LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
Data File : BF101258.D
Acq On : 9 Dec 2017 1:23
Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

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

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

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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 | 5.051 | 501 | 504 | 516 | rBV | 49821 | 66913 | 6.69% | 0.757% |
| 2 | 5.451 | 568 | 572 | 585 | rBV | 1042649 | 960206 | 95.97% | 10.858% |
| 3 | 6.463 | 740 | 744 | 754 | rBV | 908444 | 999639 | 99.92% | 11.304% |
| 4 | 6.598 | 763 | 767 | 770 | rBV | 1156694 | 1000483 | 100.00% | 11.313% |
| 5 | 6.828 | 802 | 806 | 813 | rBB | 333844 | 270978 | 27.08% | 3.064% |
| 6 | 6.981 | 828 | 832 | 836 | rBV | 802467 | 701655 | 70.13% | 7.934% |
| 7 | 7.392 | 898 | 902 | 905 | rBV | 623729 | 545564 | 54.53% | 6.169% |
| 8 | 8.110 | 1020 | 1024 | 1038 | rBB | 401555 | 332420 | 33.23% | 3.759% |
| 9 | 9.181 | 1202 | 1206 | 1210 | rBV | 886826 | 771612 | 77.12% | 8.725% |
| 10 | 9.575 | 1270 | 1273 | 1279 | rVB | 84215 | 69817 | 6.98% | 0.789% |
| 11 | 9.786 | 1305 | 1309 | 1313 | rBV | 29855 | 23412 | 2.34% | 0.265% |
| 12 | 9.863 | 1319 | 1322 | 1326 | rBV | 334143 | 311013 | 31.09% | 3.517% |
| 13 | 10.286 | 1390 | 1394 | 1397 | rVB | 33347 | 25899 | 2.59% | 0.293% |
| 14 | 10.657 | 1454 | 1457 | 1467 | rBV | 551373 | 452868 | 45.26% | 5.121% |
| 15 | 10.757 | 1471 | 1474 | 1479 | rBV2 | 21531 | 23981 | 2.40% | 0.271% |
| 16 | 11.357 | 1572 | 1576 | 1578 | rBV | 341546 | 278070 | 27.79% | 3.144% |
| 17 | 11.380 | 1578 | 1580 | 1583 | rVB | 52303 | 39045 | 3.90% | 0.442% |
| 18 | 11.975 | 1677 | 1681 | 1683 | rBV | 9220 | 11269 | 1.13% | 0.127% |
| 19 | 12.574 | 1780 | 1783 | 1786 | rBV | 99661 | 81736 | 8.17% | 0.924% |
| 20 | 12.751 | 1809 | 1813 | 1816 | rVB3 | 63405 | 52641 | 5.26% | 0.595% |
| 21 | 12.804 | 1819 | 1822 | 1824 | rVV | 95388 | 83233 | 8.32% | 0.941% |
| 22 | 12.827 | 1824 | 1826 | 1828 | rVB2 | 19242 | 15022 | 1.50% | 0.170% |
| 23 | 12.939 | 1841 | 1845 | 1849 | rVB | 721197 | 614793 | 61.45% | 6.952% |
| 24 | 13.410 | 1920 | 1925 | 1927 | rBV2 | 16170 | 21009 | 2.10% | 0.238% |
| 25 | 13.457 | 1930 | 1933 | 1936 | rVV3 | 42012 | 39438 | 3.94% | 0.446% |
| 26 | 13.498 | 1936 | 1940 | 1943 | rVB3 | 12189 | 15303 | 1.53% | 0.173% |
| 27 | 13.827 | 1990 | 1996 | 1999 | rBV4 | 55233 | 62939 | 6.29% | 0.712% |
| 28 | 13.939 | 2012 | 2015 | 2018 | rVB | 18207 | 14304 | 1.43% | 0.162% |
| 29 | 14.004 | 2022 | 2026 | 2029 | rVV2 | 333758 | 322449 | 32.23% | 3.646% |
| 30 | 14.027 | 2029 | 2030 | 2033 | rVB | 45680 | 30718 | 3.07% | 0.347% |
| 31 | 14.145 | 2046 | 2050 | 2054 | rBV | 19749 | 17118 | 1.71% | 0.194% |
| 32 | 14.392 | 2087 | 2092 | 2094 | rBV3 | 15193 | 17501 | 1.75% | 0.198% |
| 33 | 14.451 | 2099 | 2102 | 2105 | rVV | 60192 | 50253 | 5.02% | 0.568% |
| 34 | 14.751 | 2151 | 2153 | 2156 | rBV | 18516 | 18039 | 1.80% | 0.204% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
Data File : BF101258.D
Acq On : 9 Dec 2017 1:23
Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

