 | 16.728 | 2313 | 2321 | 2329 | rBV2  | 7418    | 26122   | 1.53%   | 0.209%  |
| 54 | 16.792 | 2329 | 2332 | 2341 | rVB8  | 13245   | 24961   | 1.46%   | 0.199%  |
| 55 | 17.151 | 2388 | 2393 | 2397 | rBV   | 25239   | 32602   | 1.91%   | 0.260%  |
| 56 | 17.198 | 2397 | 2401 | 2407 | rVB3  | 26076   | 43563   | 2.55%   | 0.348%  |
| 57 | 17.445 | 2436 | 2443 | 2447 | rBV   | 215930  | 345206  | 20.18%  | 2.755%  |
| 58 | 17.486 | 2447 | 2450 | 2454 | rVB2  | 31420   | 43955   | 2.57%   | 0.351%  |
| 59 | 17.574 | 2462 | 2465 | 2469 | rBV3  | 17121   | 20703   | 1.21%   | 0.165%  |
| 60 | 17.633 | 2469 | 2475 | 2479 | rBV8  | 8865    | 18796   | 1.10%   | 0.150%  |
| 61 | 17.891 | 2515 | 2519 | 2525 | rVB   | 24259   | 34442   | 2.01%   | 0.275%  |
| 62 | 18.302 | 2585 | 2589 | 2596 | rBV5  | 28556   | 57205   | 3.34%   | 0.457%  |
| 63 | 18.361 | 2596 | 2599 | 2607 | rVB3  | 14963   | 29628   | 1.73%   | 0.236%  |
| 64 | 18.496 | 2617 | 2622 | 2626 | rBV6  | 11476   | 19495   | 1.14%   | 0.156%  |
| 65 | 19.037 | 2708 | 2714 | 2720 | rBV10 | 9389    | 22200   | 1.30%   | 0.177%  |
| 66 | 19.207 | 2740 | 2743 | 2749 | rBV3  | 15178   | 26606   | 1.56%   | 0.212%  |
| 67 | 19.530 | 2794 | 2798 | 2802 | rBV4  | 15284   | 21790   | 1.27%   | 0.174%  |
| 68 | 19.859 | 2850 | 2854 | 2863 | rBV   | 70634   | 101197  | 5.92%   | 0.808%  |
| 69 | 20.047 | 2880 | 2886 | 2895 | rVB   | 1330971 | 1710776 | 100.00% | 13.655% |
| 70 | 20.318 | 2926 | 2932 | 2938 | rBV6  | 29493   | 51826   | 3.03%   | 0.414%  |
| 71 | 20.594 | 2976 | 2979 | 2983 | rBV4  | 16162   | 17813   | 1.04%   | 0.142%  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 20.805 | 3012 | 3015 | 3019 | rBV2 | 14293  | 19775  | 1.16%  | 0.158% |
| 73 | 21.316 | 3098 | 3102 | 3110 | rBV2 | 32247  | 60612  | 3.54%  | 0.484% |
| 74 | 21.722 | 3164 | 3171 | 3178 | rVB  | 237222 | 417167 | 24.38% | 3.330% |
| 75 | 21.869 | 3192 | 3196 | 3202 | rVB2 | 13592  | 20101  | 1.17%  | 0.160% |
| 76 | 22.480 | 3295 | 3300 | 3303 | rBV3 | 17086  | 28120  | 1.64%  | 0.224% |
| 77 | 23.179 | 3414 | 3419 | 3428 | rVB4 | 14828  | 25000  | 1.46%  | 0.200% |
| 78 | 23.373 | 3446 | 3452 | 3459 | rBV4 | 12218  | 26924  | 1.57%  | 0.215% |
| 79 | 23.984 | 3551 | 3556 | 3563 | rBV4 | 14942  | 32295  | 1.89%  | 0.258% |
| 80 | 25.024 | 3723 | 3733 | 3746 | rVB  | 129742 | 399621 | 23.36% | 3.190% |
| 81 | 26.093 | 3909 | 3915 | 3926 | rVB4 | 9661   | 30036  | 1.76%  | 0.240% |

