

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF010719\  
 Data File : BF111879.D  
 Acq On : 7 Jan 2019 16:32  
 Operator : JU/SJ  
 Sample : K1041-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-1-5-COMP

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\_F\METHODS\8270-BF010719.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         | 2.193       | 15            | 18          | 33           | rVB      | 149918         | 286217        | 6.17%           | 0.674%        |
| 2         | 5.110       | 508           | 514         | 523          | rVB      | 200353         | 269592        | 5.81%           | 0.635%        |
| 3         | 5.522       | 580           | 584         | 588          | rBV      | 3845732        | 4024925       | 86.72%          | 9.476%        |
| 4         | 6.534       | 750           | 756         | 768          | rBV      | 3703397        | 4276448       | 92.13%          | 10.069%       |
| 5         | 6.663       | 774           | 778         | 781          | rBV      | 4351469        | 4095080       | 88.23%          | 9.642%        |
| 6         | 6.886       | 812           | 816         | 820          | rBV      | 1286922        | 1074797       | 23.16%          | 2.531%        |
| 7         | 7.045       | 839           | 843         | 846          | rBV      | 3706342        | 3184161       | 68.60%          | 7.497%        |
| 8         | 7.445       | 906           | 911         | 914          | rBV      | 2733253        | 2704448       | 58.27%          | 6.367%        |
| 9         | 8.169       | 1030          | 1034        | 1037         | rBV      | 1676838        | 1389357       | 29.93%          | 3.271%        |
