LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

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-BF080818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.360 | 3 | 4 | 15 | rVB | 779128 | 759120 | 21.97% | 2.264% |
| 2 | 5.248 | 491 | 495 | 508 | rVB | 112118 | 141448 | 4.09% | 0.422% |
| 3 | 5.631 | 555 | 560 | 563 | rBV | 2680658 | 2739030 | 79.26% | 8.169% |
| 4 | 6.625 | 723 | 729 | 743 | rVB | 2687300 | 3034031 | 87.80% | 9.049% |
| 5 | 6.772 | 749 | 754 | 757 | rBV | 2965000 | 2925353 | 84.65% | 8.725% |
| 6 | 6.995 | 787 | 792 | 796 | rBV | 898210 | 804283 | 23.27% | 2.399% |
| 7 | 7.154 | 815 | 819 | 823 | rBV | 2474929 | 2206791 | 63.86% | 6.582% |
| 8 | 7.560 | 883 | 888 | 891 | rBV | 1966285 | 1953084 | 56.52% | 5.825% |
| 9 | 8.283 | 1006 | 1011 | 1014 | rBV | 1033758 | 966339 | 27.96% | 2.882% |
| 10 | 9.354 | 1187 | 1193 | 1196 | rBV | 3849680 | 3455679 | 100.00% | 10.307% |
| 11 | 9.454 | 1207 | 1210 | 1215 | rVB | 52355 | 51069 | 1.48% | 0.152% |
| 12 | 9.748 | 1255 | 1260 | 1263 | rBV | 1162872 | 967007 | 27.98% | 2.884% |
| 13 | 10.042 | 1306 | 1310 | 1314 | rBV | 1289175 | 1107812 | 32.06% | 3.304% |
| 14 | 10.177 | 1329 | 1333 | 1337 | rBV | 43553 | 40580 | 1.17% | 0.121% |
| 15 | 10.836 | 1440 | 1445 | 1454 | rBV | 2527117 | 2261178 | 65.43% | 6.744% |
| 16 | 11.536 | 1560 | 1564 | 1567 | rBV | 1314637 | 1135183 | 32.85% | 3.386% |
| 17 | 11.801 | 1600 | 1609 | 1618 | rBV3 | 59843 | 148729 | 4.30% | 0.444% |
| 18 | 11.960 | 1630 | 1636 | 1640 | rBV3 | 27291 | 44016 | 1.27% | 0.131% |
| 19 | 12.042 | 1646 | 1650 | 1653 | rBV | 249374 | 206280 | 5.97% | 0.615% |
| 20 | 12.601 | 1739 | 1745 | 1757 | rBV | 269679 | 802624 | 23.23% | 2.394% |
| 21 | 12.754 | 1767 | 1771 | 1774 | rBV | 53999 | 55644 | 1.61% | 0.166% |
| 22 | 12.918 | 1796 | 1799 | 1804 | rBV3 | 54057 | 58920 | 1.71% | 0.176% |
| 23 | 12.971 | 1805 | 1808 | 1810 | rVV | 82298 | 75030 | 2.17% | 0.224% |
| 24 | 12.995 | 1810 | 1812 | 1815 | rVB2 | 85095 | 76289 | 2.21% | 0.228% |
| 25 | 13.124 | 1829 | 1834 | 1837 | rBV | 3468800 | 3108675 | 89.96% | 9.272% |
| 26 | 13.330 | 1865 | 1869 | 1871 | rBV | 119586 | 97446 | 2.82% | 0.291% |
| 27 | 13.371 | 1871 | 1876 | 1887 | rVV5 | 61138 | 161615 | 4.68% | 0.482% |
| 28 | 13.554 | 1903 | 1907 | 1909 | rBV | 292300 | 251955 | 7.29% | 0.751% |
| 29 | 13.583 | 1909 | 1912 | 1916 | rVB3 | 44073 | 66019 | 1.91% | 0.197% |
| 30 | 13.671 | 1923 | 1927 | 1930 | rBV2 | 176565 | 161966 | 4.69% | 0.483% |
| 31 | 14.001 | 1980 | 1983 | 1986 | rBV | 212263 | 167761 | 4.85% | 0.500% |
| 32 | 14.071 | 1988 | 1995 | 1999 | rBV6 | 39651 | 96199 | 2.78% | 0.287% |
| 33 | 14.136 | 2004 | 2006 | 2011 | rVB | 117255 | 106098 | 3.07% | 0.316% |
| 34 | 14.189 | 2011 | 2015 | 2019 | rBV | 856552 | 778641 | 22.53% | 2.322% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

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-BF080818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.318 | 2033 | 2037 | 2041 | rBV | 208933 | 185800 | 5.38% | 0.554% |
| 36 | 14.624 | 2085 | 2089 | 2093 | rVB | 221193 | 197654 | 5.72% | 0.590% |
| 37 | 14.948 | 2139 | 2144 | 2153 | rVB2 | 223931 | 276172 | 7.99% | 0.824% |
| 38 | 15.030 | 2154 | 2158 | 2163 | rVB | 412579 | 442436 | 12.80% | 1.320% |
| 39 | 15.307 | 2201 | 2205 | 2210 | rVB | 162839 | 196566 | 5.69% | 0.586% |
| 40 | 15.742 | 2270 | 2279 | 2291 | rVB2 | 537194 | 893483 | 25.86% | 2.665% |
| 41 | 16.189 | 2350 | 2355 | 2363 | rVB | 101846 | 165348 | 4.78% | 0.493% |
| 42 | 16.742 | 2443 | 2449 | 2454 | rBV2 | 59183 | 111267 | 3.22% | 0.332% |
| 43 | 17.383 | 2555 | 2558 | 2565 | rVB3 | 23842 | 47234 | 1.37% | 0.141% |

Sum of corrected areas: 33527854

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
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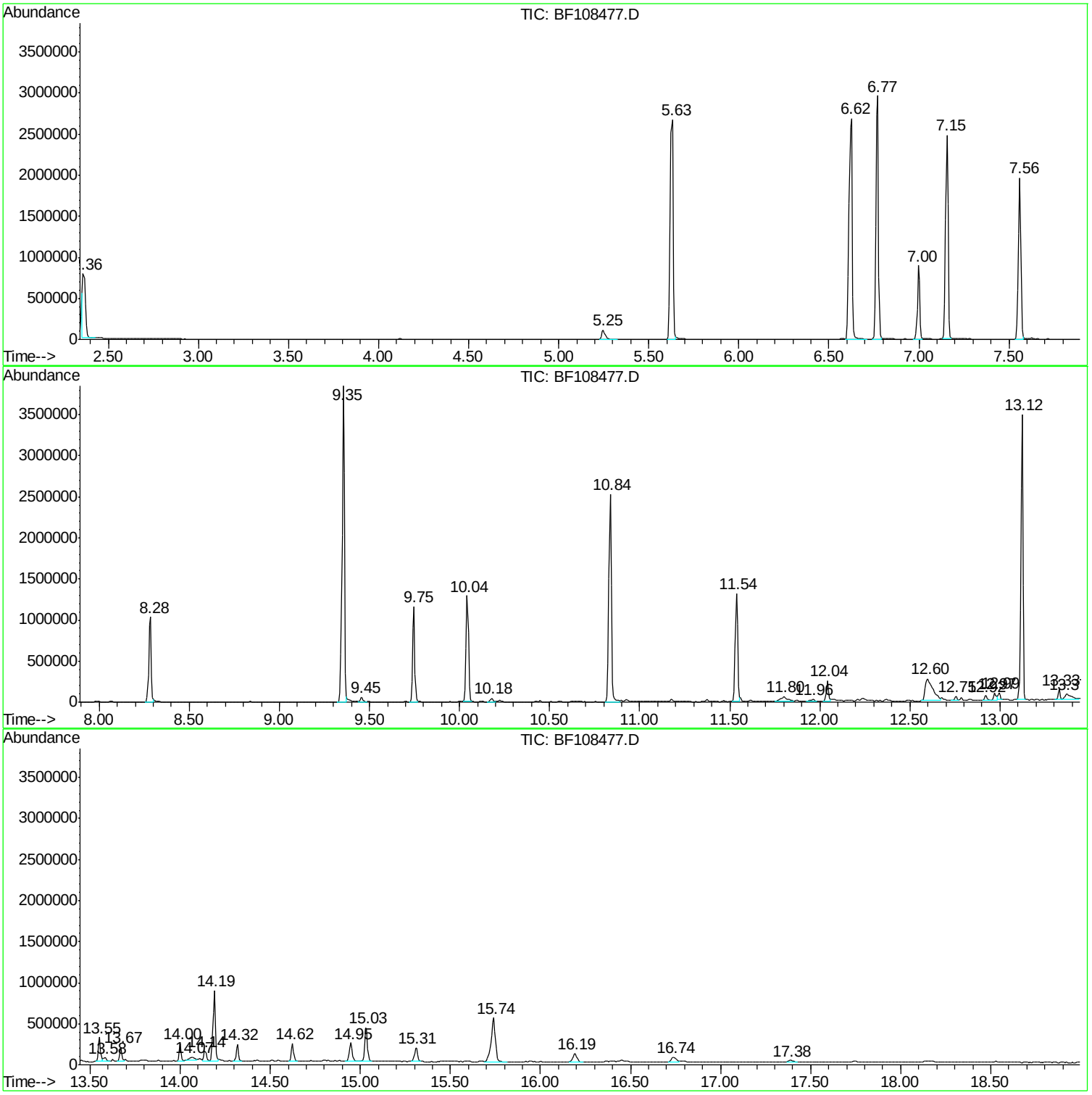
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

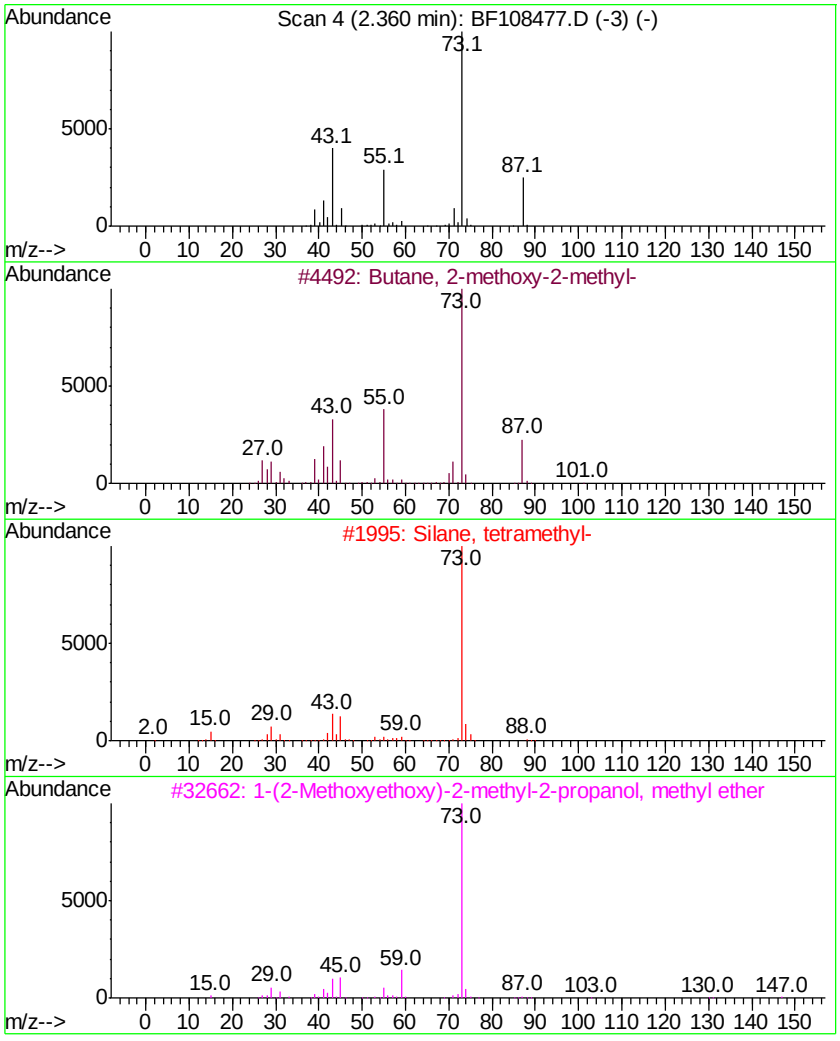
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