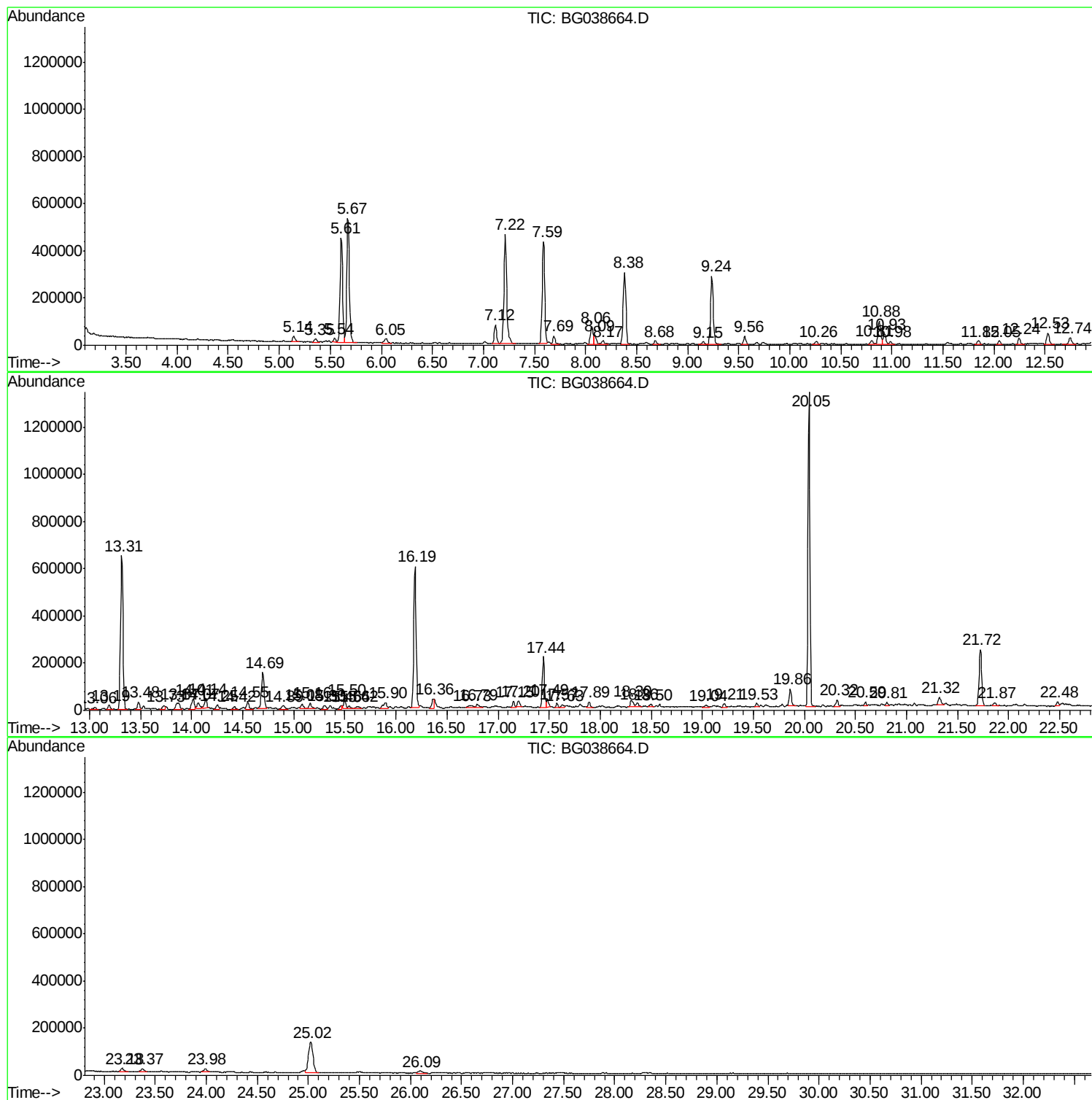
Sum of corrected areas: 12528419

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

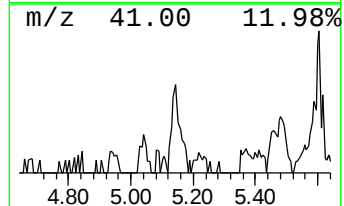
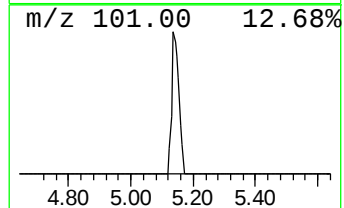
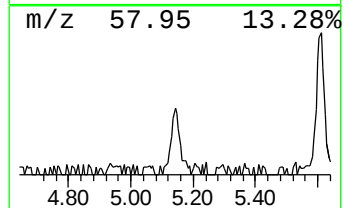
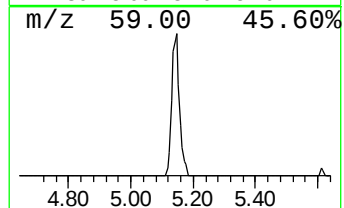
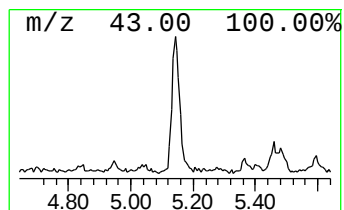
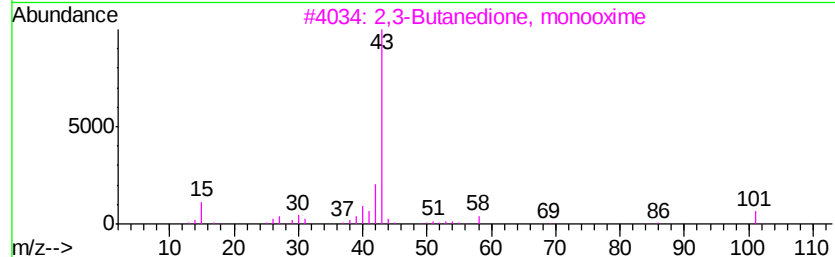
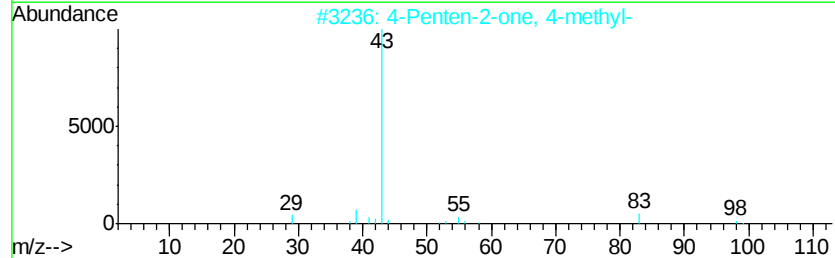
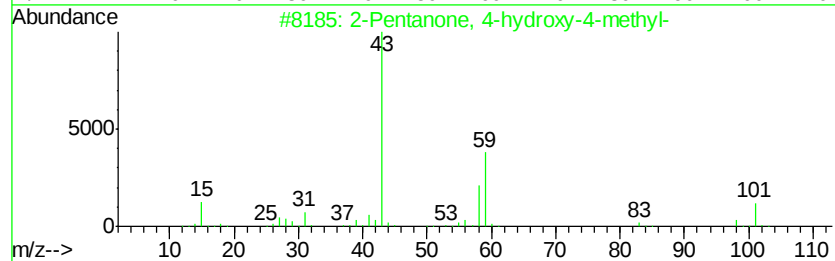
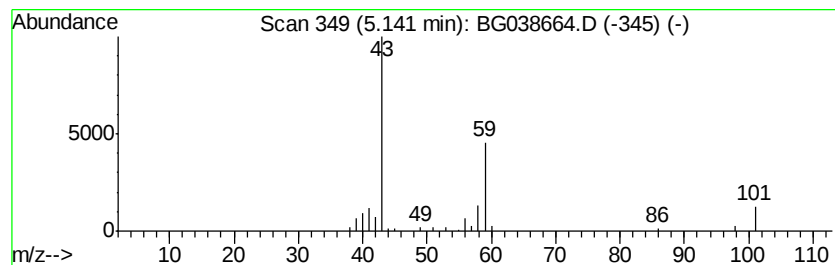
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.14 | 5.78 ng | 39132 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 39   |
| 2    |    |   | 4-Penten-2-one, 4-methyl-        | 98  | C6H10O  | 003744-02-3 | 9    |
| 3    |    |   | 2,3-Butanedione, monooxime       | 101 | C4H7NO2 | 000057-71-6 | 9    |
| 4    |    |   | 2-Nonanone, 9-hydroxy-           | 158 | C9H18O2 | 025368-56-3 | 9    |
| 5    |    |   | Diacetamide                      | 101 | C4H7NO2 | 000625-77-4 | 7    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

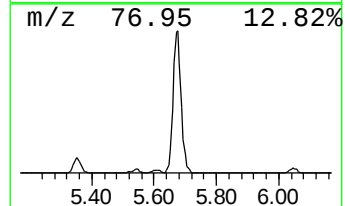
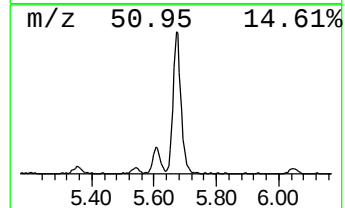
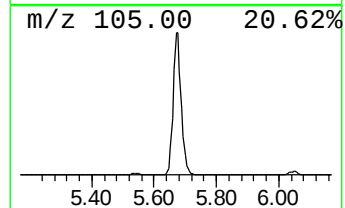
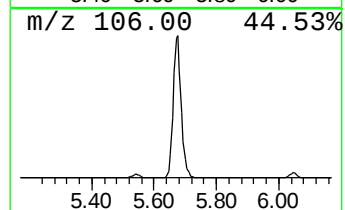
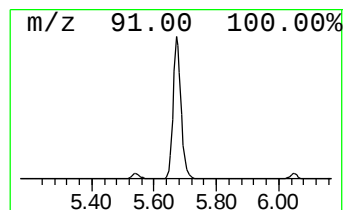
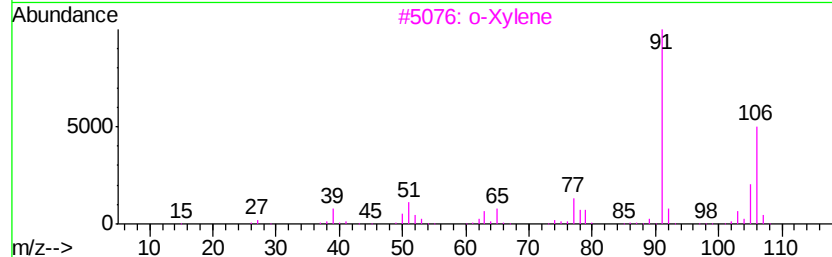
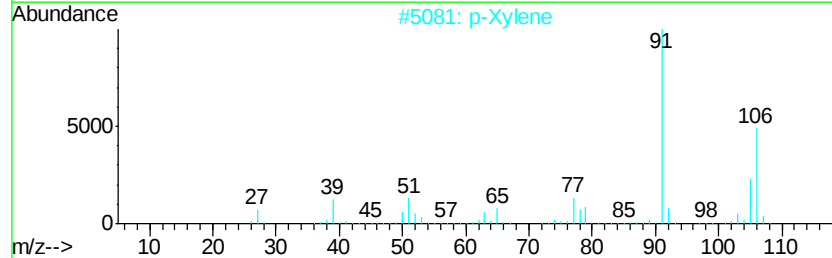
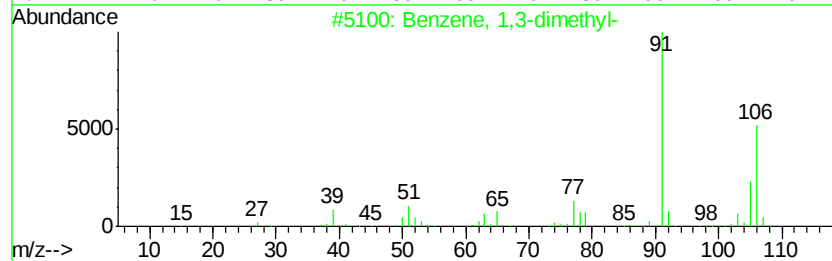
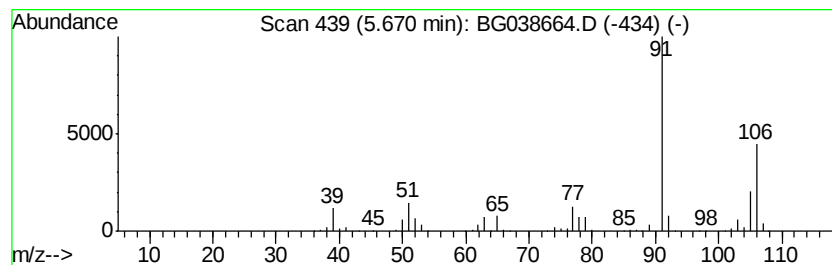
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Benzene, 1,3-dimethyl- Concentration Rank 1

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 5.67 | 139.93 ng | 947143 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-dimethyl-              | 106 | C8H10   | 000108-38-3 | 97   |
| 2    |    | p-Xylene                            | 106 | C8H10   | 000106-42-3 | 97   |
| 3    |    | o-Xylene                            | 106 | C8H10   | 000095-47-6 | 95   |
| 4    |    | Ethylbenzene                        | 106 | C8H10   | 000100-41-4 | 87   |
| 5    |    | Cyclopentene, 1-ethenyl-3-methyl... | 106 | C8H10   | 061142-07-2 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

