

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM091918\  
 Data File : BM016806.D  
 Acq On : 19 Sep 2018 21:14  
 Operator : SJ/JU  
 Sample : J4896-13  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C08M8

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % 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\_M\METHODS\SOM-EPA-BM091018MA.M  
 Title : SVOA 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         | 3.016       | 3             | 5           | 18           | rVB      | 2619077        | 2862732       | 52.88%          | 4.445%        |
| 2         | 3.104       | 18            | 20          | 24           | rVB2     | 23494          | 26664         | 0.49%           | 0.041%        |
| 3         | 3.269       | 44            | 48          | 57           | rVB      | 127945         | 162255        | 3.00%           | 0.252%        |
| 4         | 3.893       | 150           | 154         | 158          | rVB      | 16566          | 22304         | 0.41%           | 0.035%        |
| 5         | 5.051       | 345           | 351         | 352          | rBV      | 208002         | 250451        | 4.63%           | 0.389%        |
| 6         | 5.081       | 352           | 356         | 364          | rVB      | 410623         | 630335        | 11.64%          | 0.979%        |
| 7         | 5.957       | 501           | 505         | 509          | rVB5     | 5960           | 8804          | 0.16%           | 0.014%        |
| 8         | 6.892       | 656           | 664         | 676          | rBV      | 888218         | 1360556       | 25.13%          | 2.112%        |
| 9         | 7.063       | 686           | 693         | 704          | rBV      | 719509         | 1072254       | 19.80%          | 1.665%        |
| 10        | 7.257       | 719           | 726         | 734          | rBV      | 926296         | 1416296       | 26.16%          | 2.199%        |
