

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030719\  
 Data File : BF112921.D  
 Acq On : 7 Mar 2019 15:13  
 Operator : JU/SJ  
 Sample : K1757-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6CD-D

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-BF022719.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.334       | 548           | 552         | 568          | rBV      | 2681370        | 2669078       | 79.60%          | 7.400%        |
| 2         | 6.363       | 723           | 727         | 746          | rBV      | 2812520        | 2949860       | 87.98%          | 8.179%        |
| 3         | 6.498       | 746           | 750         | 753          | rBV      | 3293585        | 2846083       | 84.88%          | 7.891%        |
| 4         | 6.728       | 786           | 789         | 793          | rBV      | 1095662        | 903836        | 26.96%          | 2.506%        |
| 5         | 6.886       | 812           | 816         | 819          | rBV      | 2608152        | 2117675       | 63.16%          | 5.872%        |
| 6         | 7.286       | 880           | 884         | 887          | rBV      | 1953301        | 1689545       | 50.39%          | 4.684%        |
| 7         | 8.010       | 1003          | 1007        | 1015         | rBV      | 1257401        | 1166248       | 34.78%          | 3.234%        |
| 8         | 9.086       | 1186          | 1190        | 1204         | rBV      | 3328473        | 3082662       | 91.94%          | 8.547%        |
| 9         | 9.480       | 1254          | 1257        | 1265         | rBV      | 276198         | 263269        | 7.85%           | 0.730%        |
| 10        | 9.763       | 1301          | 1305        | 1318         | rVB      | 1457974        | 1424630       | 42.49%          | 3.950%        |
| 11        | 10.039      | 1348          | 1352        | 1357         | rBV      | 28996          | 46001         | 1.37%           | 0.128%        |