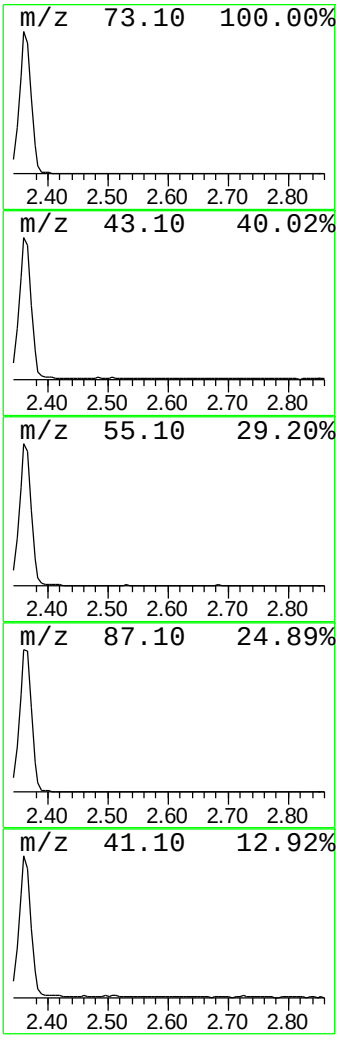
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.36 | 18.88 ng | 759120 | 1,4-Dichlorobenzene-d4 | 7.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 72 |
| 2 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 35 |
| 3 | 1-(2-Methoxyethoxy)-2-methyl-2-p... | 162 | C8H18O3 | 1000364-24-4 | 23 |
| 4 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 5 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

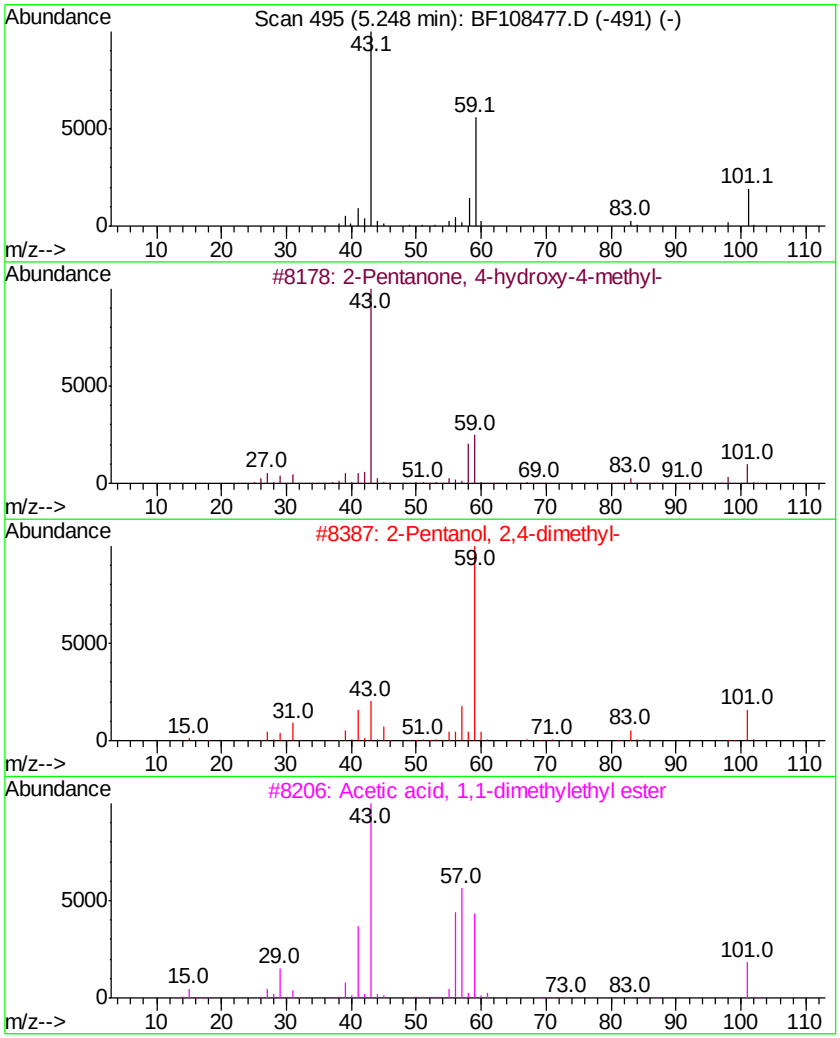
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

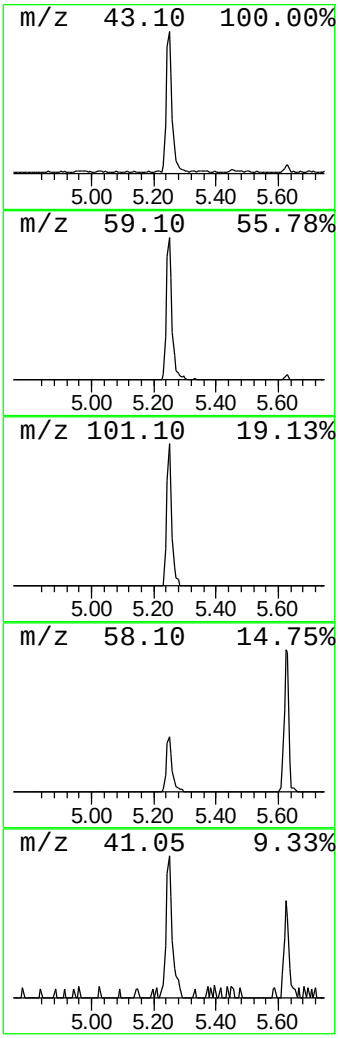
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.25 | 3.52 ng | 141448 | 1,4-Dichlorobenzene-d4 | 7.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | 2-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000625-06-9 | 42 |
| 3 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 4 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 28 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 25 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

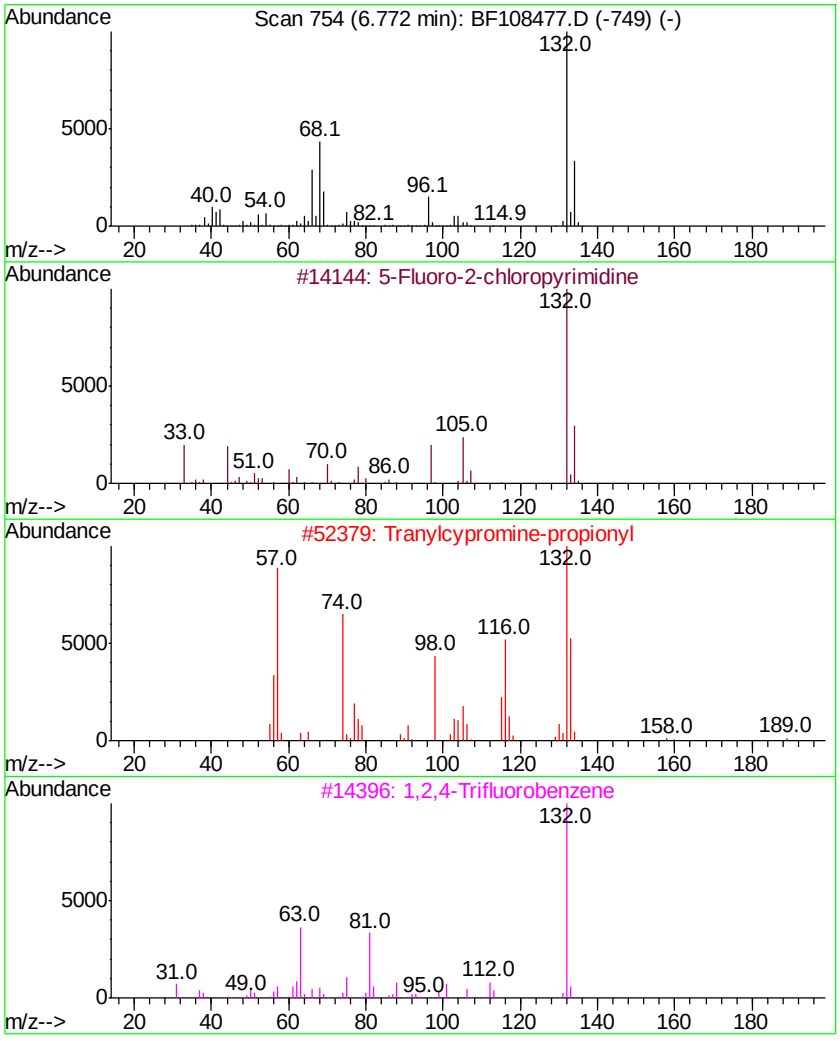
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

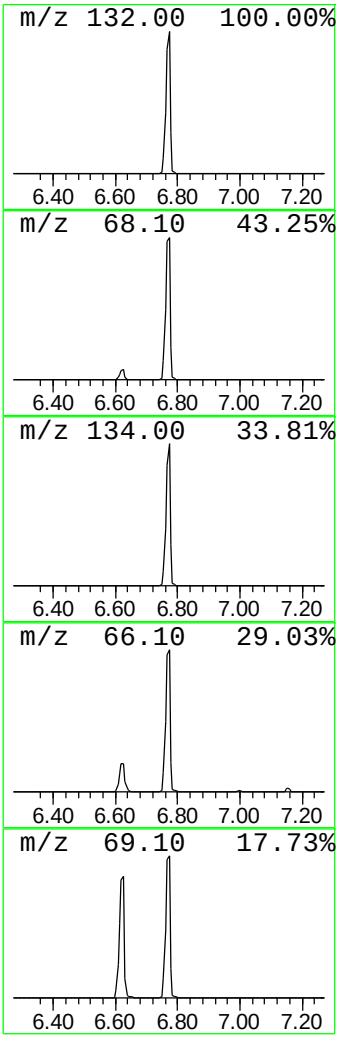
**********

Peak Number 3 unknown6.77 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.77 | 72.74 ng | 2925350 | 1,4-Dichlorobenzene-d4 | 7.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | 1,2,4-Trifluorobenzene | 132 | C6H3F3 | 000367-23-7 | 9 |
| 4 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
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Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