| 10        | 9.245       | 1212          | 1217        | 1220         | rBV      | 5233421        | 4641537       | 100.00%         | 10.928%       |
| 11        | 9.633       | 1280          | 1283        | 1287         | rVB      | 409460         | 314586        | 6.78%           | 0.741%        |
| 12        | 9.927       | 1328          | 1333        | 1336         | rBV      | 1669836        | 1517477       | 32.69%          | 3.573%        |
| 13        | 10.716      | 1462          | 1467        | 1470         | rBV      | 3374485        | 2968571       | 63.96%          | 6.989%        |
| 14        | 11.410      | 1581          | 1585        | 1588         | rBV      | 1738099        | 1546883       | 33.33%          | 3.642%        |
| 15        | 11.433      | 1588          | 1589        | 1592         | rVV      | 294600         | 170975        | 3.68%           | 0.403%        |
| 16        | 11.486      | 1592          | 1598        | 1601         | rVB      | 72526          | 66466         | 1.43%           | 0.156%        |
| 17        | 11.916      | 1665          | 1671        | 1672         | rBV      | 57702          | 72977         | 1.57%           | 0.172%        |
| 18        | 11.933      | 1672          | 1674        | 1681         | rVB3     | 210975         | 222549        | 4.79%           | 0.524%        |
| 19        | 12.021      | 1686          | 1689        | 1692         | rBV2     | 68388          | 79682         | 1.72%           | 0.188%        |