| 12        | 10.545      | 1434          | 1438        | 1452         | rBV      | 2410215        | 2430834       | 72.50%          | 6.740%        |
| 13        | 11.239      | 1552          | 1556        | 1564         | rBV      | 1574030        | 1560598       | 46.54%          | 4.327%        |
| 14        | 11.774      | 1643          | 1647        | 1656         | rBV      | 546437         | 578763        | 17.26%          | 1.605%        |
| 15        | 12.445      | 1757          | 1761        | 1763         | rBV      | 31949          | 35016         | 1.04%           | 0.097%        |
| 16        | 12.557      | 1777          | 1780        | 1788         | rBV      | 225424         | 279667        | 8.34%           | 0.775%        |
| 17        | 12.815      | 1820          | 1824        | 1828         | rBV      | 3647784        | 3352925       | 100.00%         | 9.296%        |
| 18        | 13.062      | 1863          | 1866        | 1869         | rVB3     | 43833          | 38248         | 1.14%           | 0.106%        |
| 19        | 13.404      | 1917          | 1924        | 1933         | rVB3     | 62257          | 93265         | 2.78%           | 0.259%        |
| 20        | 13.727      | 1973          | 1979        | 1989         | rBV2     | 299930         | 421431        | 12.57%          | 1.168%        |
| 21        | 13.862      | 1997          | 2002        | 2010         | rBV      | 1690787        | 1747590       | 52.12%          | 4.845%        |
| 22        | 14.045      | 2029          | 2033        | 2036         | rVB      | 176514         | 171095        | 5.10%           | 0.474%        |
| 23        | 14.345      | 2081          | 2084        | 2092         | rBV      | 378828         | 387168        | 11.55%          | 1.073%        |
| 24        | 14.639      | 2127          | 2134        | 2141         | rBV      | 605801         | 692420        | 20.65%          | 1.920%        |
