

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012920\  
 Data File : BF118728.D  
 Acq On : 29 Jan 2020 13:46  
 Operator : CG/JU  
 Sample : L1289-13  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-29-30-COMP

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012020.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         | 2.163       | 6             | 13          | 19           | rVB      | 779737         | 1055828       | 15.22%          | 1.859%        |
| 2         | 5.475       | 570           | 576         | 579          | rBV      | 5023991        | 5102577       | 73.57%          | 8.984%        |
| 3         | 6.475       | 740           | 746         | 758          | rVB      | 4924997        | 5410905       | 78.01%          | 9.526%        |
| 4         | 6.845       | 805           | 809         | 813          | rBV      | 1873070        | 1618966       | 23.34%          | 2.850%        |
| 5         | 7.004       | 832           | 836         | 839          | rBV      | 5102882        | 4510407       | 65.03%          | 7.941%        |
| 6         | 7.404       | 899           | 904         | 907          | rBV      | 3487166        | 3466941       | 49.99%          | 6.104%        |
| 7         | 8.128       | 1022          | 1027        | 1031         | rBV      | 2427711        | 2132714       | 30.75%          | 3.755%        |
| 8         | 9.204       | 1204          | 1210        | 1213         | rBV      | 7096021        | 6793152       | 97.94%          | 11.960%       |
| 9         | 9.592       | 1269          | 1276        | 1280         | rBV      | 882877         | 743850        | 10.72%          | 1.310%        |
| 10        | 9.880       | 1320          | 1325        | 1329         | rBV      | 2664653        | 2627601       | 37.88%          | 4.626%        |
| 11        | 10.669      | 1453          | 1459        | 1462         | rBV      | 4982016        | 4670670       | 67.34%          | 8.223%        |
| 12        | 11.363      | 1573          | 1577        | 1581         | rBV      | 2834981        | 2707921       | 39.04%          | 4.768%        |
| 13        | 11.592      | 1612          | 1616        | 1622         | rBV      | 162995         | 174078        | 2.51%           | 0.306%        |
| 14        | 11.892      | 1661          | 1667        | 1671         | rBV      | 560632         | 528310        | 7.62%           | 0.930%        |
| 15        | 12.145      | 1707          | 1710        | 1714         | rBV      | 152346         | 136354        | 1.97%           | 0.240%        |
| 16        | 12.674      | 1797          | 1800        | 1813         | rBV      | 199253         | 257060        | 3.71%           | 0.453%        |
| 17        | 12.951      | 1842          | 1847        | 1850         | rBV      | 7316649        | 6935806       | 100.00%         | 12.211%       |
| 18        | 13.845      | 1995          | 1999        | 2010         | rBV2     | 606487         | 757775        | 10.93%          | 1.334%        |
| 19        | 13.998      | 2019          | 2025        | 2029         | rBV      | 2318344        | 2255063       | 32.51%          | 3.970%        |
| 20        | 14.168      | 2050          | 2054        | 2062         | rBV      | 143739         | 150291        | 2.17%           | 0.265%        |
| 21        | 14.474      | 2102          | 2106        | 2115         | rBV      | 233444         | 231921        | 3.34%           | 0.408%        |
| 22        | 14.757      | 2150          | 2154        | 2155         | rBV2     | 174767         | 186758        | 2.69%           | 0.329%        |
| 23        | 14.780      | 2155          | 2158        | 2164         | rVV      | 280636         | 319350        | 4.60%           | 0.562%        |
| 24        | 14.857      | 2167          | 2171        | 2176         | rVB      | 421652         | 444847        | 6.41%           | 0.783%        |
| 25        | 15.115      | 2210          | 2215        | 2226         | rBV      | 303407         | 459992        | 6.63%           | 0.810%        |
| 26        | 15.456      | 2267          | 2273        | 2277         | rBV      | 1517660        | 1921508       | 27.70%          | 3.383%        |
| 27        | 15.492      | 2277          | 2279        | 2287         | rVB      | 322934         | 382461        | 5.51%           | 0.673%        |
| 28        | 15.927      | 2347          | 2353        | 2358         | rBV      | 256082         | 382829        | 5.52%           | 0.674%        |
| 29        | 15.980      | 2358          | 2362        | 2369         | rVB5     | 42756          | 82991         | 1.20%           | 0.146%        |
| 30        | 16.433      | 2432          | 2439        | 2452         | rVB2     | 132659         | 266983        | 3.85%           | 0.470%        |
| 31        | 17.021      | 2534          | 2539        | 2545         | rVB3     | 42812          | 83488         | 1.20%           | 0.147%        |