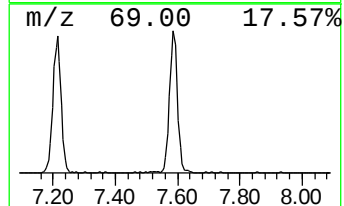
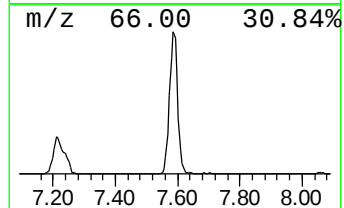
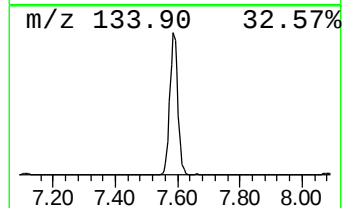
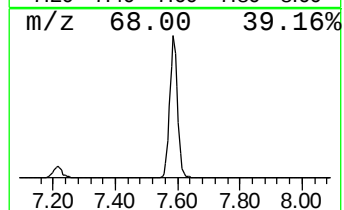
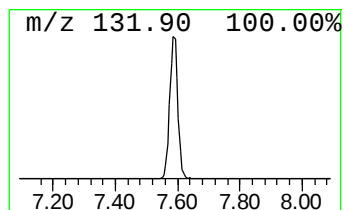
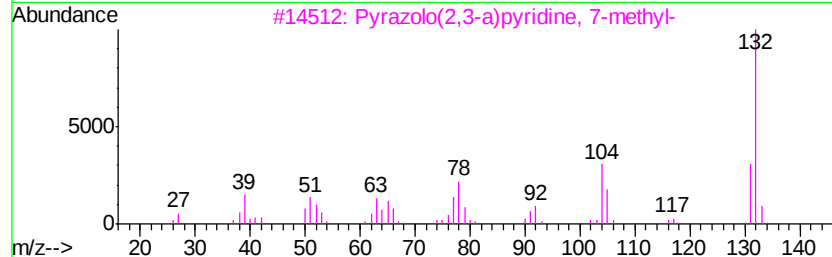
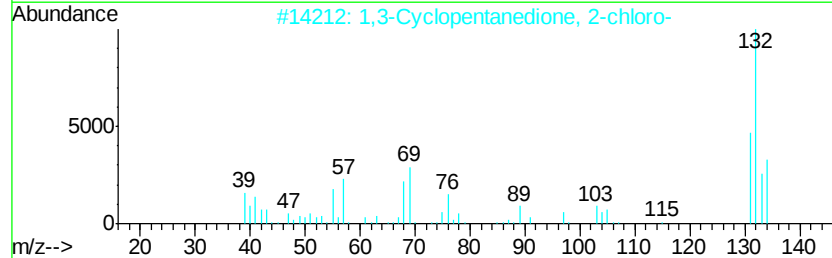
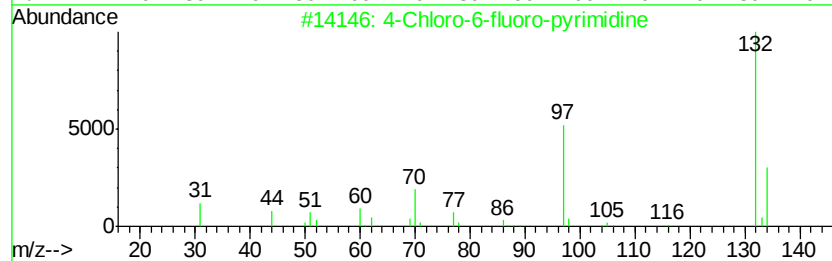
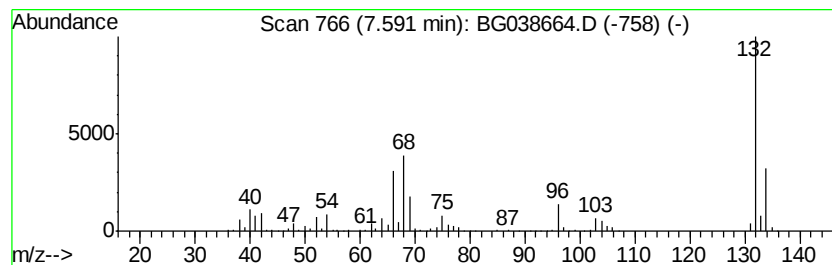
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 unknown7.59 Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 7.59 | 113.40 ng | 767541 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# | of | Tentative ID                       | MW  | MolForm   | CAS#        | Qual |
|------|----|------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 4-Chloro-6-fluoro-pyrimidine       | 132 | C4H2ClFN2 | 051422-01-6 | 27   |
| 2    |    | 1,3-Cyclopentanedione, 2-chloro-   | 132 | C5H5ClO2  | 014203-19-1 | 25   |
| 3    |    | Pyrazolo(2,3-a)pyridine, 7-methyl- | 132 | C8H8N2    | 034760-58-2 | 22   |
| 4    |    | 5-Aminoindole                      | 132 | C8H8N2    | 005192-03-0 | 22   |
| 5    |    | 1H-Benzimidazole, 2-methyl-        | 132 | C8H8N2    | 000615-15-6 | 22   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

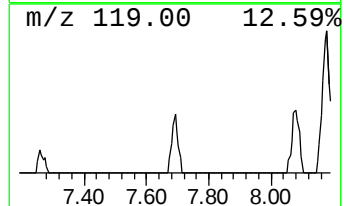
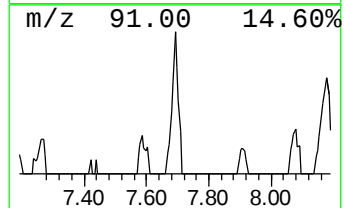
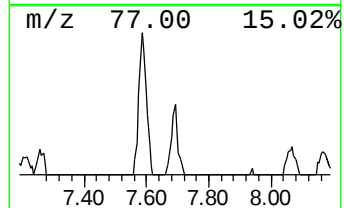
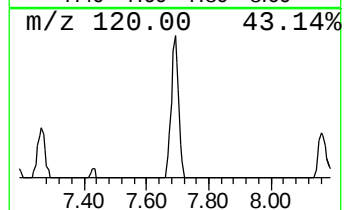
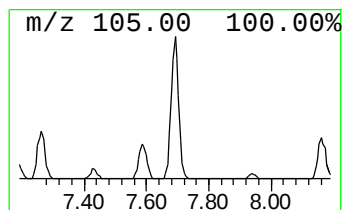
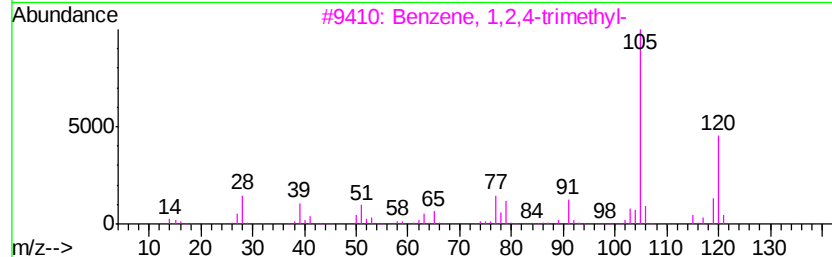
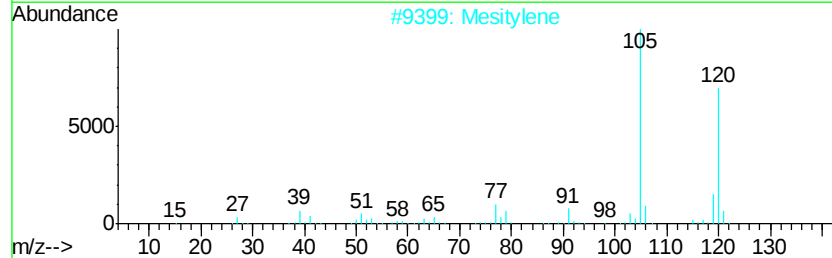
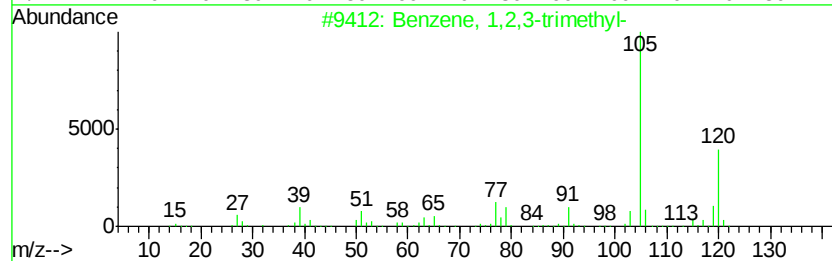
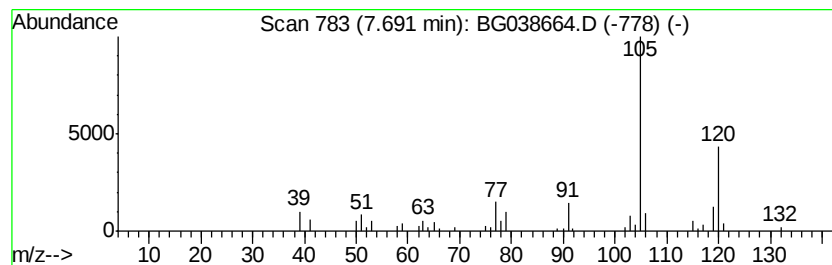
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1,2,3-trimethyl- Concentration Rank 5

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 7.69 | 8.21 ng | 55550 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 97   |
| 2    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 94   |
| 3    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 94   |
| 4    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