| 25        | 14.709      | 2143          | 2146        | 2151         | rVB2     | 88774          | 105819        | 3.16%           | 0.293%        |
| 26        | 14.874      | 2170          | 2174        | 2175         | rBV2     | 40684          | 52670         | 1.57%           | 0.146%        |
| 27        | 14.956      | 2184          | 2188        | 2193         | rVB      | 807500         | 839148        | 25.03%          | 2.327%        |
| 28        | 15.262      | 2235          | 2240        | 2245         | rBV      | 1063498        | 1435190       | 42.80%          | 3.979%        |
| 29        | 15.309      | 2245          | 2248        | 2255         | rVB      | 803275         | 1027527       | 30.65%          | 2.849%        |
| 30        | 15.715      | 2311          | 2317        | 2323         | rBV      | 631251         | 947624        | 28.26%          | 2.627%        |
| 31        | 16.186      | 2391          | 2397        | 2404         | rBV      | 307341         | 540924        | 16.13%          | 1.500%        |
| 32        | 16.727      | 2484          | 2489        | 2496         | rVB      | 84570          | 170143        | 5.07%           | 0.472%        |

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TP-6CD-D

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-BF022719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

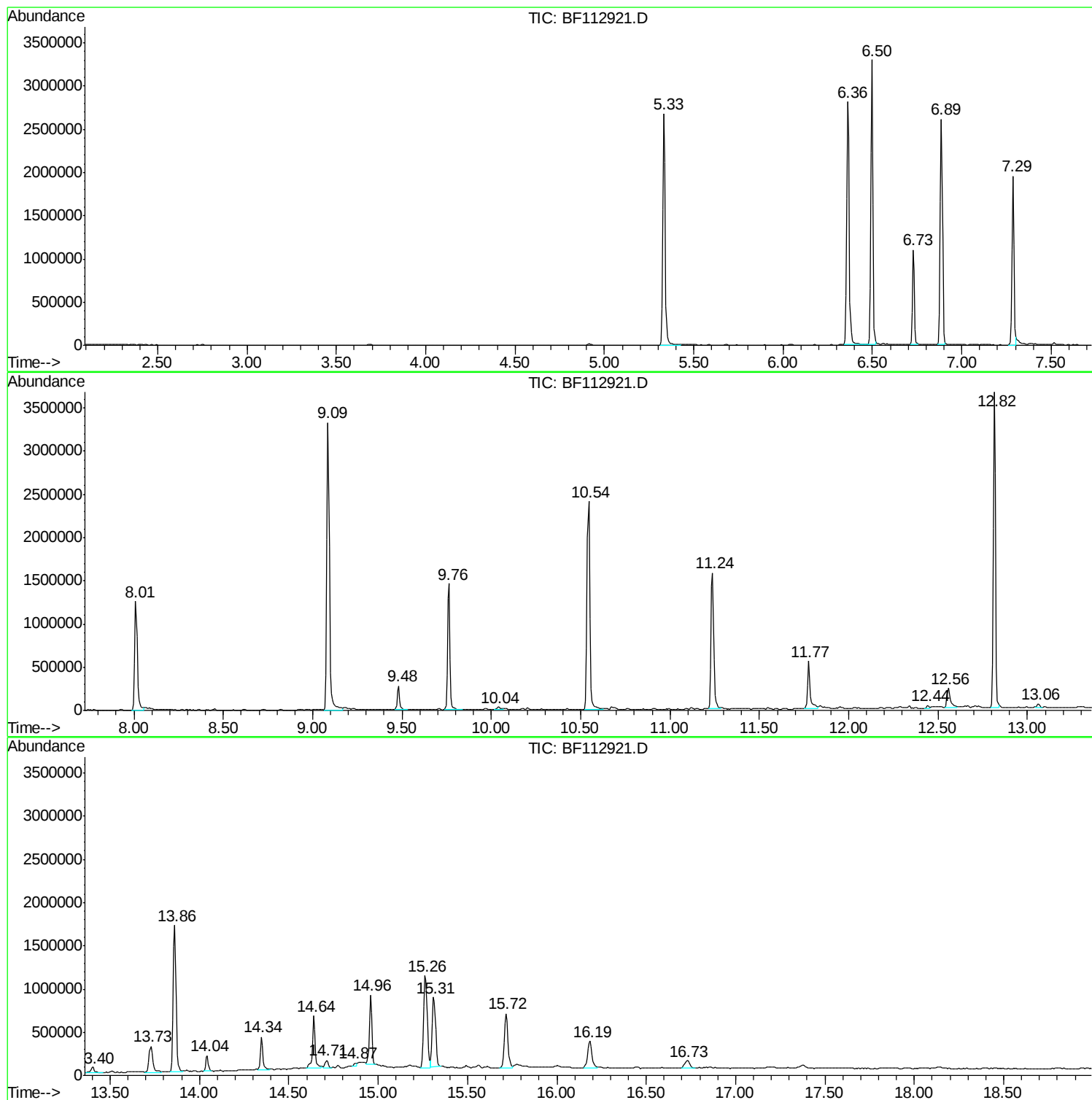
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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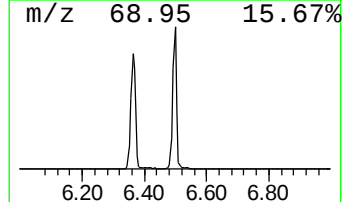
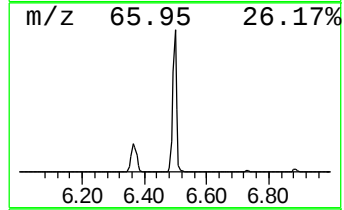
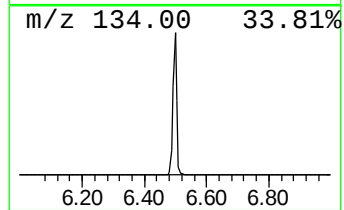
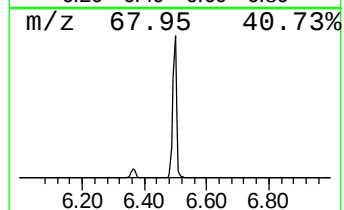
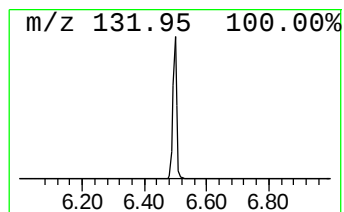
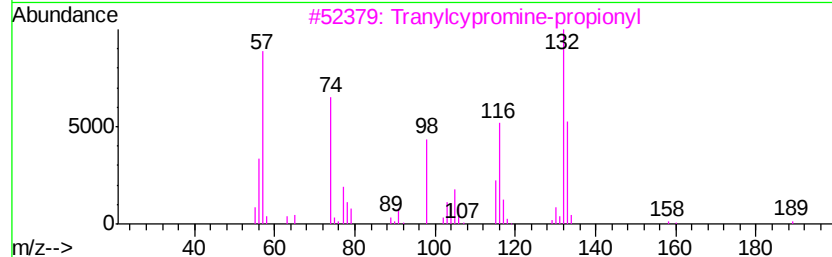
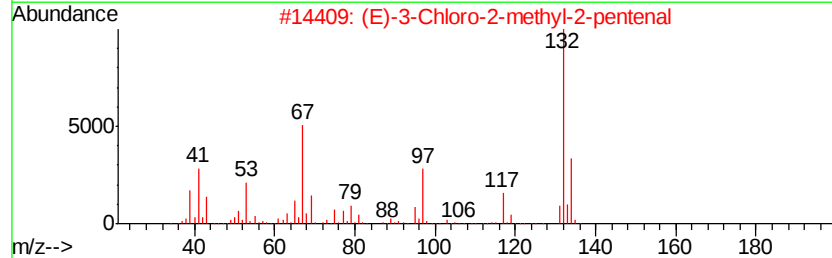
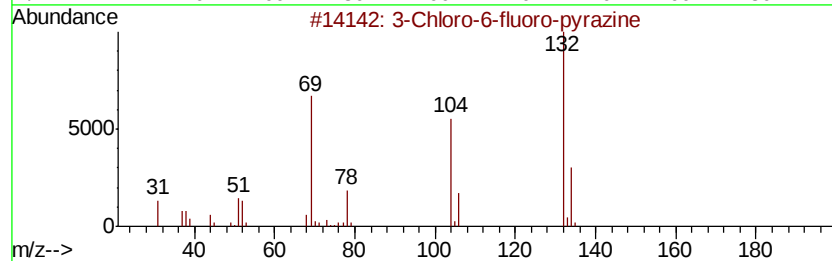
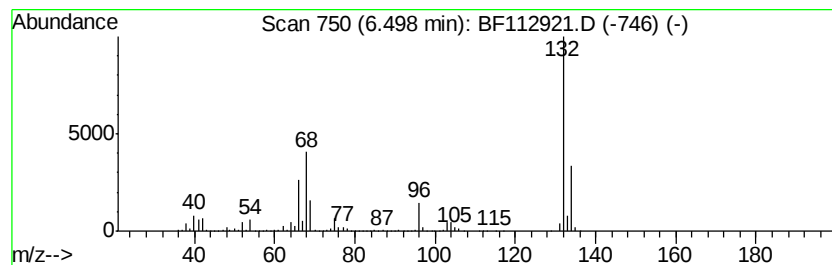
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.50 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.50 | 62.98 ng | 2846080 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