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

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

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 15.045 | 2200 | 2203 | 2206 | rBV | 33467 | 45677 | 4.57% | 0.517% |
| 36 | 15.086 | 2206 | 2210 | 2213 | rVB2 | 48921 | 58671 | 5.86% | 0.663% |
| 37 | 15.351 | 2252 | 2255 | 2259 | rVB | 22923 | 27549 | 2.75% | 0.312% |
| 38 | 15.415 | 2262 | 2266 | 2270 | rVB | 30308 | 35985 | 3.60% | 0.407% |
| 39 | 15.474 | 2270 | 2276 | 2280 | rBV | 179999 | 224913 | 22.48% | 2.543% |
| 40 | 15.892 | 2343 | 2347 | 2352 | rBV4 | 17249 | 24511 | 2.45% | 0.277% |
| 41 | 16.398 | 2428 | 2433 | 2437 | rVB6 | 12453 | 21840 | 2.18% | 0.247% |
| 42 | 16.957 | 2524 | 2528 | 2537 | rVB6 | 14810 | 40875 | 4.09% | 0.462% |
| 43 | 17.398 | 2601 | 2603 | 2610 | rVB4 | 10645 | 22194 | 2.22% | 0.251% |

Sum of corrected areas: 8843555

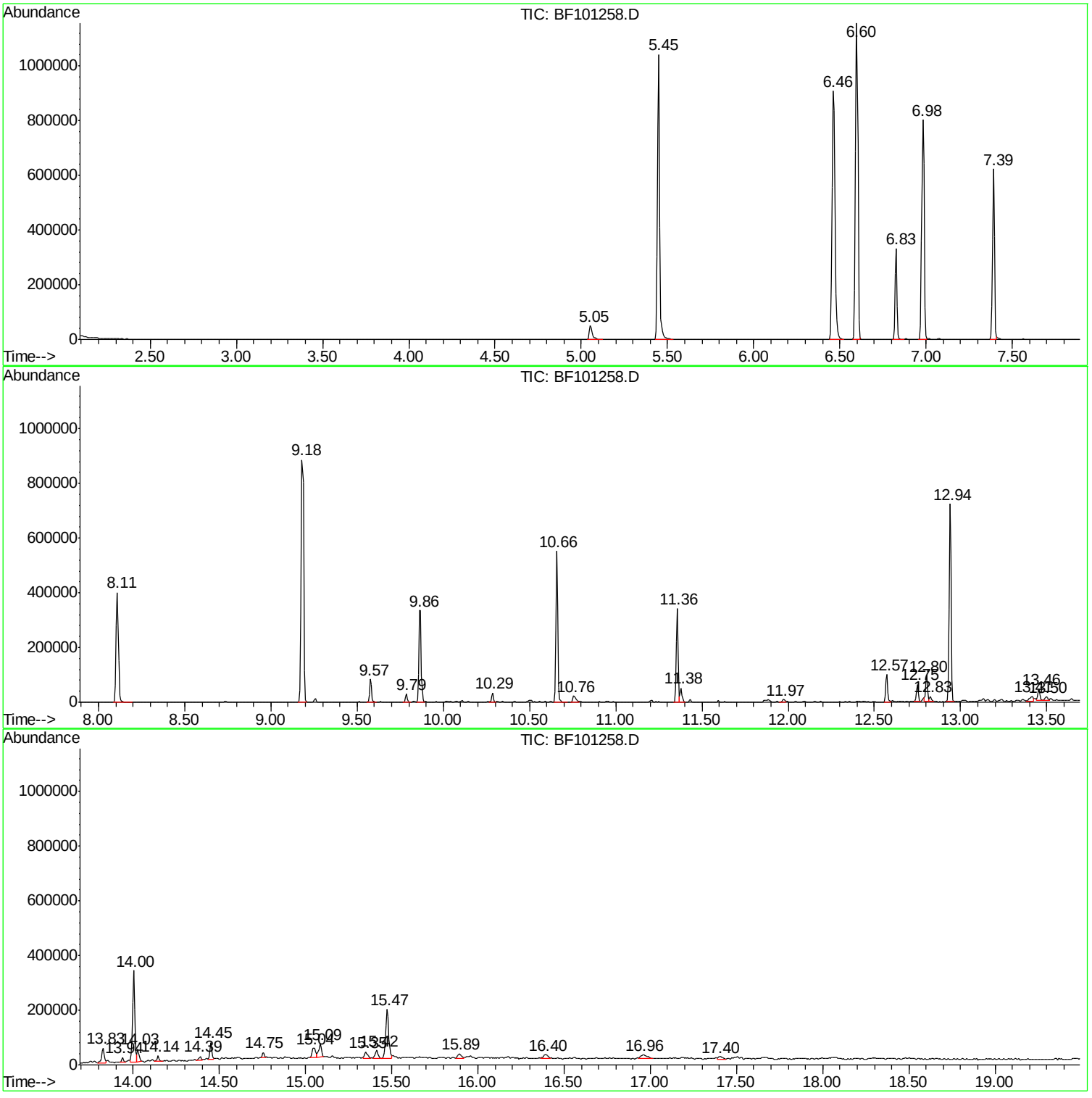
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
Data File : BF101258.D
Acq On : 9 Dec 2017 1:23
Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
Data File : BF101258.D
Acq On : 9 Dec 2017 1:23
Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