| 20        | 12.463      | 1759          | 1764        | 1767         | rBV2     | 58100          | 72265         | 1.56%           | 0.170%        |
| 21        | 12.621      | 1788          | 1791        | 1795         | rBV      | 450865         | 379645        | 8.18%           | 0.894%        |
| 22        | 12.716      | 1804          | 1807        | 1815         | rBV3     | 76536          | 95231         | 2.05%           | 0.224%        |
| 23        | 12.851      | 1825          | 1830        | 1836         | rBV      | 352727         | 373326        | 8.04%           | 0.879%        |
| 24        | 12.998      | 1850          | 1855        | 1858         | rBV      | 3793128        | 3737271       | 80.52%          | 8.799%        |
| 25        | 13.074      | 1864          | 1868        | 1874         | rVB5     | 40984          | 63068         | 1.36%           | 0.148%        |
| 26        | 13.180      | 1884          | 1886        | 1889         | rVB      | 61758          | 49917         | 1.08%           | 0.118%        |
| 27        | 13.286      | 1900          | 1904        | 1907         | rVB2     | 50559          | 53375         | 1.15%           | 0.126%        |
| 28        | 13.445      | 1927          | 1931        | 1934         | rBV3     | 39882          | 63219         | 1.36%           | 0.149%        |
| 29        | 13.892      | 2003          | 2007        | 2012         | rVB3     | 102385         | 117121        | 2.52%           | 0.276%        |
| 30        | 14.051      | 2026          | 2034        | 2037         | rBV      | 1247017        | 1317945       | 28.39%          | 3.103%        |
