

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
 Data File : BF118470.D  
 Acq On : 3 Jan 2020 21:30  
 Operator : JU  
 Sample : K6474-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-02

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-BF122419.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         | 2.116       | 3             | 5           | 19           | rVB      | 254925         | 302011        | 14.01%          | 1.573%        |
| 2         | 5.057       | 501           | 505         | 518          | rBV      | 226302         | 294444        | 13.66%          | 1.533%        |
| 3         | 5.475       | 572           | 576         | 590          | rBV      | 1648734        | 1777150       | 82.44%          | 9.255%        |
| 4         | 6.487       | 744           | 748         | 767          | rBV      | 1768902        | 1801814       | 83.58%          | 9.383%        |
| 5         | 6.622       | 767           | 771         | 774          | rBV      | 2274777        | 1962686       | 91.04%          | 10.221%       |
| 6         | 6.845       | 806           | 809         | 818          | rBV      | 509274         | 407142        | 18.89%          | 2.120%        |
| 7         | 7.004       | 832           | 836         | 839          | rBV      | 1642640        | 1502784       | 69.71%          | 7.826%        |
| 8         | 7.410       | 901           | 905         | 922          | rBV      | 1077681        | 1109546       | 51.47%          | 5.778%        |
| 9         | 8.134       | 1025          | 1028        | 1035         | rBV      | 477436         | 441201        | 20.47%          | 2.298%        |
| 10        | 9.210       | 1206          | 1211        | 1220         | rBV      | 2531713        | 2155818       | 100.00%         | 11.227%       |
| 11        | 9.281       | 1220          | 1223        | 1226         | rVB      | 28077          | 28395         | 1.32%           | 0.148%        |
| 12        | 9.604       | 1273          | 1278        | 1285         | rBV      | 98494          | 111199        | 5.16%           | 0.579%        |
| 13        | 9.816       | 1310          | 1314        | 1316         | rBV      | 44837          | 38626         | 1.79%           | 0.201%        |
| 14        | 9.892       | 1323          | 1327        | 1335         | rVB      | 616040         | 517138        | 23.99%          | 2.693%        |
| 15        | 10.316      | 1396          | 1399        | 1402         | rVB      | 70634          | 52319         | 2.43%           | 0.272%        |
| 16        | 10.533      | 1433          | 1436        | 1439         | rBV      | 30044          | 31390         | 1.46%           | 0.163%        |
| 17        | 10.686      | 1458          | 1462        | 1473         | rBV      | 1348549        | 1403288       | 65.09%          | 7.308%        |
| 18        | 10.792      | 1477          | 1480        | 1485         | rVV      | 89010          | 109154        | 5.06%           | 0.568%        |
| 19        | 11.110      | 1531          | 1534        | 1542         | rBV      | 127554         | 180997        | 8.40%           | 0.943%        |
| 20        | 11.239      | 1553          | 1556        | 1558         | rBV      | 88202          | 64534         | 2.99%           | 0.336%        |
| 21        | 11.269      | 1558          | 1561        | 1568         | rVB3     | 44398          | 54460         | 2.53%           | 0.284%        |
| 22        | 11.386      | 1578          | 1581        | 1585         | rBV      | 485731         | 460969        | 21.38%          | 2.401%        |
| 23        | 11.669      | 1626          | 1629        | 1633         | rBV      | 100061         | 79258         | 3.68%           | 0.413%        |
| 24        | 11.910      | 1667          | 1670        | 1676         | rBV3     | 124107         | 176909        | 8.21%           | 0.921%        |
| 25        | 11.969      | 1677          | 1680        | 1687         | rVB2     | 92649          | 128922        | 5.98%           | 0.671%        |
| 26        | 12.080      | 1696          | 1699        | 1702         | rBV      | 92592          | 87915         | 4.08%           | 0.458%        |
| 27        | 12.469      | 1762          | 1765        | 1768         | rBV      | 98566          | 92337         | 4.28%           | 0.481%        |
| 28        | 12.839      | 1826          | 1828        | 1831         | rBV2     | 78690          | 78958         | 3.66%           | 0.411%        |
| 29        | 12.980      | 1848          | 1852        | 1855         | rBV      | 2199258        | 1941285       | 90.05%          | 10.110%       |
| 30        | 13.874      | 2001          | 2004        | 2009         | rVB      | 210657         | 228446        | 10.60%          | 1.190%        |
| 31        | 14.045      | 2030          | 2033        | 2039         | rBV      | 519659         | 486407        | 22.56%          | 2.533%        |
| 32        | 15.139      | 2217          | 2219        | 2225         | rVB      | 178416         | 194601        | 9.03%           | 1.013%        |
| 33        | 15.533      | 2281          | 2286        | 2292         | rVB2     | 385401         | 601438        | 27.90%          | 3.132%        |
| 34        | 15.962      | 2356          | 2359        | 2364         | rVB      | 121629         | 166249        | 7.71%           | 0.866%        |

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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

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-BF122419.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 35 | 16.468 | 2443 | 2445 | 2451 | rVB3 | 77185 | 105177 | 4.88% | 0.548% |
| 36 | 18.580 | 2802 | 2804 | 2807 | rBV3 | 22167 | 27435  | 1.27% | 0.143% |

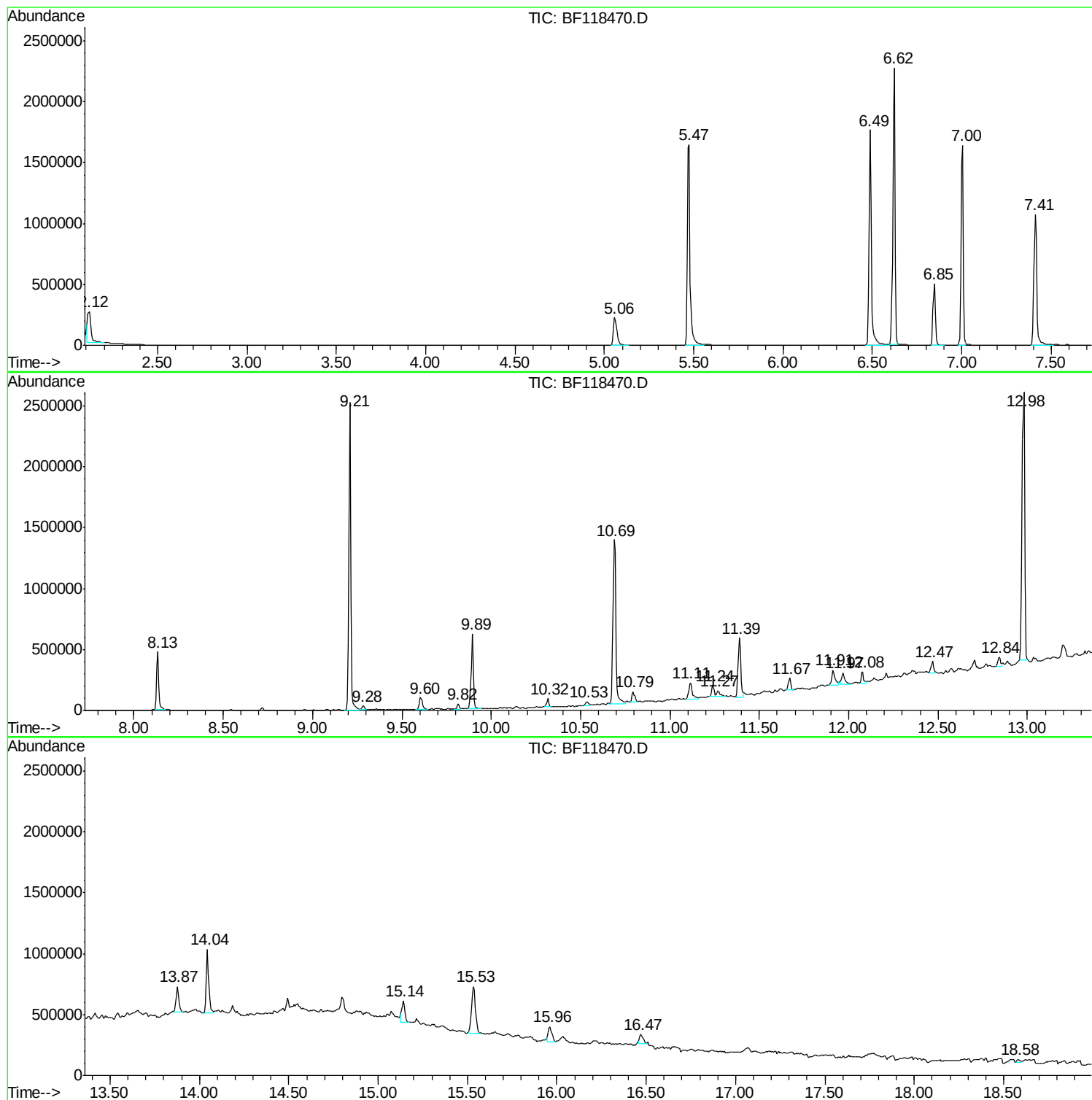
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BNA\_F  
ClientSampled :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

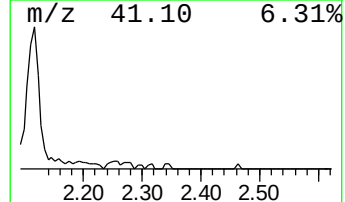
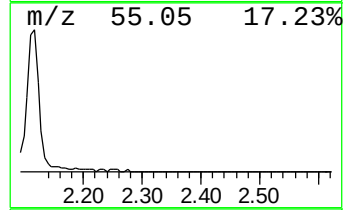
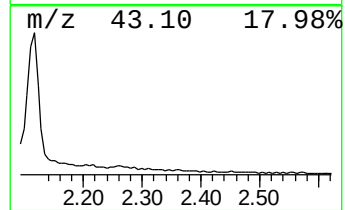
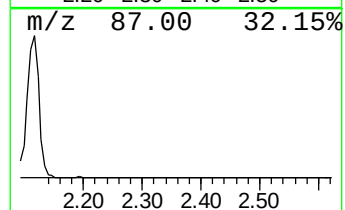
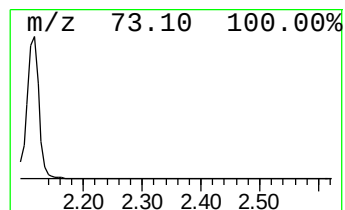
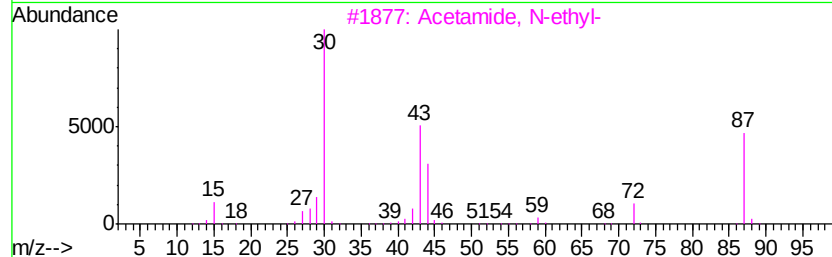
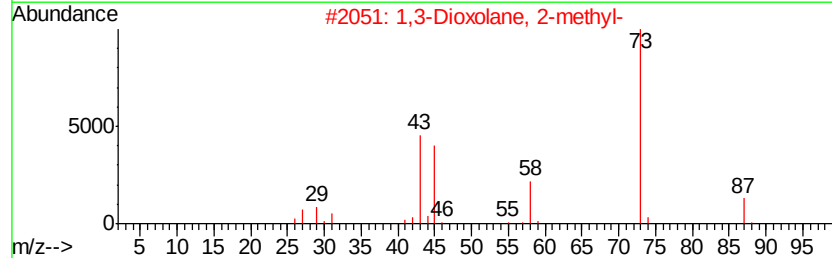
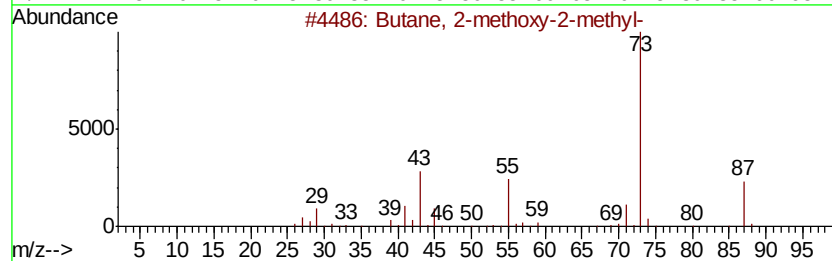
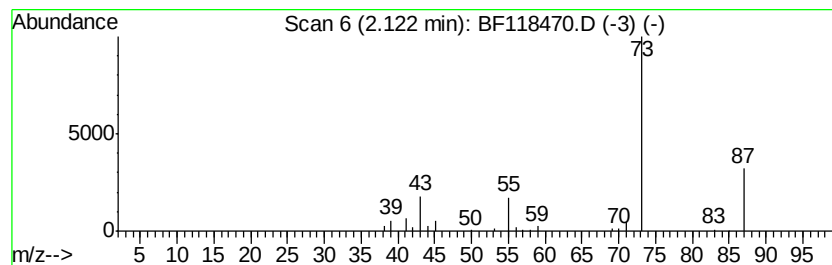
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 2.12 | 14.84 ng | 302011 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------|-----|---------|-------------|------|
| 1       |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 64   |
| 2       |   | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 37   |
| 3       |   | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 10   |
| 4       |   | Borane, dimethoxy-          | 74  | C2H7BO2 | 004542-61-4 | 9    |
| 5       |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 9    |