| 11        | 7.610       | 780           | 786         | 793          | rVB      | 36451          | 60146         | 1.11%           | 0.093%        |
| 12        | 7.722       | 798           | 805         | 810          | rBV      | 1049990        | 1730946       | 31.97%          | 2.688%        |
| 13        | 8.069       | 857           | 864         | 872          | rVB      | 159553         | 256525        | 4.74%           | 0.398%        |
| 14        | 8.422       | 917           | 924         | 931          | rBV      | 1019310        | 1571562       | 29.03%          | 2.440%        |
| 15        | 8.875       | 991           | 1001        | 1012         | rBV      | 773686         | 1277618       | 23.60%          | 1.984%        |
| 16        | 9.310       | 1069          | 1075        | 1078         | rBV5     | 4308           | 8320          | 0.15%           | 0.013%        |
| 17        | 9.592       | 1116          | 1123        | 1129         | rBV      | 559456         | 900280        | 16.63%          | 1.398%        |
| 18        | 9.639       | 1129          | 1131        | 1138         | rVB4     | 16903          | 23887         | 0.44%           | 0.037%        |
| 19        | 9.975       | 1181          | 1188        | 1197         | rBV2     | 34361          | 59809         | 1.10%           | 0.093%        |
| 20        | 10.122      | 1206          | 1213        | 1223         | rBV      | 1051879        | 1664147       | 30.74%          | 2.584%        |
| 21        | 10.369      | 1248          | 1255        | 1263         | rVB      | 293610         | 489899        | 9.05%           | 0.761%        |
| 22        | 10.504      | 1270          | 1278        | 1286         | rBV      | 1398982        | 2344198       | 43.30%          | 3.640%        |
| 23        | 10.639      | 1295          | 1301        | 1312         | rVB      | 423869         | 709442        | 13.10%          | 1.102%        |
| 24        | 10.880      | 1334          | 1342        | 1348         | rVB      | 58172          | 102929        | 1.90%           | 0.160%        |