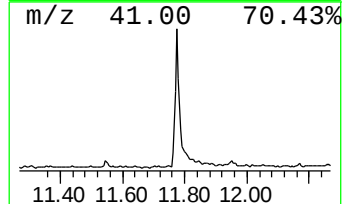
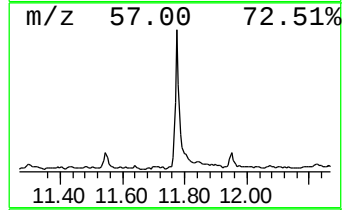
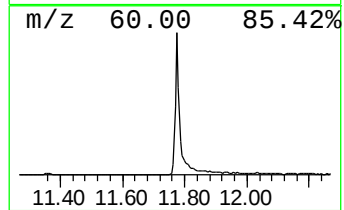
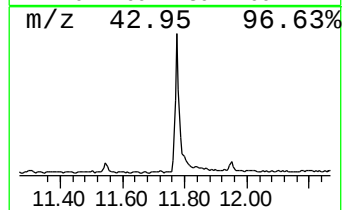
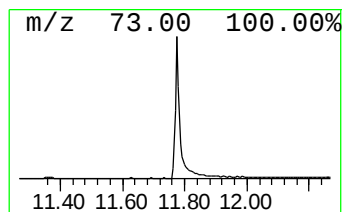
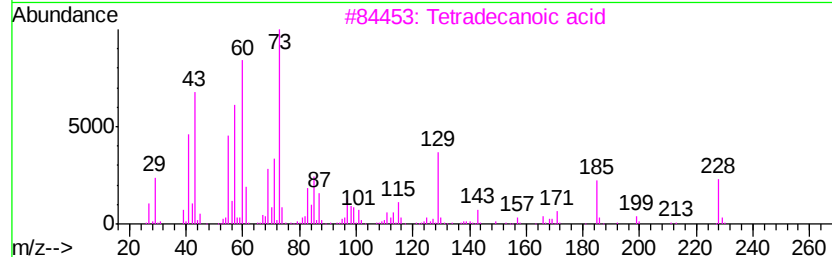
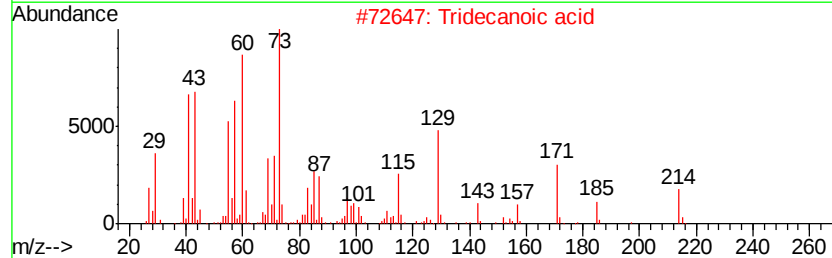
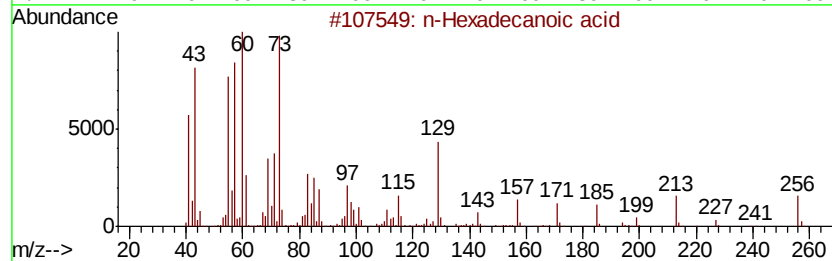
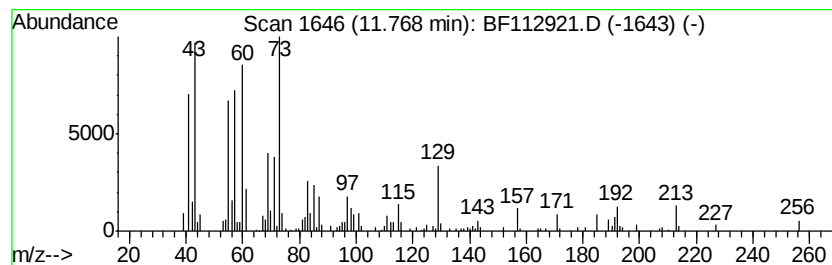
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.77 | 7.42 ng | 578763 | Phenanthrene-d10 | 11.24 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 95   |
| 3       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 93   |
| 4       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 5       |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 72   |



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Instrument :  
BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
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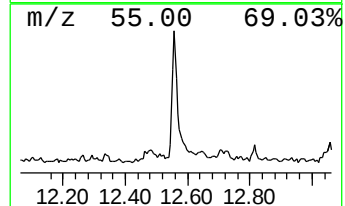
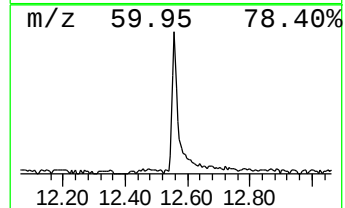
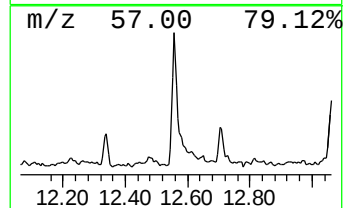
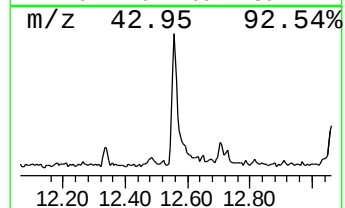
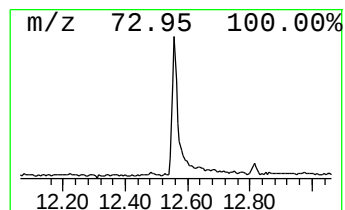
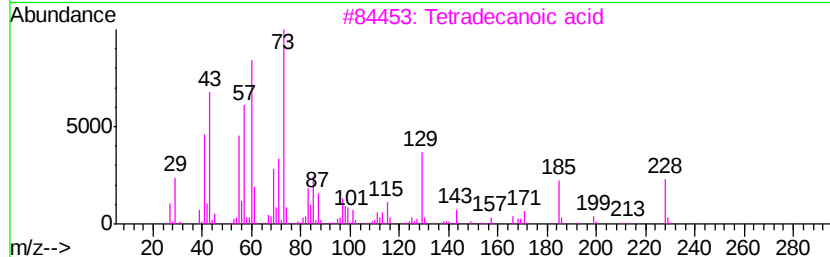
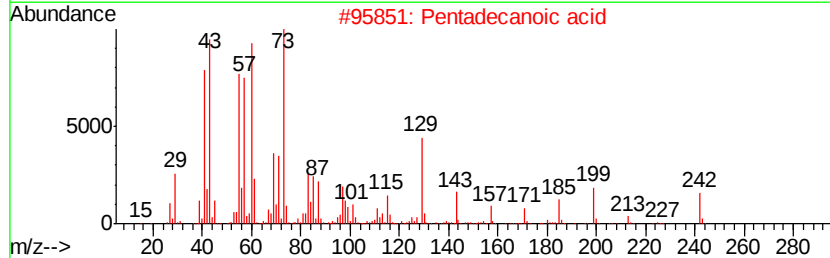
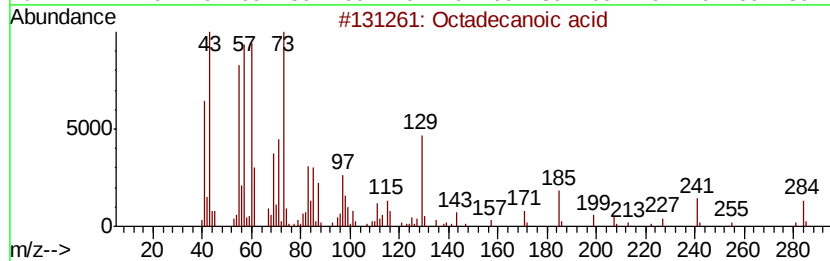
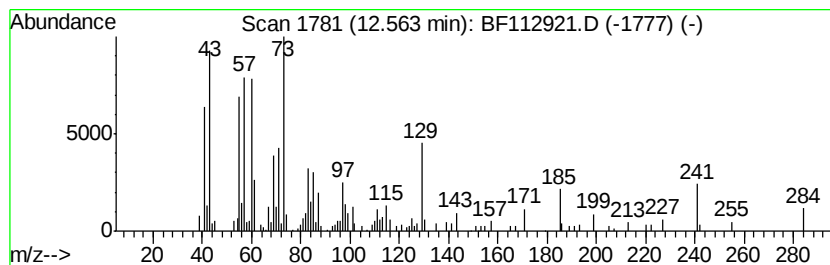
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Octadecanoic acid Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.56 | 3.20 ng | 279667 | Chrysene-d12     | 13.86 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 3       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 72   |
| 4       |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 70   |
| 5       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 46   |



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Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

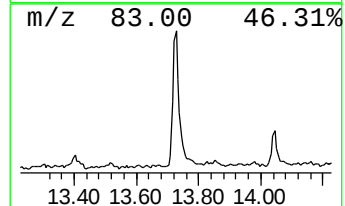
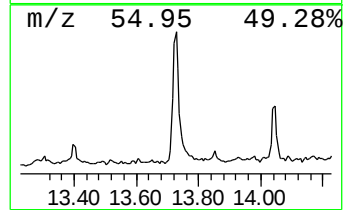