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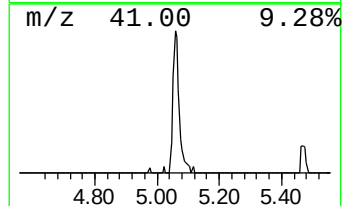
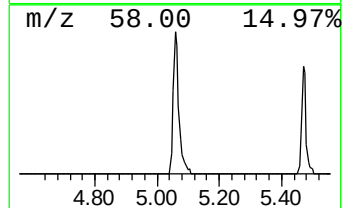
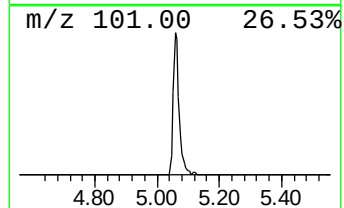
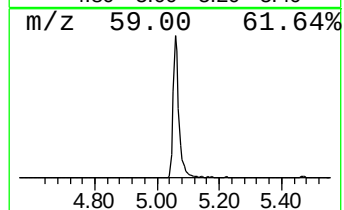
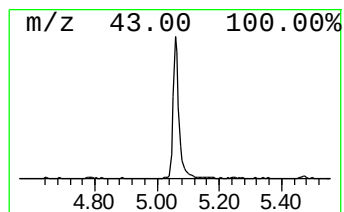
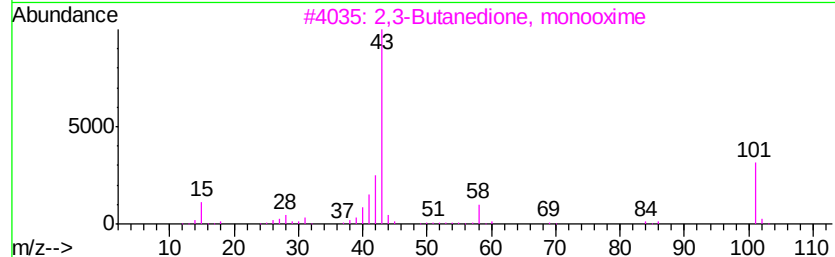
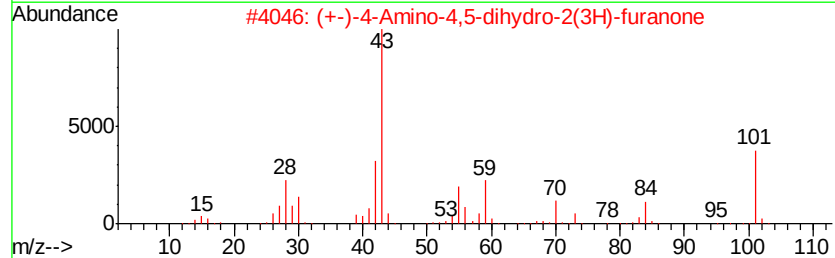
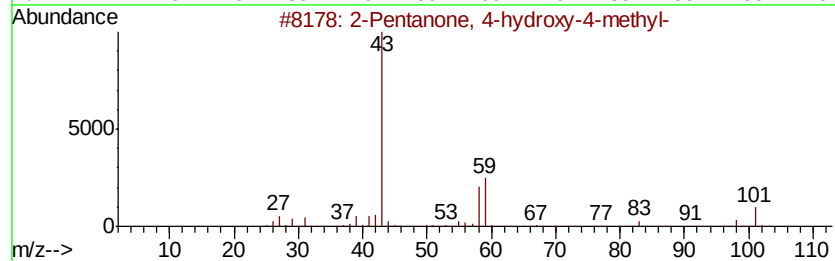
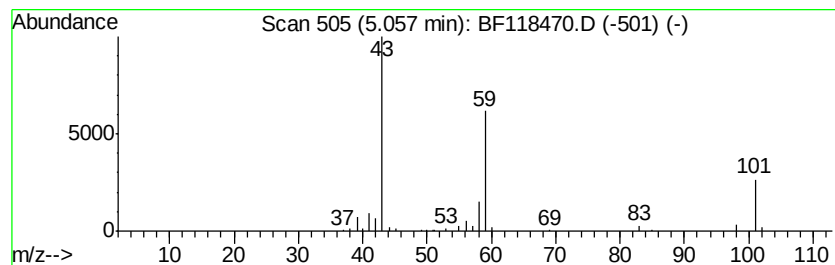
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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. |
|------|----------|--------|------------------------|------|
| 5.06 | 14.46 ng | 294444 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-       | 116 | C6H12O2 | 000123-42-2 | 64   |
| 2    |    | (+)-4-Amino-4,5-dihydro-2(3H)-furanone | 101 | C4H7NO2 | 016504-58-8 | 43   |
| 3    |    | 2,3-Butanedione, monooxime             | 101 | C4H7NO2 | 000057-71-6 | 25   |
| 4    |    | 5-Hexen-2-one                          | 98  | C6H10O  | 000109-49-9 | 9    |
| 5    |    | Butane, 1-ethoxy-                      | 102 | C6H14O  | 000628-81-9 | 9    |



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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

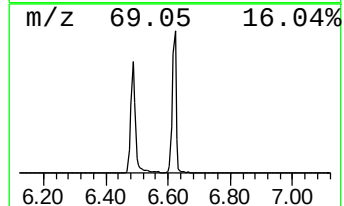
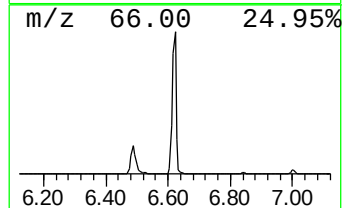
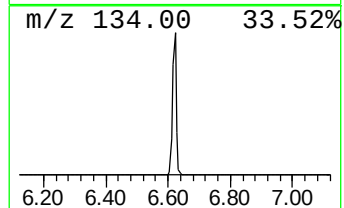
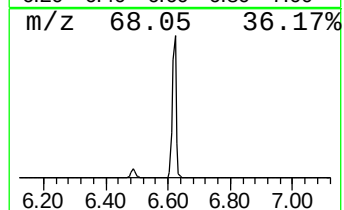
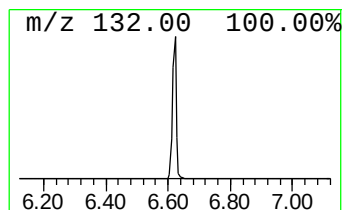
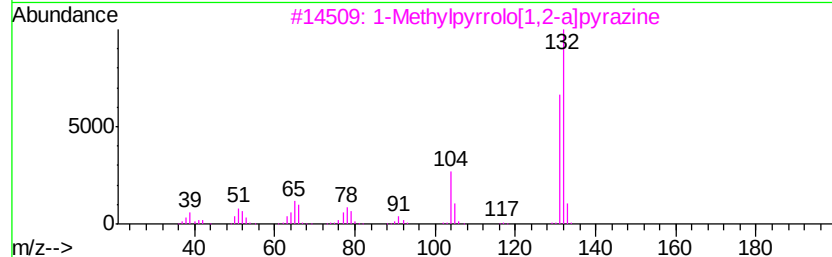
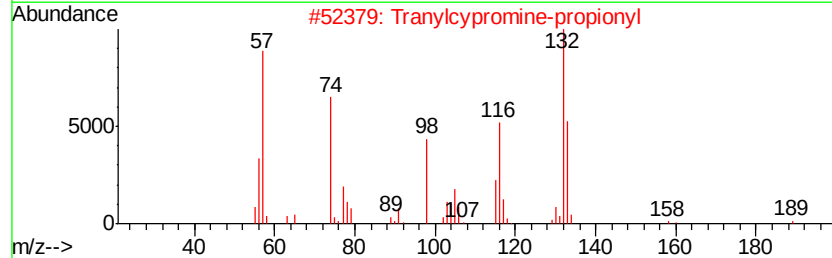
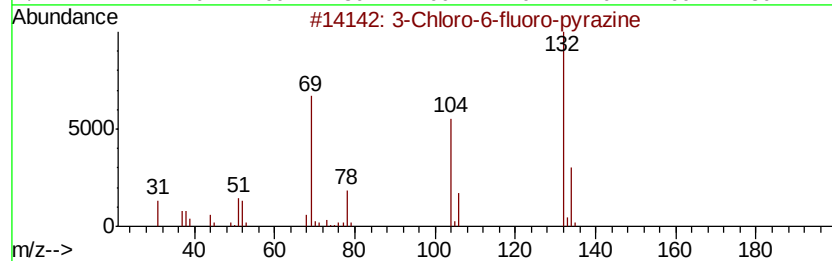
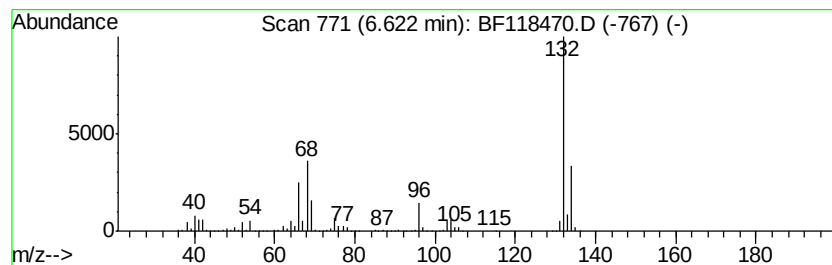
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown6.62 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.62 | 96.41 ng | 1962690 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 16   |
| 3    |    | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |
| 4    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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Misc :  
ALS Vial : 9 Sample Multiplier: 1