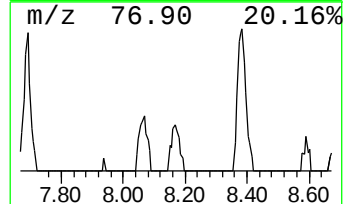
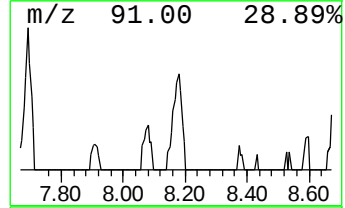
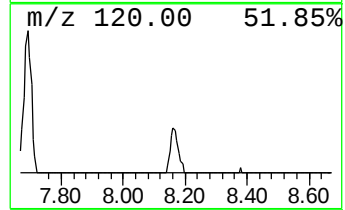
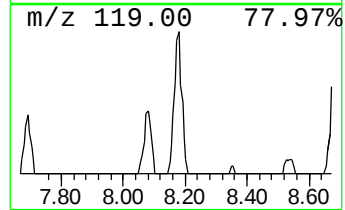
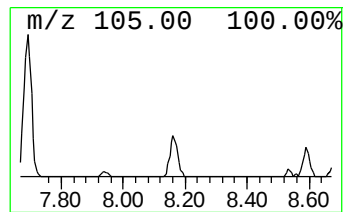
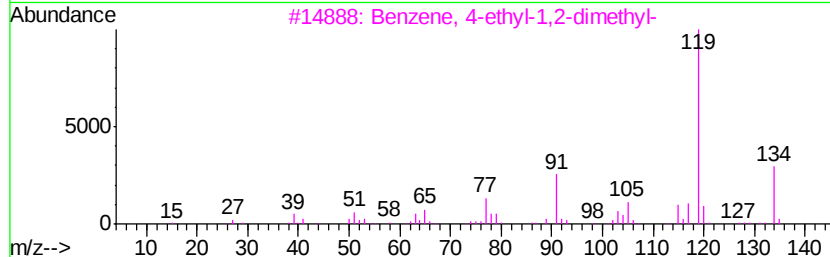
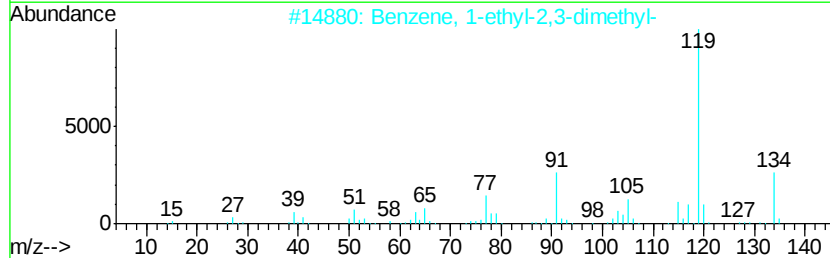
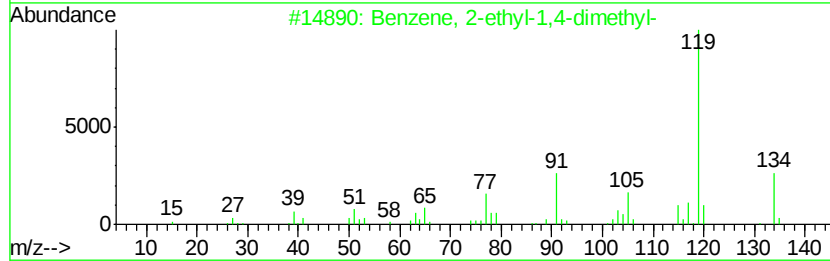
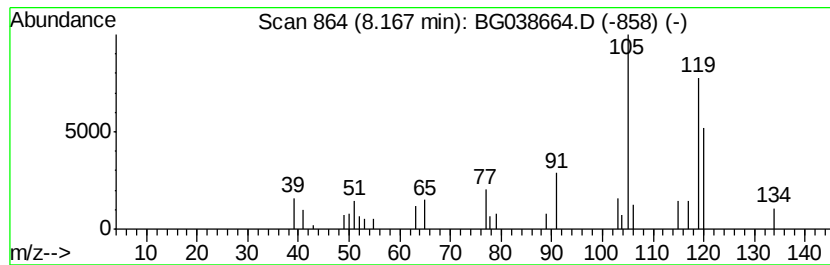
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 8.17 | 4.05 ng | 27409 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 80   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 72   |
| 3    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 72   |
| 4    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 72   |
| 5    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

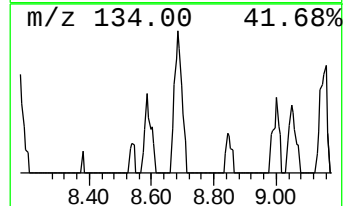
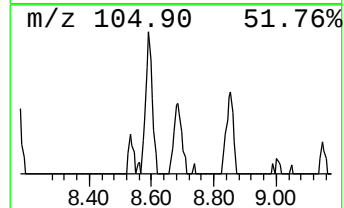
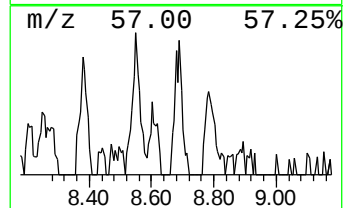
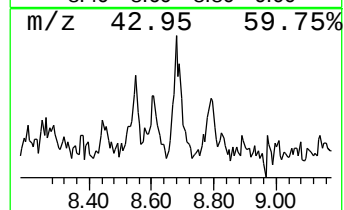
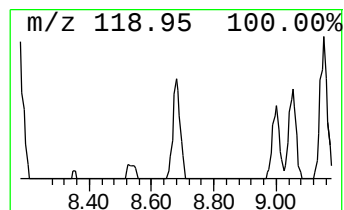
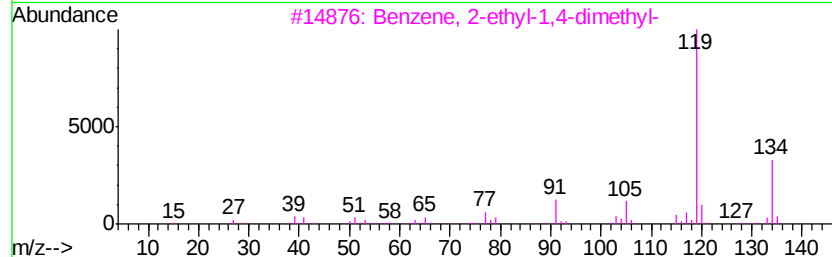
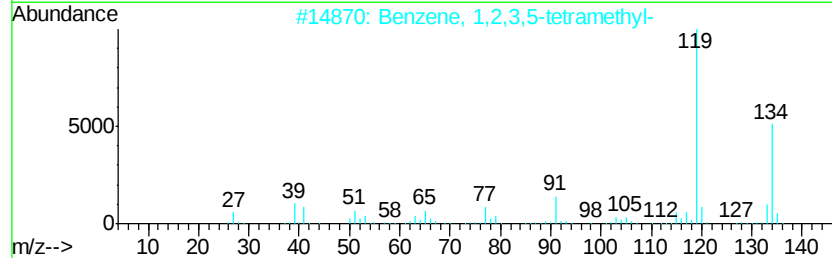
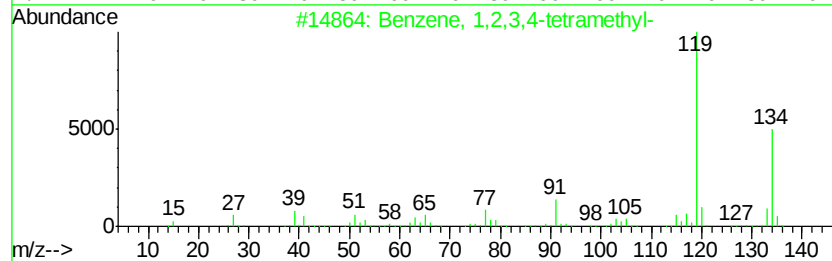
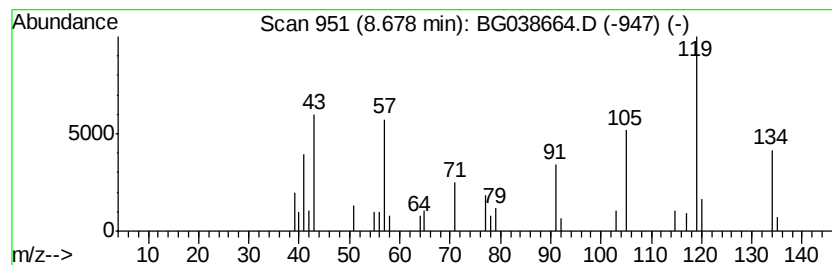
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 16

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 8.68 | 3.68 ng | 24878 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 83   |
| 2    |    |   | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 83   |
| 3    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 80   |
| 4    |    |   | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 80   |
| 5    |    |   | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