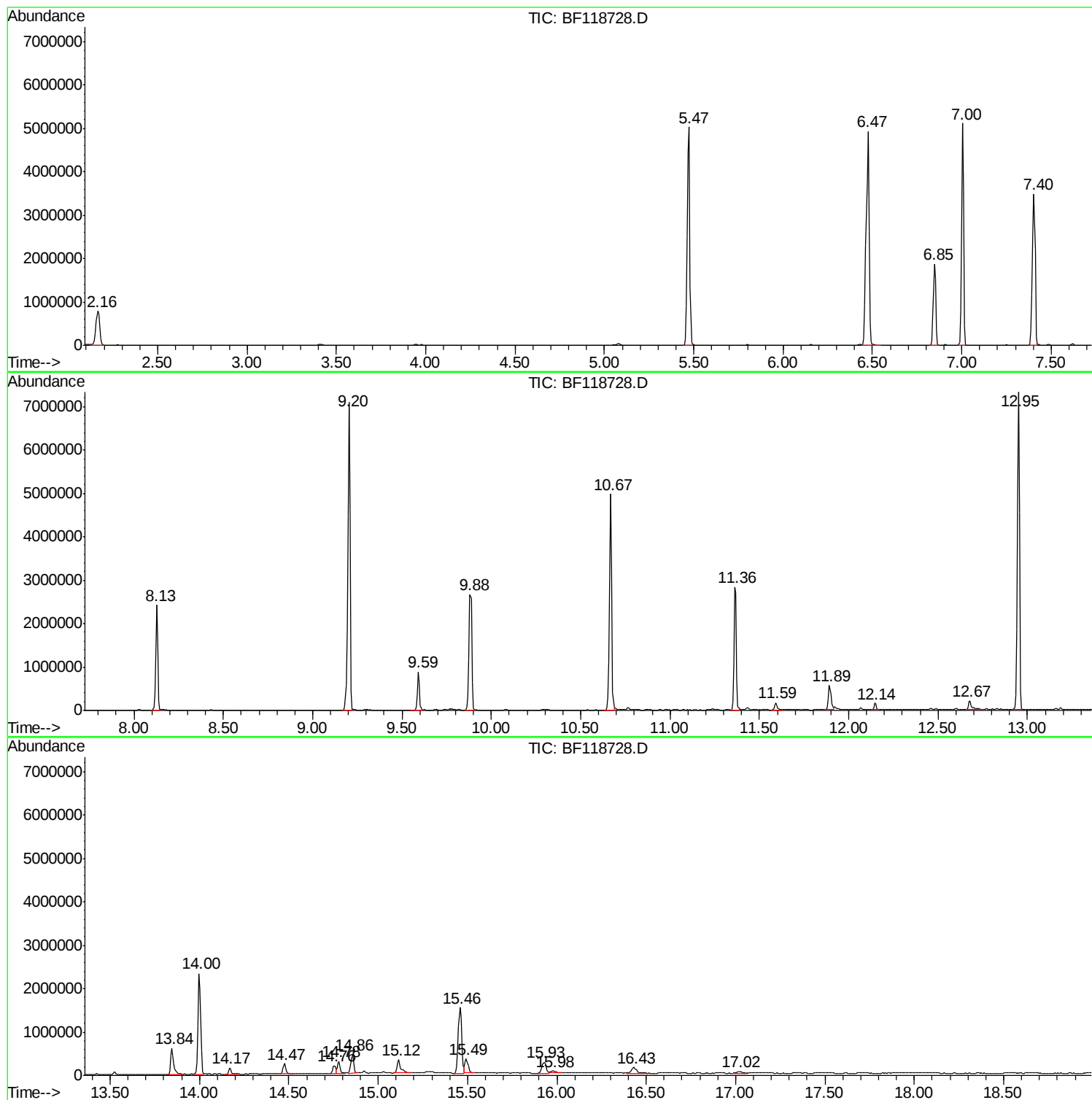
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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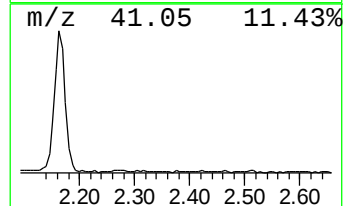
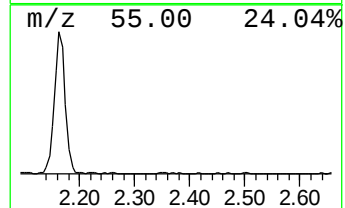
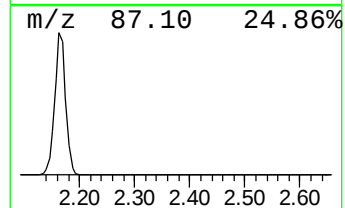
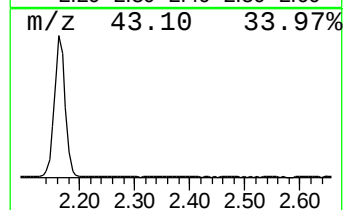
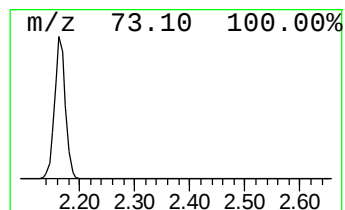
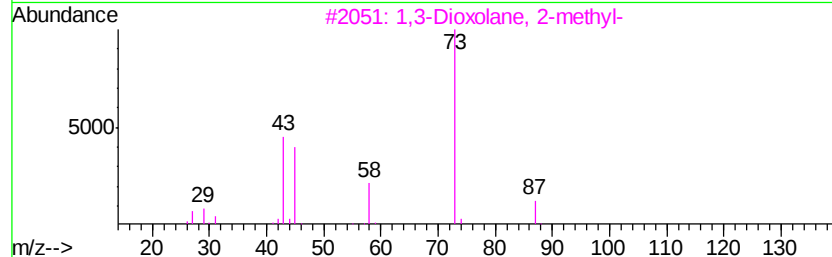
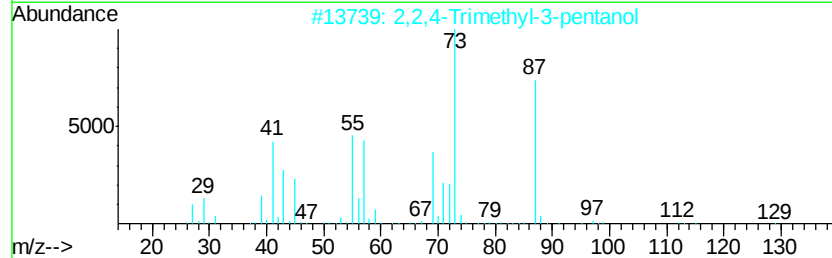
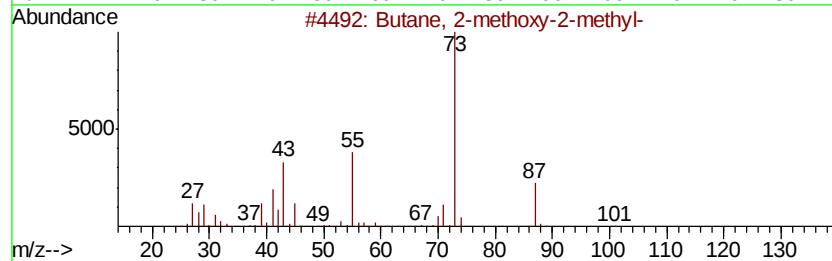
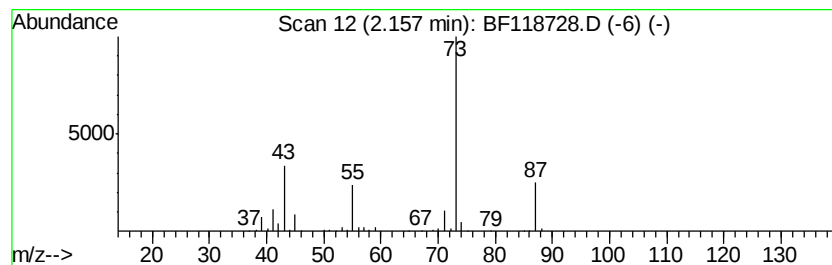
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 2.16 | 13.04 ng | 1055830 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl-         | 102 | C6H14O  | 000994-05-8  | 83   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol          | 130 | C8H18O  | 005162-48-1  | 39   |
| 3    |    | 1,3-Dioxolane, 2-methyl-            | 88  | C4H8O2  | 000497-26-7  | 37   |
| 4    |    | 1-(2-Methoxyethoxy)-2-methyl-2-p... | 162 | C8H18O3 | 1000364-24-4 | 25   |
| 5    |    | Pentane, 3-methoxy-                 | 102 | C6H14O  | 036839-67-5  | 23   |