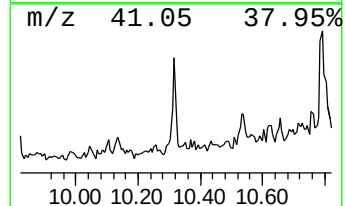
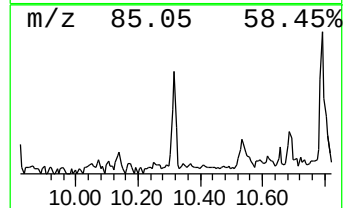
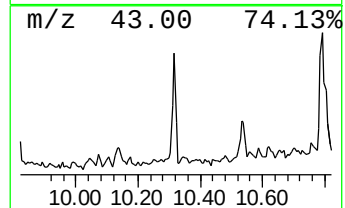
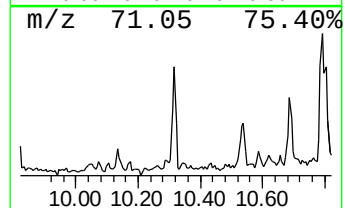
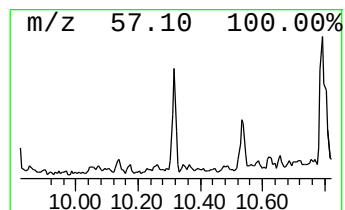
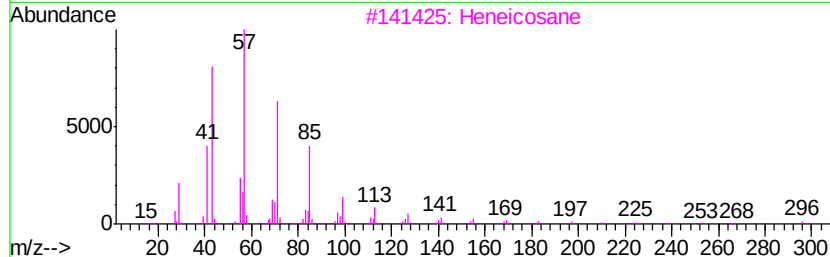
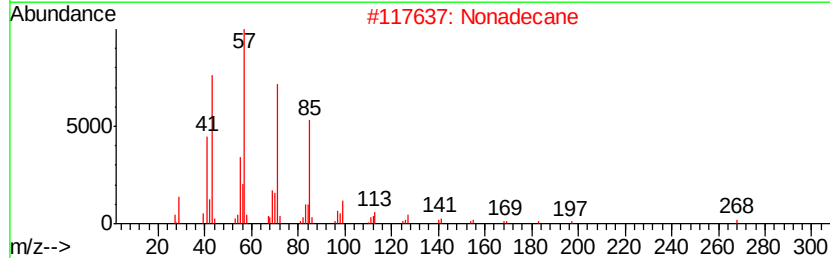
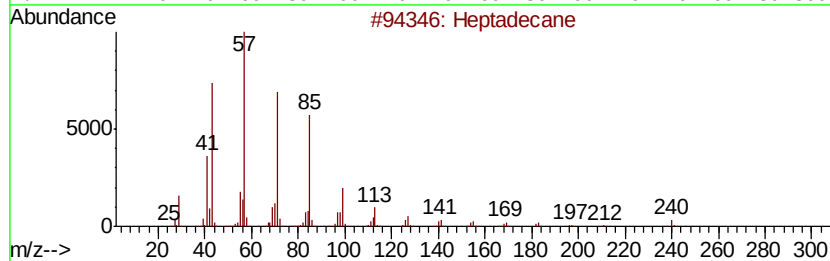
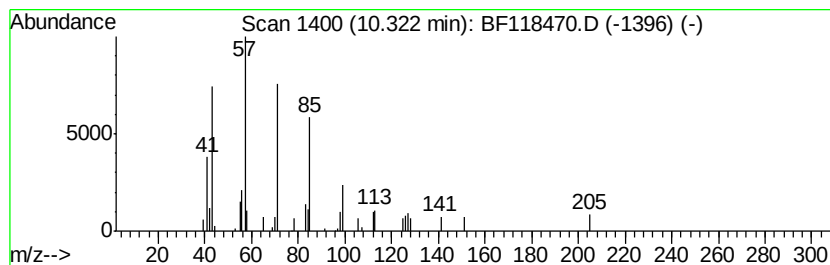
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Heptadecane Concentration Rank 19

| R.T.  | EstConc | Area  | Relative to ISTD |     | R.T.    |             |      |
|-------|---------|-------|------------------|-----|---------|-------------|------|
| 10.32 | 2.02 ng | 52319 | Acenaphthene-d10 |     | 9.89    |             |      |
| Hit#  | of      | 5     | Tentative ID     | MW  | MolForm | CAS#        | Qual |
| 1     |         |       | Heptadecane      | 240 | C17H36  | 000629-78-7 | 91   |
| 2     |         |       | Nonadecane       | 268 | C19H40  | 000629-92-5 | 90   |
| 3     |         |       | Heneicosane      | 296 | C21H44  | 000629-94-7 | 87   |
| 4     |         |       | Octadecane       | 254 | C18H38  | 000593-45-3 | 87   |
| 5     |         |       | Tetracosane      | 338 | C24H50  | 000646-31-1 | 86   |



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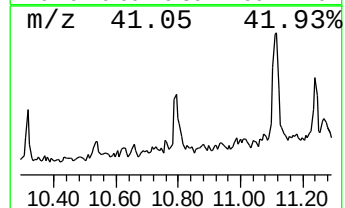
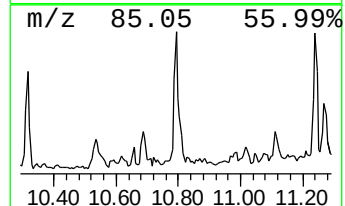
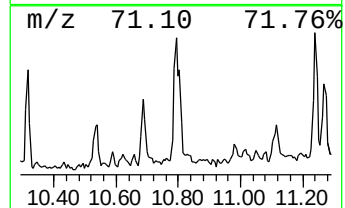
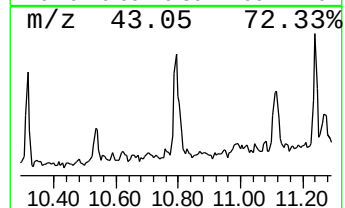
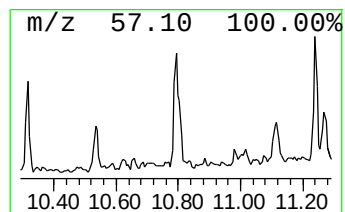
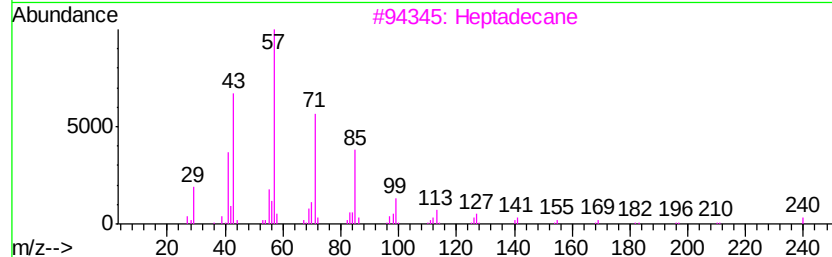
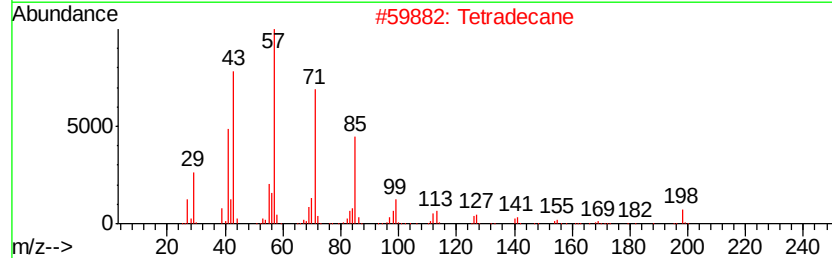
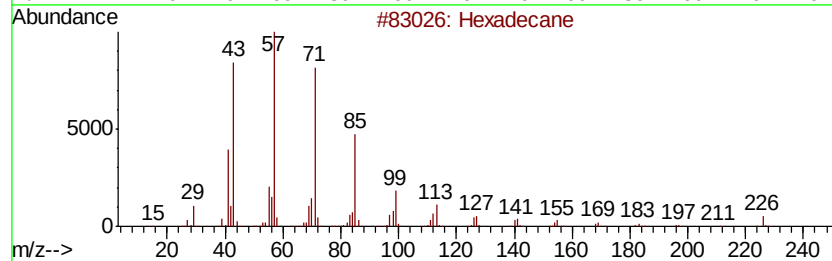
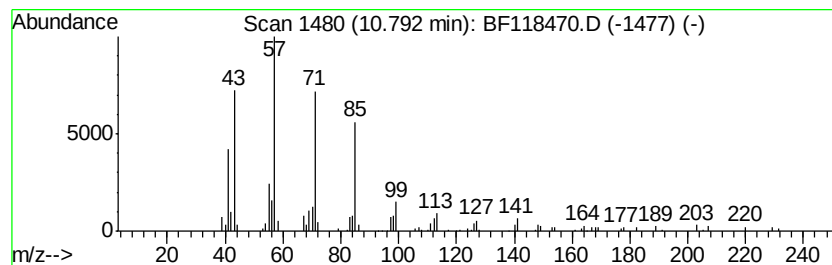
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BNA\_F  
ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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 Hexadecane Concentration Rank 11

| R.T.      | EstConc      | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------|--------|------------------|-------------|-------|
| 10.79     | 4.74 ng      | 109154 | Phenanthrene-d10 |             | 11.39 |
| Hit# of 5 | Tentative ID | MW     | MolForm          | CAS#        | Qual  |
| 1         | Hexadecane   | 226    | C16H34           | 000544-76-3 | 91    |
| 2         | Tetradecane  | 198    | C14H30           | 000629-59-4 | 91    |
| 3         | Heptadecane  | 240    | C17H36           | 000629-78-7 | 91    |
| 4         | Pentadecane  | 212    | C15H32           | 000629-62-9 | 91    |
| 5         | Octadecane   | 254    | C18H38           | 000593-45-3 | 90    |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

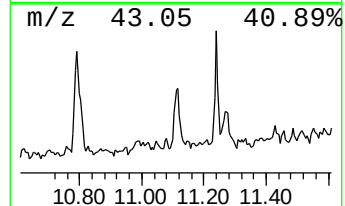
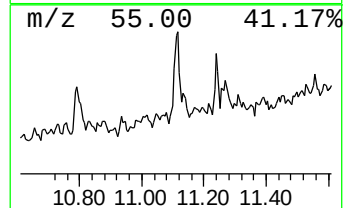
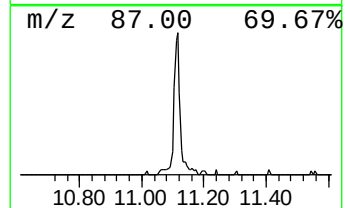
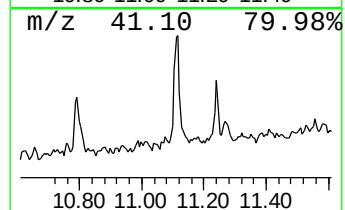
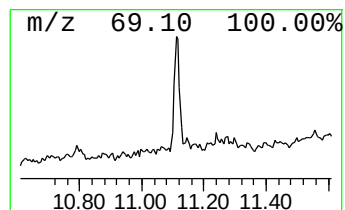
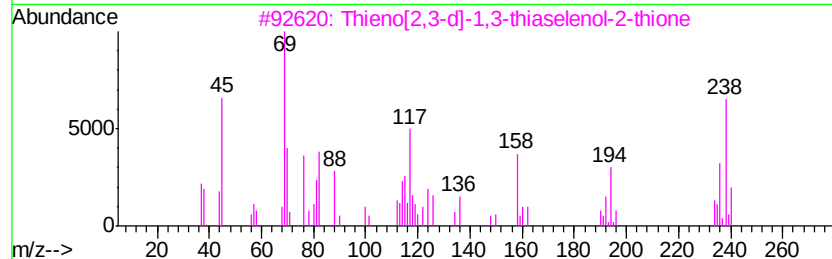
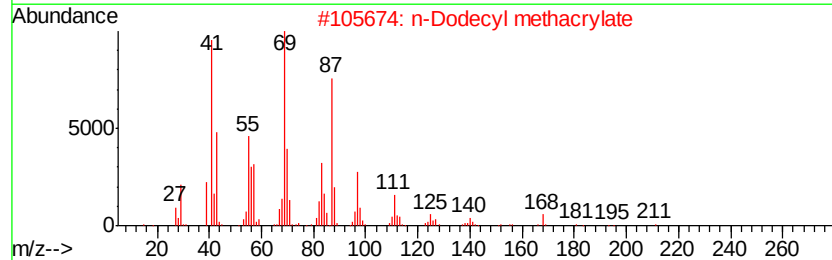
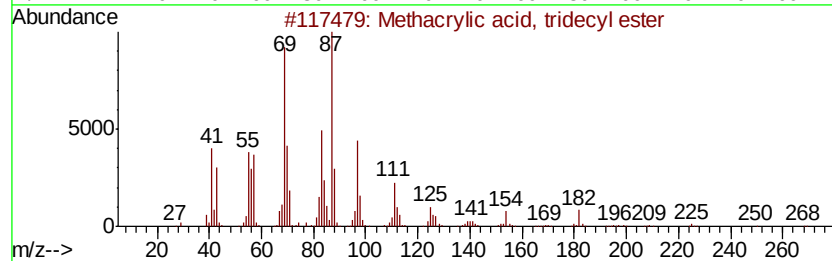
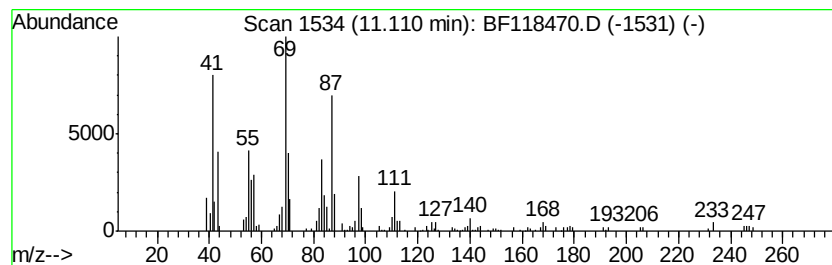
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Methacrylic acid, tridecyl ... Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.11 | 7.85 ng | 180997 | Phenanthrene-d10 | 11.39 |

| Hit# of 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|-----------|-------------------------------------|-----|----------|--------------|------|
| 1         | Methacrylic acid, tridecyl ester    | 268 | C17H32O2 | 1000340-28-9 | 91   |
| 2         | n-Dodecyl methacrylate              | 254 | C16H30O2 | 000142-90-5  | 91   |
| 3         | Thieno[2.3-d]-1,3-thiaselenol-2-... | 238 | C5H2S3Se | 081803-09-0  | 87   |
| 4         | 2-Propenoic acid, 2-methyl-, dec... | 226 | C14H26O2 | 003179-47-3  | 87   |
| 5         | Methacrylic acid, tetradecyl ester  | 282 | C18H34O2 | 1000340-29-0 | 52   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