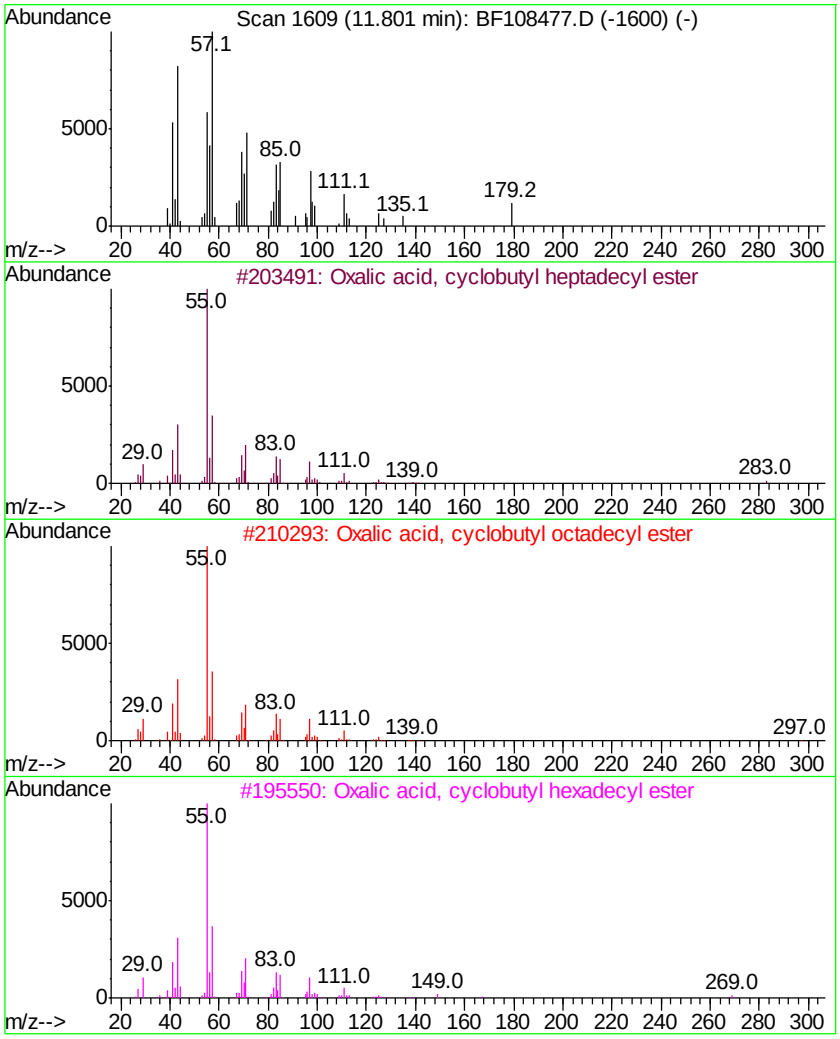
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

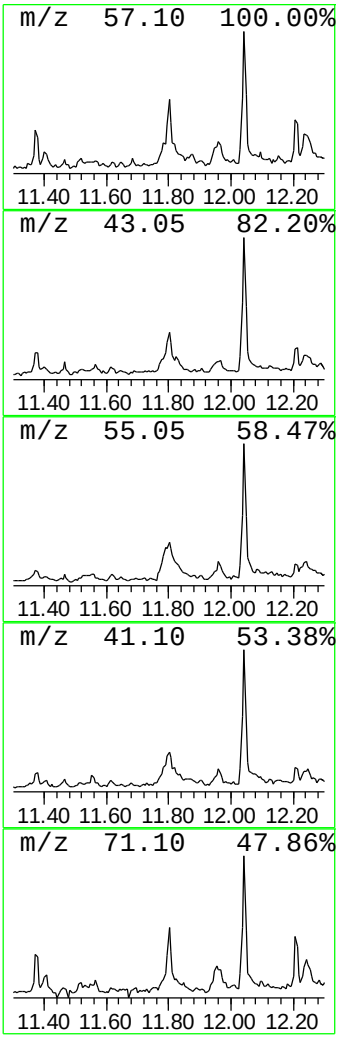
**********

Peak Number 5 Oxalic acid, cyclobutyl hep... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.80 | 2.62 ng | 148729 | Phenanthrene-d10 | 11.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxalic acid, cyclobutyl heptadec... | 382 | C23H42O4 | 1000309-70-7 | 86 |
| 2 | Oxalic acid, cyclobutyl octadecy... | 396 | C24H44O4 | 1000309-70-8 | 86 |
| 3 | Oxalic acid, cyclobutyl hexadecy... | 368 | C22H40O4 | 1000309-70-6 | 86 |
| 4 | 1-Octanol, 2-butyl- | 186 | C12H26O | 003913-02-8 | 86 |
| 5 | 1-Dodecanol, 2-methyl-, (S)- | 200 | C13H28O | 057289-26-6 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

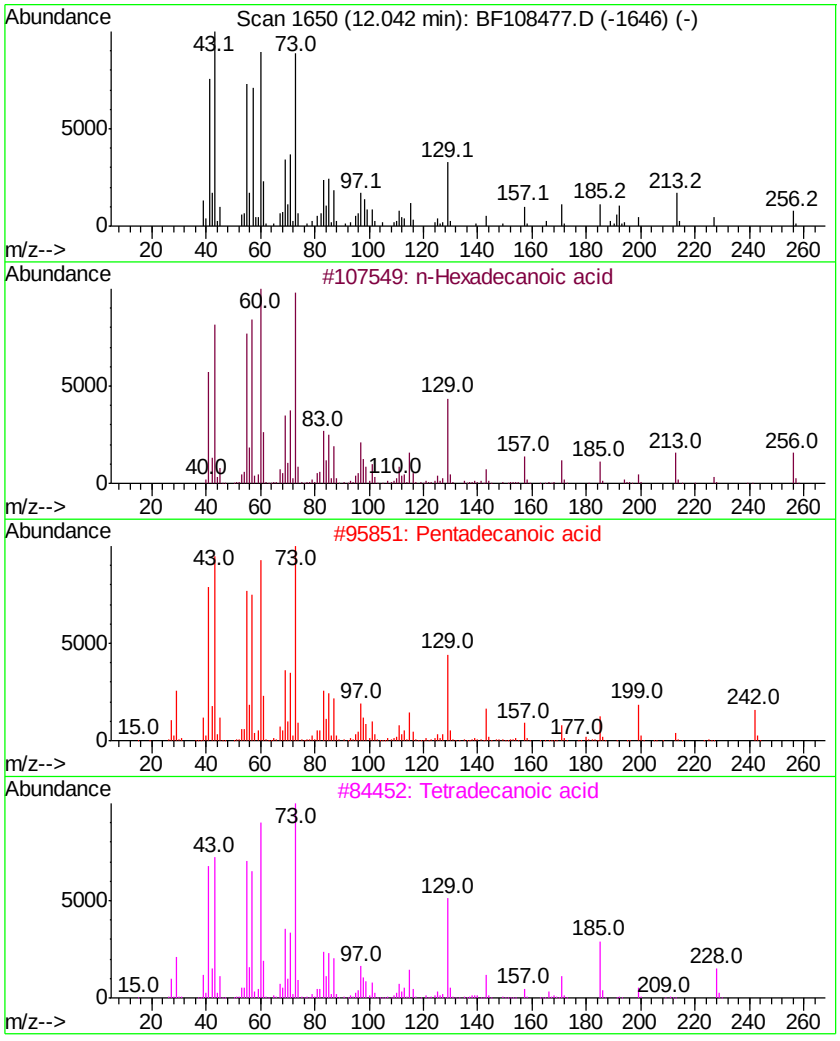
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

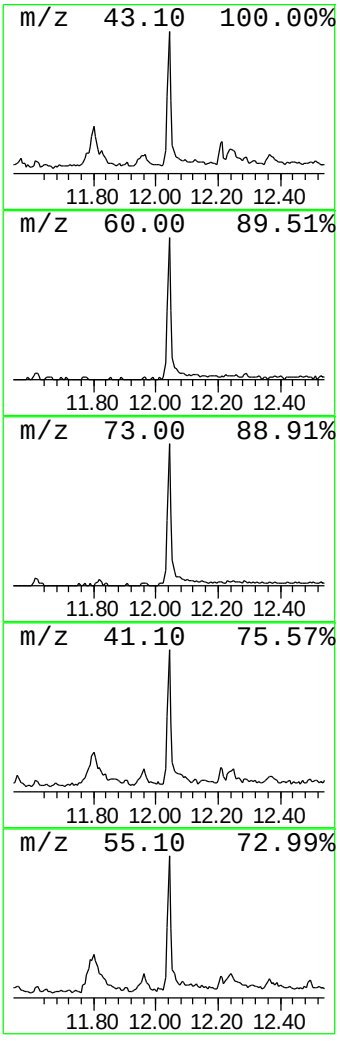
**********

Peak Number 6 n-Hexadecanoic acid Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.04 | 3.63 ng | 206280 | Phenanthrene-d10 | 11.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 72 |
| 5 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

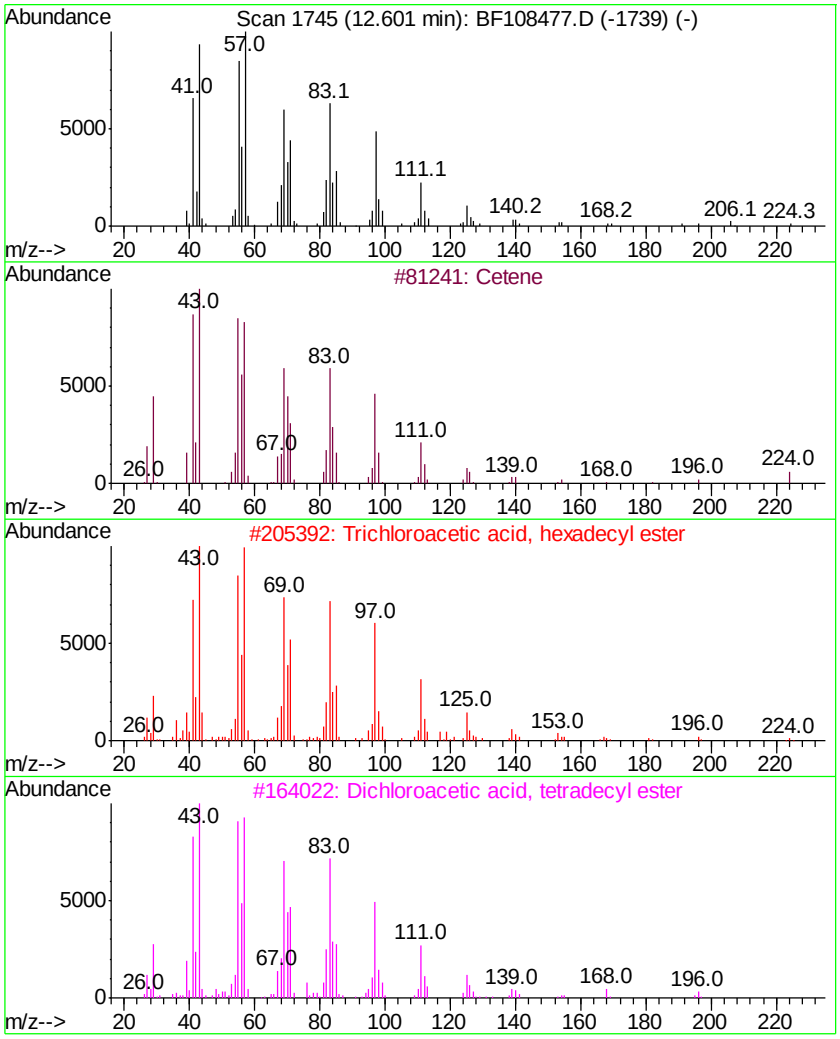
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