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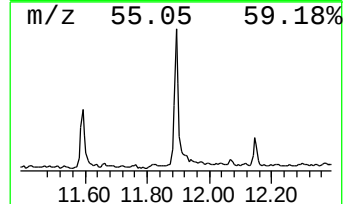
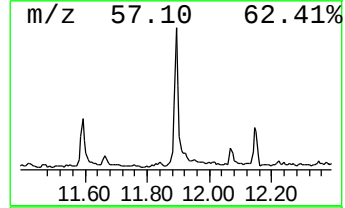
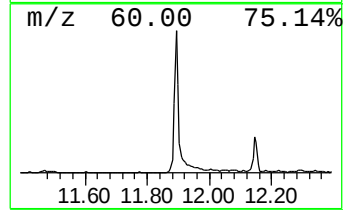
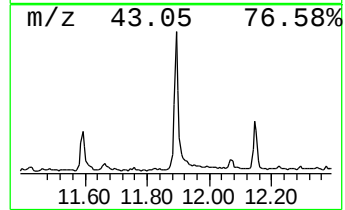
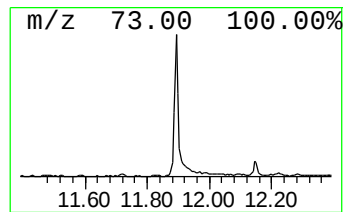
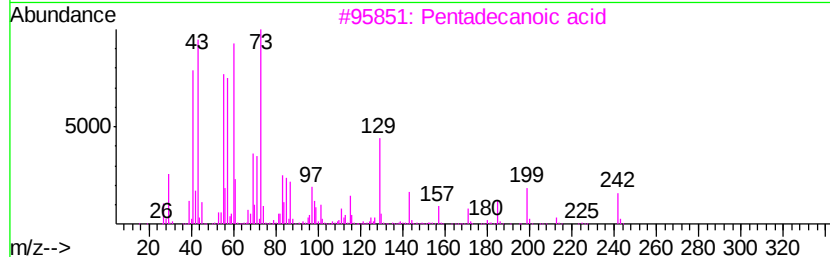
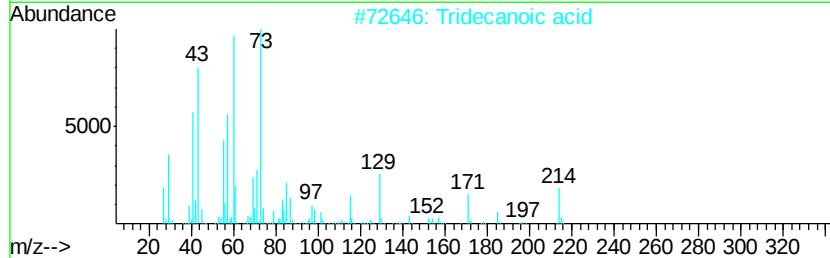
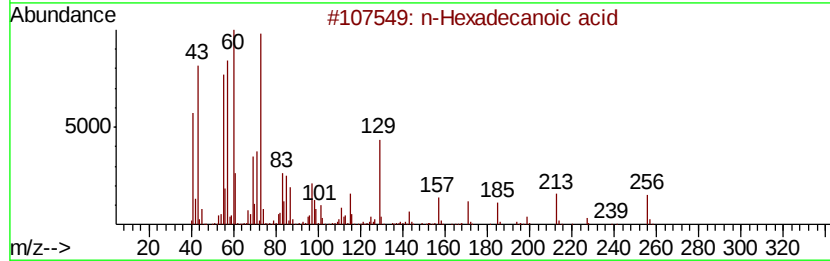
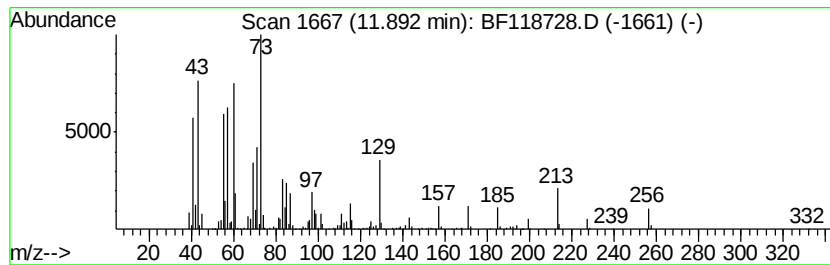
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.89 | 3.90 ng | 528310 | Phenanthrene-d10 | 11.36 |

| 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 | 76   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 76   |
| 4       |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 76   |
| 5       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 72   |



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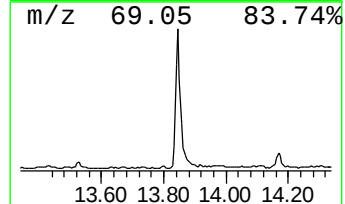
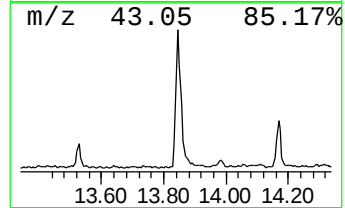
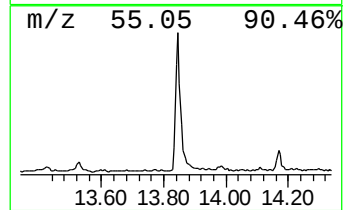
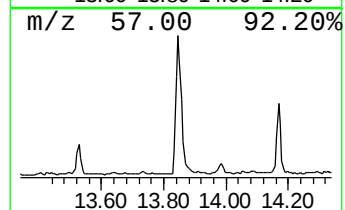
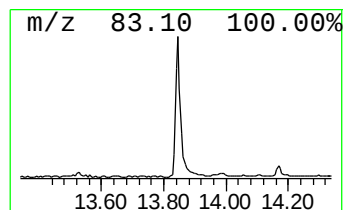
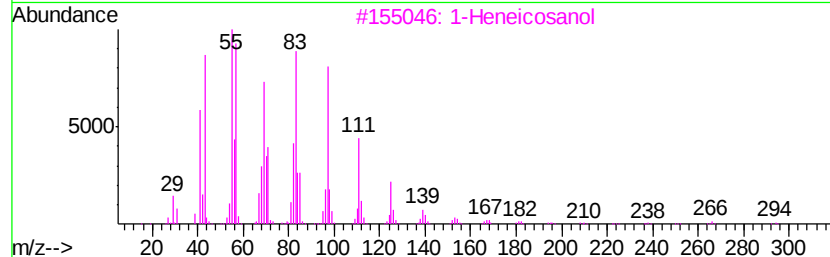
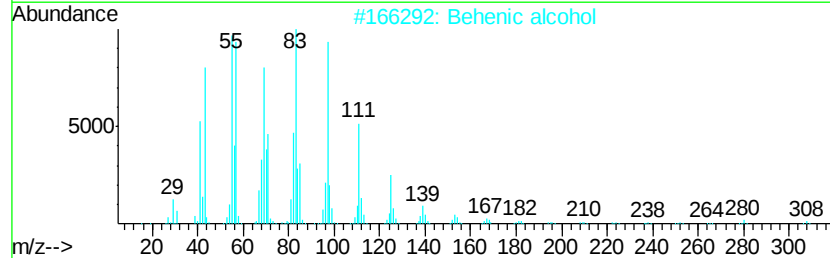
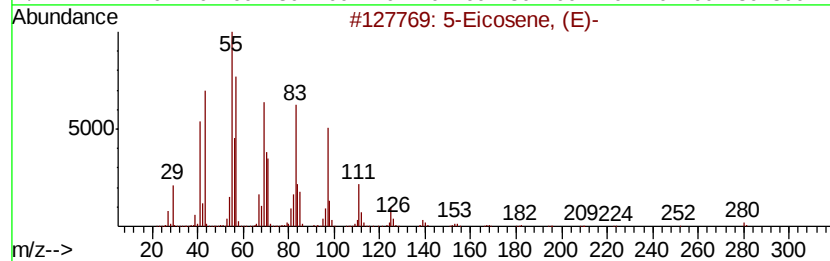
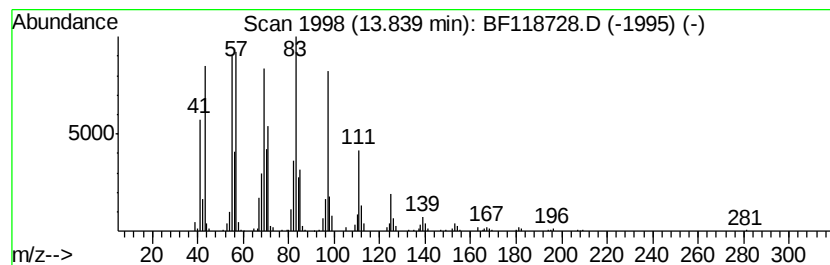
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 5-Eicosene, (E)- Concentration Rank 3