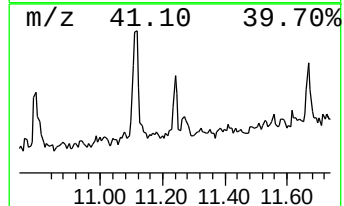
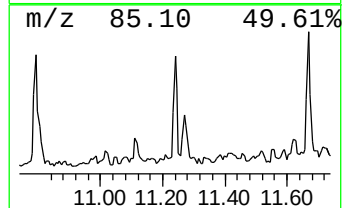
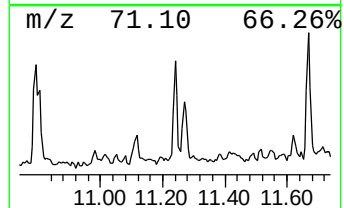
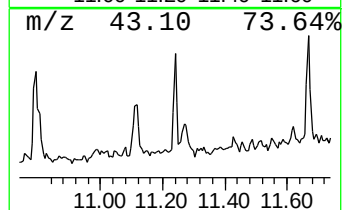
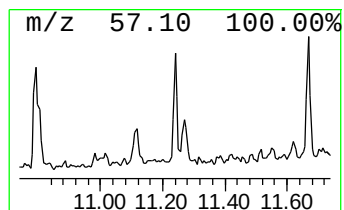
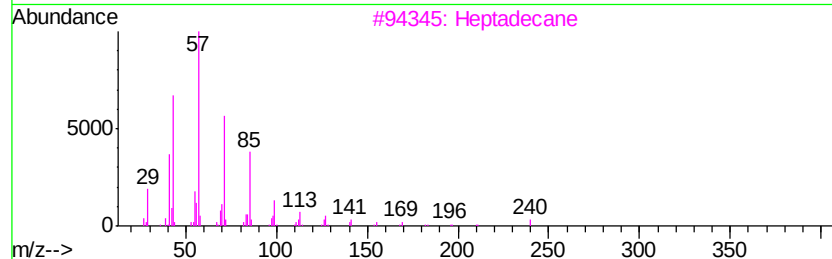
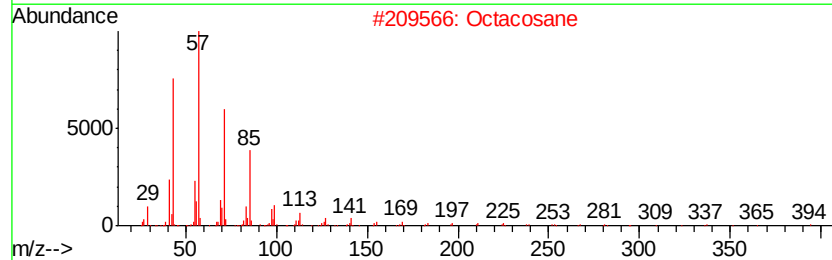
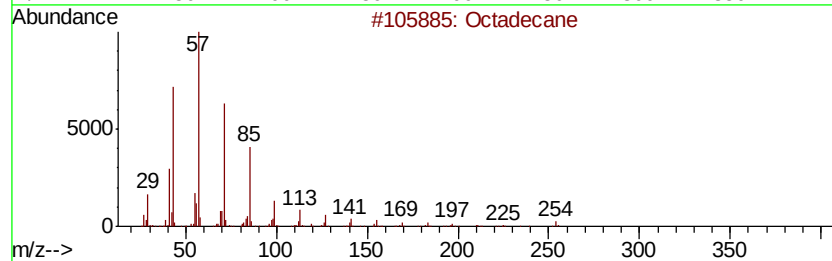
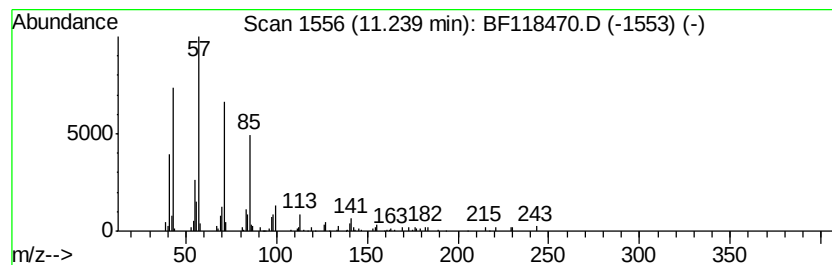
Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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 8 Octadecane Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD |     | R.T.    |             |      |
|-------|---------|-------|------------------|-----|---------|-------------|------|
| 11.24 | 2.80 ng | 64534 | Phenanthrene-d10 |     | 11.39   |             |      |
| Hit#  | of      | 5     | Tentative ID     | MW  | MolForm | CAS#        | Qual |
| 1     |         |       | Octadecane       | 254 | C18H38  | 000593-45-3 | 91   |
| 2     |         |       | Octacosane       | 394 | C28H58  | 000630-02-4 | 91   |
| 3     |         |       | Heptadecane      | 240 | C17H36  | 000629-78-7 | 91   |
| 4     |         |       | Pentadecane      | 212 | C15H32  | 000629-62-9 | 91   |
| 5     |         |       | Hexadecane       | 226 | C16H34  | 000544-76-3 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

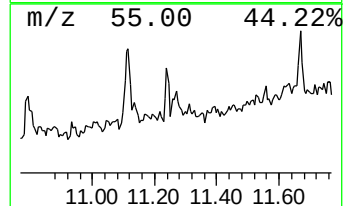
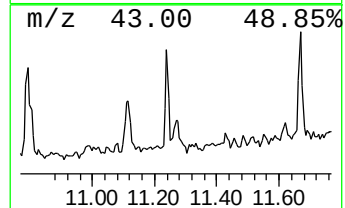
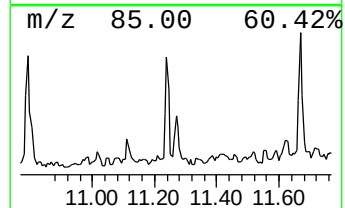
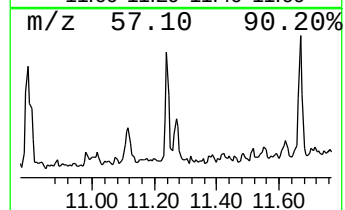
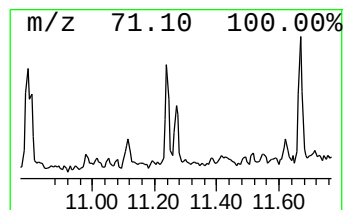
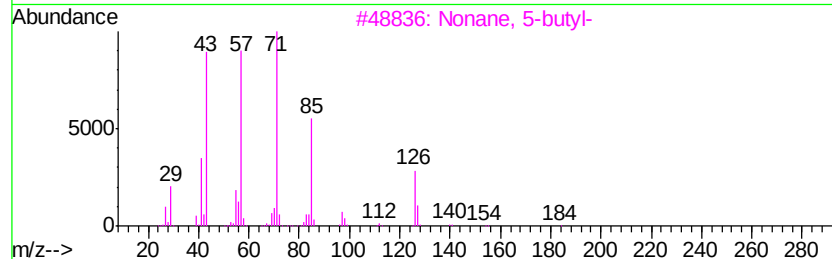
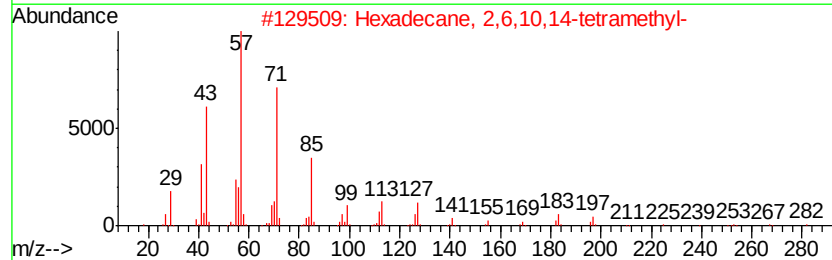
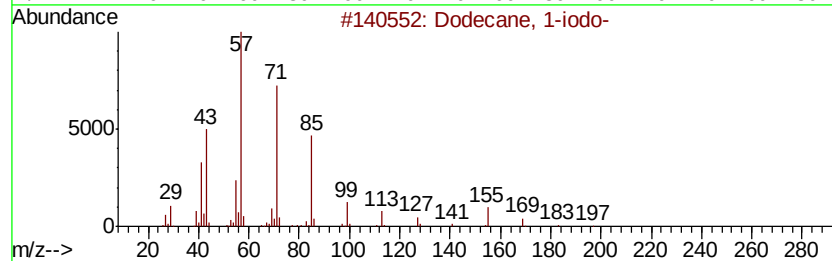
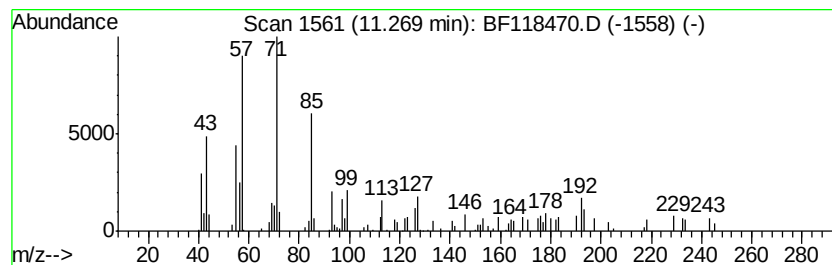
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ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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 9 Dodecane, 1-iodo- Concentration Rank 18

| R.T.    | EstConc                             | Area          | Relative to ISTD | R.T.      |
|---------|-------------------------------------|---------------|------------------|-----------|
| 11.27   | 2.36 ng                             | 54460         | Phenanthrene-d10 | 11.39     |
| Hit# of | 5                                   | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Dodecane, 1-iodo-                   | 296 C12H25I   | 004292-19-7      | 59        |
| 2       | Hexadecane, 2,6,10,14-tetramethyl-  | 282 C20H42    | 000638-36-8      | 58        |
| 3       | Nonane, 5-butyl-                    | 184 C13H28    | 017312-63-9      | 50        |
| 4       | Nonacosane                          | 408 C29H60    | 000630-03-5      | 43        |
| 5       | Sulfurous acid, butyl undecyl ester | 292 C15H32O3S | 1000309-17-8     | 43        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