| 31        | 14.074      | 2037          | 2038        | 2041         | rVB      | 145774         | 93397         | 2.01%           | 0.220%        |
| 32        | 14.215      | 2056          | 2062        | 2069         | rVB3     | 69308          | 96443         | 2.08%           | 0.227%        |
| 33        | 14.439      | 2092          | 2100        | 2105         | rBV4     | 102497         | 253462        | 5.46%           | 0.597%        |
| 34        | 14.527      | 2112          | 2115        | 2120         | rVB4     | 74153          | 104431        | 2.25%           | 0.246%        |

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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OS-1-5-COMP

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\_F\METHODS\8270-BF010719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.839 | 2165 | 2168 | 2171 | rBV  | 67636   | 57527   | 1.24%  | 0.135% |
| 36 | 15.110 | 2209 | 2214 | 2222 | rBV  | 152139  | 305438  | 6.58%  | 0.719% |
| 37 | 15.180 | 2223 | 2226 | 2229 | rVV  | 76164   | 99191   | 2.14%  | 0.234% |
| 38 | 15.215 | 2229 | 2232 | 2236 | rVB3 | 53372   | 72346   | 1.56%  | 0.170% |
| 39 | 15.415 | 2262 | 2266 | 2271 | rVB  | 104732  | 130495  | 2.81%  | 0.307% |
| 40 | 15.474 | 2272 | 2276 | 2281 | rBV  | 142081  | 186812  | 4.02%  | 0.440% |
| 41 | 15.545 | 2282 | 2288 | 2291 | rVV  | 1081755 | 1358213 | 29.26% | 3.198% |
| 42 | 15.568 | 2291 | 2292 | 2297 | rVB  | 100191  | 103939  | 2.24%  | 0.245% |
| 43 | 16.015 | 2364 | 2368 | 2374 | rVB2 | 46060   | 69821   | 1.50%  | 0.164% |
| 44 | 16.527 | 2452 | 2455 | 2461 | rVB2 | 31323   | 54484   | 1.17%  | 0.128% |