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.84     | 6.72 ng                             | 757775 | Chrysene-d12     | 14.00       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 5-Eicosene, (E)-                    | 280    | C20H40           | 074685-30-6 | 98   |
| 2         | Behenic alcohol                     | 326    | C22H46O          | 000661-19-8 | 95   |
| 3         | 1-Heneicosanol                      | 312    | C21H44O          | 015594-90-8 | 95   |
| 4         | n-Nonadecanol-1                     | 284    | C19H40O          | 001454-84-8 | 95   |
| 5         | Pentafluoropropionic acid, penta... | 374    | C18H31F5O2       | 959092-08-1 | 94   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
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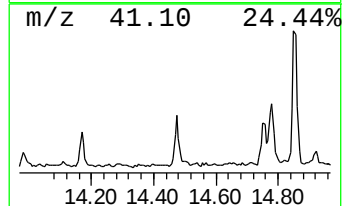
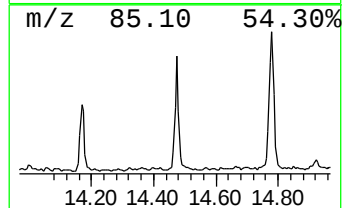
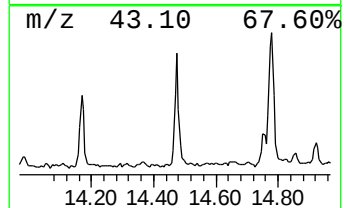
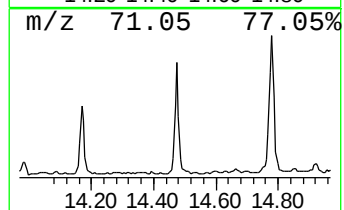
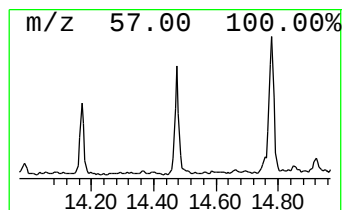
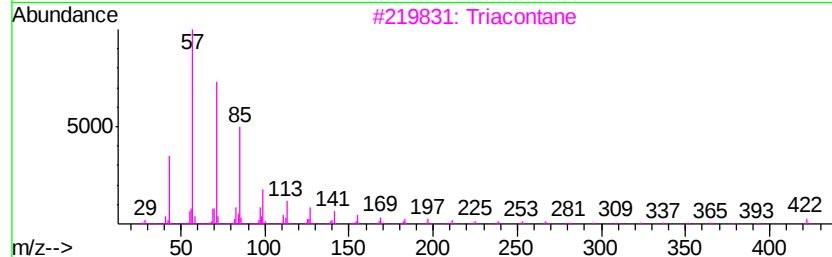
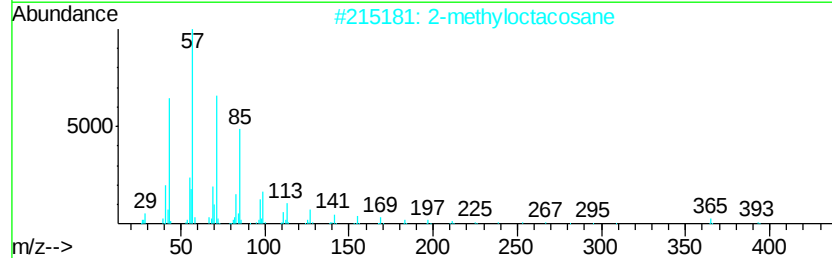
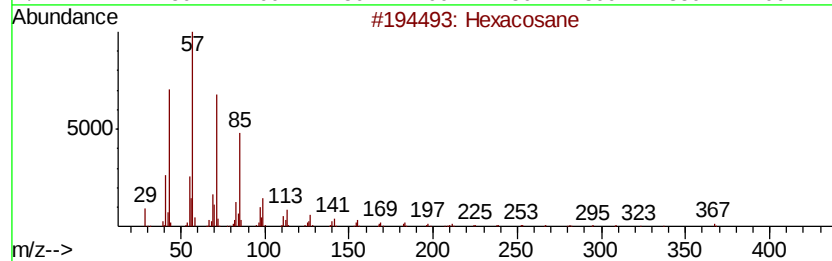
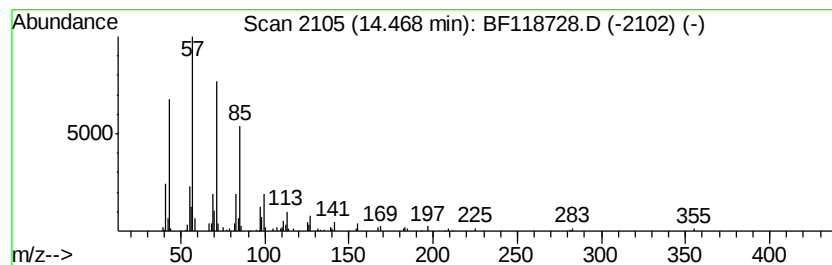
TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 5 Hexacosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.47 | 2.06 ng | 231921 | Chrysene-d12     | 14.00 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|--------------------|--------------|-----|---------|--------------|------|
| 1       | Hexacosane         |              | 366 | C26H54  | 000630-01-3  | 91   |
| 2       | 2-methyloctacosane |              | 408 | C29H60  | 1000376-72-8 | 91   |
| 3       | Triacontane        |              | 422 | C30H62  | 000638-68-6  | 91   |
| 4       | Heneicosane        |              | 296 | C21H44  | 000629-94-7  | 91   |
| 5       | Tetracosane        |              | 338 | C24H50  | 000646-31-1  | 91   |