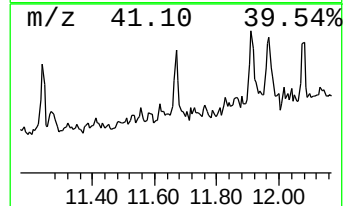
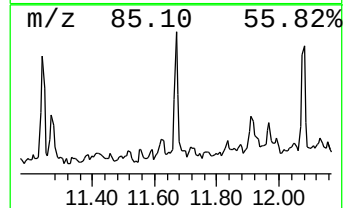
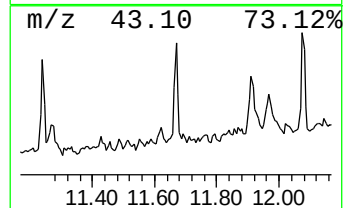
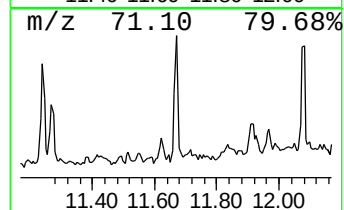
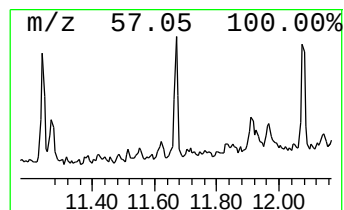
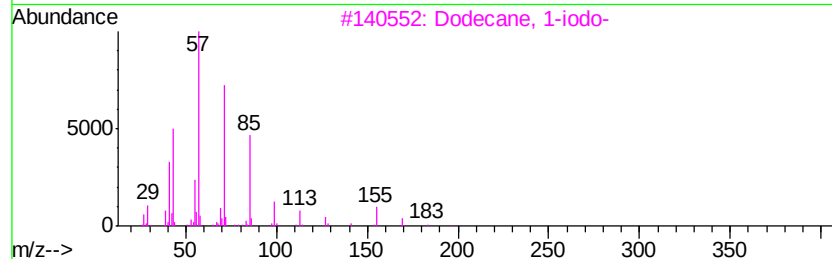
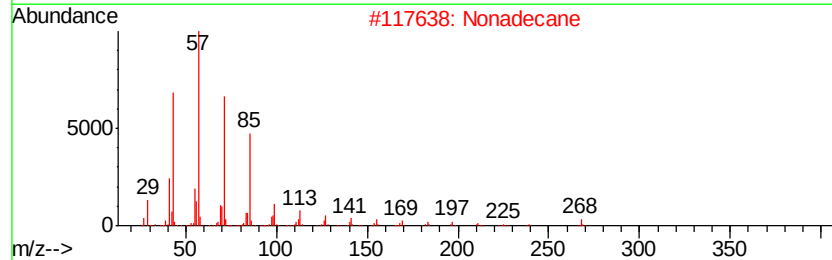
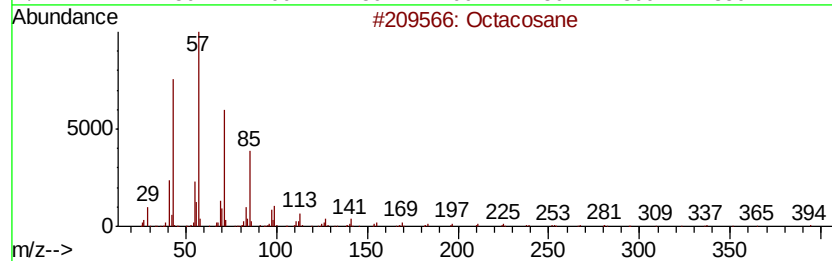
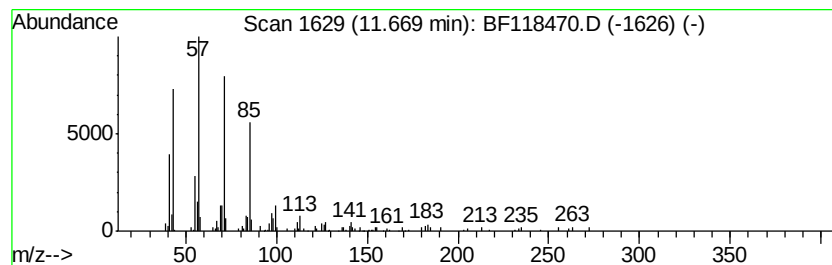
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Octacosane Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.67 | 3.44 ng | 79258 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Octacosane         | 394 | C28H58  | 000630-02-4 | 90   |
| 2    |    | Nonadecane         | 268 | C19H40  | 000629-92-5 | 86   |
| 3    |    | Dodecane, 1-iodo-  | 296 | C12H25I | 004292-19-7 | 83   |
| 4    |    | Tetradecane        | 198 | C14H30  | 000629-59-4 | 83   |
| 5    |    | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

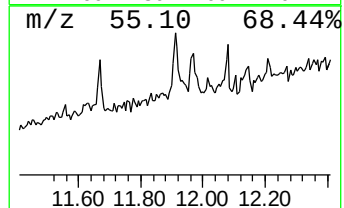
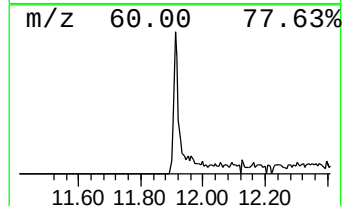
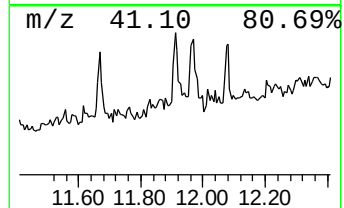
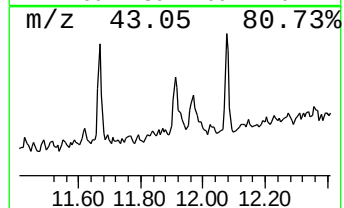
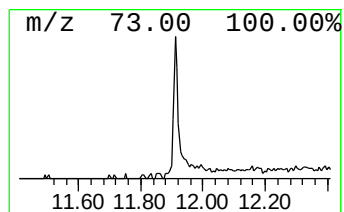
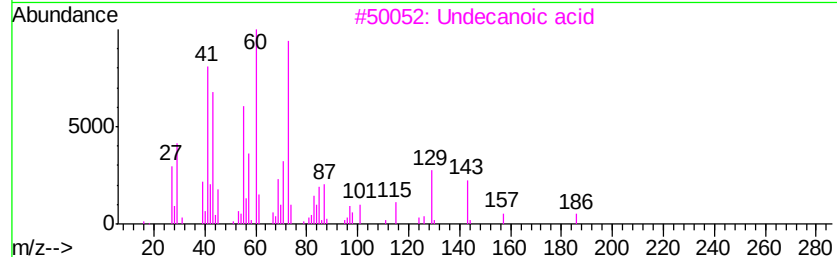
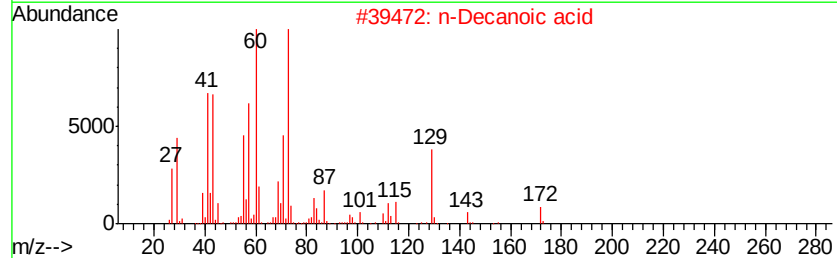
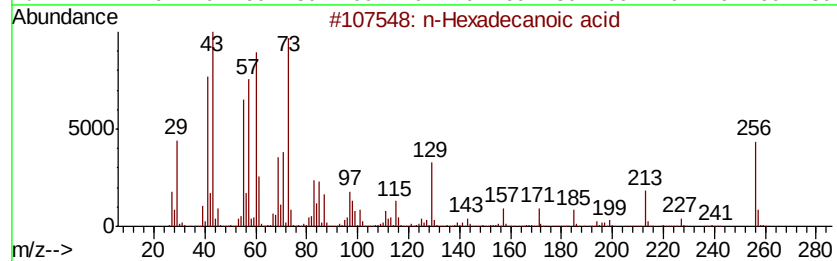
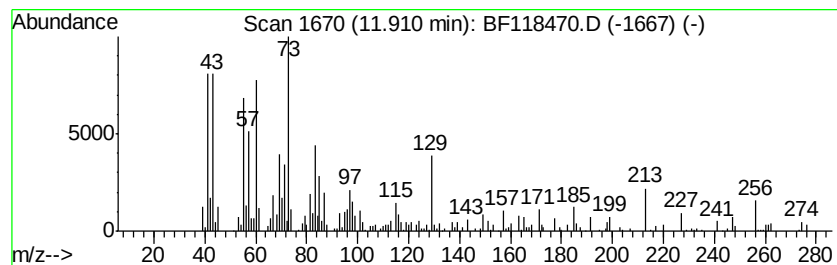
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ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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 11 n-Hexadecanoic acid Concentration Rank 7

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 11.91     | 7.68 ng             | 176909 | Phenanthrene-d10 |             | 11.39 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 91    |
| 2         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 60    |
| 3         | Undecanoic acid     | 186    | C11H22O2         | 000112-37-8 | 55    |
| 4         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 53    |
| 5         | Dodecanoic acid     | 200    | C12H24O2         | 000143-07-7 | 42    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
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Sample : K6474-03  
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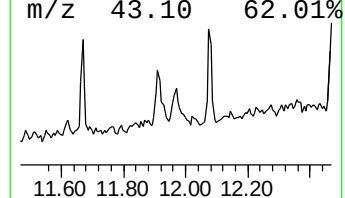
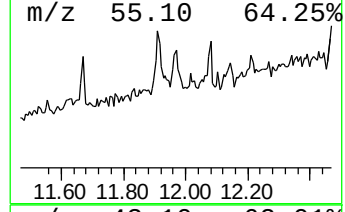
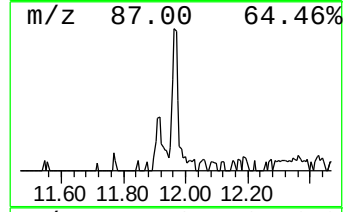
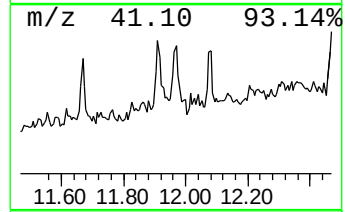
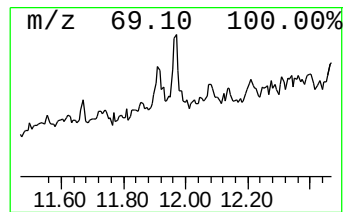
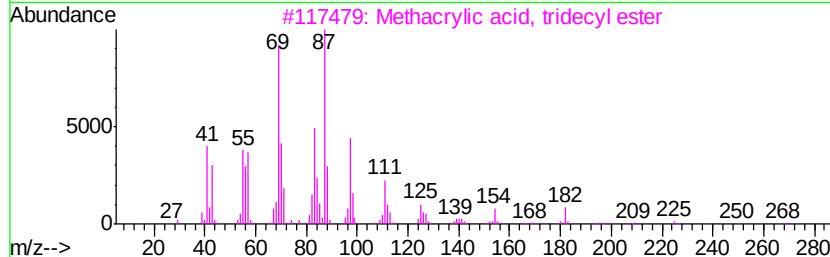
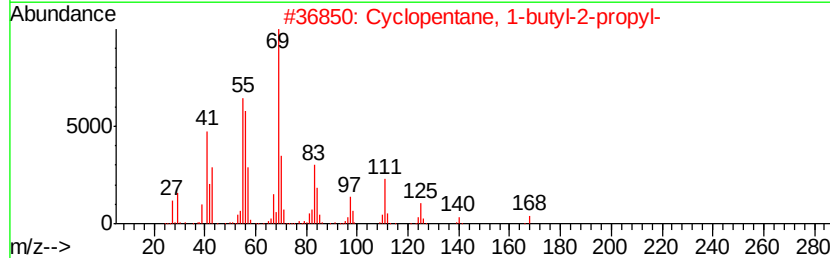
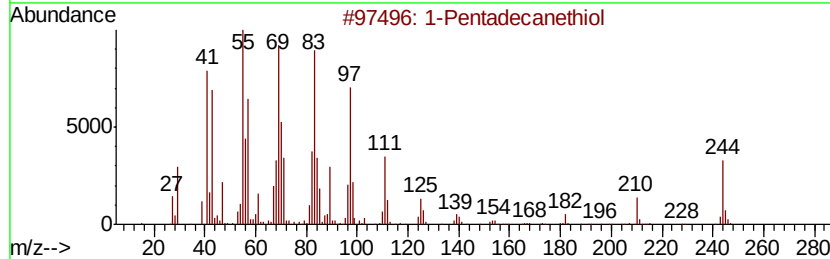
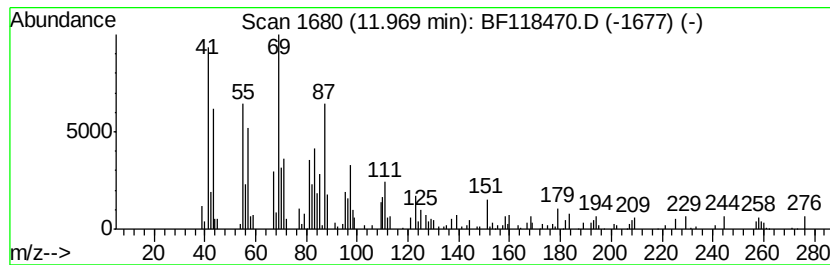
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ClientSampleId :  
SB-02