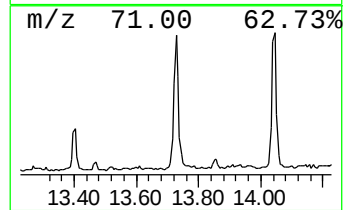
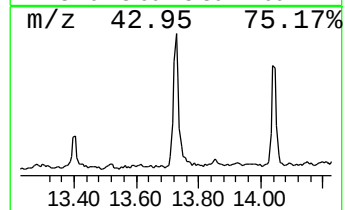
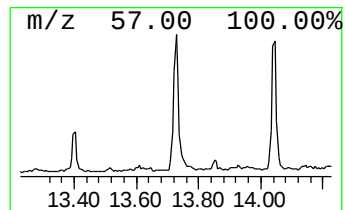
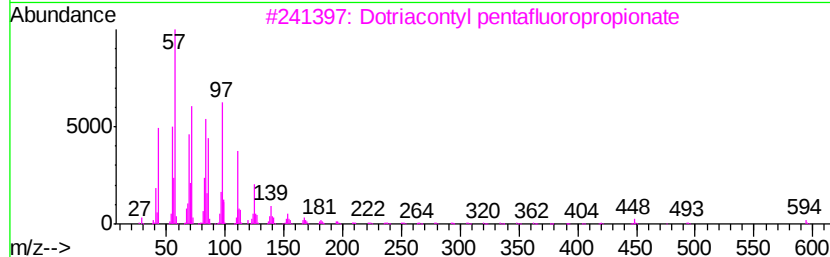
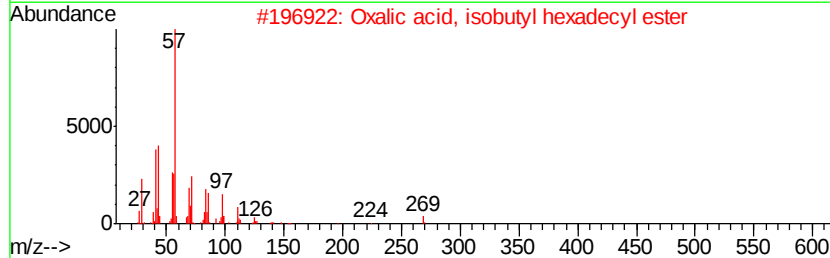
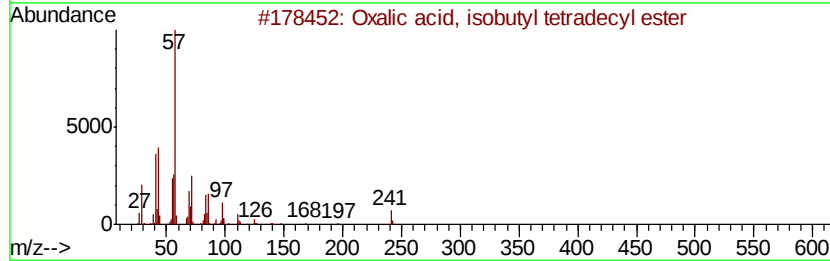
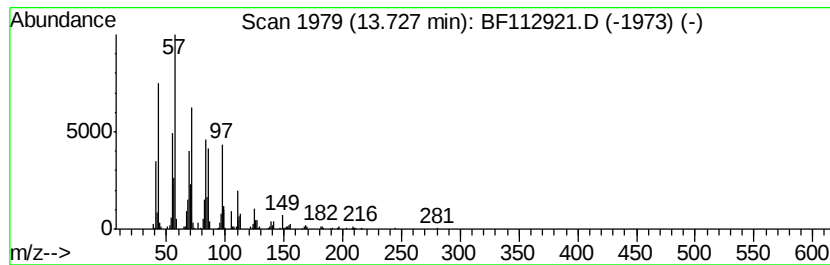
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Oxalic acid, isobutyl tetra... Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.73 | 4.82 ng | 421431 | Chrysene-d12     | 13.86 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Oxalic acid, isobutyl tetradecyl... | 342 | C20H38O4   | 1000309-37-9 | 91   |
| 2    |    | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4   | 1000309-38-1 | 91   |
| 3    |    | Dotriacontyl pentafluoropropionate  | 612 | C35H65F5O2 | 1000351-81-4 | 91   |
| 4    |    | Oxalic acid, isobutyl pentadecyl... | 356 | C21H40O4   | 1000309-38-0 | 91   |
| 5    |    | E-15-Heptadecenal                   | 252 | C17H32O    | 1000130-97-9 | 76   |



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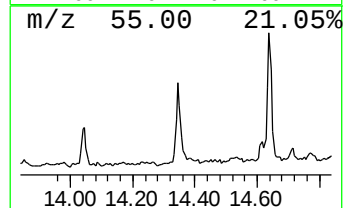
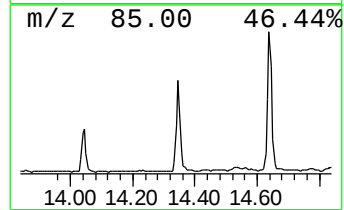
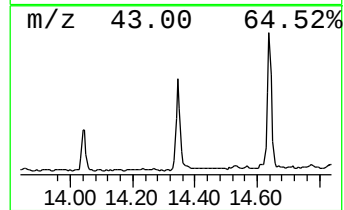
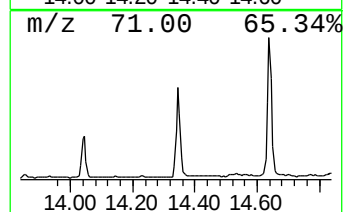
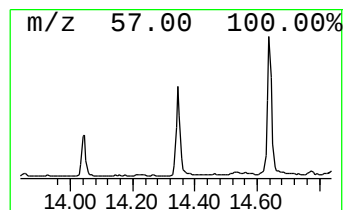
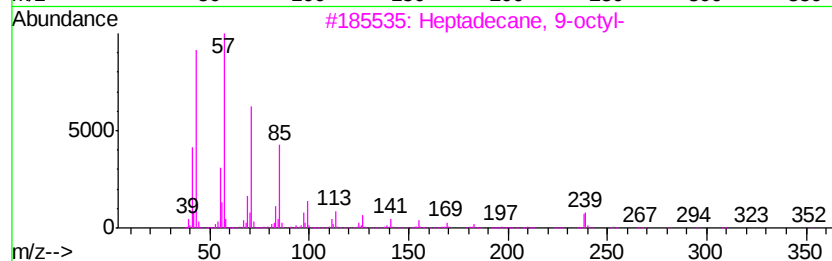
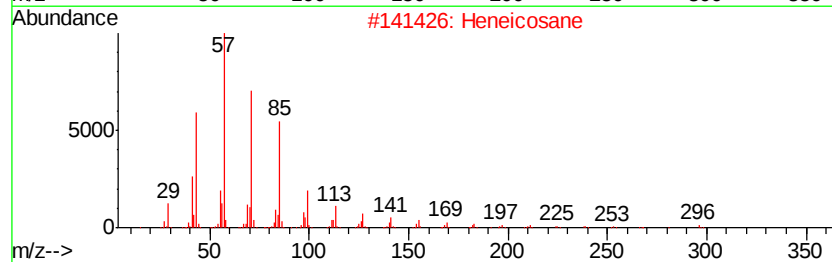
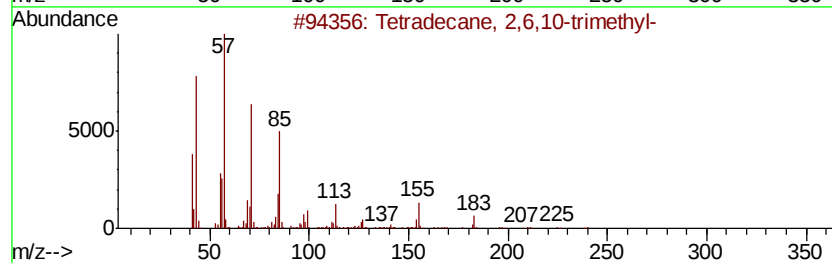
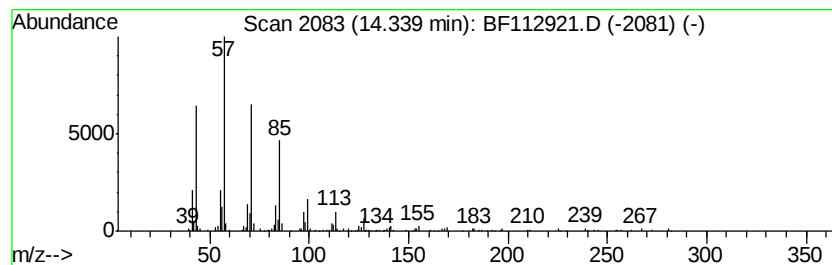
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 6 Tetradecane, 2,6,10-trimethyl- Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.34 | 4.43 ng | 387168 | Chrysene-d12     | 13.86 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7 | 93   |
| 2    |    | Heneicosane                    | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Heptadecane, 9-octyl-          | 352 | C25H52  | 007225-64-1 | 91   |
| 4    |    | Octacosane                     | 394 | C28H58  | 000630-02-4 | 91   |