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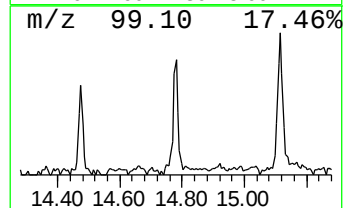
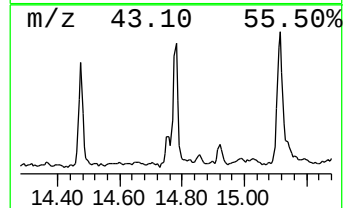
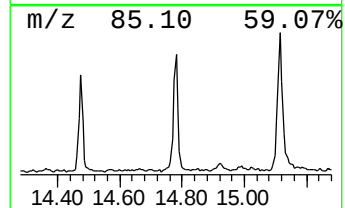
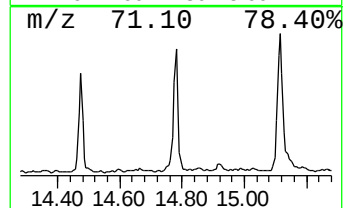
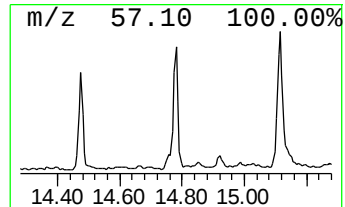
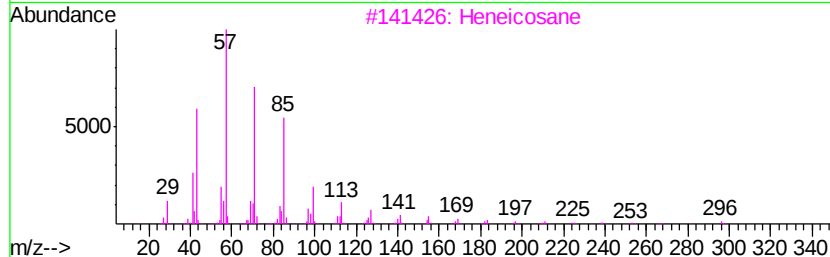
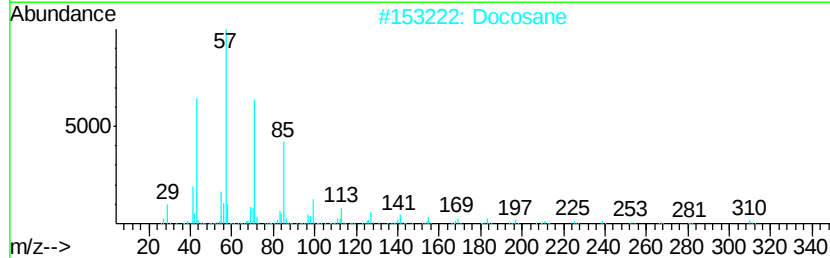
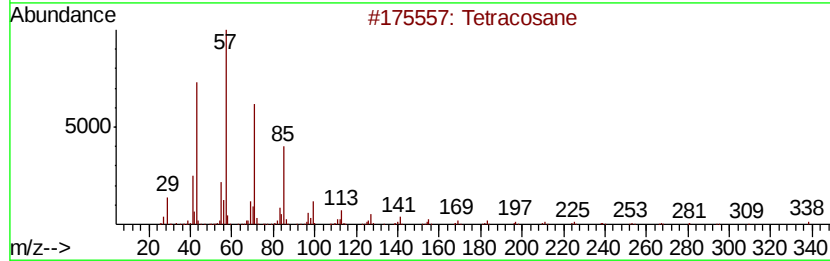
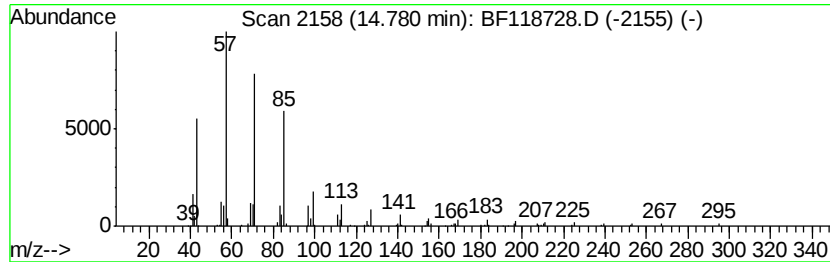
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Tetracosane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.78 | 3.32 ng | 319350 | Perylene-d12     | 15.46 |

| Hit# of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------------|-----|---------|-------------|------|
| 1       |   | Tetracosane                      | 338 | C24H50  | 000646-31-1 | 91   |
| 2       |   | Docosane                         | 310 | C22H46  | 000629-97-0 | 90   |
| 3       |   | Heneicosane                      | 296 | C21H44  | 000629-94-7 | 90   |
| 4       |   | Triacontane                      | 422 | C30H62  | 000638-68-6 | 90   |
| 5       |   | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012920\  
 Data File : BF118728.D  
 Acq On : 29 Jan 2020 13:46  
 Operator : CG/JU  
 Sample : L1289-13  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-29-30-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