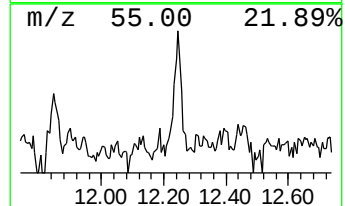
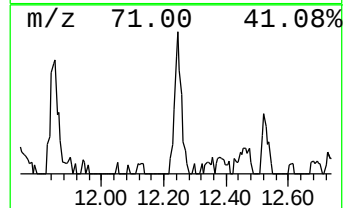
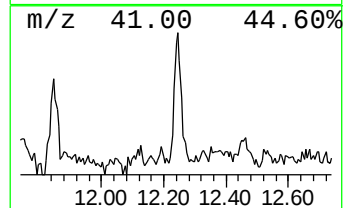
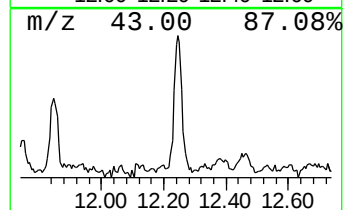
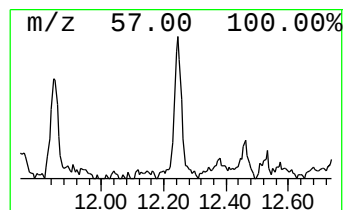
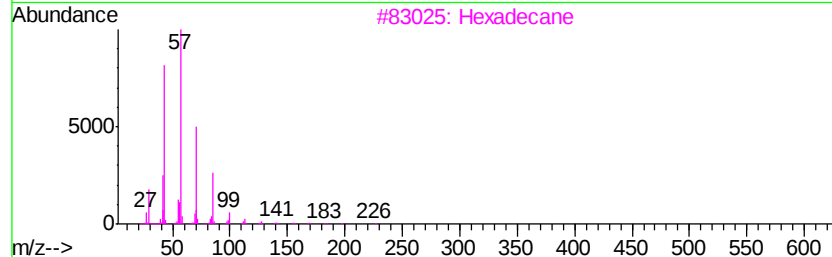
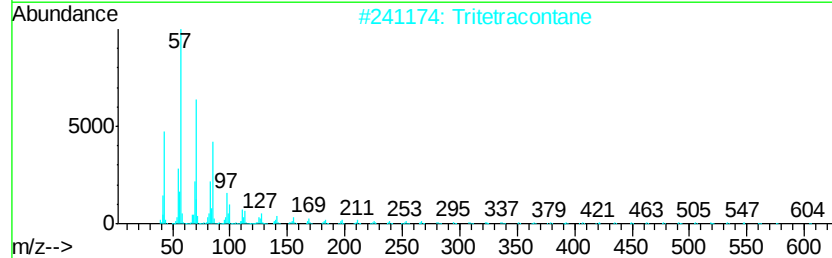
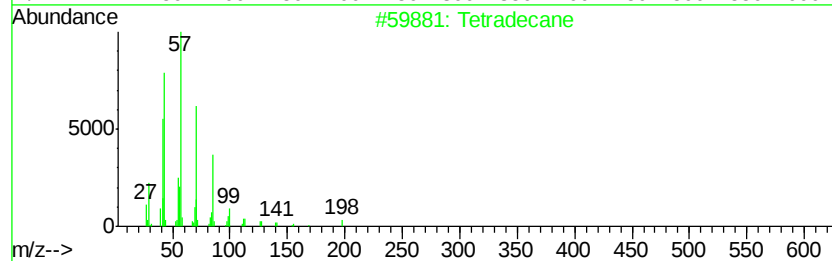
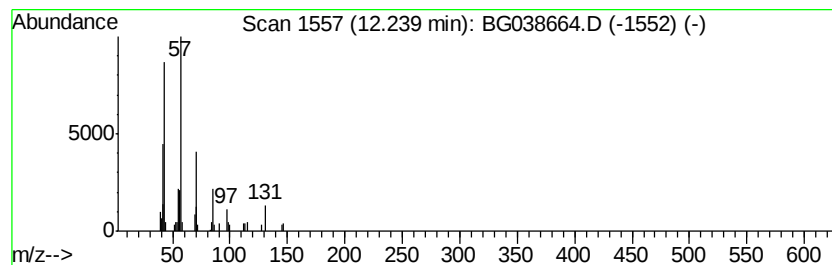
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Tetradecane Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.24 | 4.38 ng | 42775 | Naphthalene-d8   | 10.88 |

| Hit# | of | Tentative ID                | MW  | MolForm     | CAS#        | Qual |
|------|----|-----------------------------|-----|-------------|-------------|------|
| 1    | 5  | Tetradecane                 | 198 | C14H30      | 000629-59-4 | 80   |
| 2    |    | Tritetracontane             | 605 | C43H88      | 007098-21-7 | 72   |
| 3    |    | Hexadecane                  | 226 | C16H34      | 000544-76-3 | 64   |
| 4    |    | Hexatriacontane             | 507 | C36H74      | 000630-06-8 | 64   |
| 5    |    | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

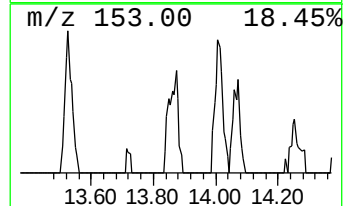
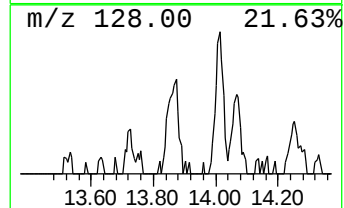
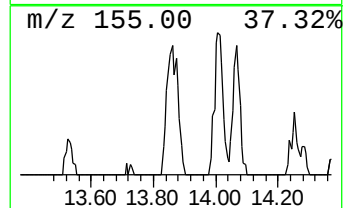
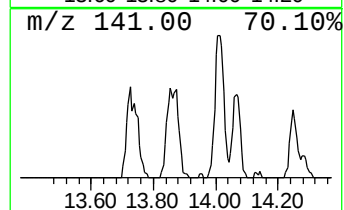
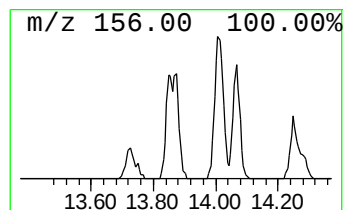
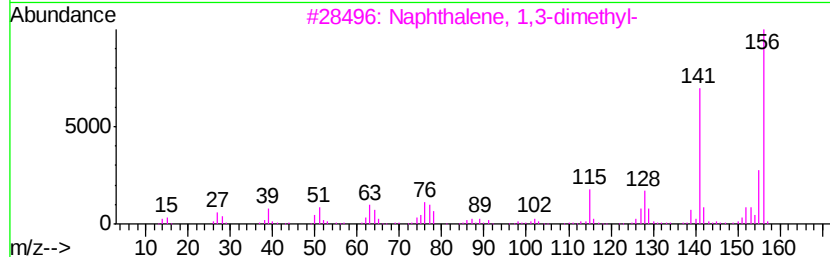
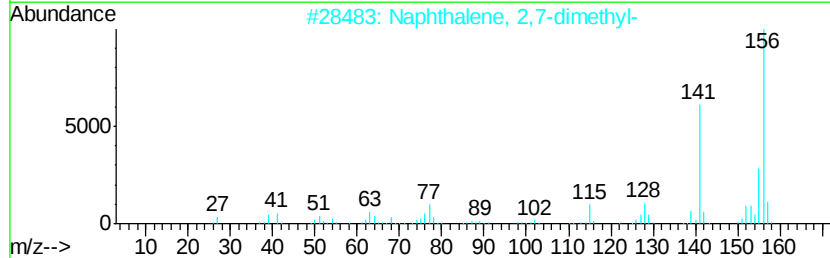
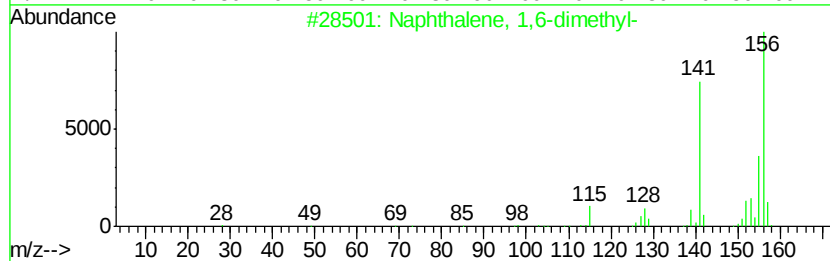
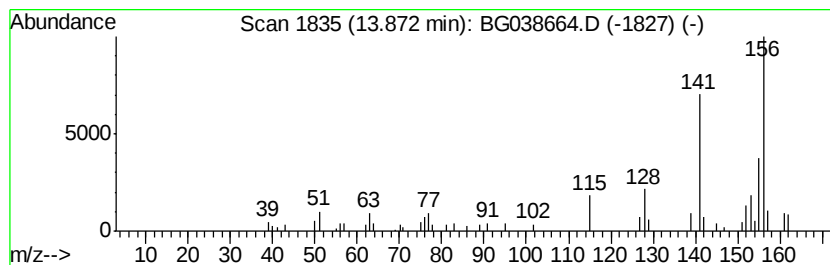
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Naphthalene, 1,6-dimethyl- Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.87 | 5.33 ng | 69763 | Acenaphthene-d10 | 14.69 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 93   |
| 2    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 93   |
| 3    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 91   |
| 4    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 90   |
| 5    |    |   | Naphthalene, 1,8-dimethyl- | 156 | C12H12  | 000569-41-5 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