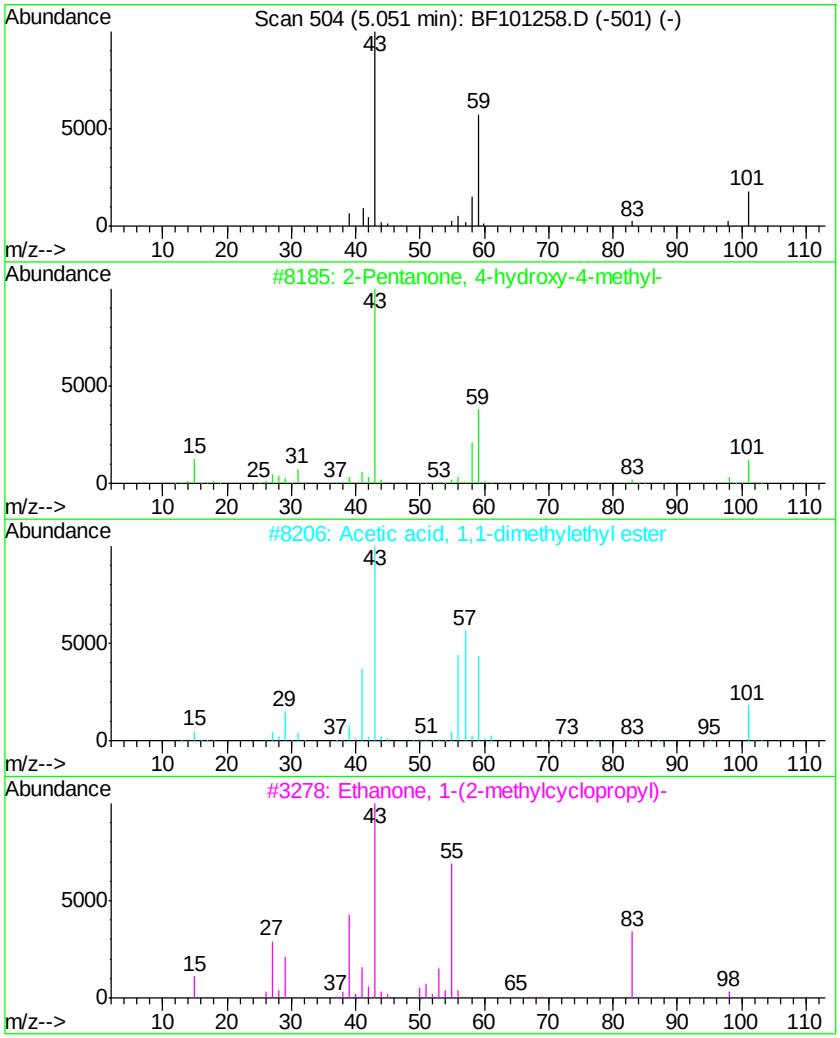
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

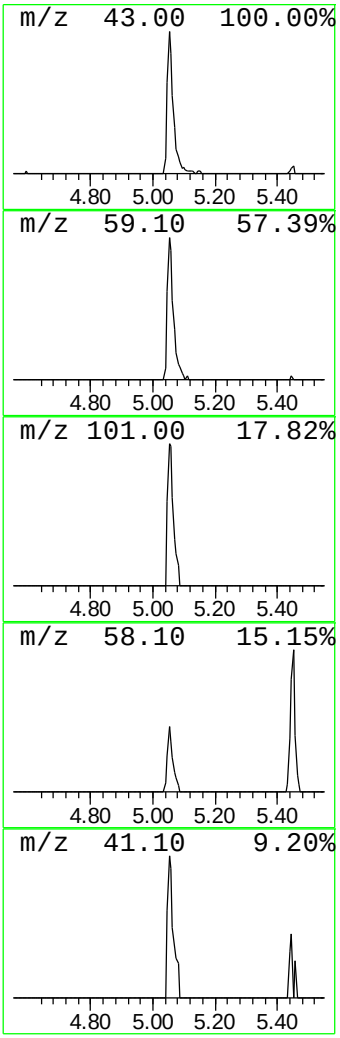
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.05 | 4.94 ng | 66913 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 38 |
| 3 | Ethanone, 1-(2-methylcyclopropyl)- | 98 | C6H10O | 000930-56-3 | 9 |
| 4 | 1,2-Butanediol | 90 | C4H10O2 | 000584-03-2 | 9 |
| 5 | 2-Propanone, 1-(1-methylethoxy)- | 116 | C6H12O2 | 042781-12-4 | 9 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
Data File : BF101258.D
Acq On : 9 Dec 2017 1:23
Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