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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 12 1-Pentadecanethiol Concentration Rank 9

| R.T.      | EstConc                            | Area   | Relative to ISTD |              | R.T.  |
|-----------|------------------------------------|--------|------------------|--------------|-------|
| 11.97     | 5.59 ng                            | 128922 | Phenanthrene-d10 |              | 11.39 |
| Hit# of 5 | Tentative ID                       | MW     | MolForm          | CAS#         | Qual  |
| 1         | 1-Pentadecanethiol                 | 244    | C15H32S          | 025276-70-4  | 66    |
| 2         | Cyclopentane, 1-butyl-2-propyl-    | 168    | C12H24           | 062199-50-2  | 50    |
| 3         | Methacrylic acid, tridecyl ester   | 268    | C17H32O2         | 1000340-28-9 | 45    |
| 4         | Methacrylic acid, tetradecyl ester | 282    | C18H34O2         | 1000340-29-0 | 43    |
| 5         | Cyclotridecane                     | 182    | C13H26           | 000295-02-3  | 42    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

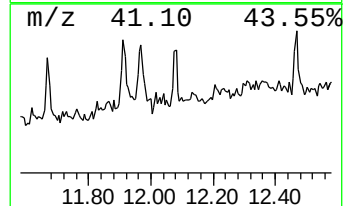
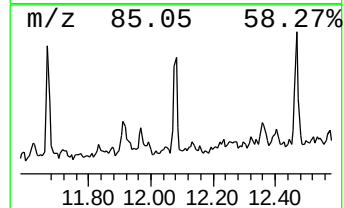
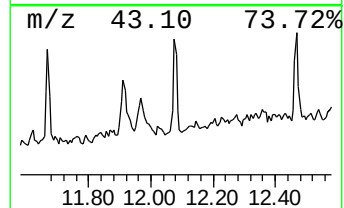
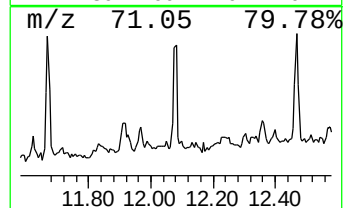
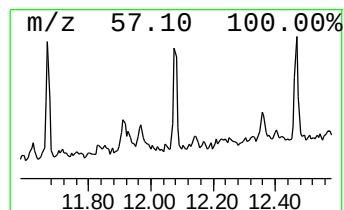
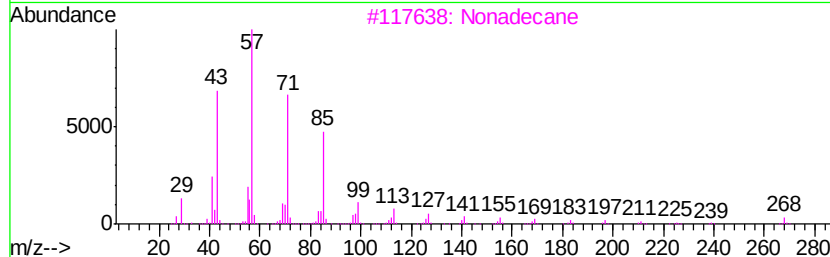
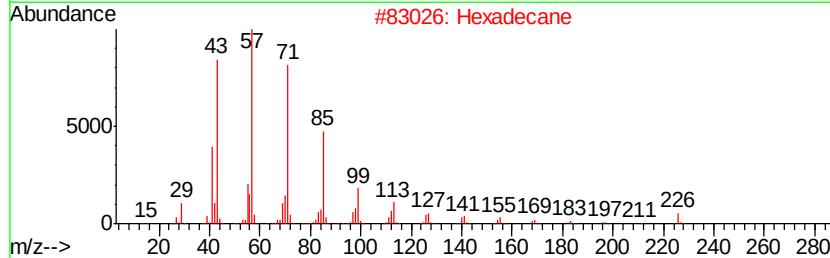
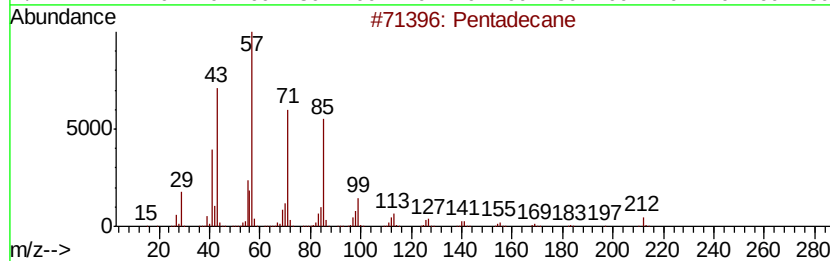
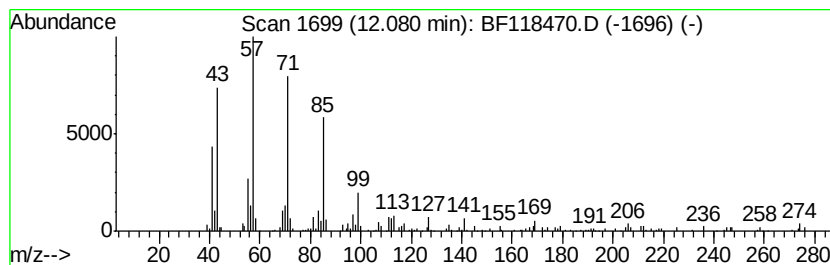
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 Pentadecane Concentration Rank 13

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 12.08   | 3.81 ng               | 87915        | Phenanthrene-d10 | 11.39     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Pentadecane           | 212 C15H32   | 000629-62-9      | 87        |
| 2       | Hexadecane            | 226 C16H34   | 000544-76-3      | 80        |
| 3       | Nonadecane            | 268 C19H40   | 000629-92-5      | 72        |
| 4       | Pentadecane, 8-hexyl- | 296 C21H44   | 013475-75-7      | 72        |
| 5       | Dodecane, 1-iodo-     | 296 C12H25I  | 004292-19-7      | 72        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
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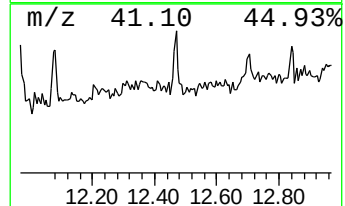
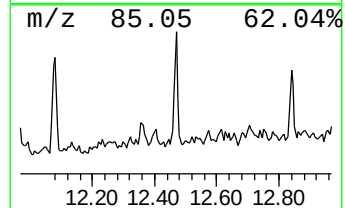
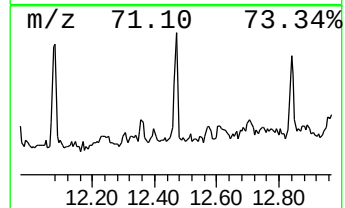
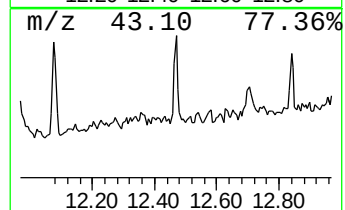
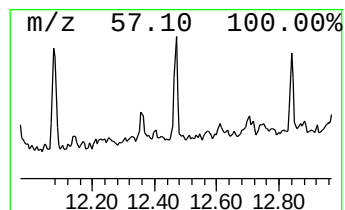
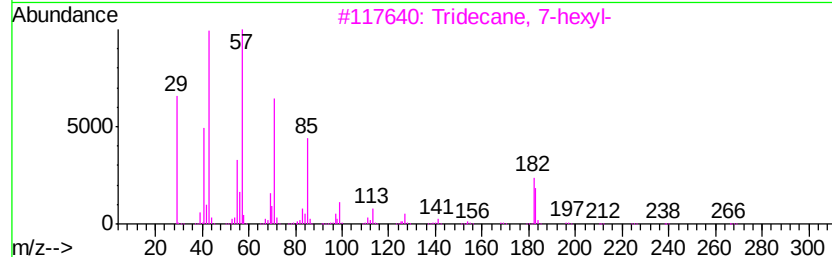
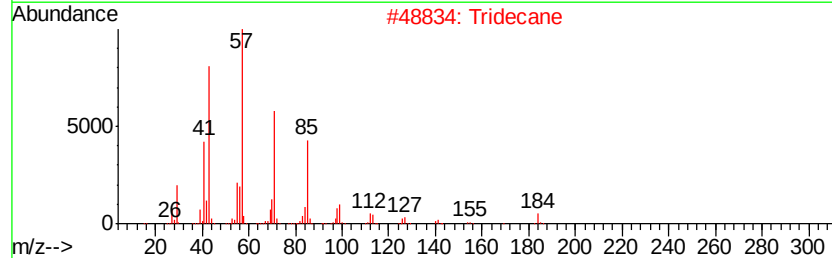
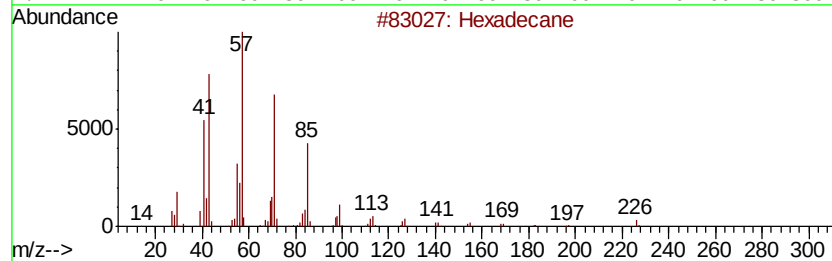
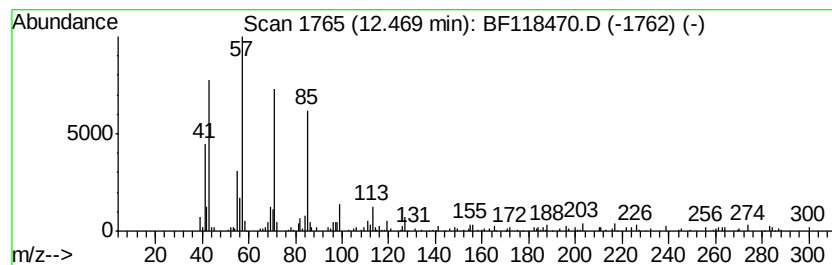
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 Tridecane Concentration Rank 12

| R.T.      | EstConc             | Area  | Relative to ISTD |             | R.T.  |
|-----------|---------------------|-------|------------------|-------------|-------|
| 12.47     | 4.01 ng             | 92337 | Phenanthrene-d10 |             | 11.39 |
| Hit# of 5 | Tentative ID        | MW    | MolForm          | CAS#        | Qual  |
| 1         | Hexadecane          | 226   | C16H34           | 000544-76-3 | 95    |
| 2         | Tridecane           | 184   | C13H28           | 000629-50-5 | 87    |
| 3         | Tridecane, 7-hexyl- | 268   | C19H40           | 007225-66-3 | 74    |
| 4         | Heneicosane         | 296   | C21H44           | 000629-94-7 | 74    |
| 5         | Octacosane          | 394   | C28H58           | 000630-02-4 | 72    |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