| 25        | 11.104      | 1377          | 1380        | 1384         | rBV3     | 4329           | 5981          | 0.11%           | 0.009%        |
| 26        | 11.310      | 1408          | 1415        | 1421         | rVB6     | 18870          | 34450         | 0.64%           | 0.053%        |
| 27        | 11.775      | 1487          | 1494        | 1502         | rBV7     | 8209           | 23629         | 0.44%           | 0.037%        |
| 28        | 12.098      | 1543          | 1549        | 1551         | rBV      | 19974          | 31127         | 0.57%           | 0.048%        |
| 29        | 12.133      | 1551          | 1555        | 1568         | rVB      | 47441          | 94746         | 1.75%           | 0.147%        |
| 30        | 12.504      | 1614          | 1618        | 1620         | rBV3     | 11191          | 15350         | 0.28%           | 0.024%        |
| 31        | 12.539      | 1620          | 1624        | 1632         | rVB4     | 13352          | 21503         | 0.40%           | 0.033%        |
| 32        | 12.780      | 1658          | 1665        | 1672         | rVB2     | 17589          | 29402         | 0.54%           | 0.046%        |
| 33        | 12.974      | 1695          | 1698        | 1703         | rVB6     | 5773           | 8643          | 0.16%           | 0.013%        |
| 34        | 13.151      | 1722          | 1728        | 1733         | rBV2     | 55834          | 78379         | 1.45%           | 0.122%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM091918\  
 Data File : BM016806.D  
 Acq On : 19 Sep 2018 21:14  
 Operator : SJ/JU  
 Sample : J4896-13  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C08M8

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % 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\_M\METHODS\SOM-EPA-BM091018MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.774 | 1828 | 1834 | 1839 | rBV  | 1706071 | 2310310 | 42.67% | 3.587% |