| 5    |    | Hexadecane, 2-methyl-          | 240 | C17H36  | 001560-92-5 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030719\  
Data File : BF112921.D  
Acq On : 7 Mar 2019 15:13  
Operator : JU/SJ  
Sample : K1757-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6CD-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

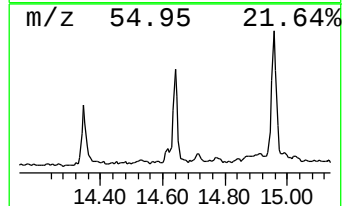
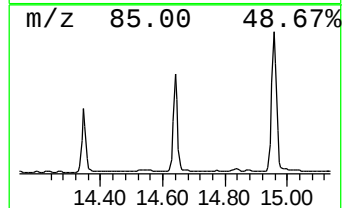
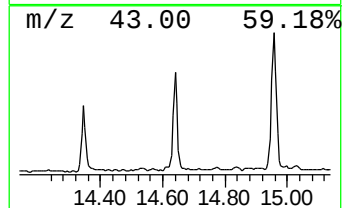
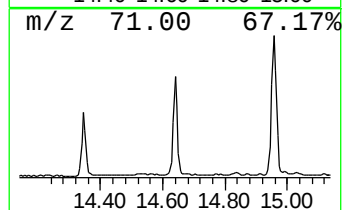
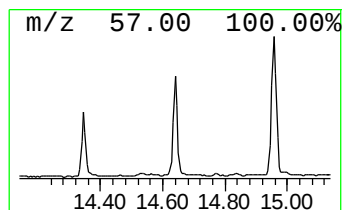
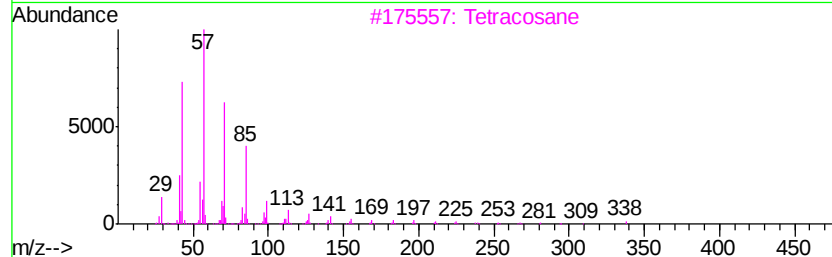
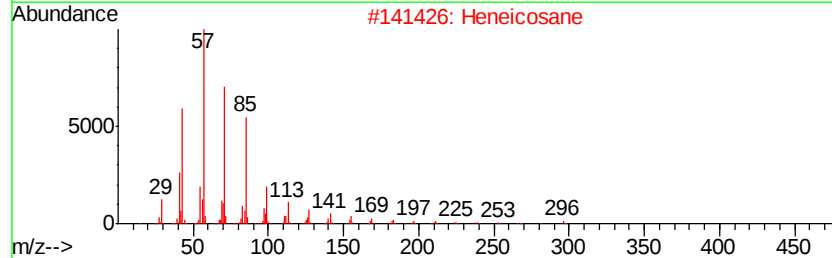
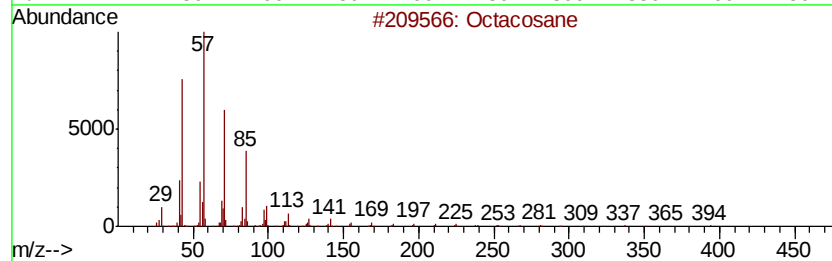
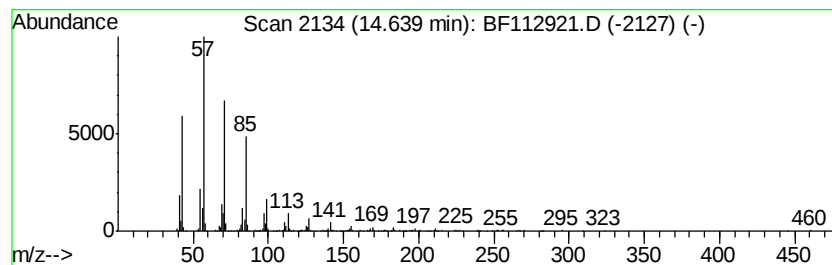
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Octacosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.64 | 9.65 ng | 692420 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Octacosane                       | 394 | C28H58  | 000630-02-4 | 91   |
| 2    |    | Heneicosane                      | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Tetracosane                      | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 91   |
| 5    |    | Docosane                         | 310 | C22H46  | 000629-97-0 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030719\  
Data File : BF112921.D  
Acq On : 7 Mar 2019 15:13  
Operator : JU/SJ  
Sample : K1757-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6CD-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

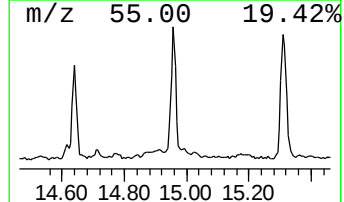
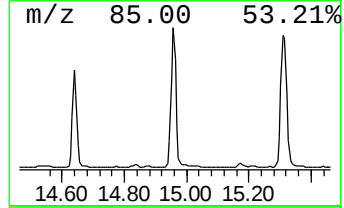
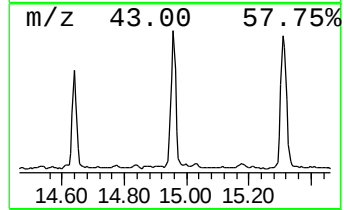
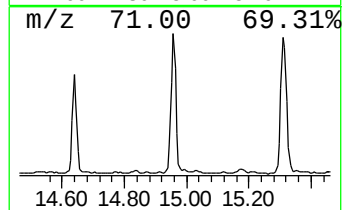
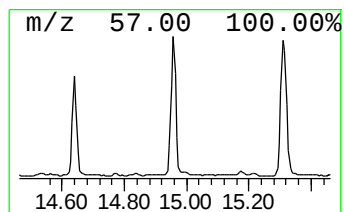
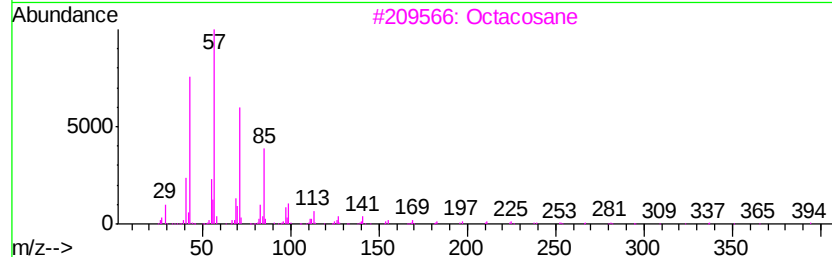
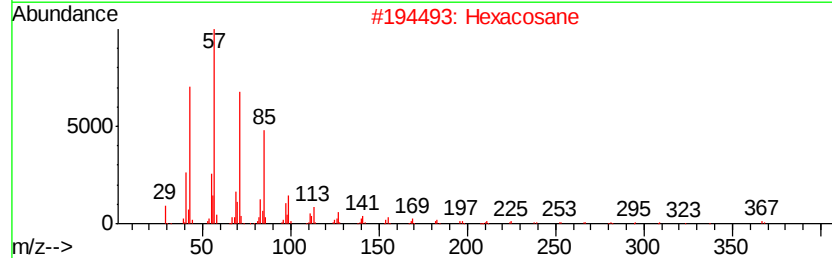
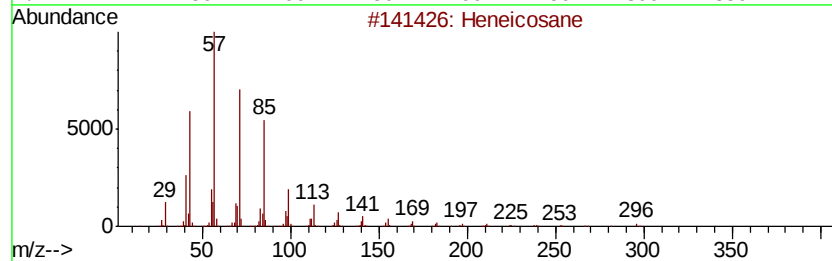
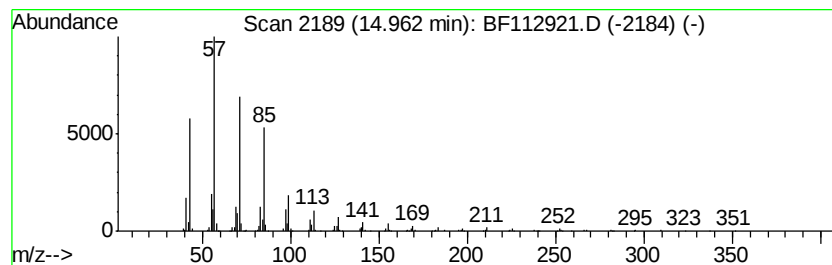
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Heneicosane Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.96 | 11.69 ng | 839148 | Perylene-d12     | 15.26 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 91   |