| 45 | 17.027 | 2535 | 2540 | 2549 | rVB2 | 56211   | 116238  | 2.50%  | 0.274% |
| 46 | 17.133 | 2553 | 2558 | 2563 | rBV8 | 24964   | 54616   | 1.18%  | 0.129% |
| 47 | 17.474 | 2611 | 2616 | 2623 | rBV2 | 45581   | 86800   | 1.87%  | 0.204% |

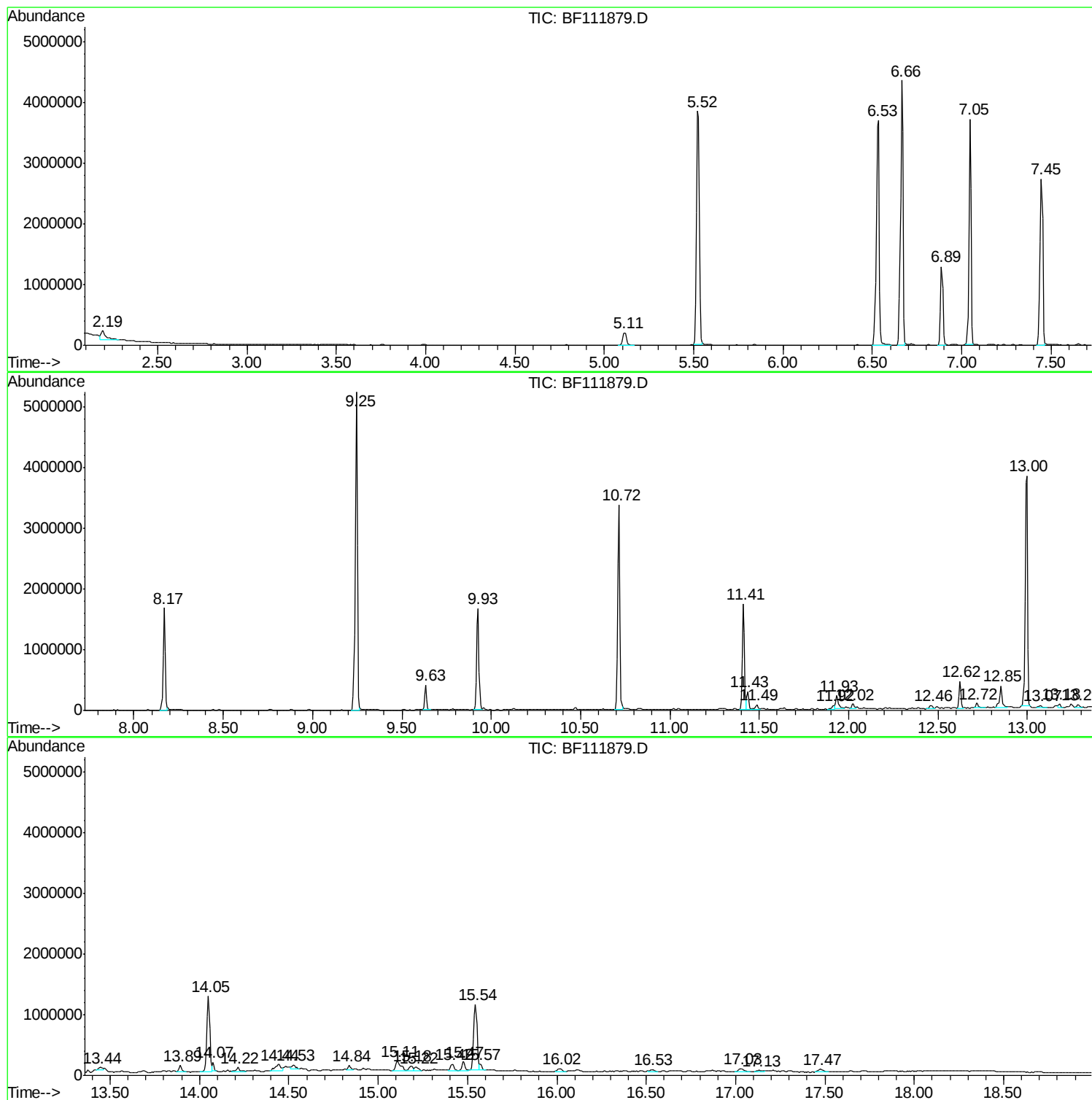
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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OS-1-5-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.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 F\DATA\BF010719\  
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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OS-1-5-COMP

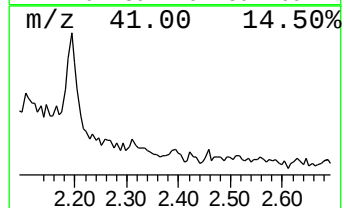
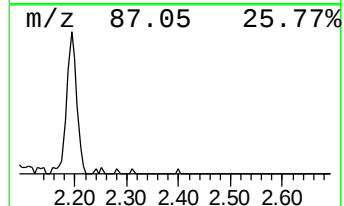
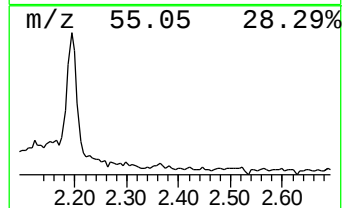
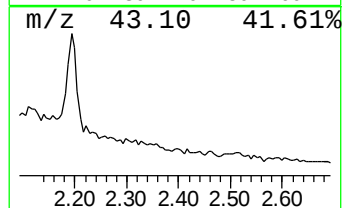
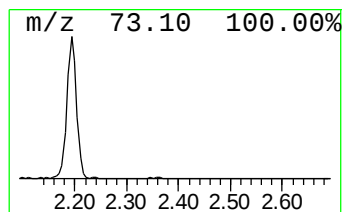
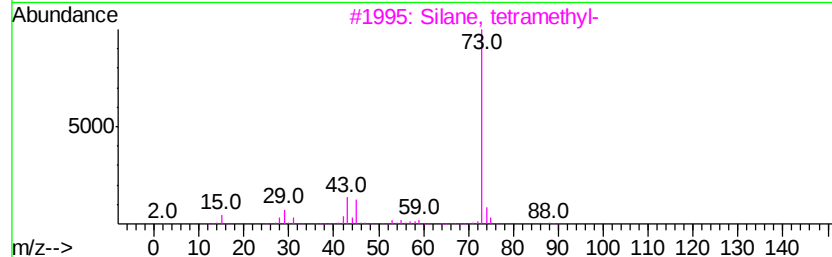
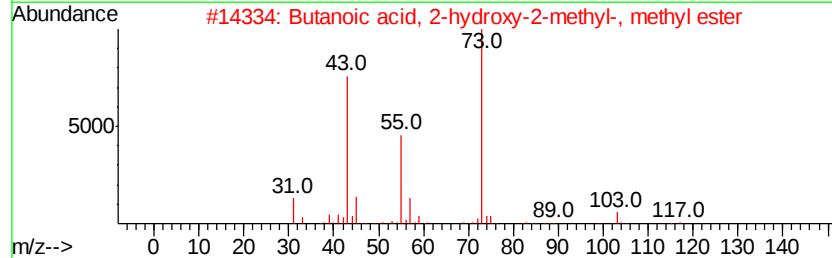
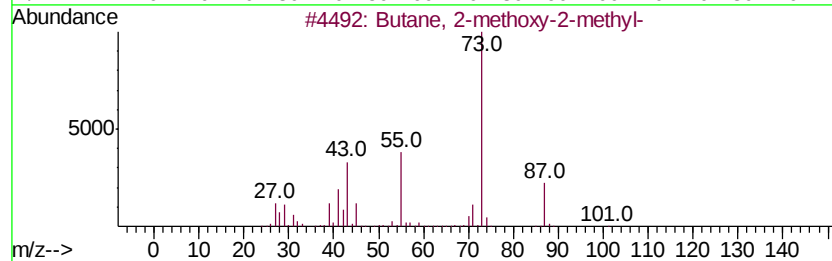
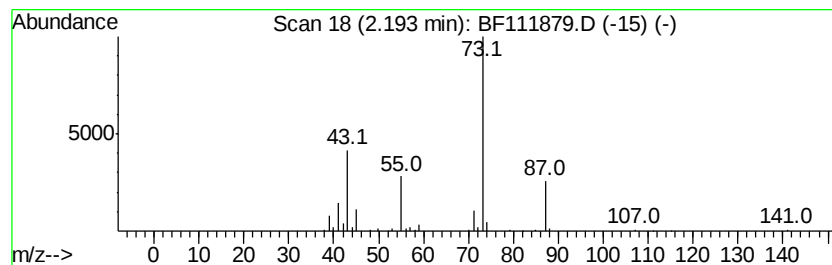
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.19 | 5.33 ng | 286217 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl-          | 102 | C6H14O  | 000994-05-8  | 72   |
| 2    |    |   | Butanoic acid, 2-hydroxy-2-methyl... | 132 | C6H12O3 | 032793-34-3  | 43   |
| 3    |    |   | Silane, tetramethyl-                 | 88  | C4H12Si | 000075-76-3  | 38   |
| 4    |    |   | 1-(2-Methoxyethoxy)-2-methyl-2-p...  | 162 | C8H18O3 | 1000364-24-4 | 23   |
| 5    |    |   | 1,3-Dioxolane, 2-methyl-             | 88  | C4H8O2  | 000497-26-7  | 9    |



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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OS-1-5-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