| 36 | 13.821 | 1839 | 1842 | 1847 | rVB  | 63090   | 81323   | 1.50%  | 0.126% |
| 37 | 14.051 | 1870 | 1881 | 1892 | rBV2 | 1838400 | 2660821 | 49.15% | 4.131% |
| 38 | 14.363 | 1927 | 1934 | 1943 | rBV2 | 1943049 | 2972803 | 54.91% | 4.616% |
| 39 | 14.557 | 1961 | 1967 | 1978 | rBV  | 838072  | 1174516 | 21.69% | 1.824% |
| 40 | 14.674 | 1983 | 1987 | 1990 | rVV2 | 32277   | 42841   | 0.79%  | 0.067% |
| 41 | 14.716 | 1990 | 1994 | 2001 | rVB2 | 54684   | 84723   | 1.56%  | 0.132% |
| 42 | 14.786 | 2001 | 2006 | 2011 | rBV7 | 14129   | 21335   | 0.39%  | 0.033% |
| 43 | 14.845 | 2011 | 2016 | 2021 | rBV4 | 11799   | 16656   | 0.31%  | 0.026% |
| 44 | 14.915 | 2021 | 2028 | 2040 | rBV  | 86874   | 172990  | 3.20%  | 0.269% |
| 45 | 15.180 | 2071 | 2073 | 2079 | rVB5 | 4827    | 5969    | 0.11%  | 0.009% |
| 46 | 15.357 | 2097 | 2103 | 2112 | rVB  | 2651602 | 3698340 | 68.31% | 5.742% |
| 47 | 15.468 | 2116 | 2122 | 2135 | rVV  | 529819  | 748842  | 13.83% | 1.163% |
| 48 | 15.598 | 2139 | 2144 | 2149 | rVB3 | 29480   | 39563   | 0.73%  | 0.061% |
| 49 | 16.098 | 2224 | 2229 | 2232 | rBV5 | 5007    | 9203    | 0.17%  | 0.014% |
| 50 | 16.233 | 2247 | 2252 | 2254 | rBV3 | 8019    | 12583   | 0.23%  | 0.020% |
| 51 | 16.315 | 2263 | 2266 | 2270 | rVB4 | 6552    | 10225   | 0.19%  | 0.016% |
| 52 | 16.392 | 2275 | 2279 | 2283 | rBV6 | 9171    | 12742   | 0.24%  | 0.020% |
| 53 | 16.433 | 2283 | 2286 | 2289 | rBV4 | 5856    | 6905    | 0.13%  | 0.011% |
| 54 | 16.521 | 2298 | 2301 | 2306 | rBV3 | 39094   | 49760   | 0.92%  | 0.077% |
| 55 | 16.610 | 2312 | 2316 | 2322 | rBV  | 53067   | 70834   | 1.31%  | 0.110% |
| 56 | 16.892 | 2360 | 2364 | 2368 | rVV3 | 11578   | 18355   | 0.34%  | 0.028% |
| 57 | 16.945 | 2371 | 2373 | 2377 | rVB6 | 9323    | 8281    | 0.15%  | 0.013% |
| 58 | 17.109 | 2393 | 2401 | 2407 | rBV  | 2572051 | 3553321 | 65.63% | 5.517% |
| 59 | 17.209 | 2411 | 2418 | 2428 | rVV  | 2778753 | 4064252 | 75.07% | 6.310% |