| 2       | Hexacosane  |              | 366 | C26H54  | 000630-01-3 | 91   |
| 3       | Octacosane  |              | 394 | C28H58  | 000630-02-4 | 91   |
| 4       | triacontane |              | 422 | C30H62  | 000638-68-6 | 91   |
| 5       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030719\  
Data File : BF112921.D  
Acq On : 7 Mar 2019 15:13  
Operator : JU/SJ  
Sample : K1757-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6CD-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

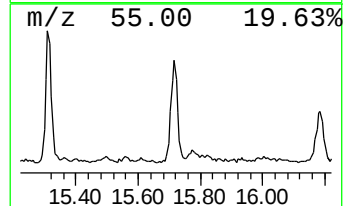
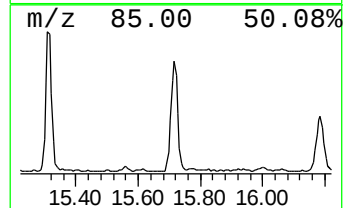
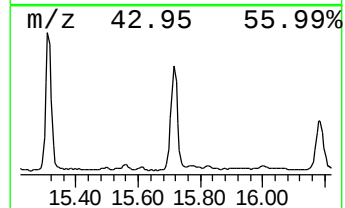
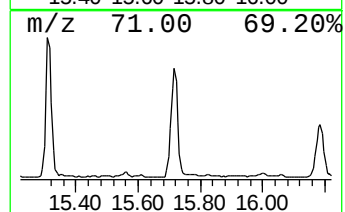
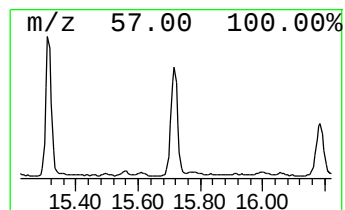
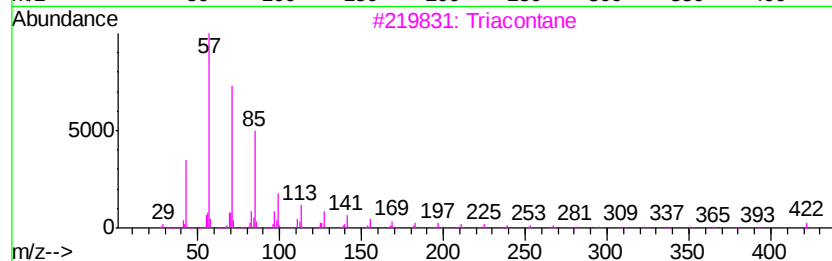
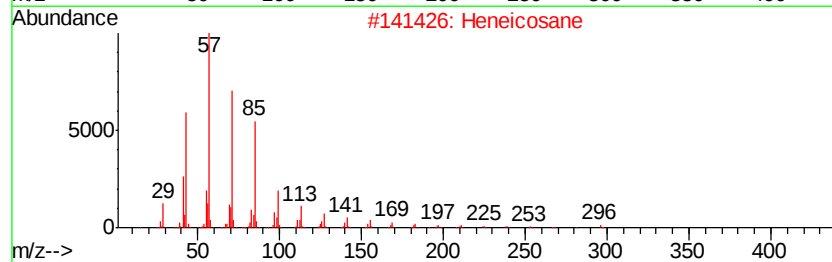
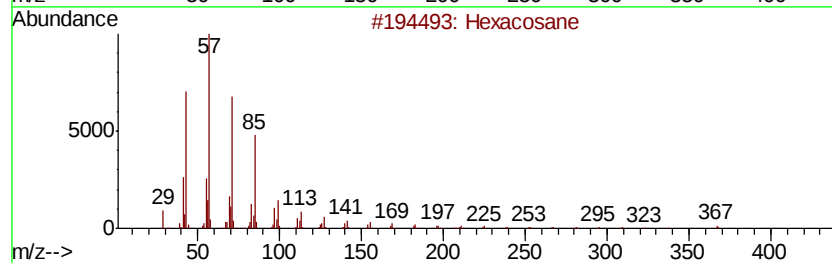
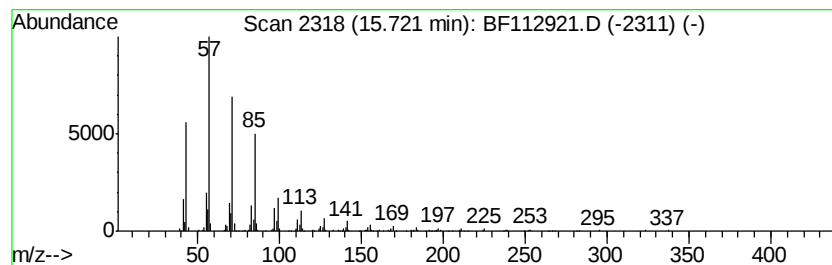
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Hexacosane Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.72 | 13.21 ng | 947624 | Perylene-d12     | 15.26 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Hexacosane  |              | 366 | C26H54  | 000630-01-3 | 91   |
| 2       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 91   |
| 3       | Triacontane |              | 422 | C30H62  | 000638-68-6 | 91   |
| 4       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 87   |
| 5       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030719\  
 Data File : BF112921.D  
 Acq On : 7 Mar 2019 15:13  
 Operator : JU/SJ  
 Sample : K1757-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6CD-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

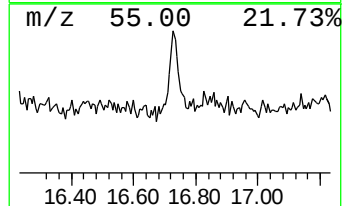
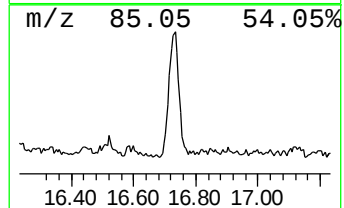
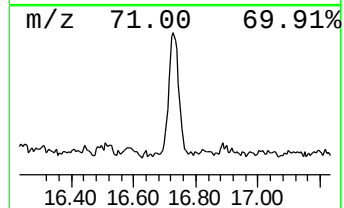
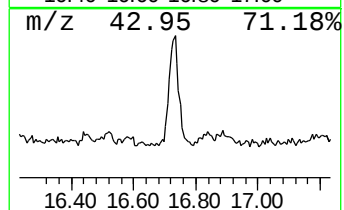
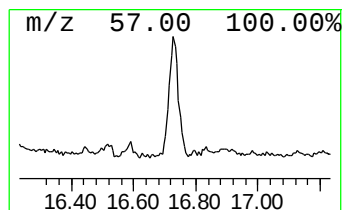
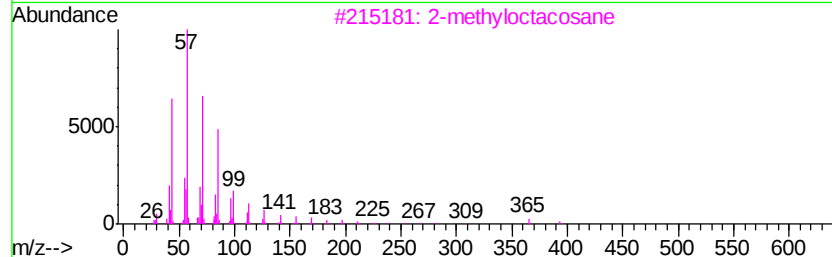
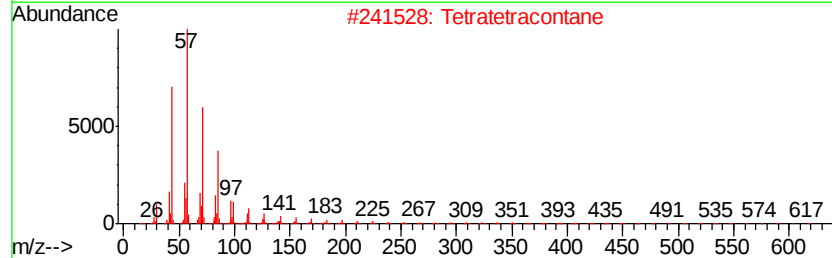