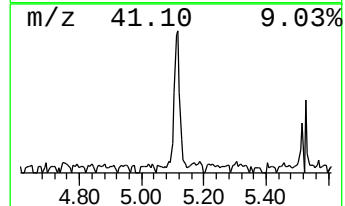
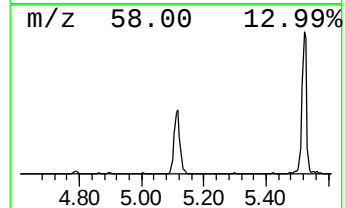
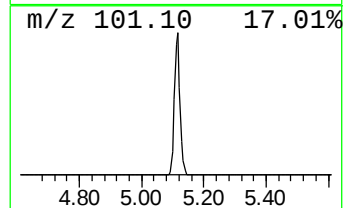
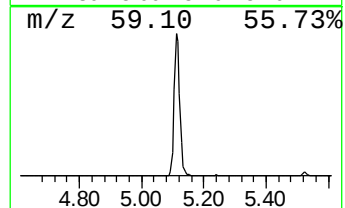
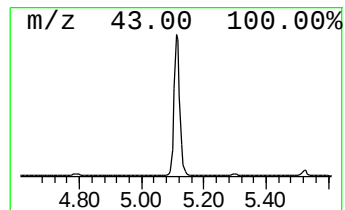
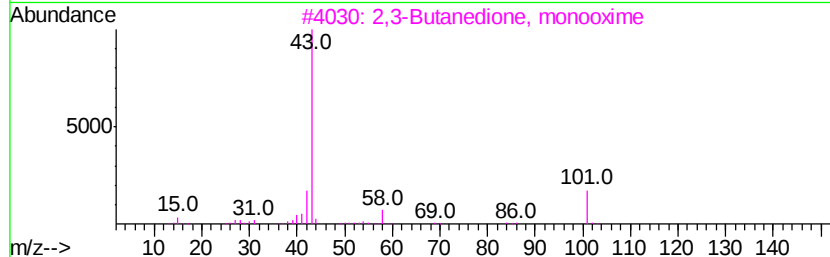
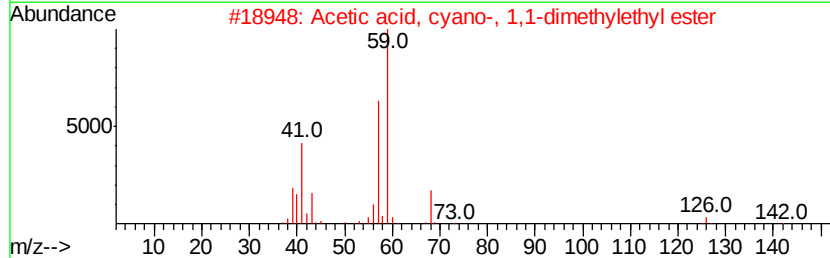
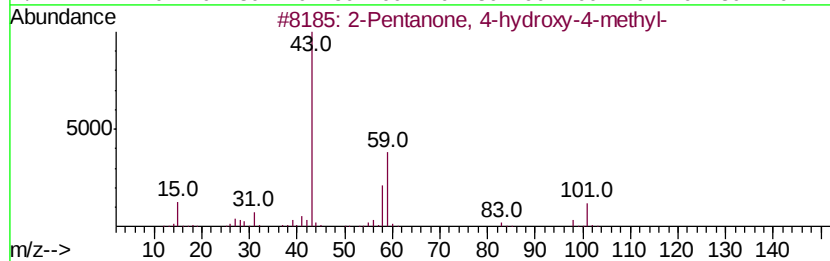
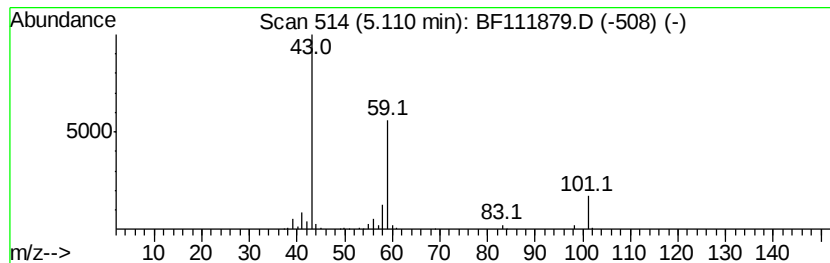
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.11 | 5.02 ng | 269592 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 37   |
| 3    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 27   |
| 4    |    | Acetic acid, 1,1-dimethylethyl e...  | 116 | C6H12O2  | 000540-88-5 | 17   |
| 5    |    | 1-Propen-2-ol, acetate               | 100 | C5H8O2   | 000108-22-5 | 10   |



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Instrument :  
BNA\_F  
ClientSampleId :  
OS-1-5-COMP

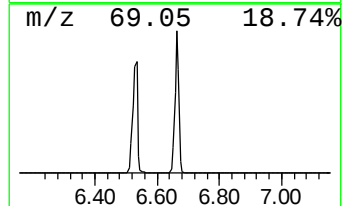
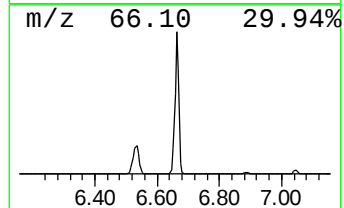
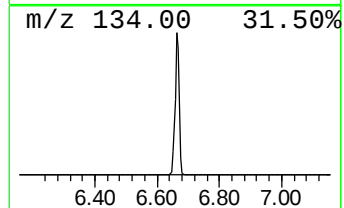
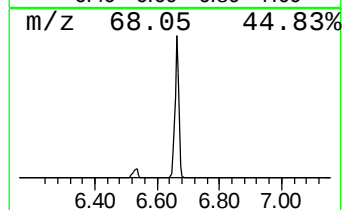
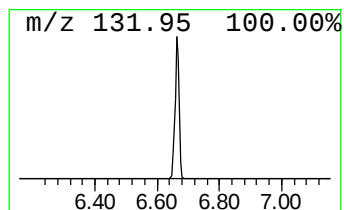
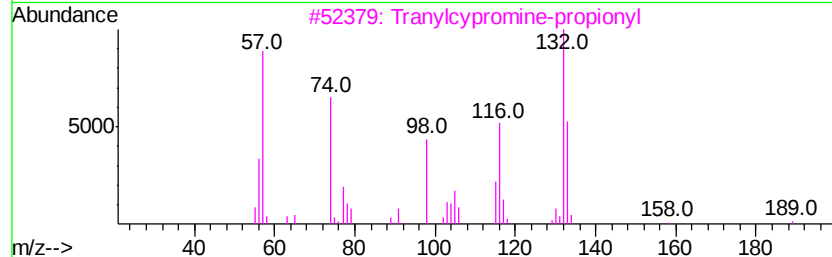
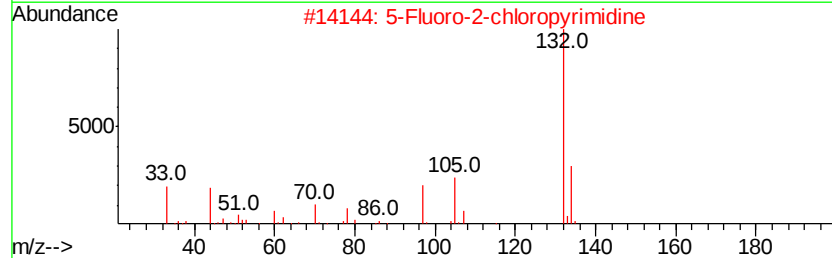
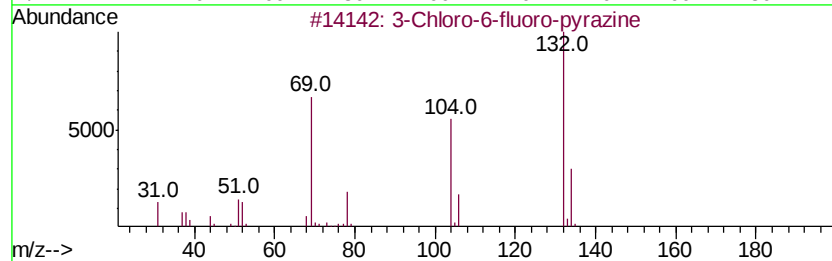
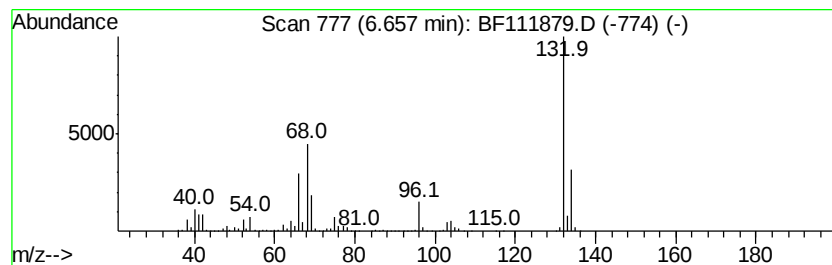
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 unknown6.66 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.66 | 76.20 ng | 4095080 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | Tranvlcyproline-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | Benzene, 1-ethenyl-3,5-dimethyl-    | 132 | C10H12    | 005379-20-4  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