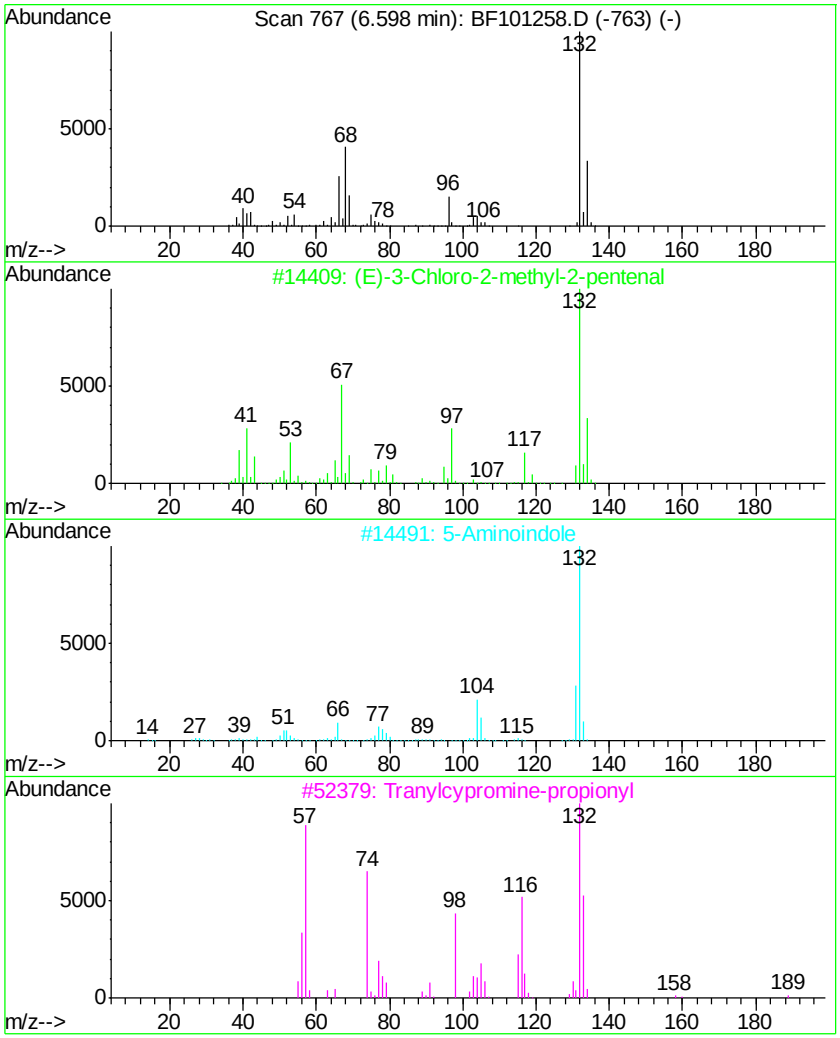
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

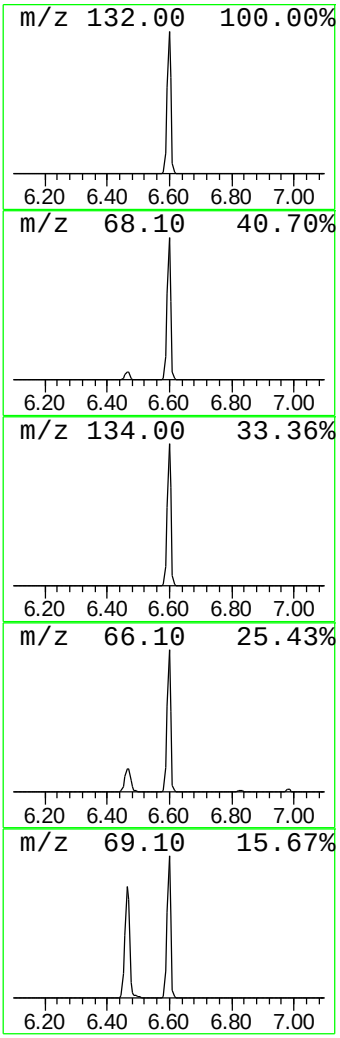
**********

Peak Number 2 unknown6.60 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.60 | 73.84 ng | 1000480 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
Data File : BF101258.D
Acq On : 9 Dec 2017 1:23
Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