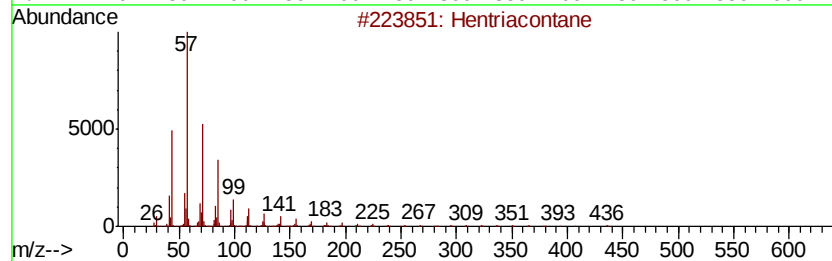
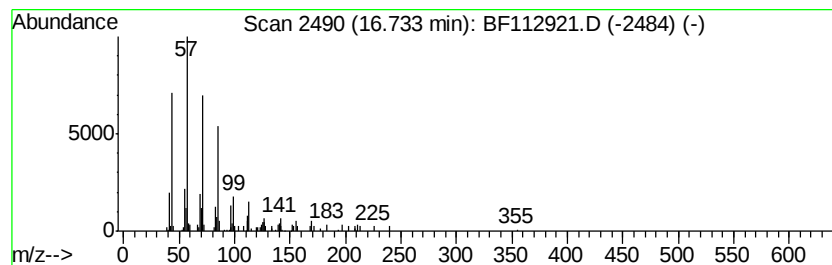
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 11 Hentriacontane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.73 | 2.37 ng | 170143 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|----------------------------------|-----|---------|--------------|------|
| 1    | 5  | Hentriacontane                   | 437 | C31H64  | 000630-04-6  | 91   |
| 2    |    | Tetratetracontane                | 619 | C44H90  | 007098-22-8  | 90   |
| 3    |    | 2-methyloctacosane               | 408 | C29H60  | 1000376-72-8 | 90   |
| 4    |    | Triacontane                      | 422 | C30H62  | 000638-68-6  | 87   |
| 5    |    | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030719\  
 Data File : BF112921.D  
 Acq On : 7 Mar 2019 15:13  
 Operator : JU/SJ  
 Sample : K1757-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6CD-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 |
| unknown6.50          | 6.50  | 63.0    | ng    | 2846080  | 1                     | 6.73  | 903836  | 20.0 |
| n-Hexadecanoic acid  | 11.77 | 7.4     | ng    | 578763   | 4                     | 11.24 | 1560600 | 20.0 |
| Octadecanoic acid    | 12.56 | 3.2     | ng    | 279667   | 5                     | 13.86 | 1747590 | 20.0 |
| Oxalic acid, isob... | 13.73 | 4.8     | ng    | 421431   | 5                     | 13.86 | 1747590 | 20.0 |
| Tetradecane, 2,6,... | 14.34 | 4.4     | ng    | 387168   | 5                     | 13.86 | 1747590 | 20.0 |
| Octacosane           | 14.64 | 9.7     | ng    | 692420   | 6                     | 15.26 | 1435190 | 20.0 |
| Heneicosane          | 14.96 | 11.7    | ng    | 839148   | 6                     | 15.26 | 1435190 | 20.0 |
| Hexacosane           | 15.72 | 13.2    | ng    | 947624   | 6                     | 15.26 | 1435190 | 20.0 |
| Hentriacontane       | 16.73 | 2.4     | ng    | 170143   | 6                     | 15.26 | 1435190 | 20.0 |