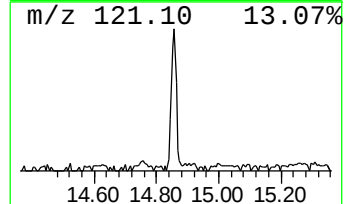
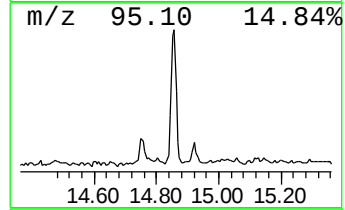
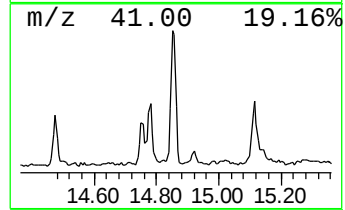
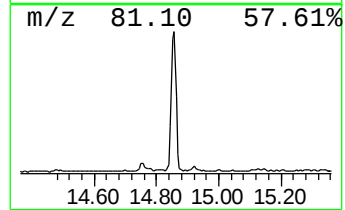
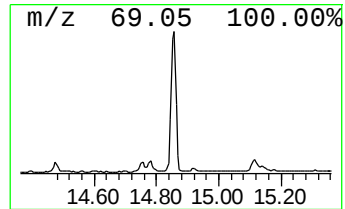
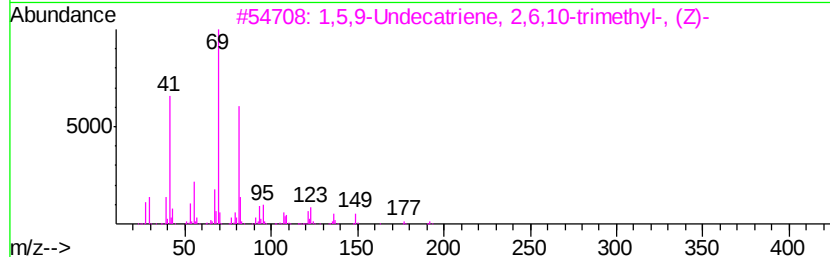
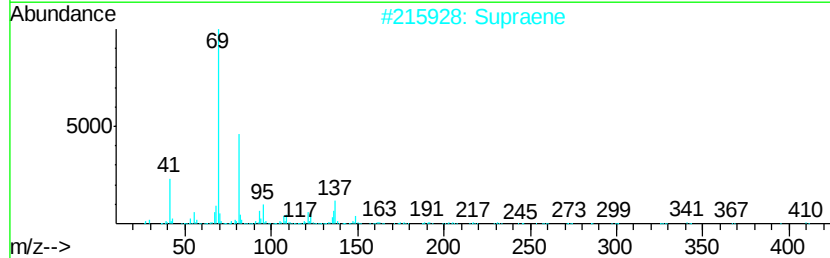
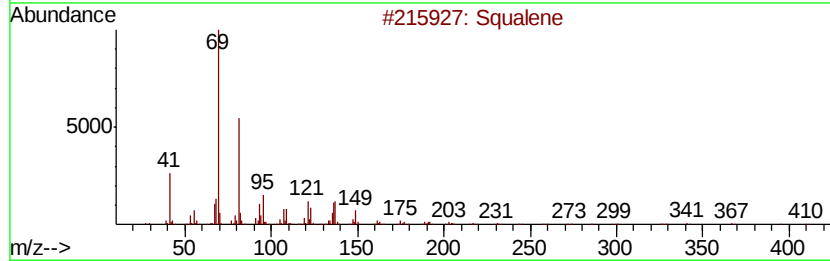
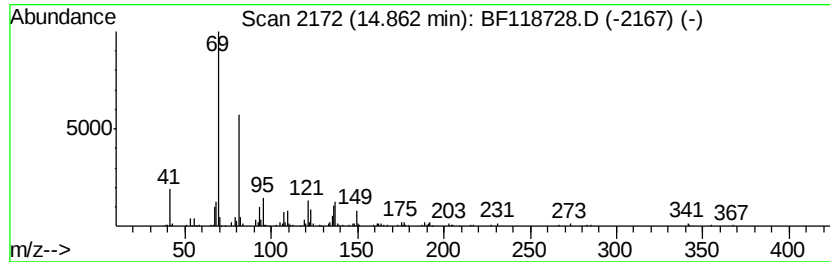
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 7 Squalene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.86 | 4.63 ng | 444847 | Perylene-d12     | 15.46 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Squalene                            | 410 | C30H50   | 000111-02-4 | 99   |
| 2    |    | Supraene                            | 410 | C30H50   | 007683-64-9 | 96   |
| 3    |    | 1,5,9-Undecatriene, 2,6,10-trime... | 192 | C14H24   | 062951-96-6 | 87   |
| 4    |    | 1,5,9-Decatriene, 2,3,5,8-tetram... | 192 | C14H24   | 230646-72-7 | 72   |
| 5    |    | 2,3,5-Trimethyl-2,3,5-hexanetric... | 203 | C12H17N3 | 003974-79-6 | 47   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012920\  
Data File : BF118728.D  
Acq On : 29 Jan 2020 13:46  
Operator : CG/JU  
Sample : L1289-13  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

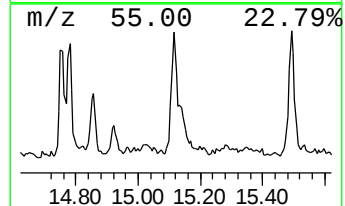
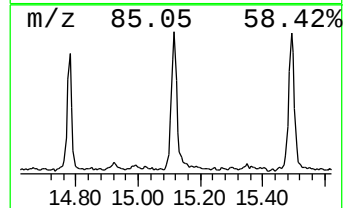
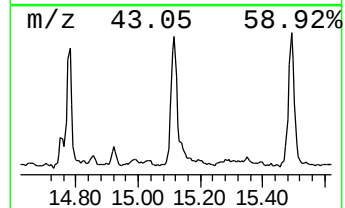
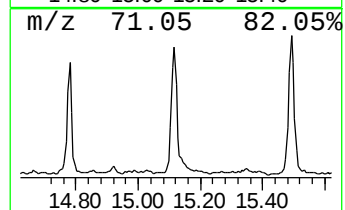
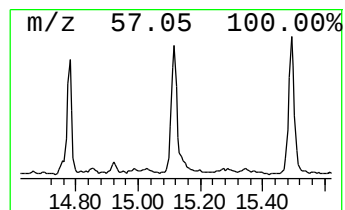
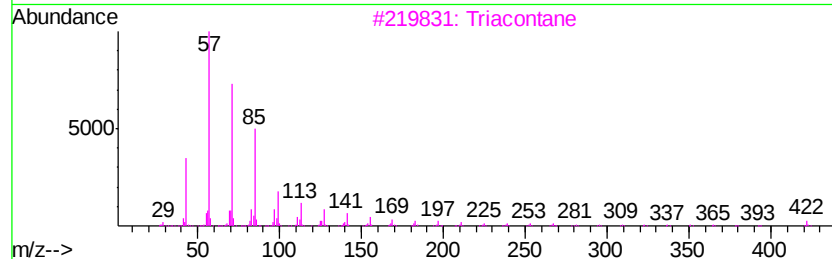
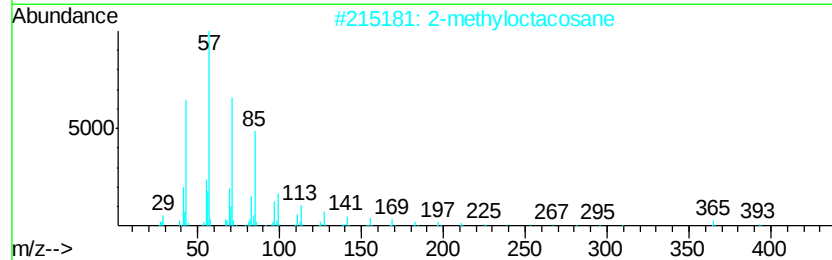
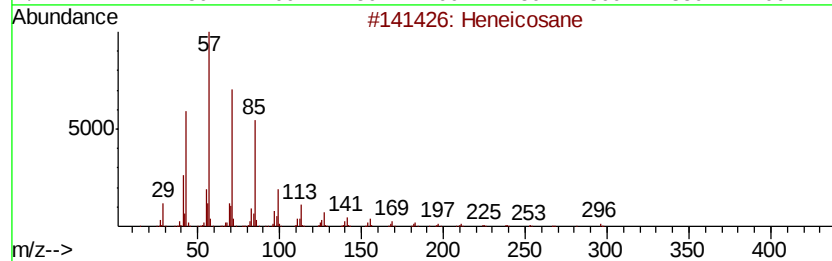
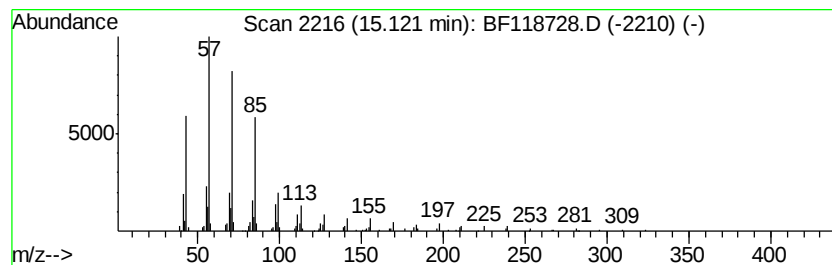
Instrument :  
BNA\_F  
ClientSampleId :  
TP-29-30-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.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.            |
|---------|-----------------------|--------------|------------------|-----------------|
| 15.12   | 4.79 ng               | 459992       | Perylene-d12     | 15.46           |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual       |
| 1       | Heneicosane           | 296          | C21H44           | 000629-94-7 91  |
| 2       | 2-methyloctacosane    | 408          | C29H60           | 1000376-72-8 91 |
| 3       | Triacontane           | 422          | C30H62           | 000638-68-6 91  |
| 4       | Octacosane            | 394          | C28H58           | 000630-02-4 91  |
| 5       | Heptadecane, 9-octyl- | 352          | C25H52           | 007225-64-1 91  |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012920\  
Data File : BF118728.D  
Acq On : 29 Jan 2020 13:46  
Operator : CG/JU  
Sample : L1289-13  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