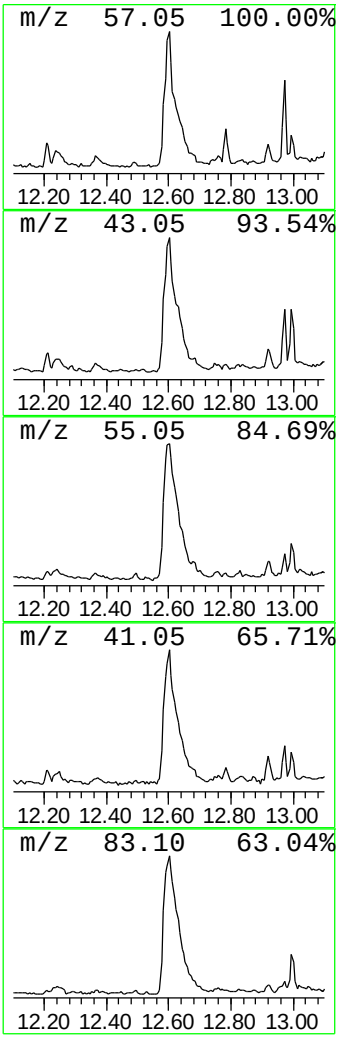
**********

Peak Number 7 Cetene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.60 | 14.14 ng | 802624 | Phenanthrene-d10 | 11.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cetene | 224 | C16H32 | 000629-73-2 | 96 |
| 2 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 94 |
| 3 | Dichloroacetic acid, tetradecyl ... | 324 | C16H30Cl2O2 | 083005-02-1 | 94 |
| 4 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 91 |
| 5 | Heptadecyl trifluoroacetate | 352 | C19H35F3O2 | 1000351-87-0 | 91 |



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Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

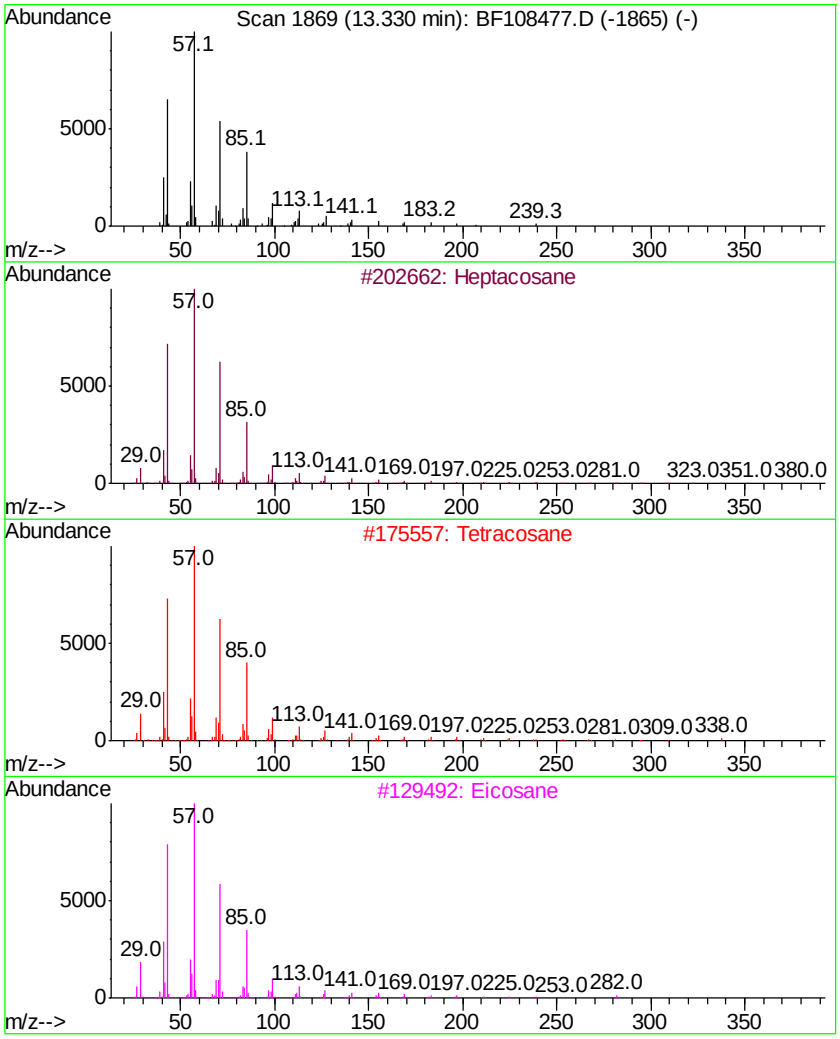
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

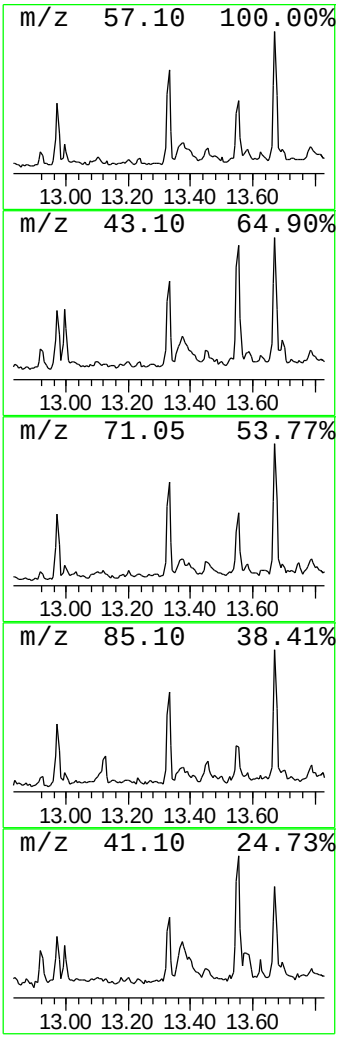
**********

Peak Number 8 Heptacosane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.33 | 2.50 ng | 97446 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 90 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

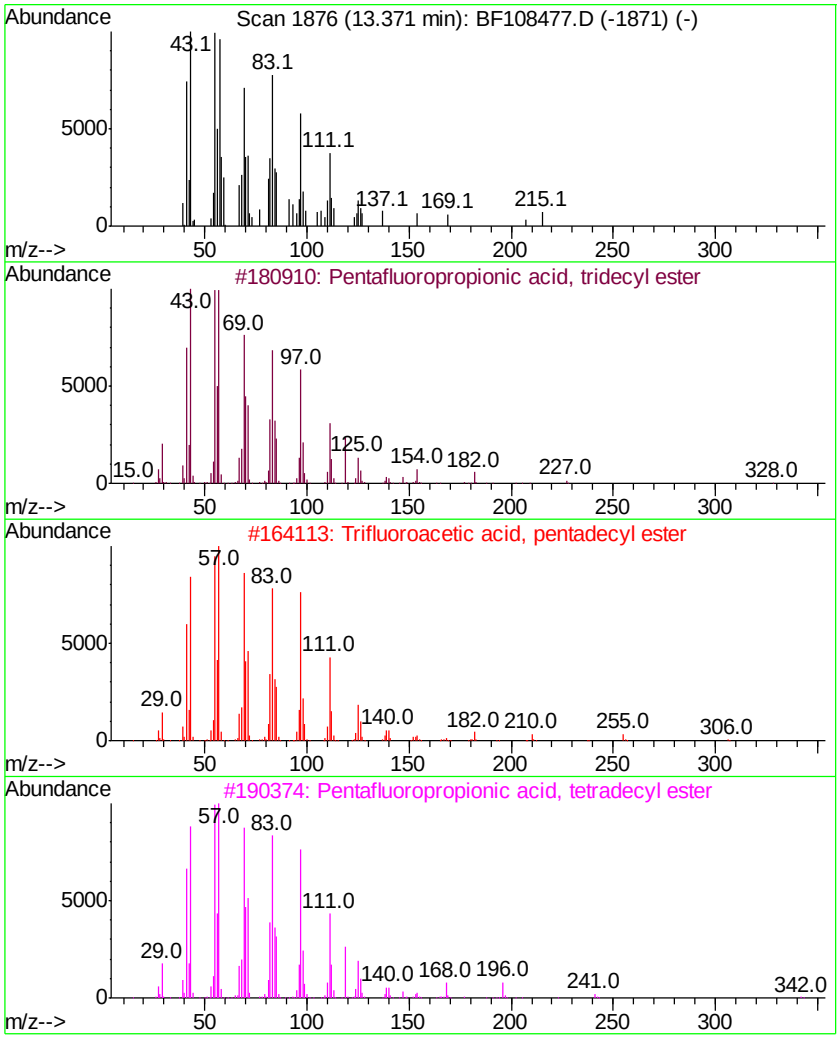
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

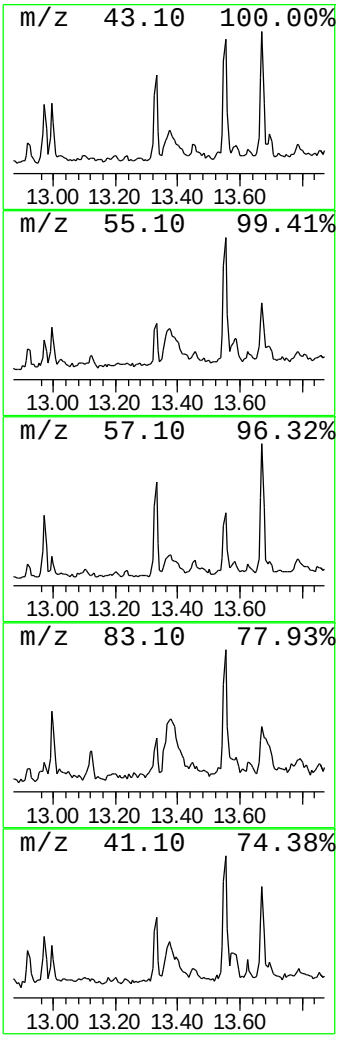
**********

Peak Number 9 Pentafluoropropionic acid, ... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.37 | 4.15 ng | 161615 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentafluoropropionic acid, tride... | 346 | C16H27F5O2 | 959261-22-4 | 93 |
| 2 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 93 |
| 3 | Pentafluoropropionic acid, tetra... | 360 | C17H29F5O2 | 006222-06-6 | 93 |
| 4 | 1-Octadecene | 252 | C18H36 | 000112-88-9 | 87 |
| 5 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