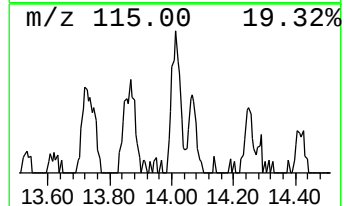
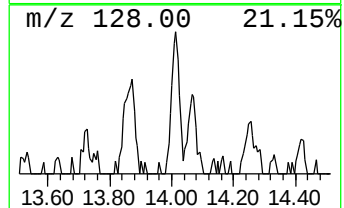
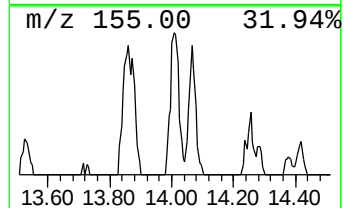
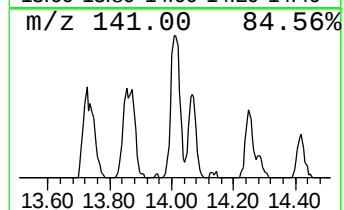
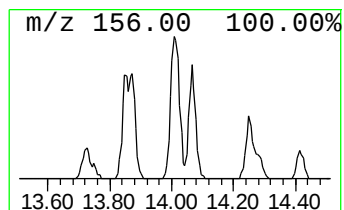
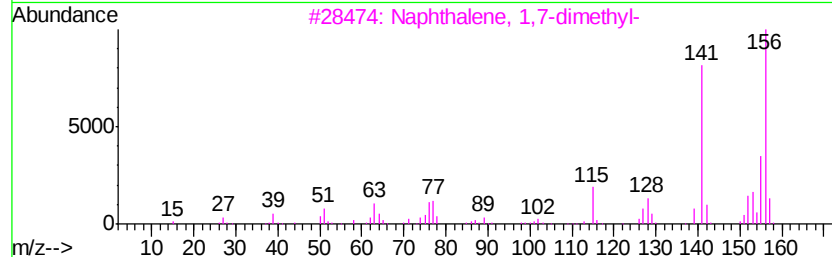
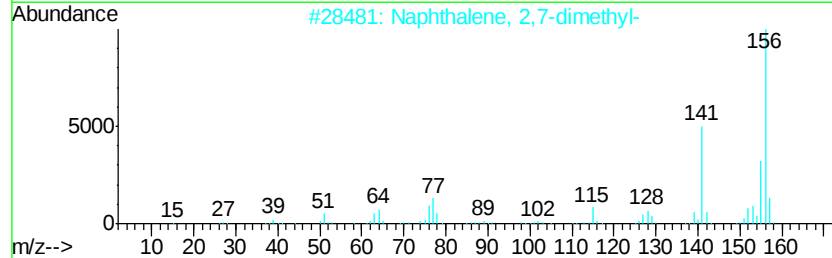
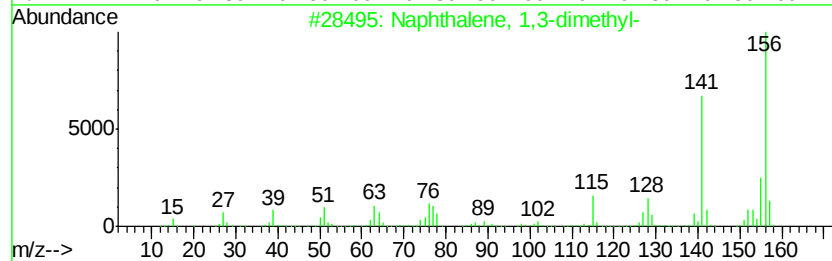
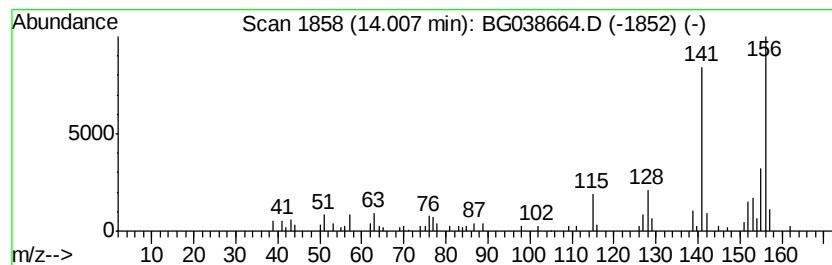
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Naphthalene, 1,3-dimethyl- Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.01 | 6.08 ng | 79615 | Acenaphthene-d10 | 14.69 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 2    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 95   |
| 3    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 94   |
| 4    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 94   |
| 5    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

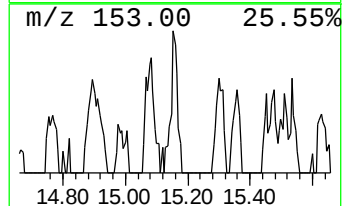
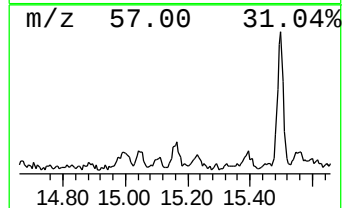
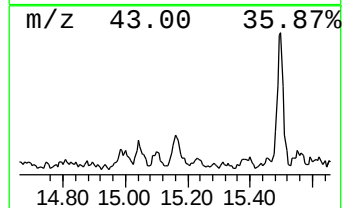
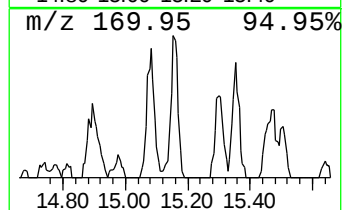
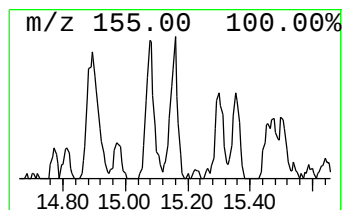
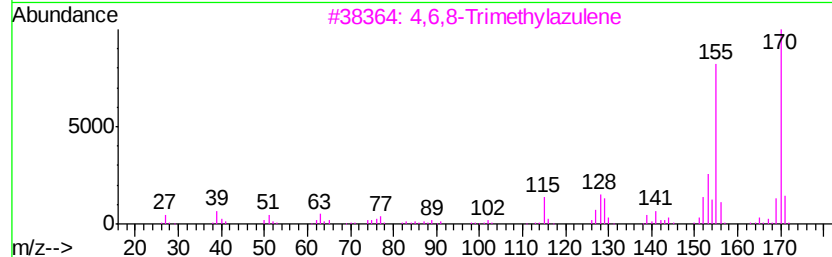
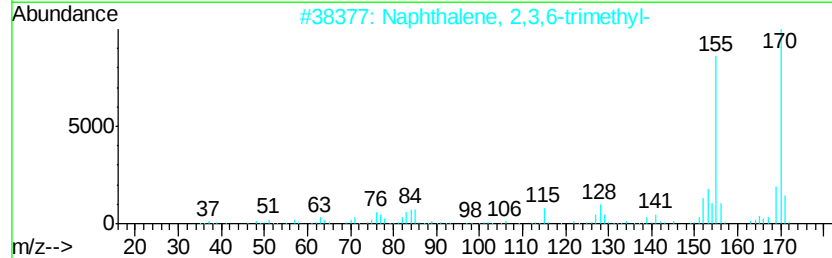
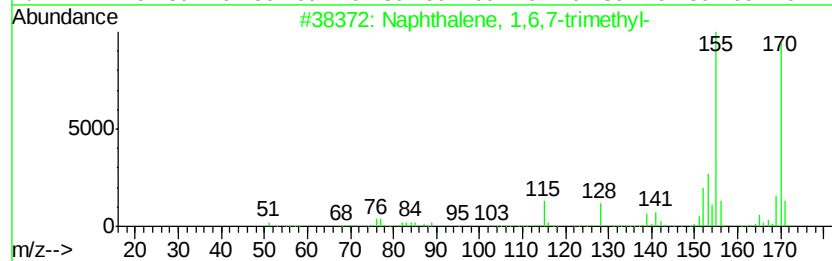
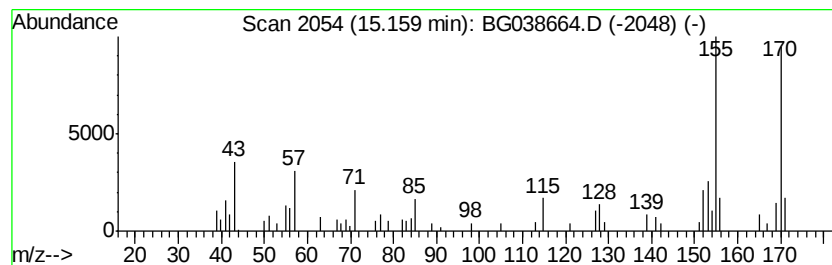
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Naphthalene, 1,6,7-trimethyl- Concentration Rank 18