| 60 | 17.292 | 2428 | 2432 | 2437 | rVB5 | 37694   | 47514   | 0.88%  | 0.074% |
| 61 | 17.627 | 2485 | 2489 | 2495 | rBV6 | 11206   | 18909   | 0.35%  | 0.029% |
| 62 | 17.886 | 2529 | 2533 | 2543 | rBV4 | 88880   | 140552  | 2.60%  | 0.218% |
| 63 | 18.015 | 2550 | 2555 | 2563 | rBV  | 335286  | 499340  | 9.22%  | 0.775% |
| 64 | 19.139 | 2743 | 2746 | 2749 | rBV  | 46980   | 58460   | 1.08%  | 0.091% |
| 65 | 19.174 | 2749 | 2752 | 2763 | rVB5 | 65468   | 114562  | 2.12%  | 0.178% |
| 66 | 19.303 | 2769 | 2774 | 2781 | rBV2 | 198610  | 292554  | 5.40%  | 0.454% |
| 67 | 19.503 | 2802 | 2808 | 2816 | rBV  | 3824417 | 5150923 | 95.14% | 7.997% |
| 68 | 21.297 | 3108 | 3113 | 3123 | rBV  | 3747183 | 4541743 | 83.89% | 7.052% |
| 69 | 22.374 | 3293 | 3296 | 3305 | rVB3 | 145362  | 231812  | 4.28%  | 0.360% |
| 70 | 22.497 | 3313 | 3317 | 3328 | rVB  | 520935  | 750650  | 13.86% | 1.165% |
| 71 | 22.880 | 3379 | 3382 | 3388 | rVB  | 186429  | 279935  | 5.17%  | 0.435% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM091918\  
Data File : BM016806.D  
Acq On : 19 Sep 2018 21:14  
Operator : SJ/JU  
Sample : J4896-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C08M8

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF  
Sampling : 1  
Start Thrs: 0.2  
Stop Thrs : 0

Filtering: 5  
Min Area: 0.1 % 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\_M\METHODS\SOM-EPA-BM091018MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |     |         |         |         |        |
|----|--------|------|------|------|-----|---------|---------|---------|--------|
| 72 | 23.391 | 3462 | 3469 | 3475 | rBV | 3027071 | 5414090 | 100.00% | 8.406% |
| 73 | 23.450 | 3476 | 3479 | 3485 | rVV | 266268  | 444900  | 8.22%   | 0.691% |
| 74 | 23.533 | 3487 | 3493 | 3506 | rVB | 2507046 | 4808740 | 88.82%  | 7.466% |
| 75 | 24.103 | 3586 | 3590 | 3597 | rVB | 233379  | 408974  | 7.55%   | 0.635% |

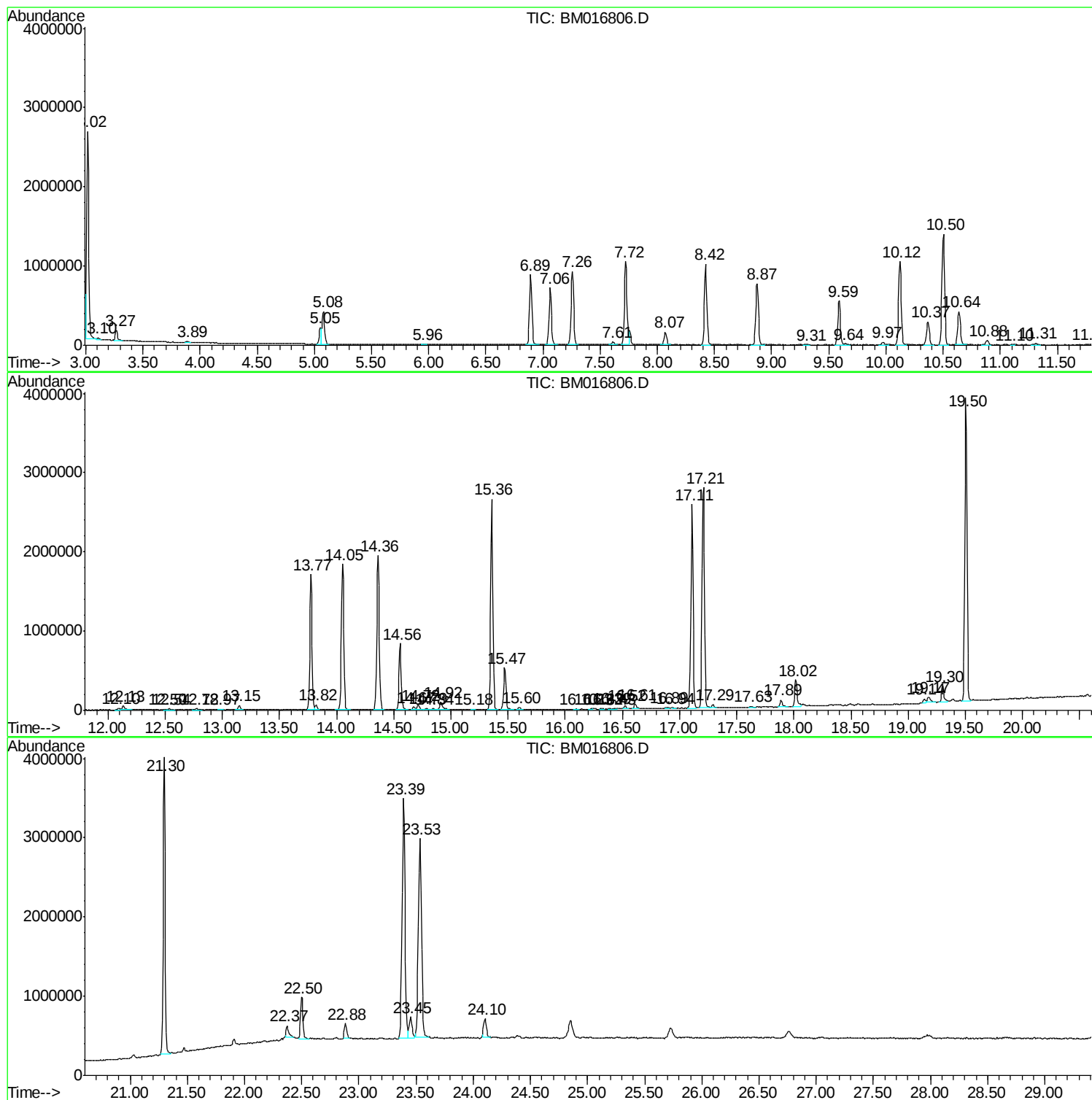