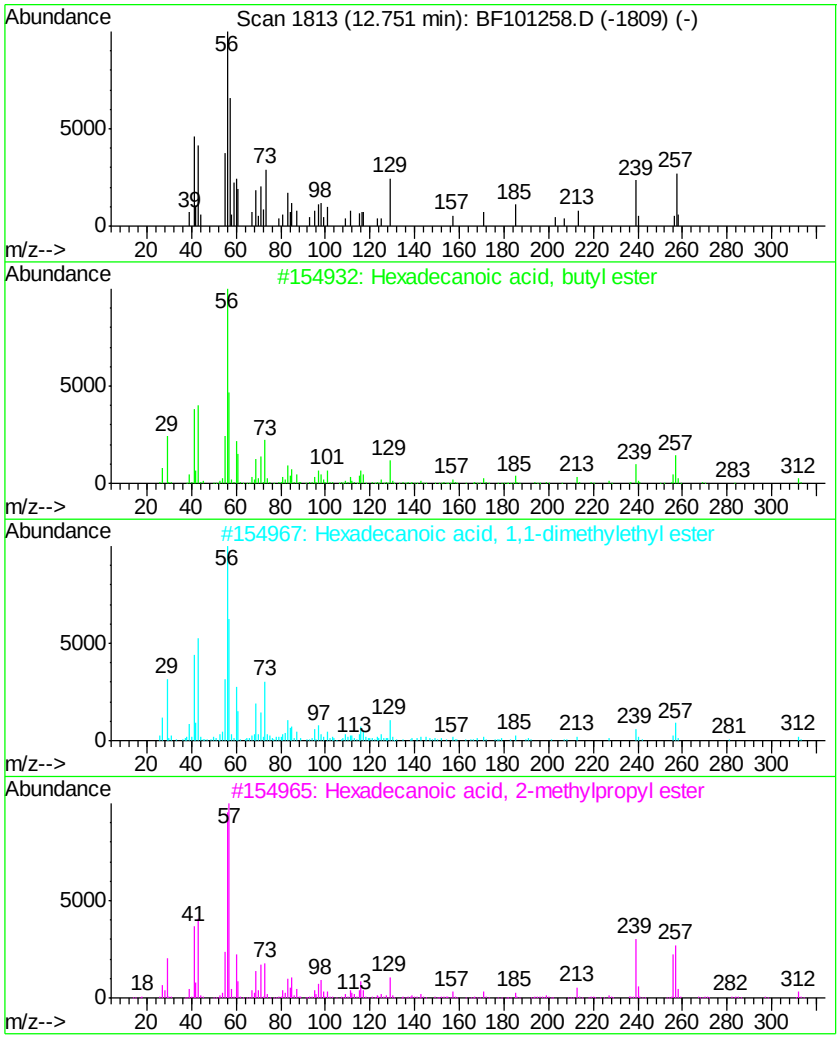
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

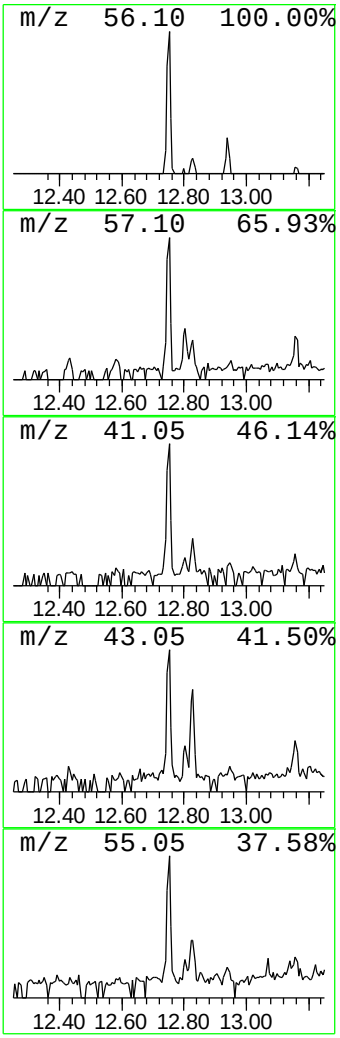
**********

Peak Number 4 Hexadecanoic acid, butyl ester Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.75 | 3.27 ng | 52641 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 64 |
| 2 | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 58 |
| 3 | Hexadecanoic acid, 2-methylpropy... | 312 | C20H40O2 | 000110-34-9 | 49 |
| 4 | Nipecotic acid | 129 | C6H11NO2 | 000498-95-3 | 32 |
| 5 | Cyclopropane, 1-(1-methylethyl)-... | 210 | C15H30 | 041977-39-3 | 22 |