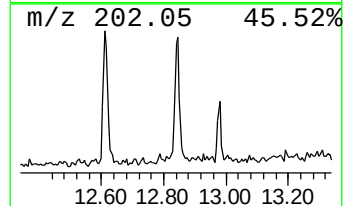
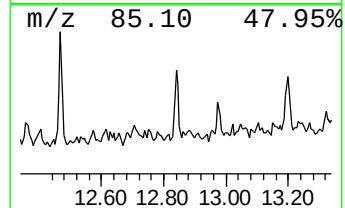
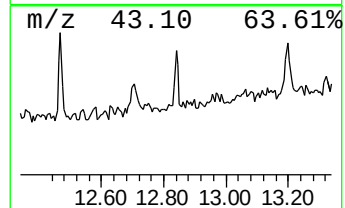
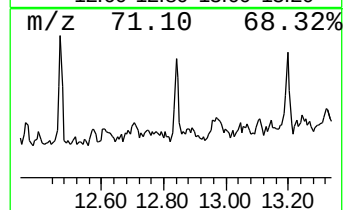
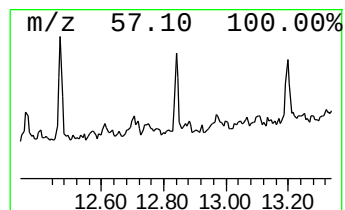
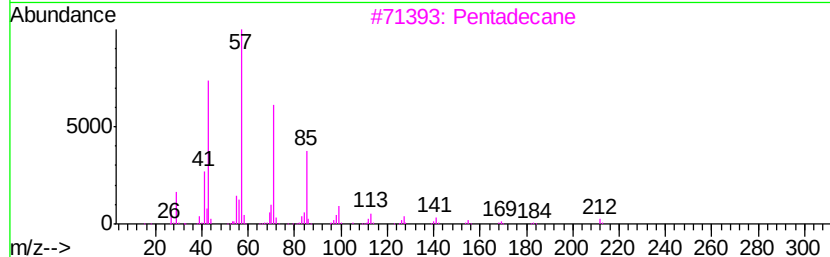
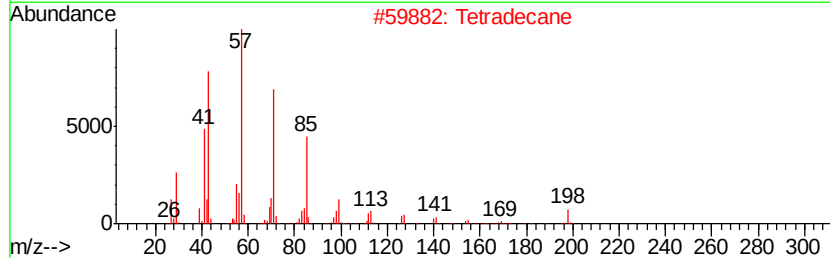
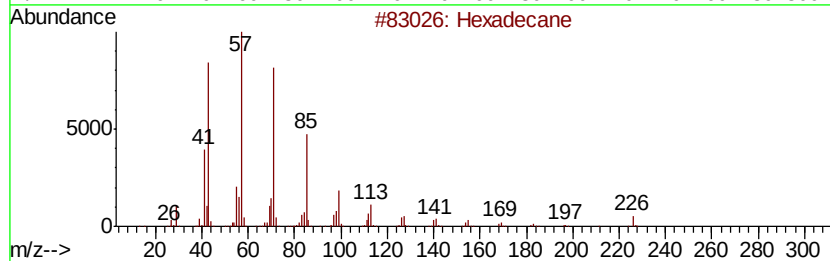
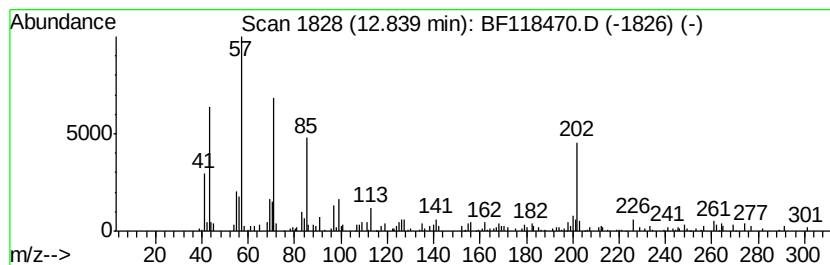
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TIC Integration Parameters: LSCINT.P

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Peak Number 15 Tetradeane Concentration Rank 16

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.84 | 3.25 ng | 78958 | Chrysene-d12     | 14.04 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane            | 226 | C16H34  | 000544-76-3 | 87   |
| 2    |    | Tetradecane           | 198 | C14H30  | 000629-59-4 | 78   |
| 3    |    | Pentadecane           | 212 | C15H32  | 000629-62-9 | 70   |
| 4    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 55   |
| 5    |    | Eicosane              | 282 | C20H42  | 000112-95-8 | 55   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
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Operator : JU  
Sample : K6474-03  
Misc :  
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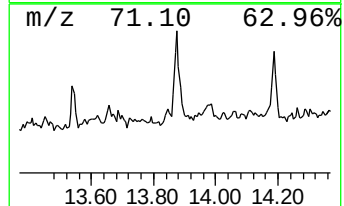
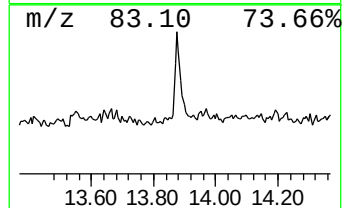
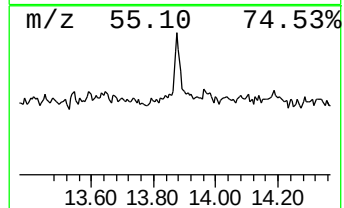
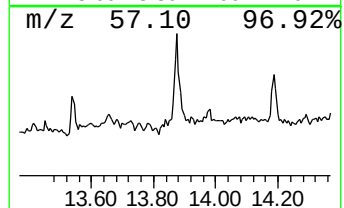
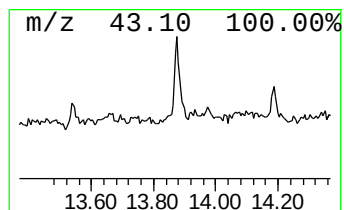
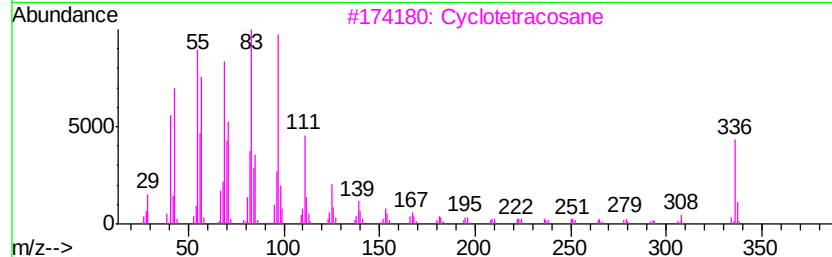
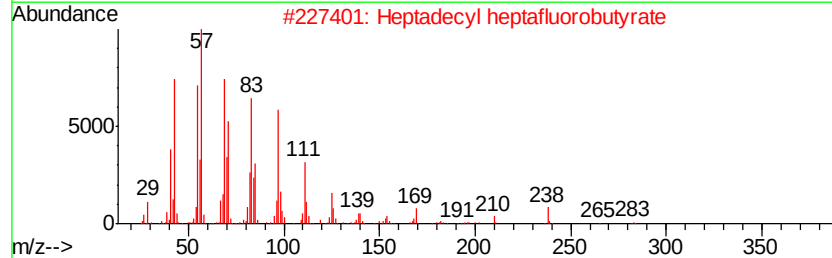
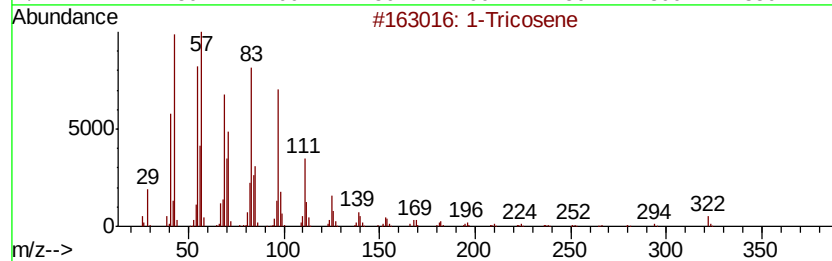
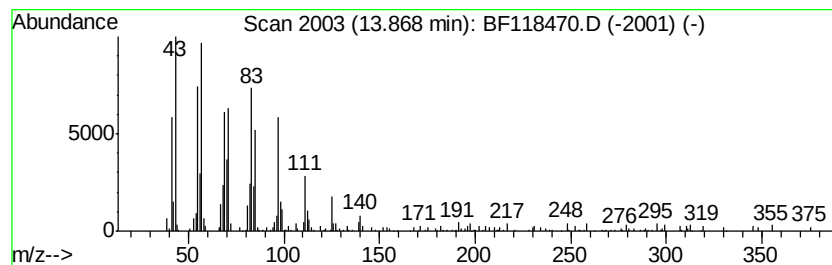
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ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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 16 1-Tricosene Concentration Rank 5

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------|--------|------------------|-------------|------|
| 13.87     | 9.39 ng                        | 228446 | Chrysene-d12     | 14.04       |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual |
| 1         | 1-Tricosene                    | 322    | C23H46           | 018835-32-0 | 94   |
| 2         | Heptadecyl heptafluorobutyrate | 452    | C21H35F7O2       | 959085-66-6 | 94   |
| 3         | Cyclotetracosane               | 336    | C24H48           | 000297-03-0 | 91   |
| 4         | Trifluoroacetoxy hexadecane    | 338    | C18H33F3O2       | 006222-03-3 | 91   |
| 5         | 17-Pentatriacontene            | 491    | C35H70           | 006971-40-0 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

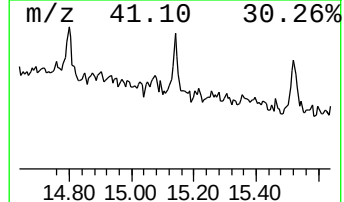
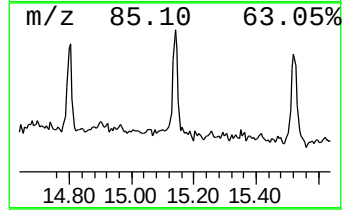
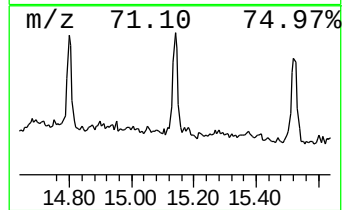
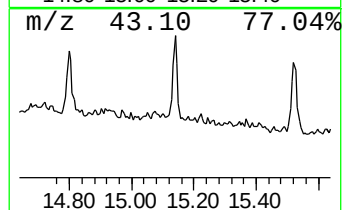
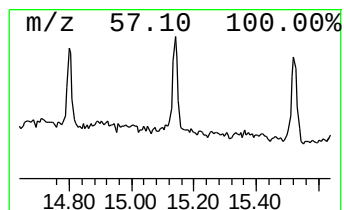
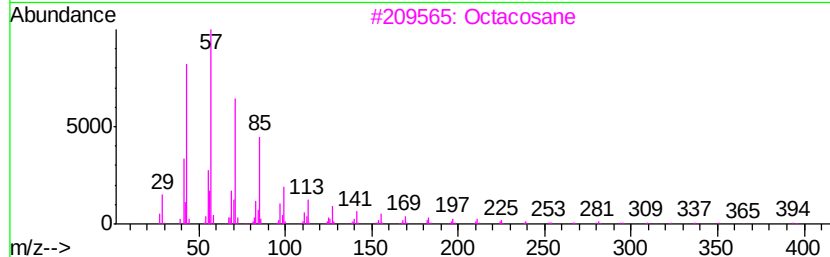
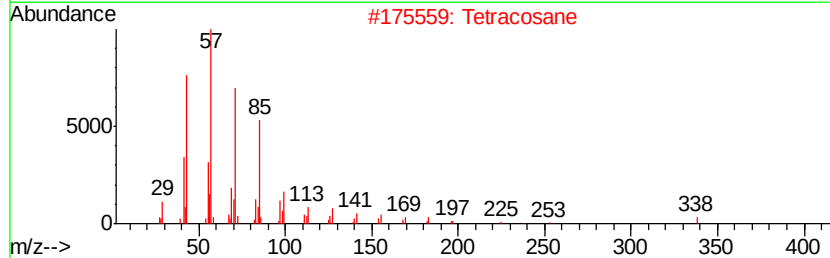
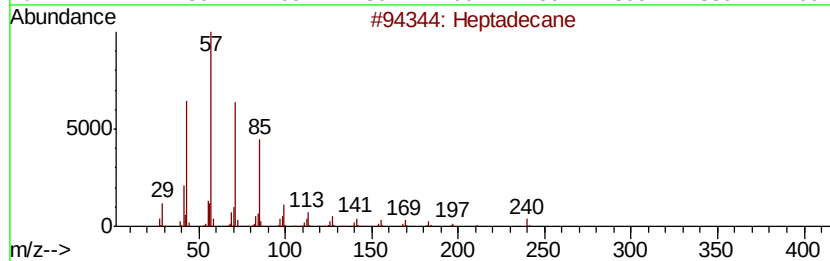
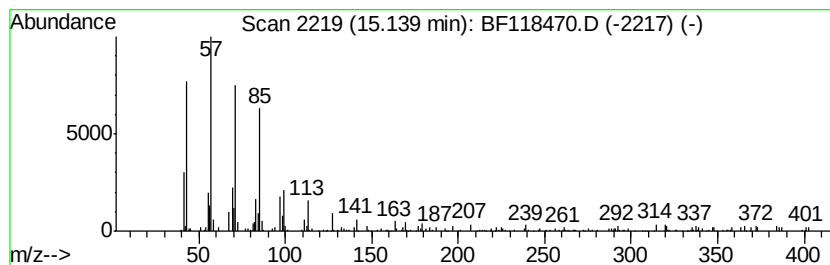
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 2-methylhexacosane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.14 | 6.47 ng | 194601 | Perylene-d12     | 15.54 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Heptadecane        | 240 | C17H36  | 000629-78-7  | 93   |
| 2    |    | Tetracosane        | 338 | C24H50  | 000646-31-1  | 91   |
| 3    |    | Octacosane         | 394 | C28H58  | 000630-02-4  | 91   |
| 4    |    | 2-methylhexacosane | 380 | C27H56  | 1000376-72-7 | 91   |
| 5    |    | Hexacosane         | 366 | C26H54  | 000630-01-3  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