Sum of corrected areas: 64406720

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM091918\  
Data File : BM016806.D  
Acq On : 19 Sep 2018 21:14  
Operator : SJ/JU  
Sample : J4896-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C08M8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM091018MA.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM091918\  
Data File : BM016806.D  
Acq On : 19 Sep 2018 21:14  
Operator : SJ/JU  
Sample : J4896-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C08M8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM091018MA.M  
Quant Title : SVOA CALIBRATION

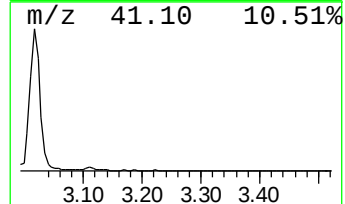
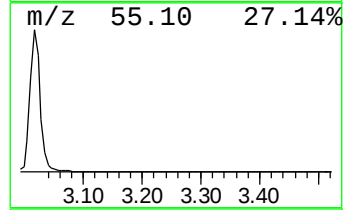
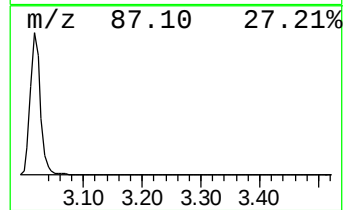
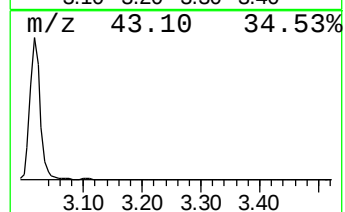
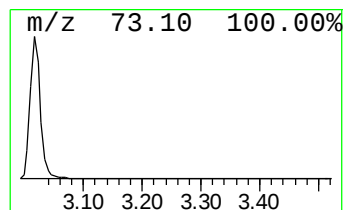
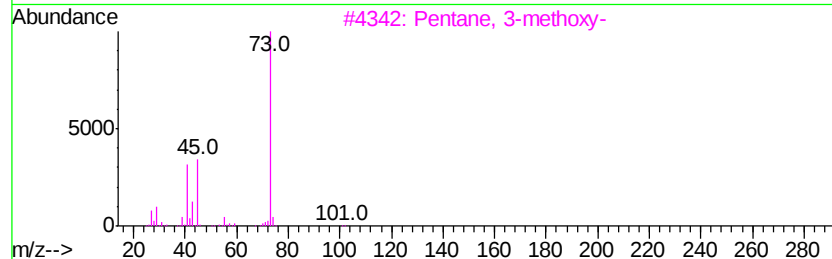
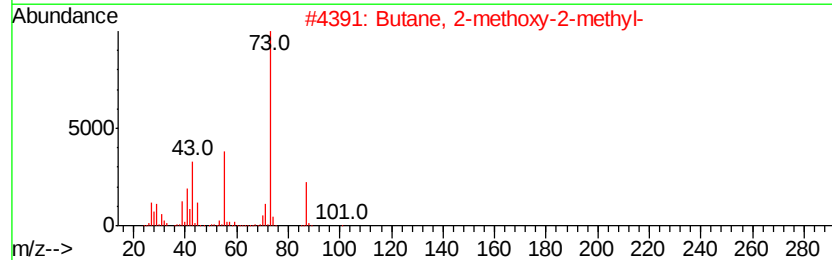
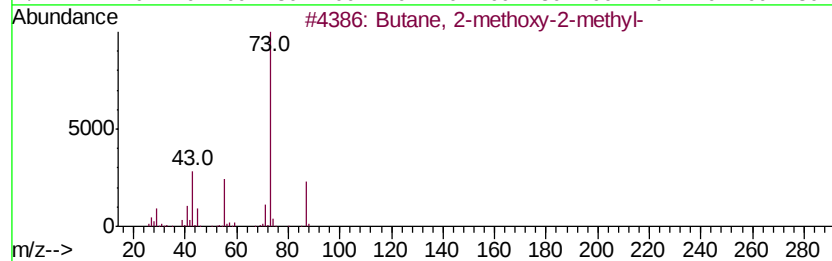
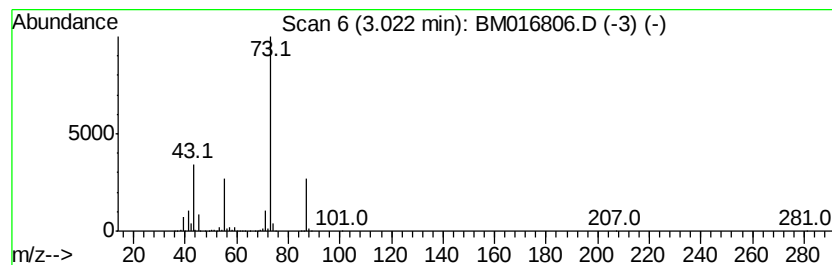
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 3.02 | 33.08 ng/ul | 2862730 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 56   |
| 3    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |
| 4    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 9    |
| 5    |    | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM091918\  
Data File : BM016806.D  
Acq On : 19 Sep 2018 21:14  
Operator : SJ/JU  
Sample : J4896-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C08M8

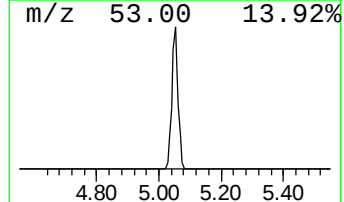
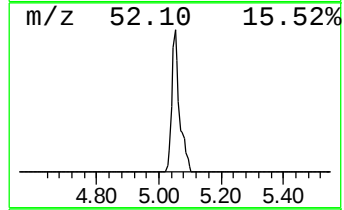
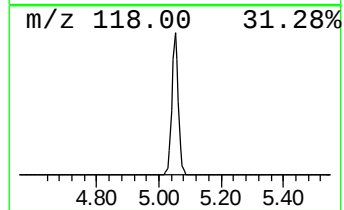
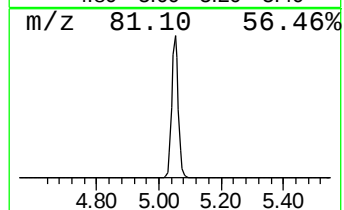
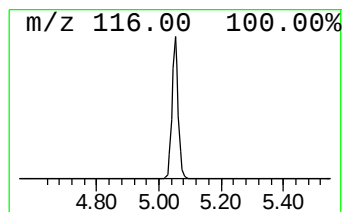
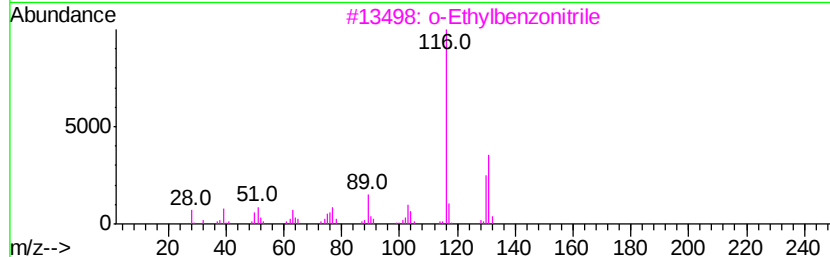
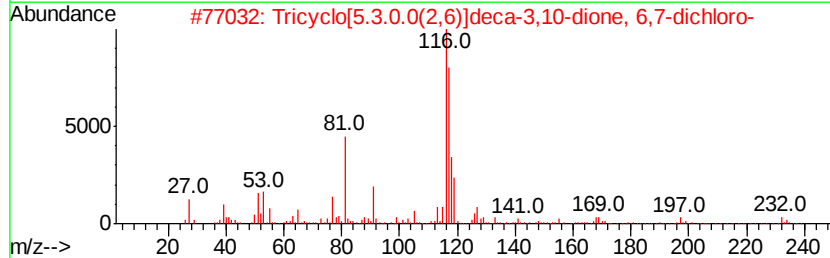
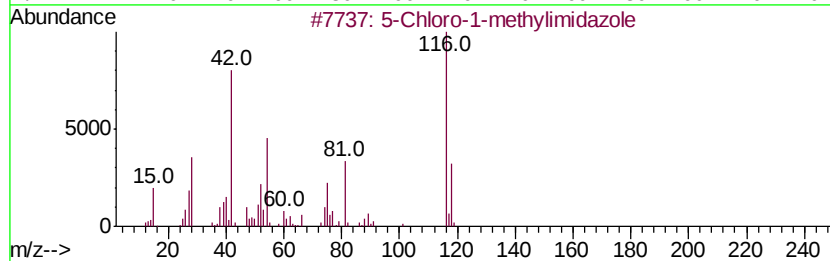
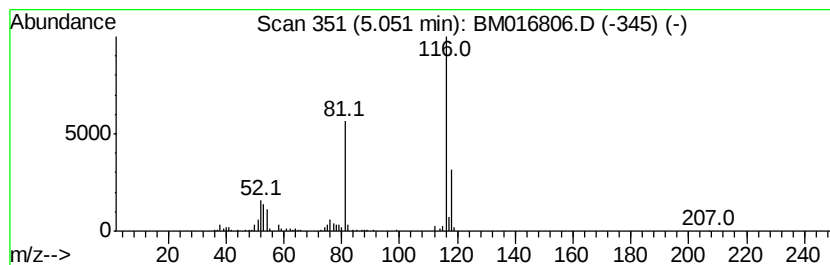
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM091018MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 5-Chloro-1-methylimidazole Concentration Rank 6