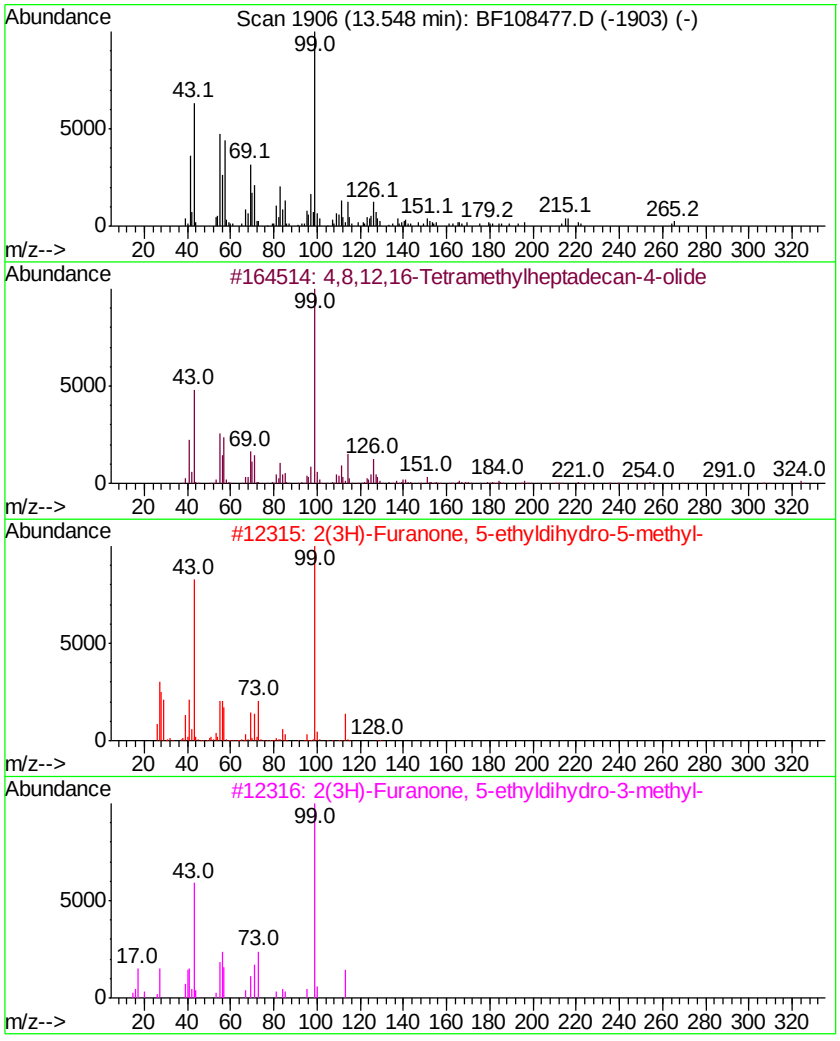
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

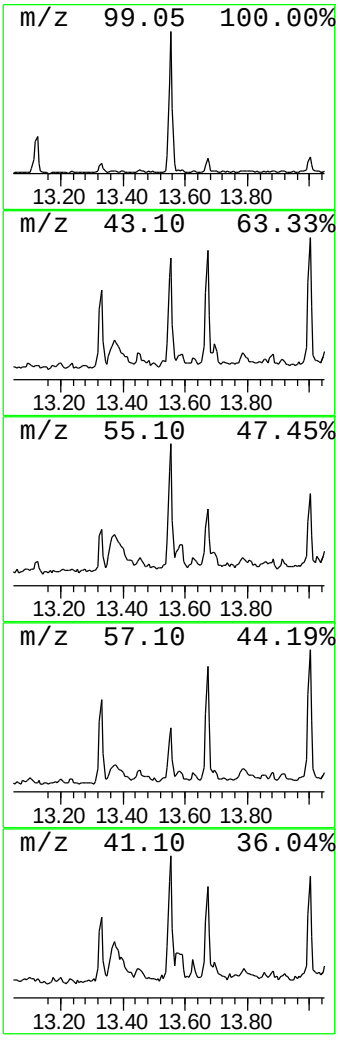
**********

Peak Number 10 4,8,12,16-Tetramethylheptad... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.55 | 6.47 ng | 251955 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,8,12,16-Tetramethylheptadecan-... | 324 | C21H40O2 | 096168-15-9 | 90 |
| 2 | 2(3H)-Furanone, 5-ethyldihydro-5... | 128 | C7H12O2 | 002865-82-9 | 53 |
| 3 | 2(3H)-Furanone, 5-ethyldihydro-3... | 128 | C7H12O2 | 002610-98-2 | 53 |
| 4 | Didodecyl phosphate | 434 | C24H51O4P | 007057-92-3 | 50 |
| 5 | Hexanoic acid, oct-3-en-2-yl ester | 226 | C14H26O2 | 1000299-35-5 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

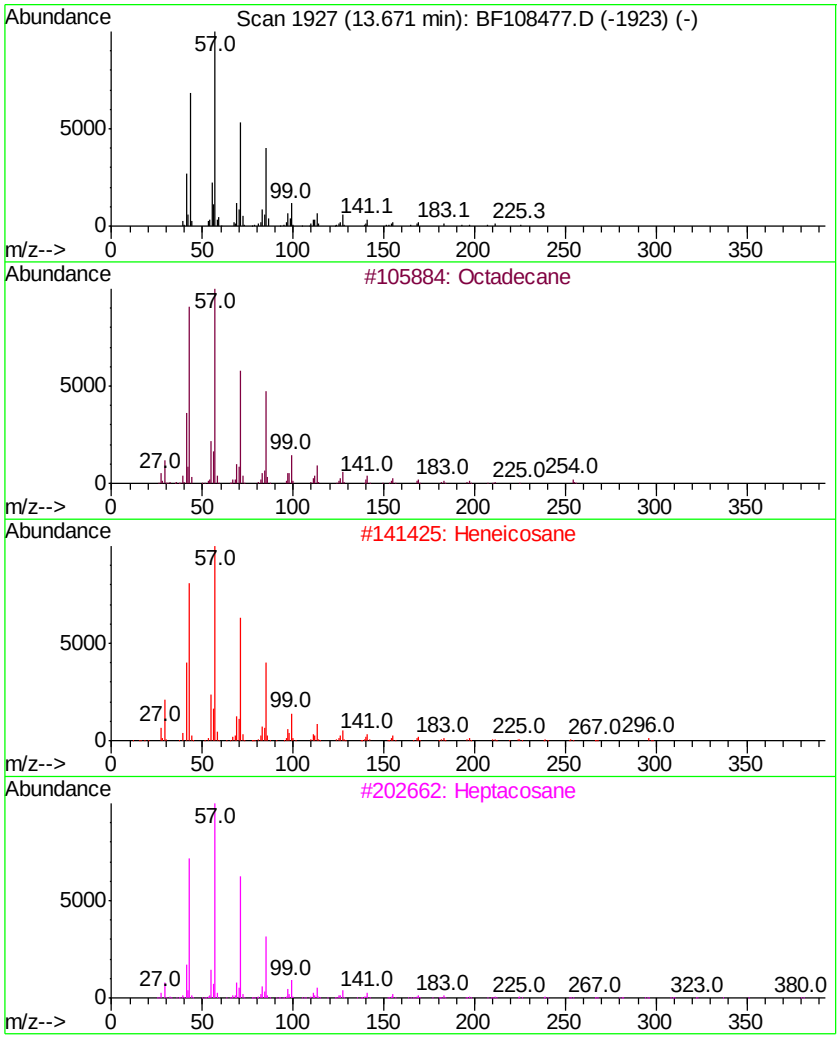
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

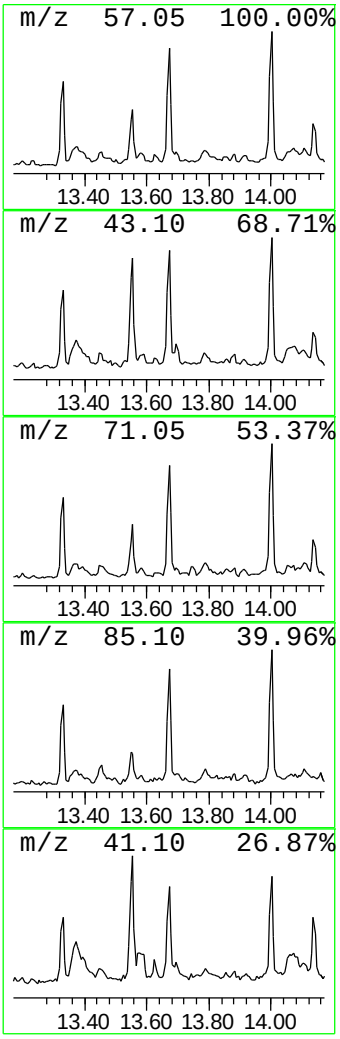
**********

Peak Number 11 Octadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.67 | 4.16 ng | 161966 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

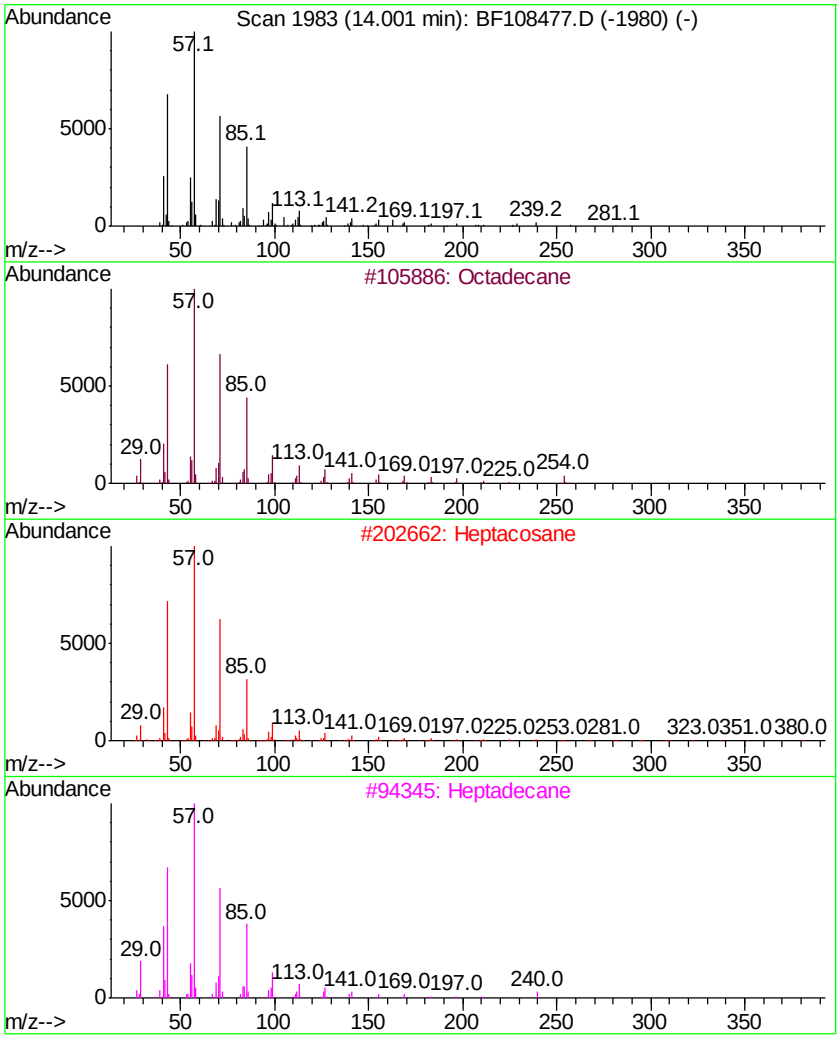
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