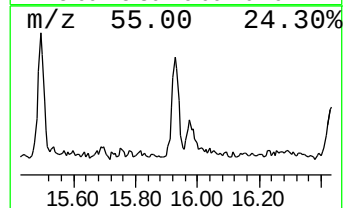
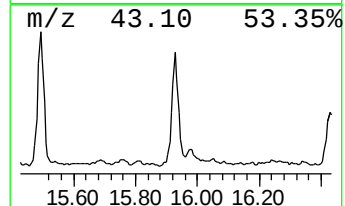
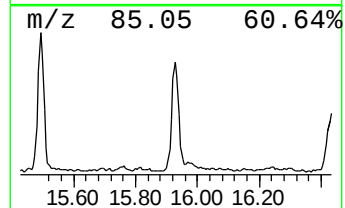
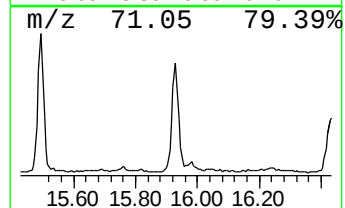
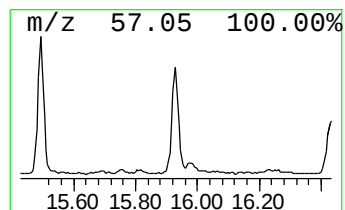
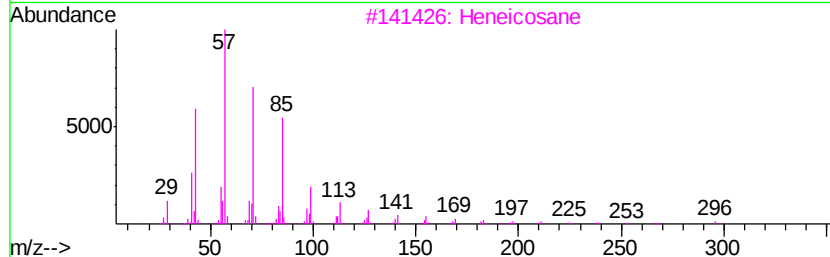
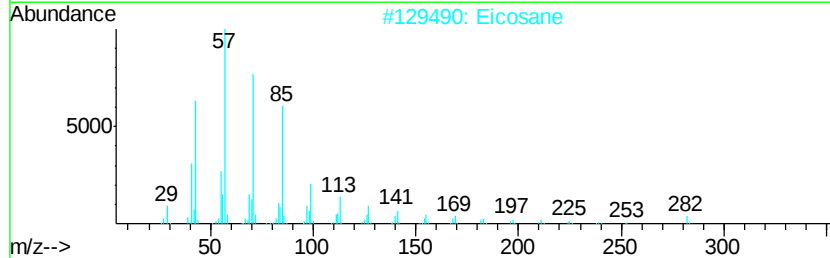
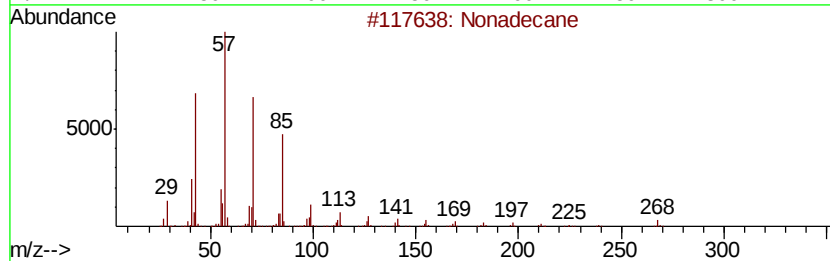
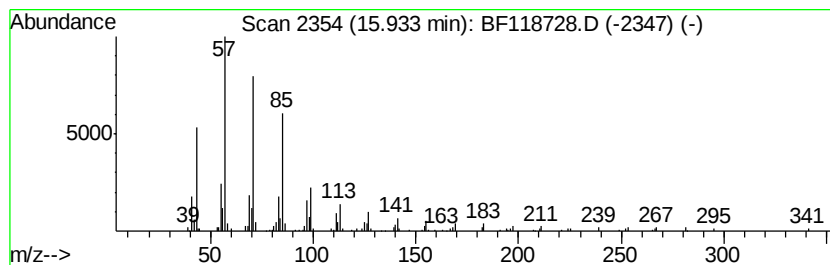
Instrument :  
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ClientSampleId :  
TP-29-30-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.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 Nonadecane Concentration Rank 6

| R.T.    | EstConc            | Area         | Relative to ISTD | R.T.      |
|---------|--------------------|--------------|------------------|-----------|
| 15.93   | 3.98 ng            | 382829       | Perylene-d12     | 15.46     |
| Hit# of | 5                  | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Nonadecane         | 268 C19H40   | 000629-92-5      | 93        |
| 2       | Eicosane           | 282 C20H42   | 000112-95-8      | 93        |
| 3       | Heneicosane        | 296 C21H44   | 000629-94-7      | 91        |
| 4       | 2-methyloctacosane | 408 C29H60   | 1000376-72-8     | 91        |
| 5       | Hexacosane         | 366 C26H54   | 000630-01-3      | 91        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012920\  
Data File : BF118728.D  
Acq On : 29 Jan 2020 13:46  
Operator : CG/JU  
Sample : L1289-13  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