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.16 | 3.58 ng | 46782 | Acenaphthene-d10 | 14.69 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 98   |
| 2    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 94   |
| 3    |    |   | 4,6,8-Trimethylazulene        | 170 | C13H14  | 000941-81-1 | 94   |
| 4    |    |   | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 93   |
| 5    |    |   | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

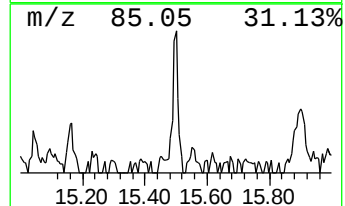
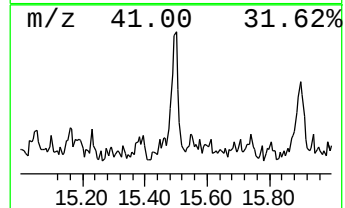
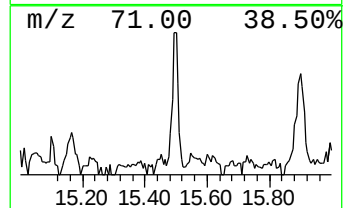
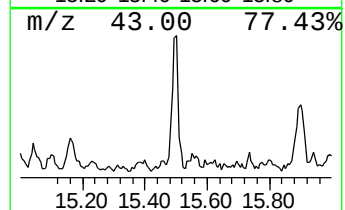
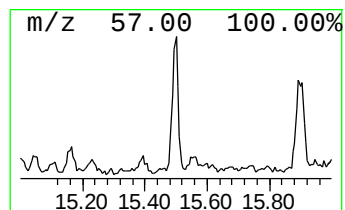
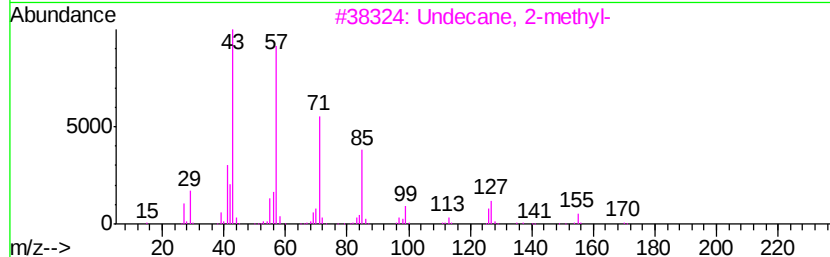
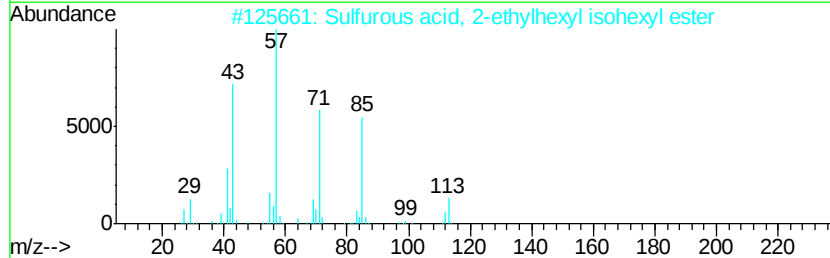
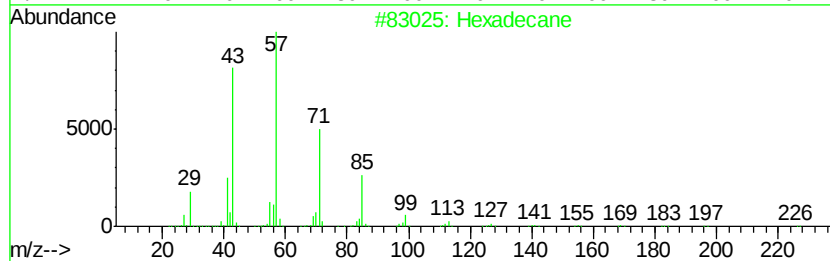
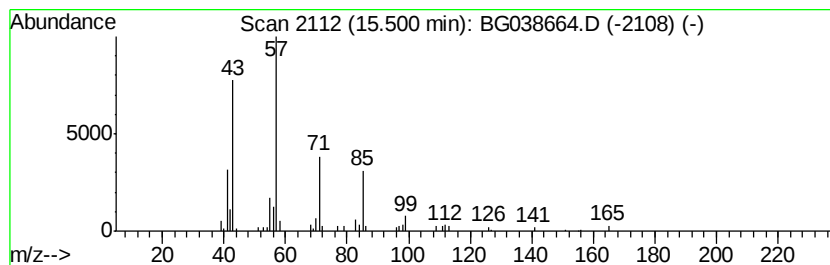
Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 18 Hexadecane Concentration Rank 13

| R.T.    | EstConc                             | Area          | Relative to ISTD | R.T.      |
|---------|-------------------------------------|---------------|------------------|-----------|
| 15.50   | 4.58 ng                             | 59990         | Acenaphthene-d10 | 14.69     |
| Hit# of | 5                                   | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Hexadecane                          | 226 C16H34    | 000544-76-3      | 90        |
| 2       | Sulfurous acid, 2-ethylhexyl iso... | 278 C14H30O3S | 1000309-19-0     | 72        |
| 3       | Undecane, 2-methyl-                 | 170 C12H26    | 007045-71-8      | 72        |
| 4       | 1-Iodoundecane                      | 282 C11H23I   | 004282-44-4      | 72        |
| 5       | Nonane, 5-butyl-                    | 184 C13H28    | 017312-63-9      | 64        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

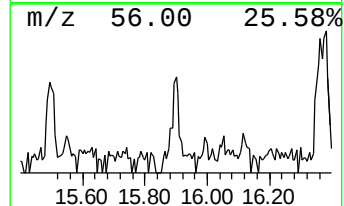
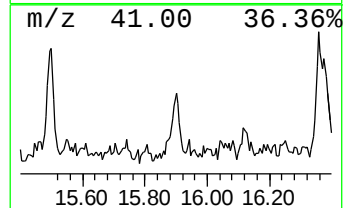
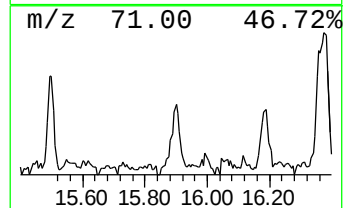
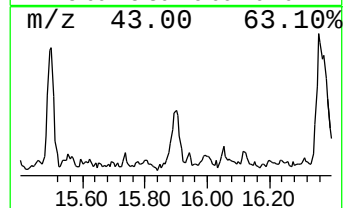
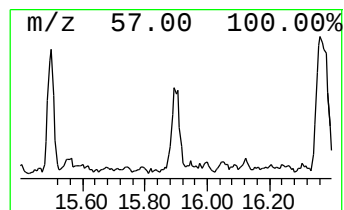
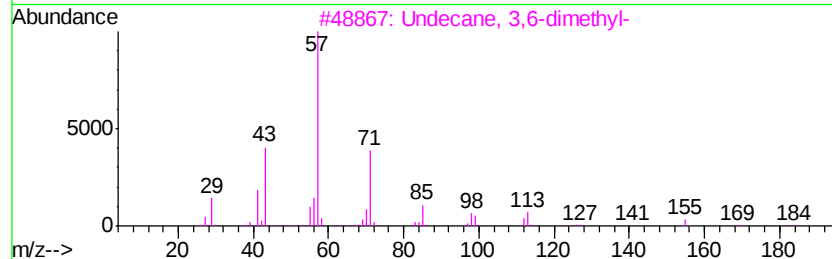
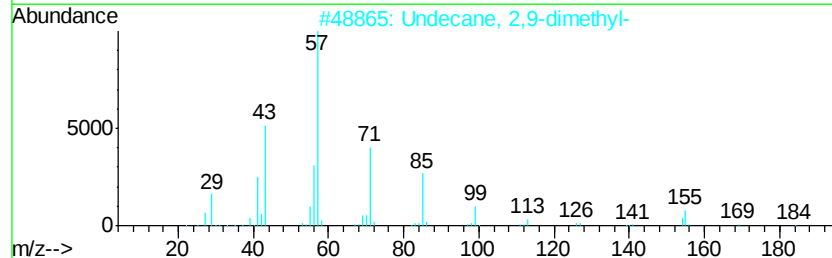
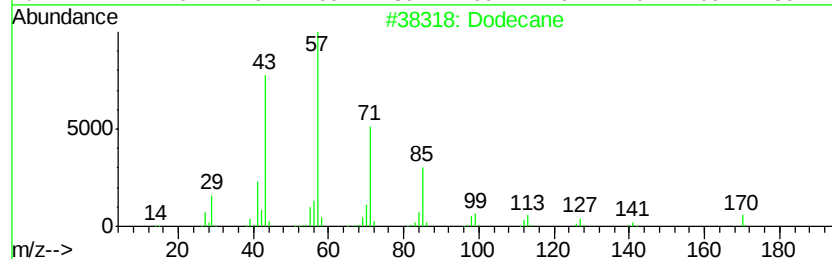
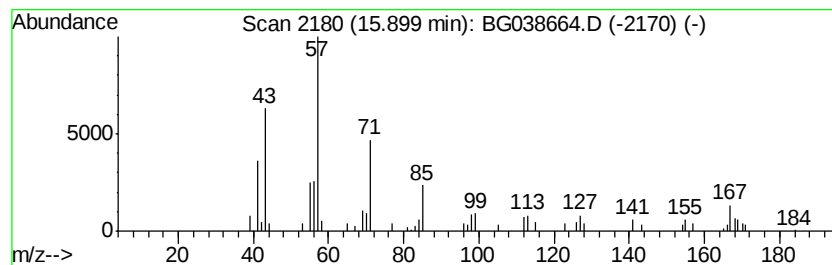
Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 19 Dodecane Concentration Rank 12