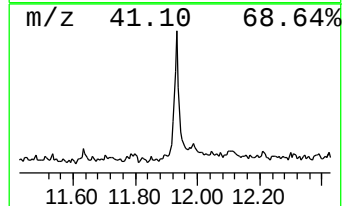
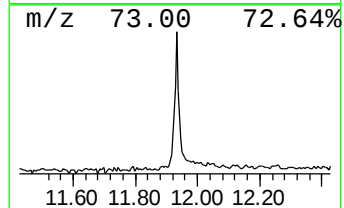
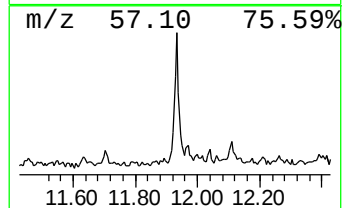
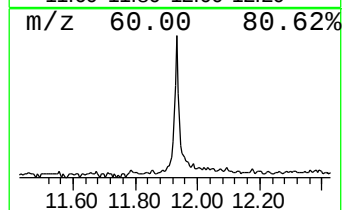
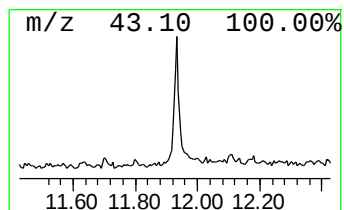
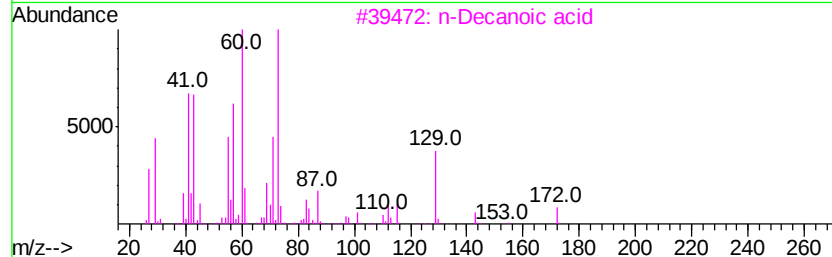
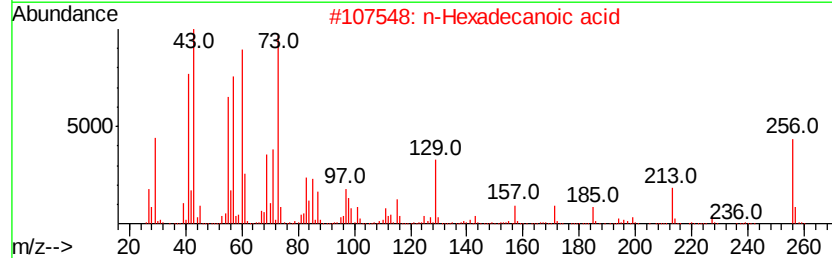
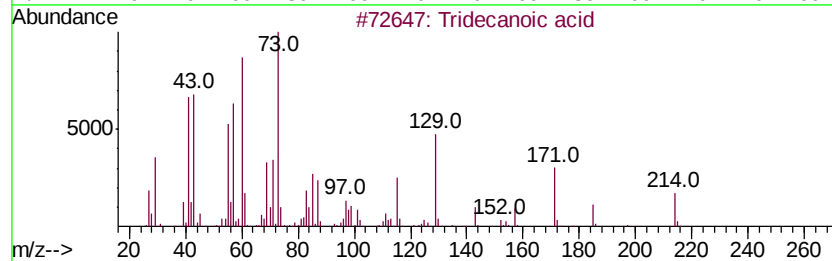
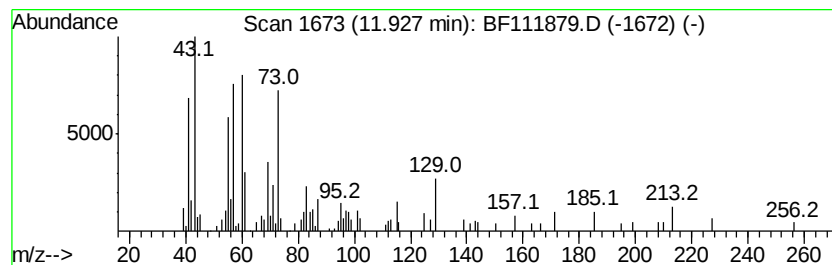
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Tridecanoic acid Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.93 | 2.88 ng | 222549 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 90   |
| 2       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 81   |
| 3       |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 58   |
| 4       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 58   |
| 5       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\  
Data File : BF111879.D  
Acq On : 7 Jan 2019 16:32  
Operator : JU/SJ  
Sample : K1041-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

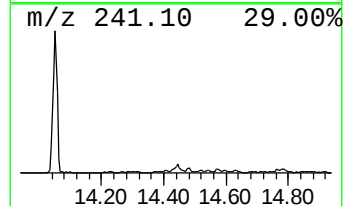
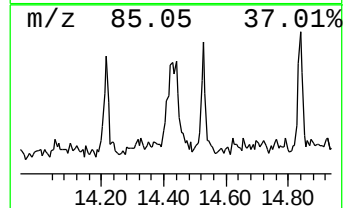
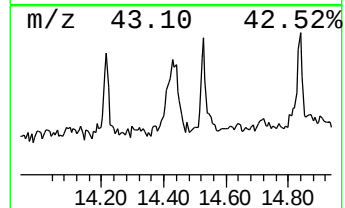
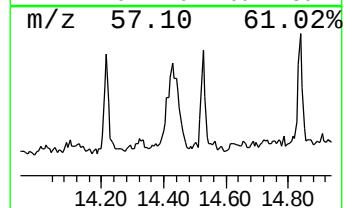
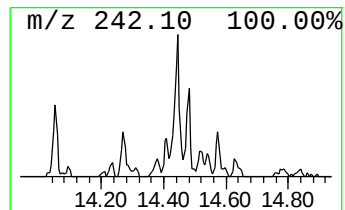
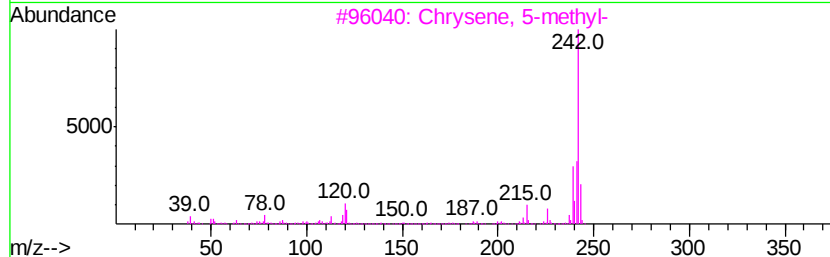
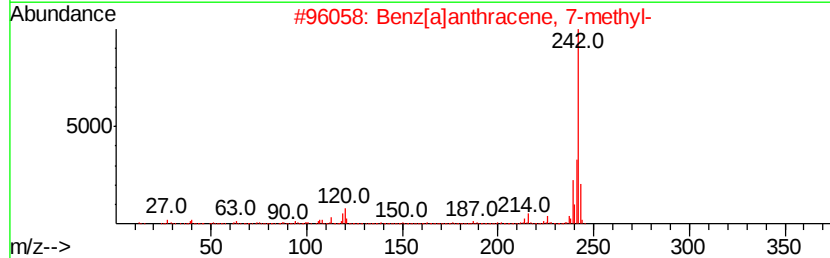
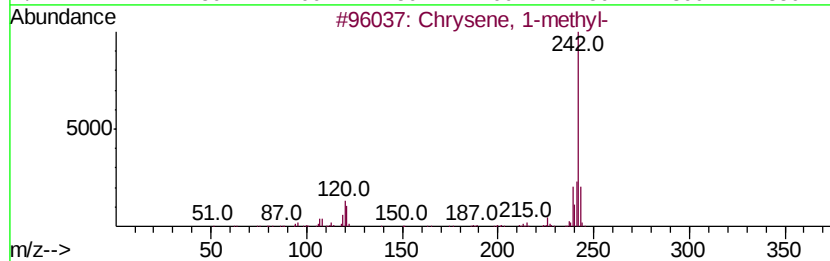
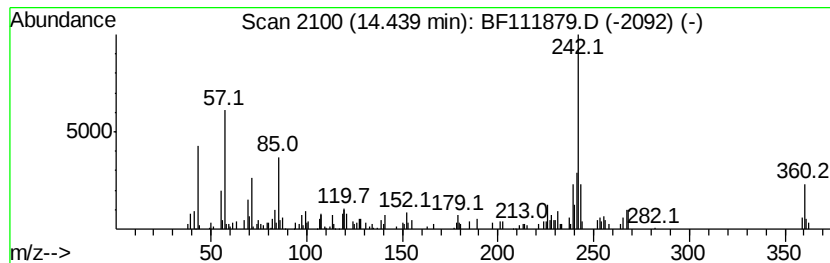
Instrument :  
BNA\_F  
ClientSampled :  
OS-1-5-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Chrysene, 1-methyl- Concentration Rank 5

| R.T.      | EstConc                      | Area   | Relative to ISTD |             | R.T.  |