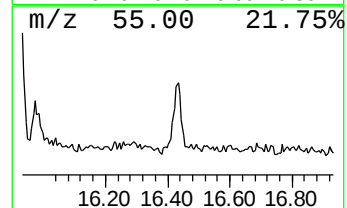
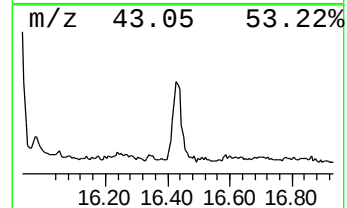
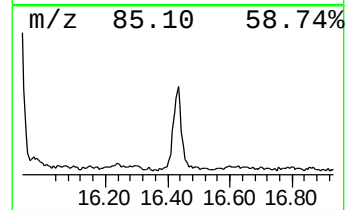
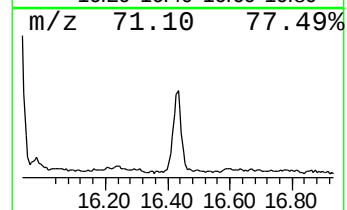
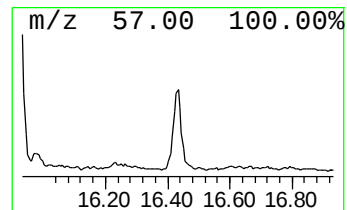
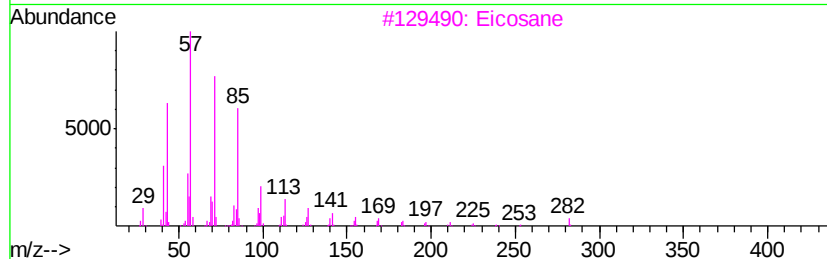
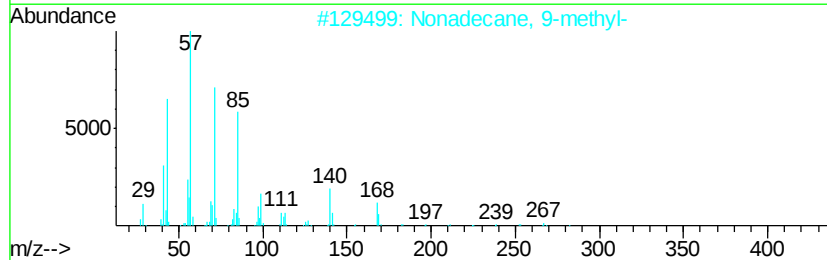
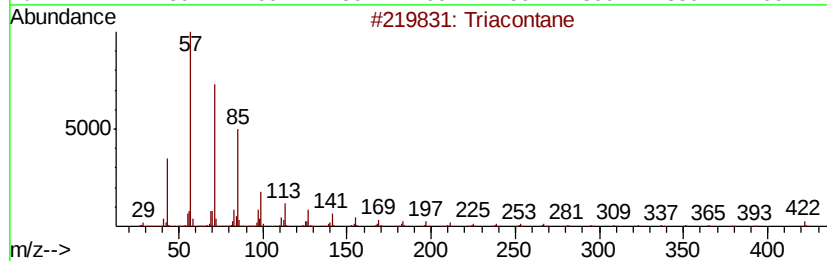
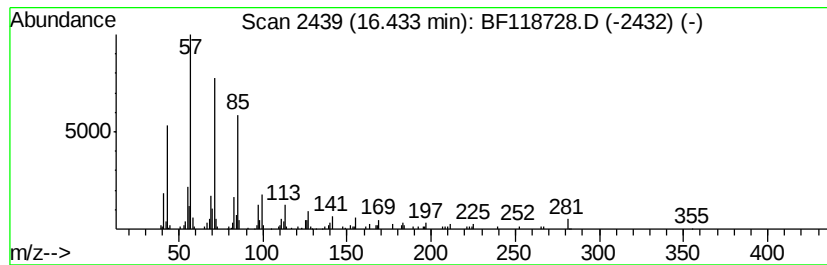
Instrument :  
BNA\_F  
ClientSampleId :  
TP-29-30-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.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 10 Triacontane Concentration Rank 9

| R.T.    | EstConc | Area                  | Relative to ISTD | R.T.           |
|---------|---------|-----------------------|------------------|----------------|
| 16.43   | 2.78 ng | 266983                | Perylene-d12     | 15.46          |
| Hit# of | 5       | Tentative ID          | MW MolForm       | CAS# Qual      |
| 1       |         | Triacontane           | 422 C30H62       | 000638-68-6 91 |
| 2       |         | Nonadecane, 9-methyl- | 282 C20H42       | 013287-24-6 91 |
| 3       |         | Eicosane              | 282 C20H42       | 000112-95-8 91 |
| 4       |         | Hexacosane            | 366 C26H54       | 000630-01-3 91 |
| 5       |         | Heneicosane           | 296 C21H44       | 000629-94-7 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012920\  
Data File : BF118728.D  
Acq On : 29 Jan 2020 13:46  
Operator : CG/JU  
Sample : L1289-13  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-29-30-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012020.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... | 2.16  | 13.0    | ng    | 1055830  | 1                     | 6.85  | 1618970 | 20.0 |
| n-Hexadecanoic acid  | 11.89 | 3.9     | ng    | 528310   | 4                     | 11.36 | 2707920 | 20.0 |
| 5-Eicosene, (E)-     | 13.84 | 6.7     | ng    | 757775   | 5                     | 14.00 | 2255060 | 20.0 |
| Hexacosane           | 14.47 | 2.1     | ng    | 231921   | 5                     | 14.00 | 2255060 | 20.0 |
| Tetracosane          | 14.78 | 3.3     | ng    | 319350   | 6                     | 15.46 | 1921510 | 20.0 |
| Squalene             | 14.86 | 4.6     | ng    | 444847   | 6                     | 15.46 | 1921510 | 20.0 |
| Heneicosane          | 15.12 | 4.8     | ng    | 459992   | 6                     | 15.46 | 1921510 | 20.0 |
| Nonadecane           | 15.93 | 4.0     | ng    | 382829   | 6                     | 15.46 | 1921510 | 20.0 |
| Triacontane          | 16.43 | 2.8     | ng    | 266983   | 6                     | 15.46 | 1921510 | 20.0 |