| R.T.    | EstConc                 | Area         | Relative to ISTD | R.T.           |
|---------|-------------------------|--------------|------------------|----------------|
| 15.90   | 4.78 ng                 | 62604        | Acenaphthene-d10 | 14.69          |
| Hit# of | 5                       | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Dodecane                |              | 170 C12H26       | 000112-40-3 68 |
| 2       | Undecane, 2,9-dimethyl- |              | 184 C13H28       | 017301-26-7 59 |
| 3       | Undecane, 3,6-dimethyl- |              | 184 C13H28       | 017301-28-9 58 |
| 4       | Nonane, 3,7-dimethyl-   |              | 156 C11H24       | 017302-32-8 53 |
| 5       | Eicosane                |              | 282 C20H42       | 000112-95-8 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
Data File : BG038664.D  
Acq On : 17 Dec 2018 15:44  
Operator : JU/SJ  
Sample : J6378-15  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

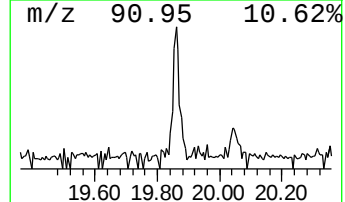
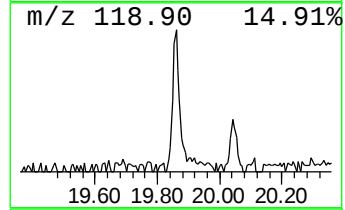
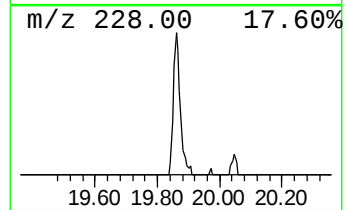
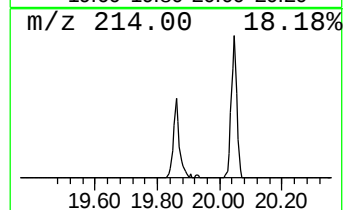
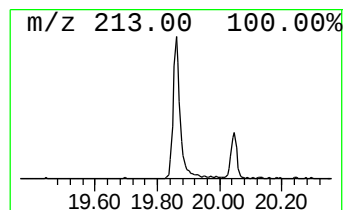
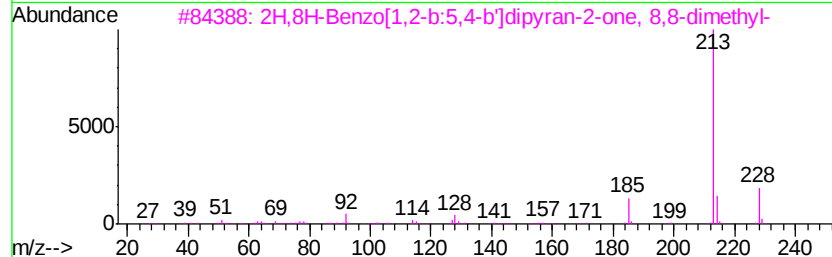
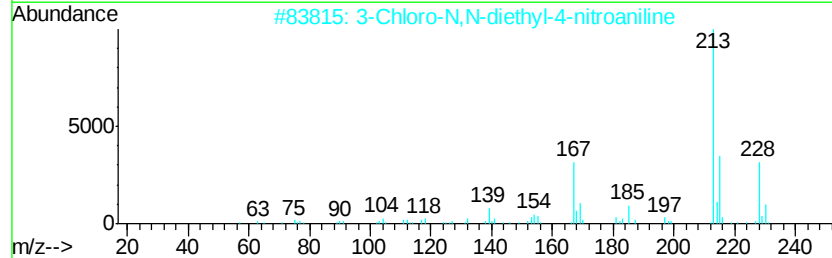
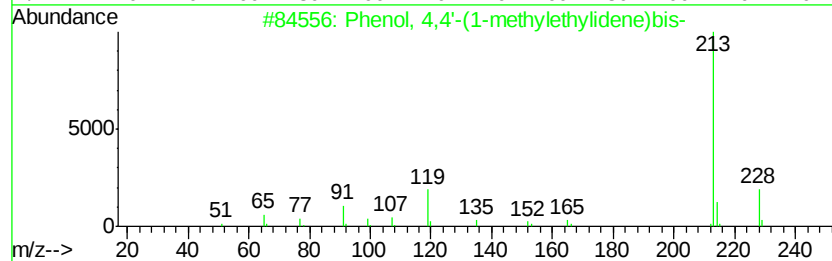
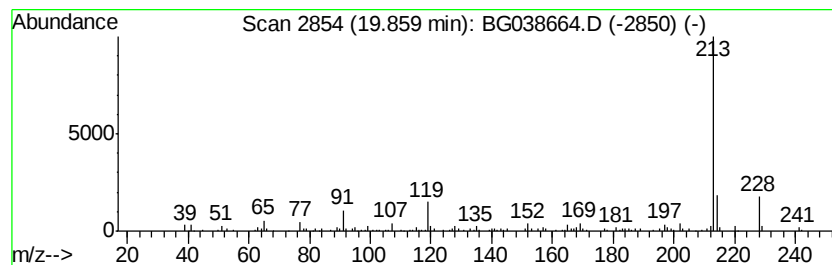
Instrument :  
BNA\_G  
ClientSampleId :  
P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 20 Phenol, 4,4'-(1-methylethyl... Concentration Rank 11

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 19.86   | 4.85 ng                             | 101197       | Chrysene-d12     | 21.72        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Phenol, 4,4'-(1-methylethylidene... | 228          | C15H16O2         | 000080-05-7  | 93   |      |
| 2       | 3-Chloro-N,N-diethyl-4-nitroaniline | 228          | C10H13ClN2O2     | 1000110-36-0 | 64   |      |
| 3       | 2H,8H-Benzo[1,2-b:5,4-b']dipyran... | 228          | C14H12O3         | 000553-19-5  | 64   |      |
| 4       | 2,5-bis(Trimethylsilyl)thiophene    | 228          | C10H20SSi2       | 017906-71-7  | 59   |      |
| 5       | Carbanilic acid, p-phenyl-          | 213          | C13H11NO2        | 004474-53-7  | 53   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121718\  
 Data File : BG038664.D  
 Acq On : 17 Dec 2018 15:44  
 Operator : JU/SJ  
 Sample : J6378-15  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-SD013-0612-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 5.14  | 5.8     | ng    | 39132    | 1                     | 8.06  | 135371 | 20.0 |
| Benzene, 1,3-dime... | 5.67  | 139.9   | ng    | 947143   | 1                     | 8.06  | 135371 | 20.0 |
| unknown7.59          | 7.59  | 113.4   | ng    | 767541   | 1                     | 8.06  | 135371 | 20.0 |
| Benzene, 1,2,3-tr... | 7.69  | 8.2     | ng    | 55550    | 1                     | 8.06  | 135371 | 20.0 |
| Benzene, 2-ethyl-... | 8.17  | 4.0     | ng    | 27409    | 1                     | 8.06  | 135371 | 20.0 |
| Benzene, 1,2,3,4-... | 8.68  | 3.7     | ng    | 24878    | 1                     | 8.06  | 135371 | 20.0 |
| Tetradecane          | 12.24 | 4.4     | ng    | 42775    | 2                     | 10.88 | 195191 | 20.0 |
| Naphthalene, 1,6-... | 13.87 | 5.3     | ng    | 69763    | 3                     | 14.69 | 261694 | 20.0 |
| Naphthalene, 1,3-... | 14.01 | 6.1     | ng    | 79615    | 3                     | 14.69 | 261694 | 20.0 |
| Naphthalene, 1,6,... | 15.16 | 3.6     | ng    | 46782    | 3                     | 14.69 | 261694 | 20.0 |
| Hexadecane           | 15.50 | 4.6     | ng    | 59990    | 3                     | 14.69 | 261694 | 20.0 |
| Dodecane             | 15.90 | 4.8     | ng    | 62604    | 3                     | 14.69 | 261694 | 20.0 |
| Phenol, 4,4'-(1-m... | 19.86 | 4.8     | ng    | 101197   | 5                     | 21.72 | 417167 | 20.0 |