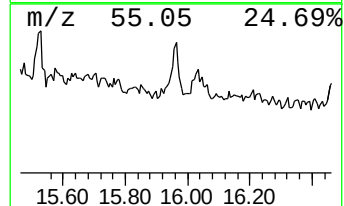
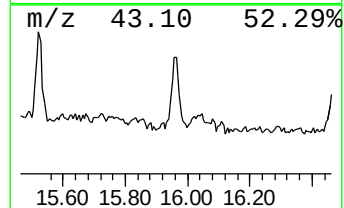
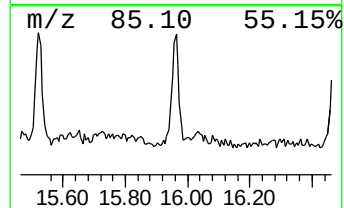
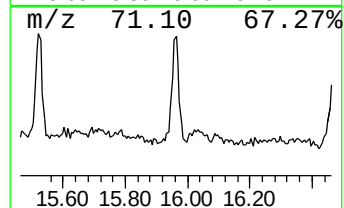
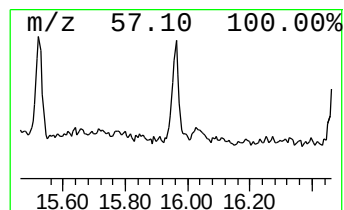
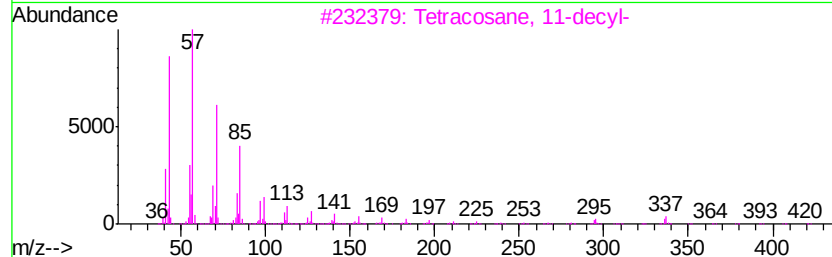
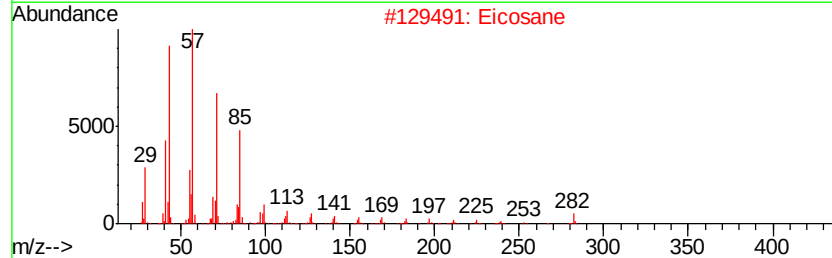
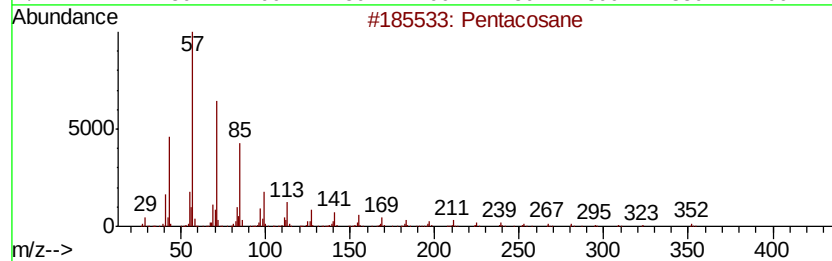
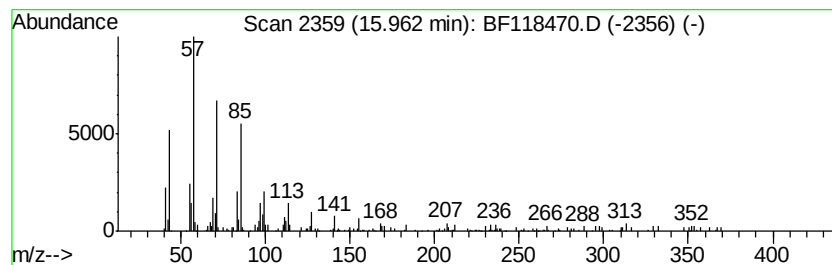
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Pentacosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.96 | 5.53 ng | 166249 | Perylene-d12     | 15.54 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#         | Qual |
|------|----|---|------------------------|-----|---------|--------------|------|
| 1    |    |   | Pentacosane            | 352 | C25H52  | 000629-99-2  | 93   |
| 2    |    |   | Eicosane               | 282 | C20H42  | 000112-95-8  | 91   |
| 3    |    |   | Tetracosane, 11-decyl- | 479 | C34H70  | 055429-84-0  | 91   |
| 4    |    |   | Tetratetracontane      | 619 | C44H90  | 007098-22-8  | 90   |
| 5    |    |   | 2-methylhexacosane     | 380 | C27H56  | 1000376-72-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010320\  
Data File : BF118470.D  
Acq On : 3 Jan 2020 21:30  
Operator : JU  
Sample : K6474-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

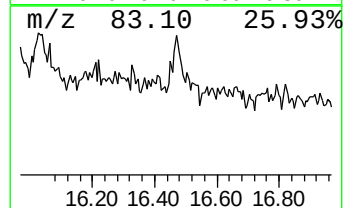
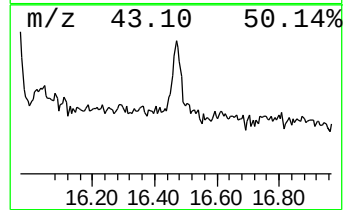
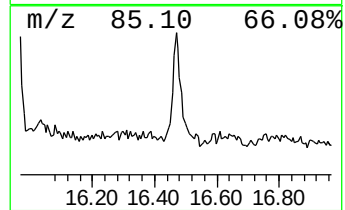
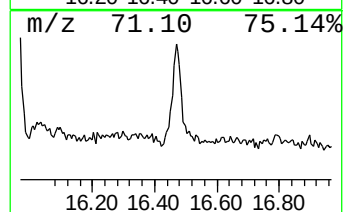
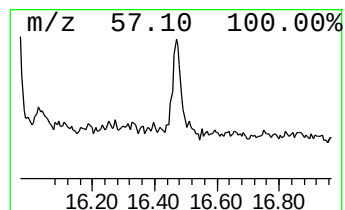
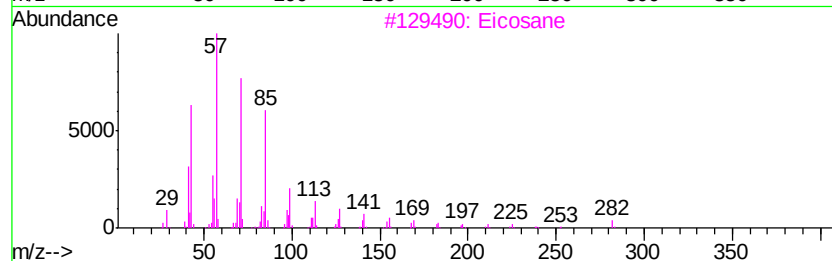
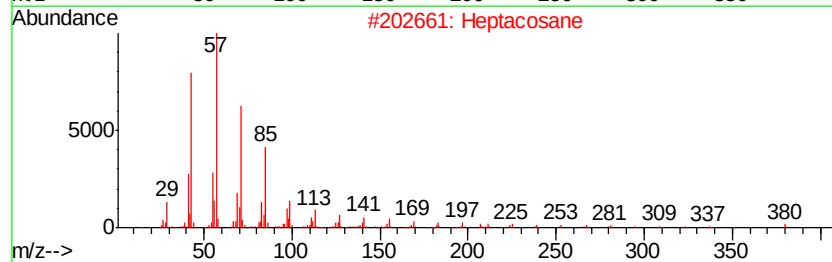
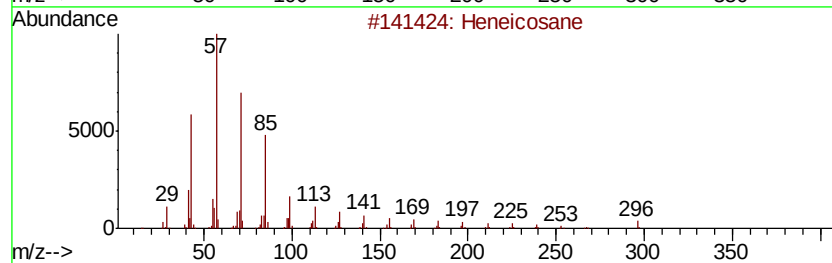
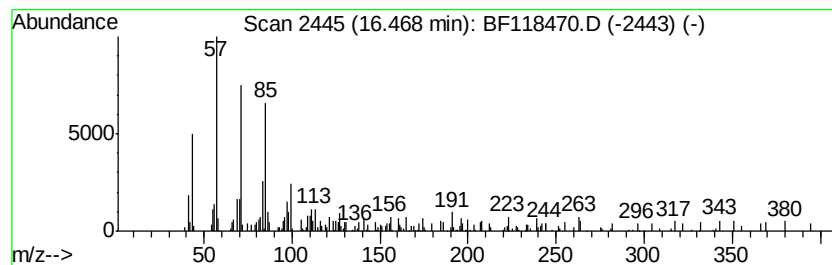
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Heneicosane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.47 | 3.50 ng | 105177 | Perylene-d12     | 15.54 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 90   |
| 2       | Heptacosane |              | 380 | C27H56  | 000593-49-7 | 90   |
| 3       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 90   |
| 4       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 89   |
| 5       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF010320\  
 Data File : BF118470.D  
 Acq On : 3 Jan 2020 21:30  
 Operator : JU  
 Sample : K6474-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF122419.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... | 2.12  | 14.8    | ng    | 302011   | 1                     | 6.85  | 407142 | 20.0 |
| 2-Pentanone, 4-hy... | 5.06  | 14.5    | ng    | 294444   | 1                     | 6.85  | 407142 | 20.0 |
| unknown6.62          | 6.62  | 96.4    | ng    | 1962690  | 1                     | 6.85  | 407142 | 20.0 |
| Heptadecane          | 10.32 | 2.0     | ng    | 52319    | 3                     | 9.89  | 517138 | 20.0 |
| Hexadecane           | 10.79 | 4.7     | ng    | 109154   | 4                     | 11.39 | 460969 | 20.0 |
| Methacrylic acid,... | 11.11 | 7.8     | ng    | 180997   | 4                     | 11.39 | 460969 | 20.0 |
| Octadecane           | 11.24 | 2.8     | ng    | 64534    | 4                     | 11.39 | 460969 | 20.0 |
| Dodecane, 1-iodo-    | 11.27 | 2.4     | ng    | 54460    | 4                     | 11.39 | 460969 | 20.0 |
| Octacosane           | 11.67 | 3.4     | ng    | 79258    | 4                     | 11.39 | 460969 | 20.0 |
| n-Hexadecanoic acid  | 11.91 | 7.7     | ng    | 176909   | 4                     | 11.39 | 460969 | 20.0 |
| 1-Pentadecanethiol   | 11.97 | 5.6     | ng    | 128922   | 4                     | 11.39 | 460969 | 20.0 |
| Pentadecane          | 12.08 | 3.8     | ng    | 87915    | 4                     | 11.39 | 460969 | 20.0 |
| Tridecane            | 12.47 | 4.0     | ng    | 92337    | 4                     | 11.39 | 460969 | 20.0 |
| Tetradecane          | 12.84 | 3.3     | ng    | 78958    | 5                     | 14.04 | 486407 | 20.0 |
| 1-Tricosene          | 13.87 | 9.4     | ng    | 228446   | 5                     | 14.04 | 486407 | 20.0 |
| 2-methylhexacosane   | 15.14 | 6.5     | ng    | 194601   | 6                     | 15.54 | 601438 | 20.0 |
| Pentacosane          | 15.96 | 5.5     | ng    | 166249   | 6                     | 15.54 | 601438 | 20.0 |
| Heneicosane          | 16.47 | 3.5     | ng    | 105177   | 6                     | 15.54 | 601438 | 20.0 |