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 5.05 | 2.89 ng/ul | 250451 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 5-Chloro-1-methylimidazole          | 116 | C4H5ClN2    | 000872-49-1  | 50   |
| 2    |    | Tricyclo[5.3.0.0(2,6)]deca-3,10-... | 232 | C10H10Cl2O2 | 1000160-07-7 | 39   |
| 3    |    | o-Ethylbenzonitrile                 | 131 | C9H9N       | 034136-59-9  | 28   |
| 4    |    | 3-Ethylthiolane                     | 116 | C6H12S      | 062184-67-2  | 9    |
| 5    |    | 1-Cyclopropanecarbonitrile, 1-amino | 82  | C4H6N2      | 196311-65-6  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM091918\  
Data File : BM016806.D  
Acq On : 19 Sep 2018 21:14  
Operator : SJ/JU  
Sample : J4896-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C08M8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM091018MA.M  
Quant Title : SVOA CALIBRATION

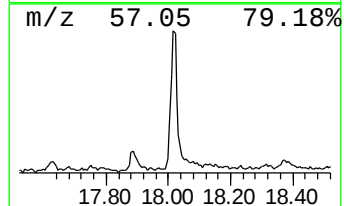
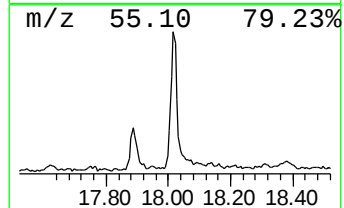
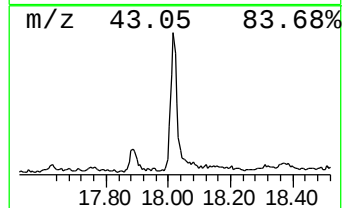
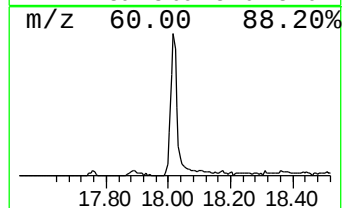
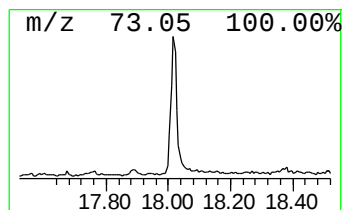
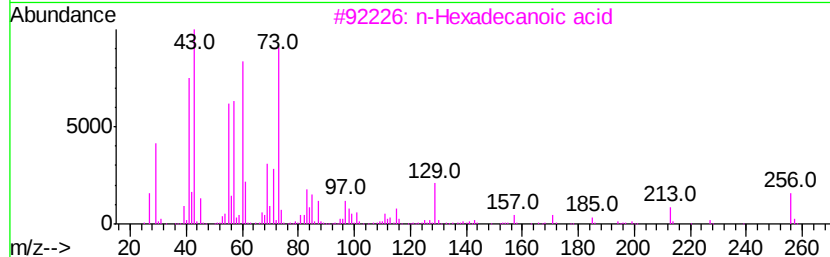
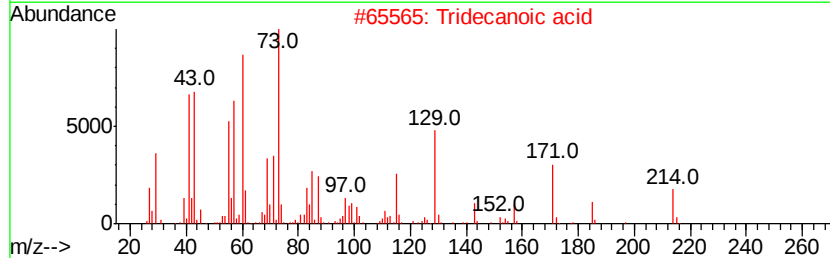
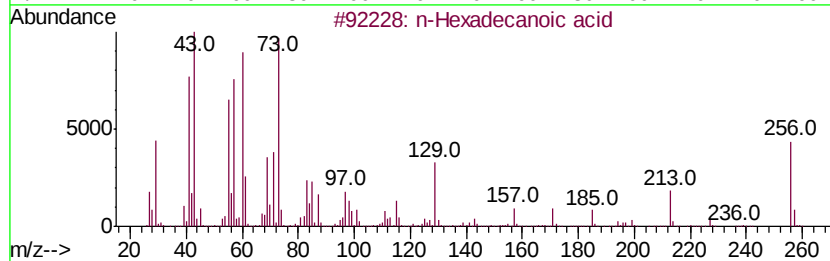
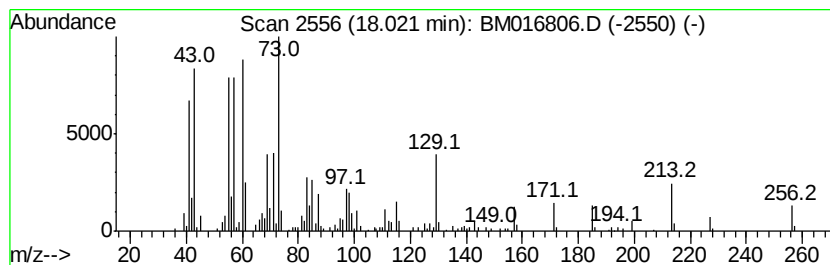
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 n-Hexadecanoic acid Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.02 | 2.81 ng/ul | 499340 | Phenanthrene-d10 | 17.11 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97   |
| 2       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 91   |
| 3       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 87   |
| 4       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 87   |
| 5       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM091918\  
Data File : BM016806.D  
Acq On : 19 Sep 2018 21:14  
Operator : SJ/JU  
Sample : J4896-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

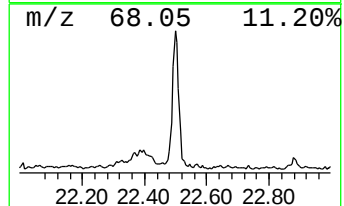