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Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

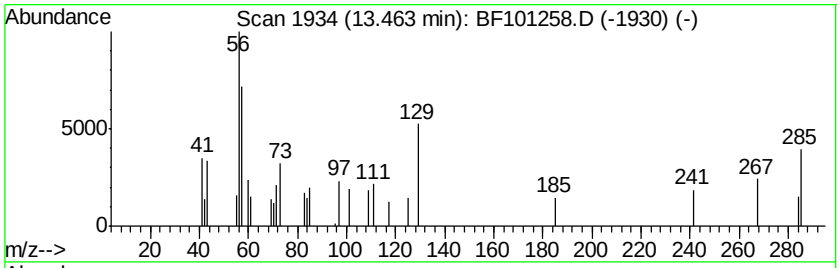
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

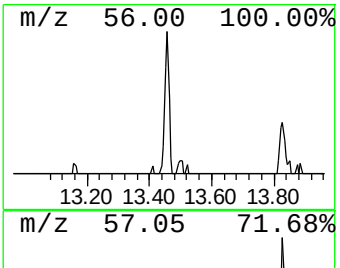
**********

Peak Number 5 unknown13.46 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.46 | 2.45 ng | 39438 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nipecotic acid | 129 | C6H11NO2 | 000498-95-3 | 25 |
| 2 | Cyclohexane, (1,1-dimethylethyl)- | 140 | C10H20 | 003178-22-1 | 14 |
| 3 | 1-Pentene, 2,4-dimethyl- | 98 | C7H14 | 002213-32-3 | 14 |
| 4 | Cyclopropane, 1-(1-methylethyl)-... | 210 | C15H30 | 041977-39-3 | 12 |
| 5 | 1-Undecene, 5-methyl- | 168 | C12H24 | 074630-38-9 | 12 |



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Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

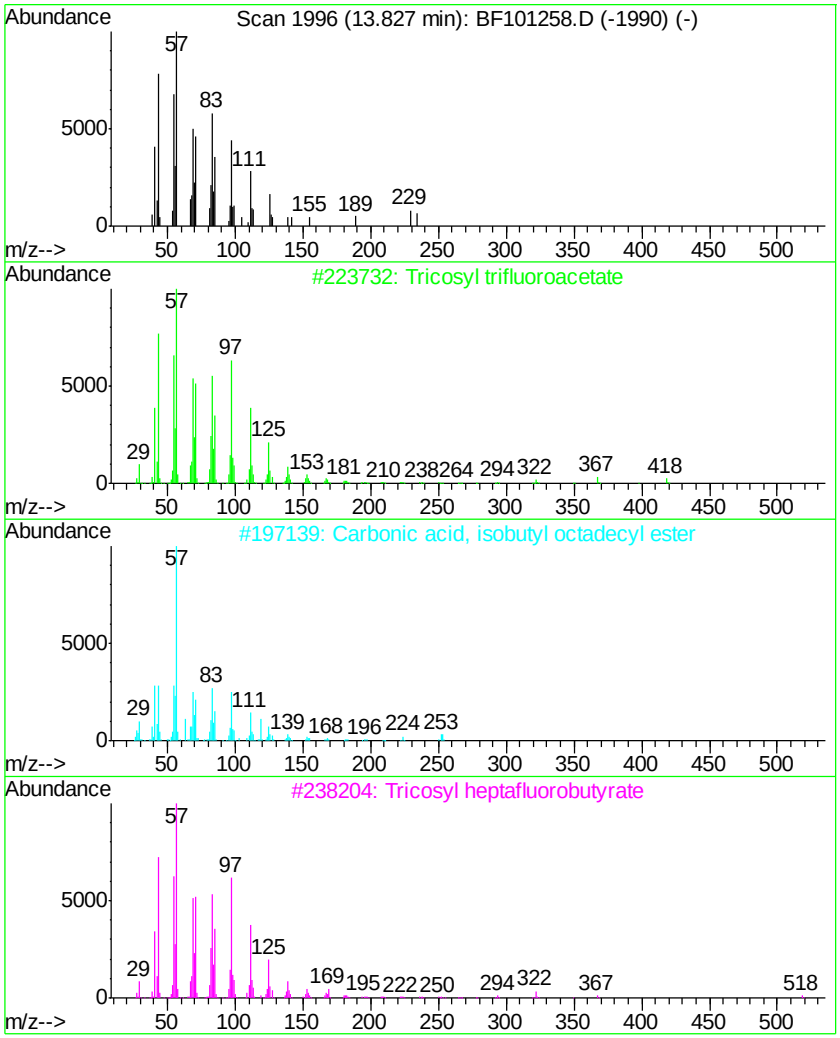
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