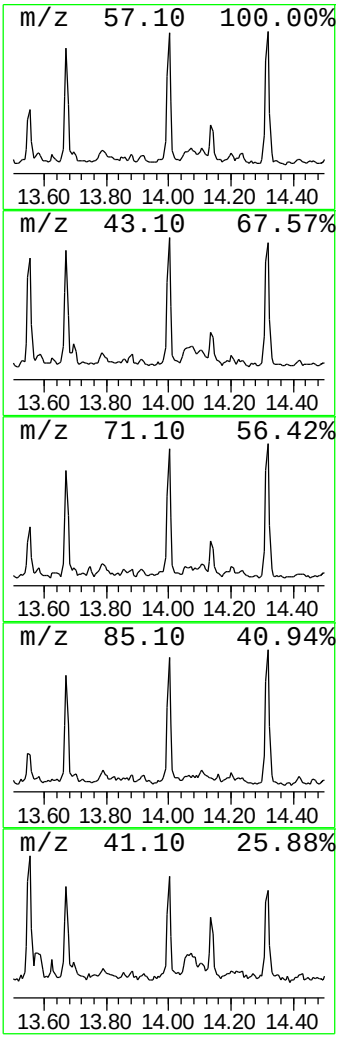
**********

Peak Number 12 Heptadecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.00 | 4.31 ng | 167761 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

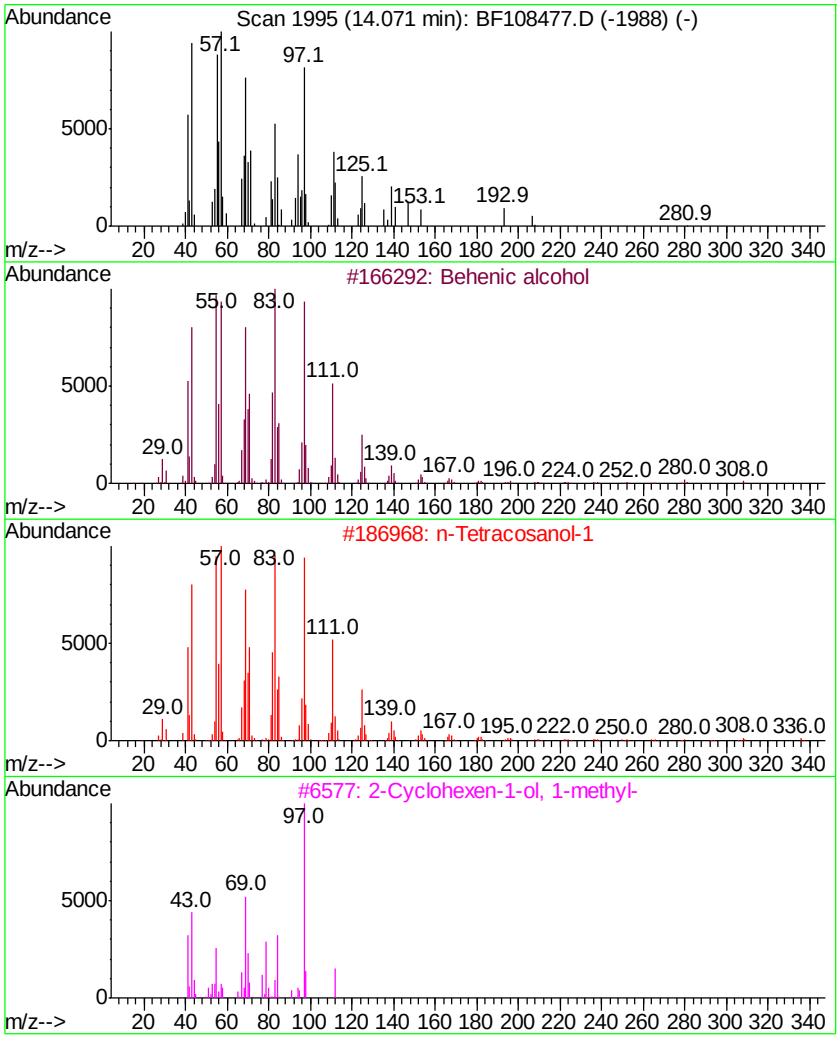
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

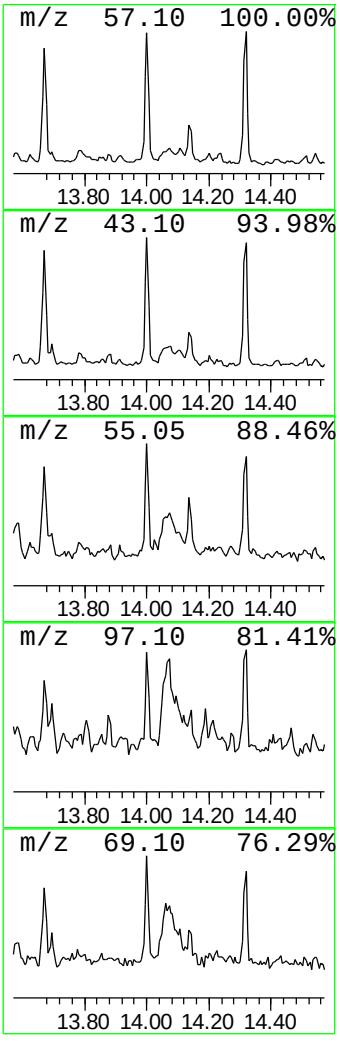
**********

Peak Number 13 Behenic alcohol Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.07 | 2.47 ng | 96199 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 64 |
| 2 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 64 |
| 3 | 2-Cyclohexen-1-ol, 1-methyl- | 112 | C7H12O | 023758-27-2 | 60 |
| 4 | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2 | 007365-36-8 | 58 |
| 5 | Octadecyl trifluoroacetate | 366 | C20H37F3O2 | 079392-43-1 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

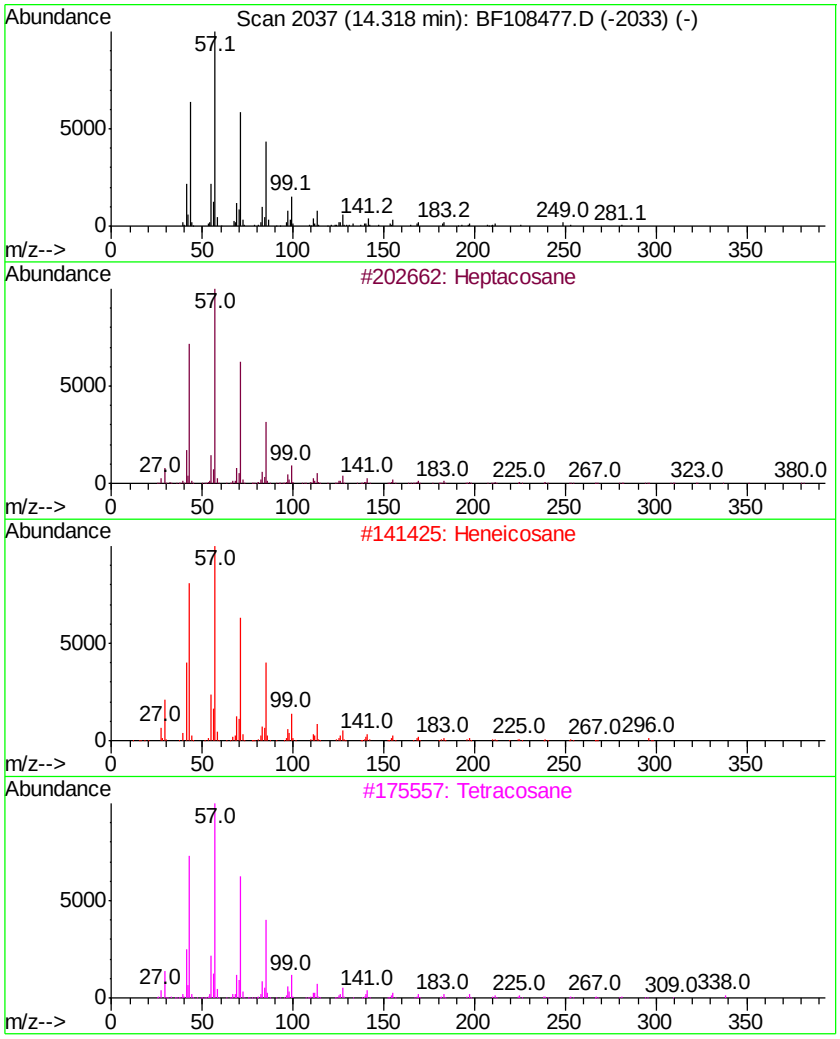
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

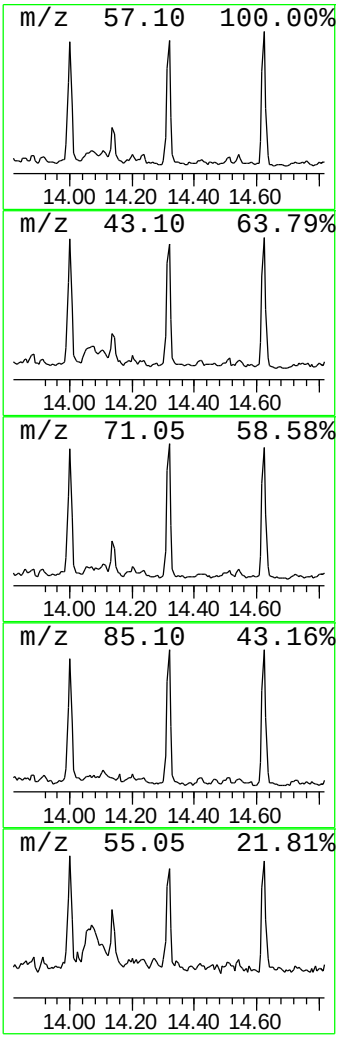
**********

Peak Number 14 Heptadecane, 9-octyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.32 | 4.77 ng | 185800 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 4 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