|-----------|------------------------------|--------|------------------|-------------|-------|
| 14.44     | 3.85 ng                      | 253462 | Chrysene-d12     |             | 14.05 |
| Hit# of 5 | Tentative ID                 | MW     | MolForm          | CAS#        | Qual  |
| 1         | Chrysene, 1-methyl-          | 242    | C19H14           | 003351-28-8 | 62    |
| 2         | Benz[alanthracene, 7-methyl- | 242    | C19H14           | 002541-69-7 | 60    |
| 3         | Chrysene, 5-methyl-          | 242    | C19H14           | 003697-24-3 | 60    |
| 4         | Chrysene, 6-methyl-          | 242    | C19H14           | 001705-85-7 | 60    |
| 5         | Benz[a]anthracene, 1-methyl- | 242    | C19H14           | 002498-77-3 | 55    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF010719\  
Data File : BF111879.D  
Acq On : 7 Jan 2019 16:32  
Operator : JU/SJ  
Sample : K1041-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OS-1-5-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF010719.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 |
| Butane, 2-methoxy... | 2.19  | 5.3     | ng    | 286217   | 1                     | 6.89  | 1074800 | 20.0 |
| 2-Pentanone, 4-hy... | 5.11  | 5.0     | ng    | 269592   | 1                     | 6.89  | 1074800 | 20.0 |
| unknown6.66          | 6.66  | 76.2    | ng    | 4095080  | 1                     | 6.89  | 1074800 | 20.0 |
| Tridecanoic acid     | 11.93 | 2.9     | ng    | 222549   | 4                     | 11.41 | 1546880 | 20.0 |
| Chrysene, 1-methyl-  | 14.44 | 3.9     | ng    | 253462   | 5                     | 14.05 | 1317950 | 20.0 |