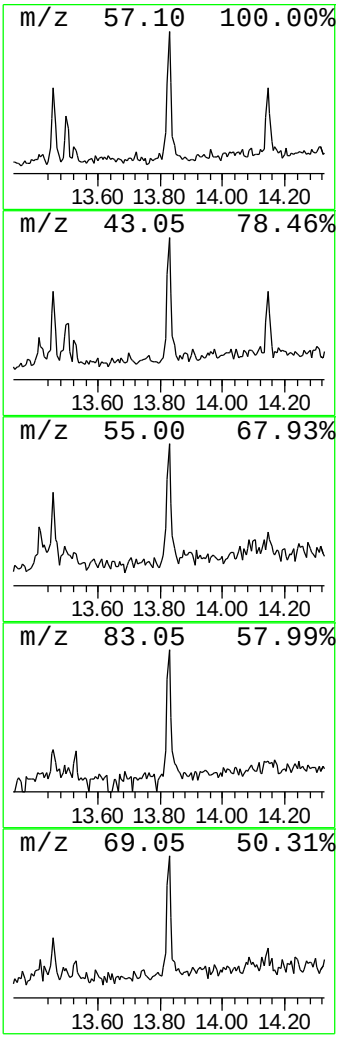
**********

Peak Number 6 Tricosyl trifluoroacetate Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.83 | 3.90 ng | 62939 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tricosyl trifluoroacetate | 436 | C25H47F3O2 | 1000351-75-1 | 91 |
| 2 | Carbonic acid, isobutyl octadecy... | 370 | C23H46O3 | 1000314-61-5 | 91 |
| 3 | Tricosyl heptafluorobutyrate | 536 | C27H47F7O2 | 1000351-83-4 | 91 |
| 4 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 90 |
| 5 | Heneicosyl heptafluorobutyrate | 508 | C25H43F7O2 | 1000351-83-8 | 90 |



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Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

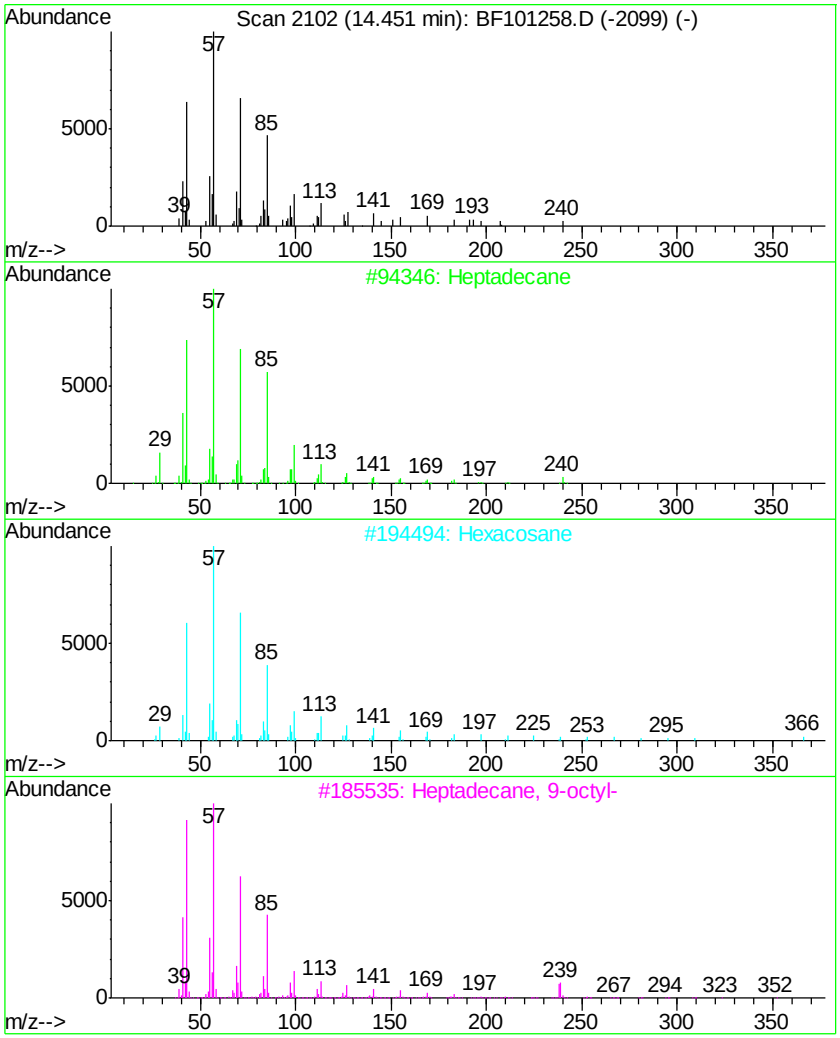
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