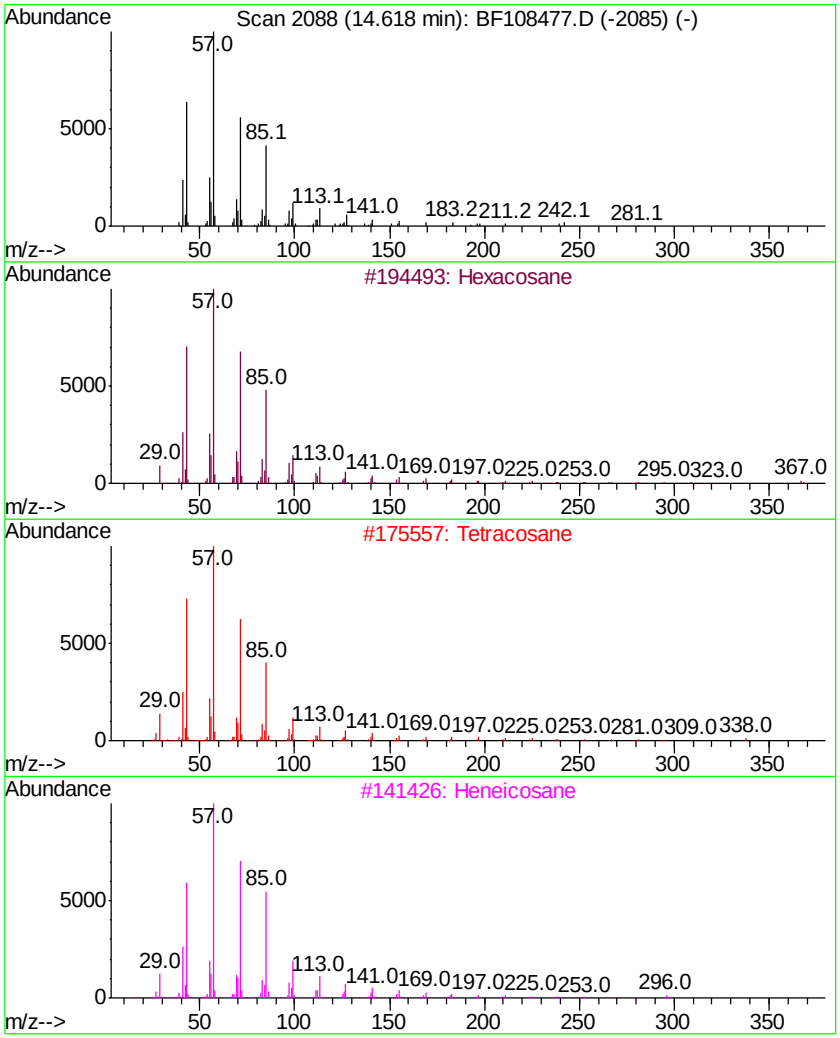
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

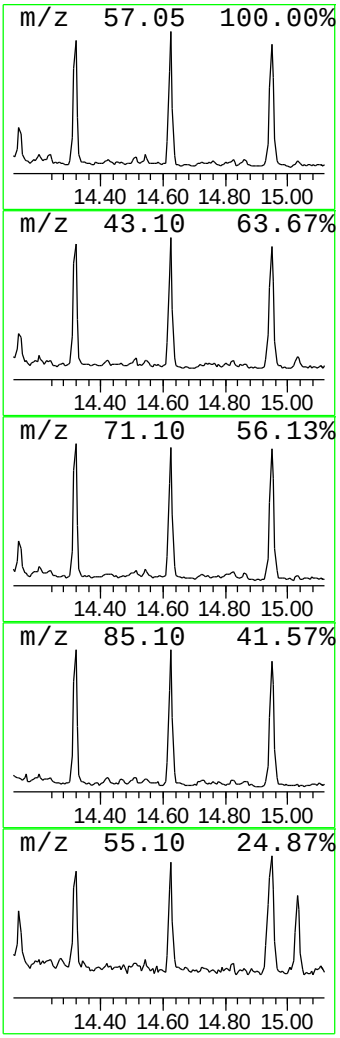
**********

Peak Number 15 Hexacosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.62 | 5.08 ng | 197654 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 94 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

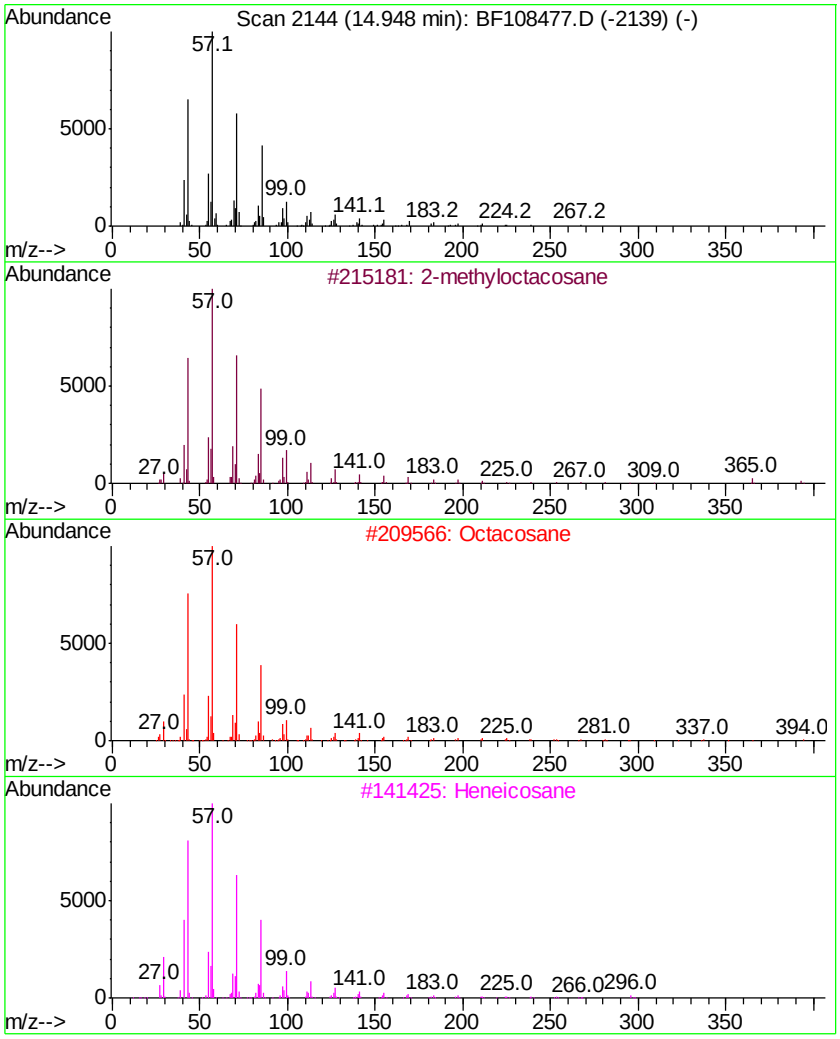
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

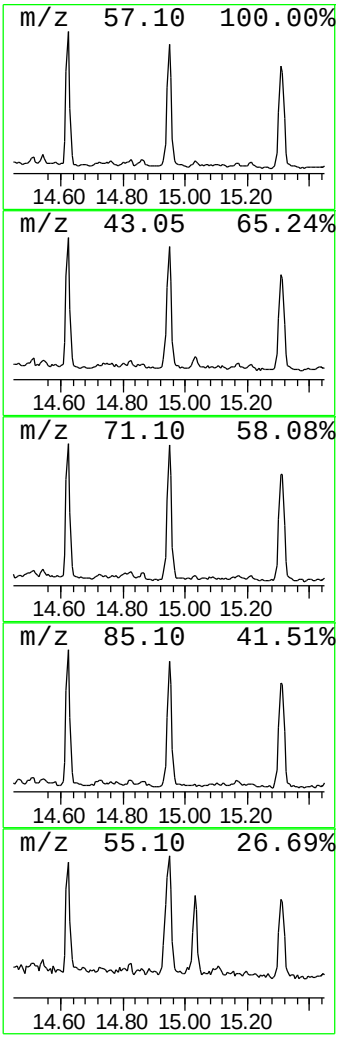
**********

Peak Number 16 2-methyloctacosane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.95 | 7.09 ng | 276172 | Chrysene-d12 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 2 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 4 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 5 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

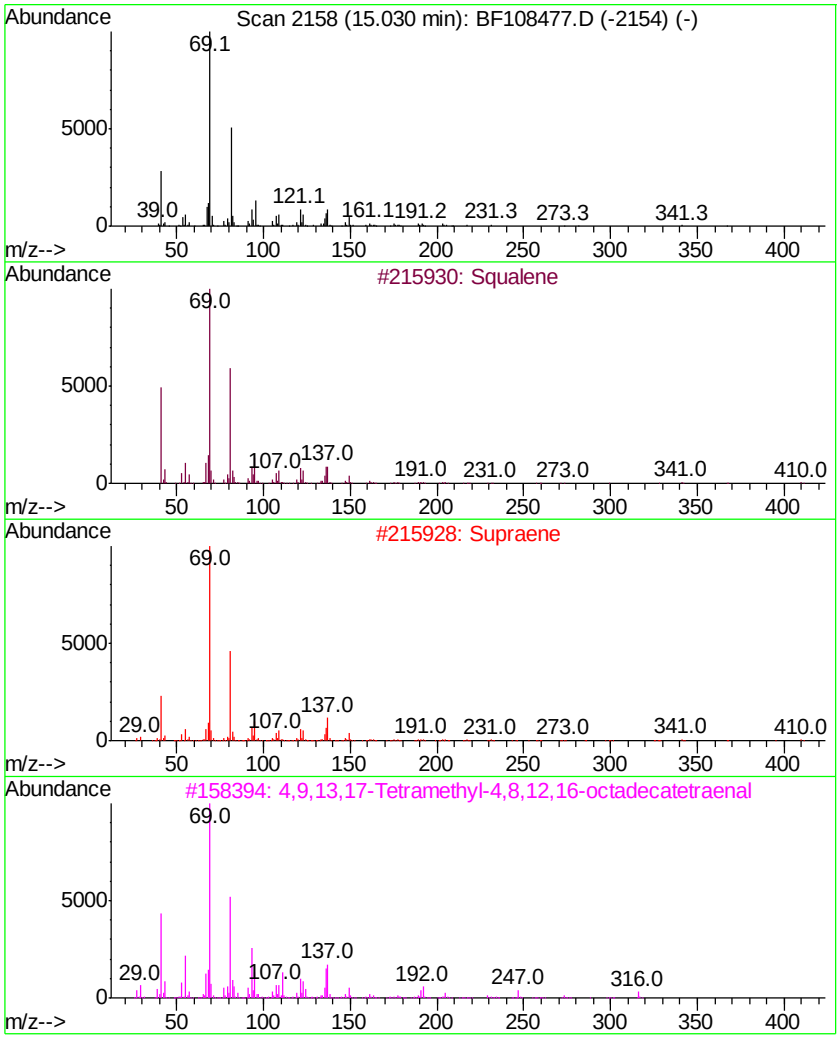
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

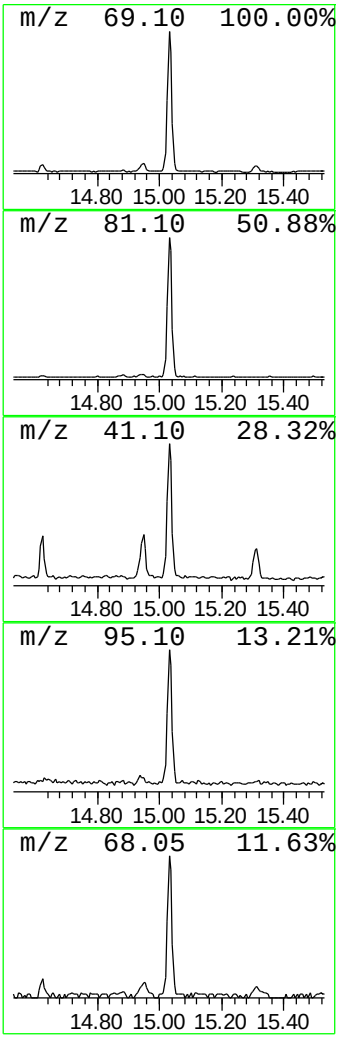
**********

Peak Number 17 Squalene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.03 | 9.90 ng | 442436 | Perylene-d12 | 15.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Squalene | 410 | C30H50 | 000111-02-4 | 91 |
| 2 | Supraene | 410 | C30H50 | 007683-64-9 | 91 |
| 3 | 4,9,13,17-Tetramethyl-4,8,12,16-... | 316 | C22H36O | 056882-09-8 | 83 |
| 4 | .psi.,.psi.-Carotene, 7,7',8,8',... | 547 | C40H66 | 000502-62-5 | 83 |
| 5 | 4-Methyl-1,5-Heptadiene | 110 | C8H14 | 000998-94-7 | 58 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