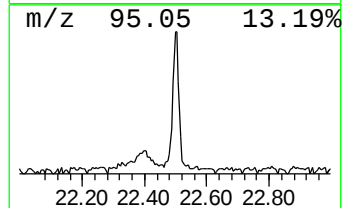
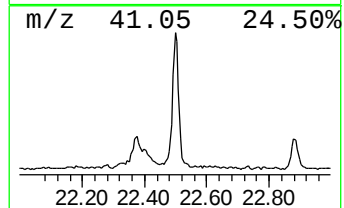
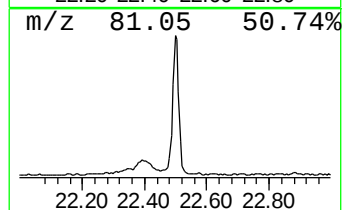
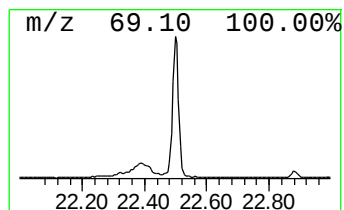
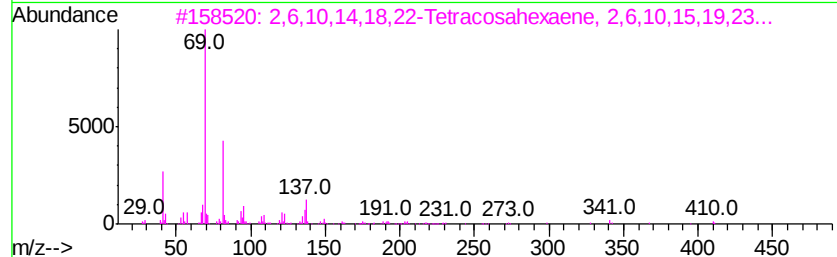
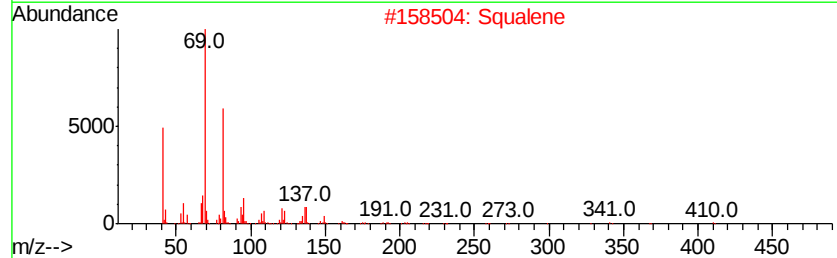
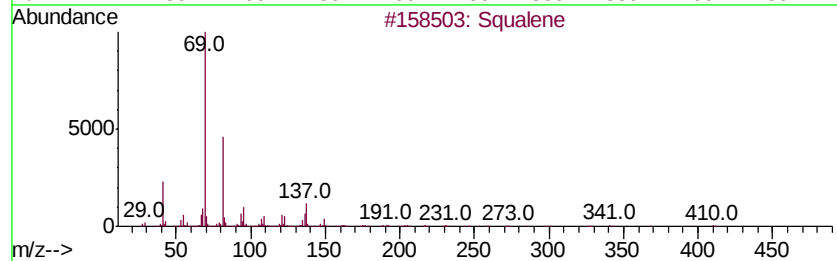
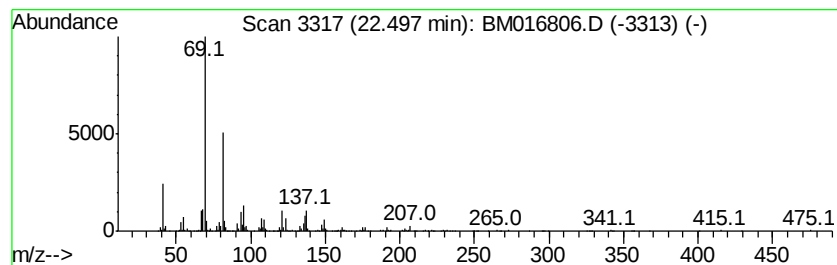
Instrument :  
BNA\_M  
ClientSampleId :  
C08M8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM091018MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Squalene Concentration Rank 4

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 22.50   | 3.12 ng/ul                          | 750650       | Perylene-d12     | 23.53     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Squalene                            | 410 C30H50   | 007683-64-9      | 91        |
| 2       | Squalene                            | 410 C30H50   | 007683-64-9      | 91        |
| 3       | 2,6,10,14,18,22-Tetracosahexaene... | 410 C30H50   | 000111-02-4      | 91        |
| 4       | 2,6,10,14,18,22-Tetracosahexaene... | 410 C30H50   | 000111-02-4      | 90        |
| 5       | 4,8,12-Tetradecatrienal, 5,9,13-... | 248 C17H28O  | 066408-55-7      | 80        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091918\  
Data File : BM016806.D  
Acq On : 19 Sep 2018 21:14  
Operator : SJ/JU  
Sample : J4896-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C08M8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM091018MA.M  
Quant Title : SVOA 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 |
| Butane, 2-methoxy... | 3.02  | 33.1    | ng/ul | 2862730  | 1                     | 7.72  | 1730950 | 20.0 |
| 5-Chloro-1-methyl... | 5.05  | 2.9     | ng/ul | 250451   | 1                     | 7.72  | 1730950 | 20.0 |
| n-Hexadecanoic acid  | 18.02 | 2.8     | ng/ul | 499340   | 4                     | 17.11 | 3553320 | 20.0 |
| Squalene             | 22.50 | 3.1     | ng/ul | 750650   | 6                     | 23.53 | 4808740 | 20.0 |