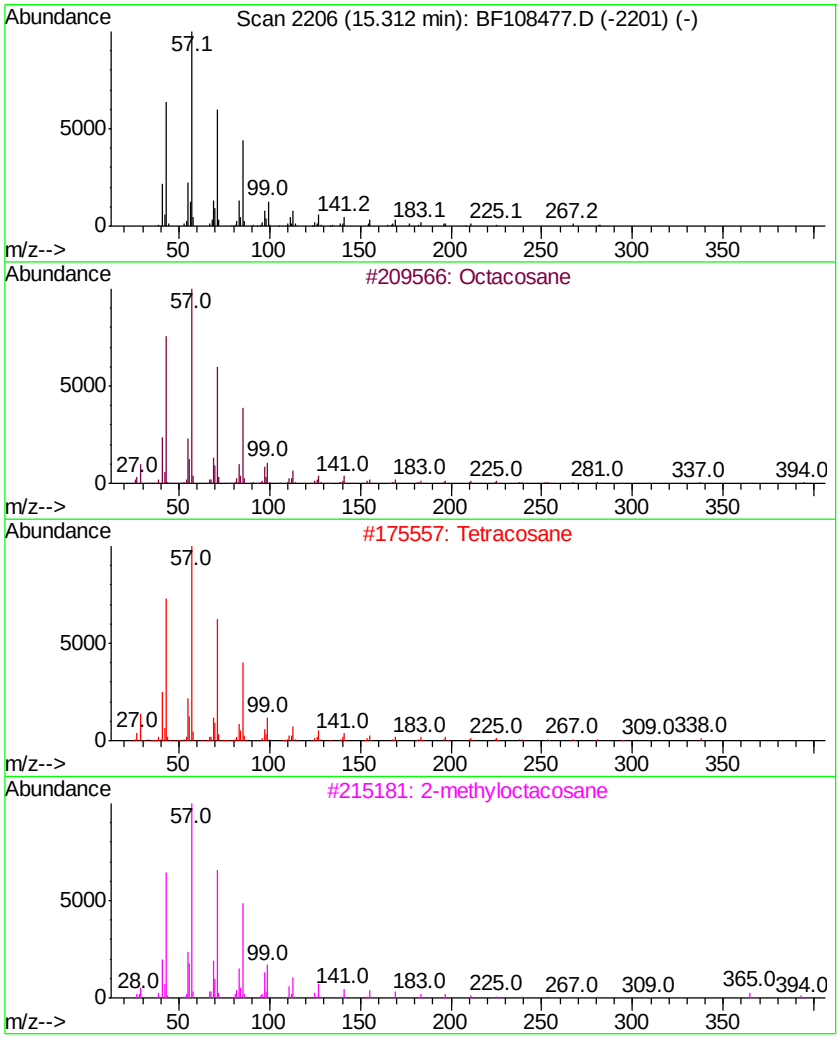
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

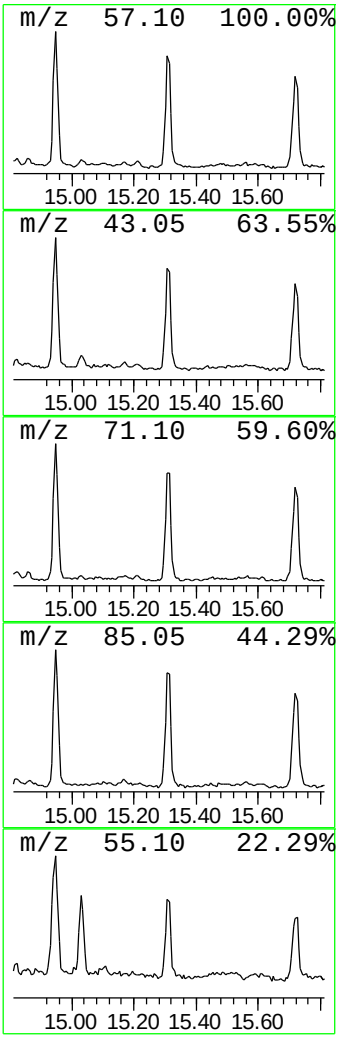
**********

Peak Number 18 Octacosane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.31 | 4.40 ng | 196566 | Perylene-d12 | 15.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 90 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

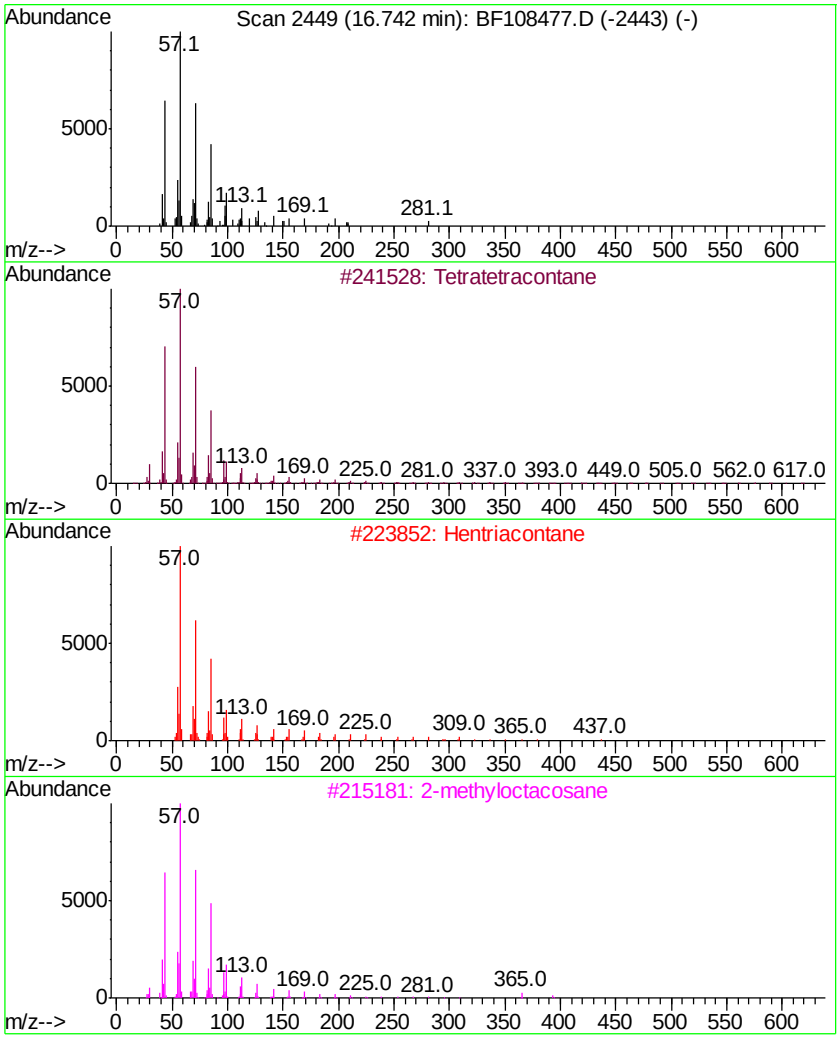
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

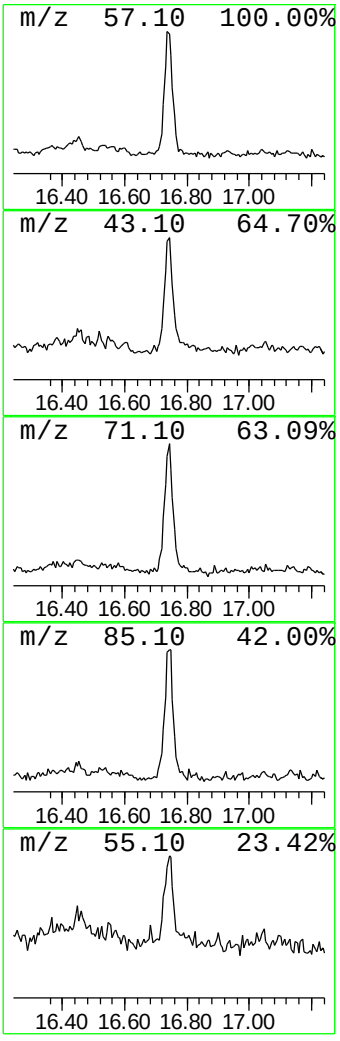
**********

Peak Number 20 Tetratetracontane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.74 | 2.49 ng | 111267 | Perylene-d12 | 15.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 91 |
| 2 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 4 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082418\
Data File : BF108477.D
Acq On : 24 Aug 2018 21:35
Operator : JU/SJ
Sample : J4581-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP1-Q3-FD-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-methoxy... | 2.36 | 18.9 | ng | 759120 | 1 | 7.00 | 804283 | 20.0 |
| 2-Pentanone, 4-hy... | 5.25 | 3.5 | ng | 141448 | 1 | 7.00 | 804283 | 20.0 |
| unknown6.77 | 6.77 | 72.7 | ng | 2925350 | 1 | 7.00 | 804283 | 20.0 |
| Oxalic acid, cycl... | 11.80 | 2.6 | ng | 148729 | 4 | 11.54 | 1135180 | 20.0 |
| n-Hexadecanoic acid | 12.04 | 3.6 | ng | 206280 | 4 | 11.54 | 1135180 | 20.0 |
| Cetene | 12.60 | 14.1 | ng | 802624 | 4 | 11.54 | 1135180 | 20.0 |
| Heptacosane | 13.33 | 2.5 | ng | 97446 | 5 | 14.19 | 778641 | 20.0 |
| Pentafluoropropio... | 13.37 | 4.2 | ng | 161615 | 5 | 14.19 | 778641 | 20.0 |
| 4,8,12,16-Tetrame... | 13.55 | 6.5 | ng | 251955 | 5 | 14.19 | 778641 | 20.0 |
| Octadecane | 13.67 | 4.2 | ng | 161966 | 5 | 14.19 | 778641 | 20.0 |
| Heptadecane | 14.00 | 4.3 | ng | 167761 | 5 | 14.19 | 778641 | 20.0 |
| Behenic alcohol | 14.07 | 2.5 | ng | 96199 | 5 | 14.19 | 778641 | 20.0 |
| Heptadecane, 9-oc... | 14.32 | 4.8 | ng | 185800 | 5 | 14.19 | 778641 | 20.0 |
| Hexacosane | 14.62 | 5.1 | ng | 197654 | 5 | 14.19 | 778641 | 20.0 |
| 2-methyloctacosane | 14.95 | 7.1 | ng | 276172 | 5 | 14.19 | 778641 | 20.0 |
| Squalene | 15.03 | 9.9 | ng | 442436 | 6 | 15.74 | 893483 | 20.0 |
| Octacosane | 15.31 | 4.4 | ng | 196566 | 6 | 15.74 | 893483 | 20.0 |
| Tetratetracontane | 16.74 | 2.5 | ng | 111267 | 6 | 15.74 | 893483 | 20.0 |