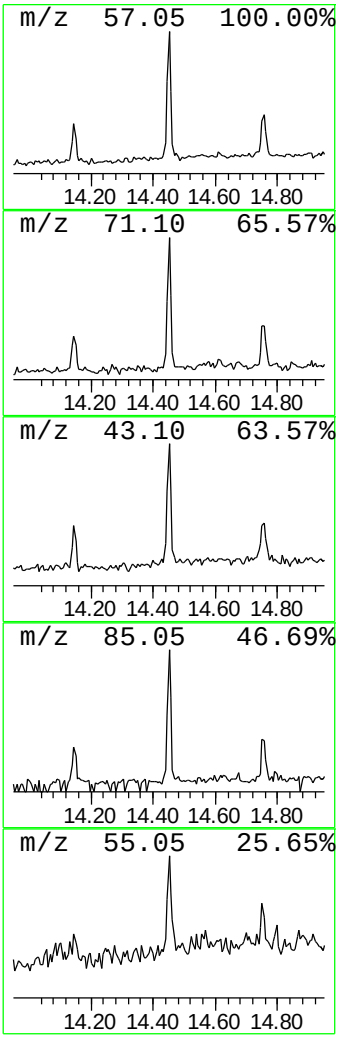
**********

Peak Number 7 Heptadecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.45 | 3.12 ng | 50253 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 96 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 5 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |



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Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

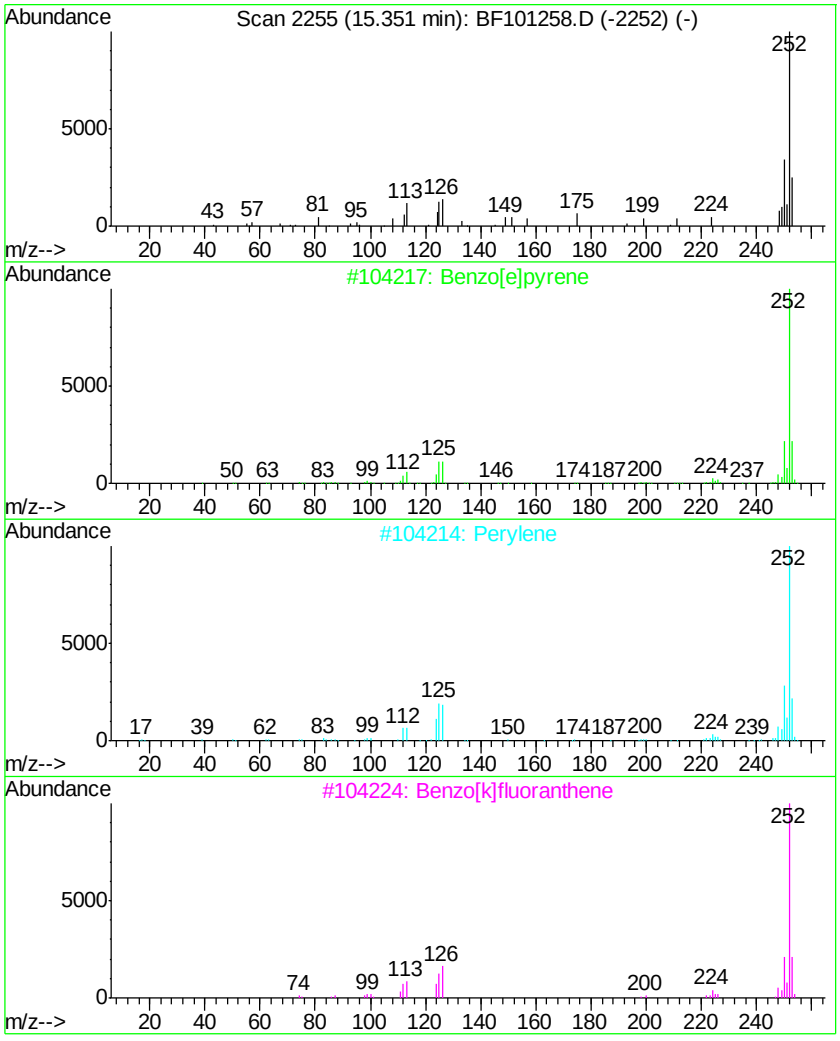
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

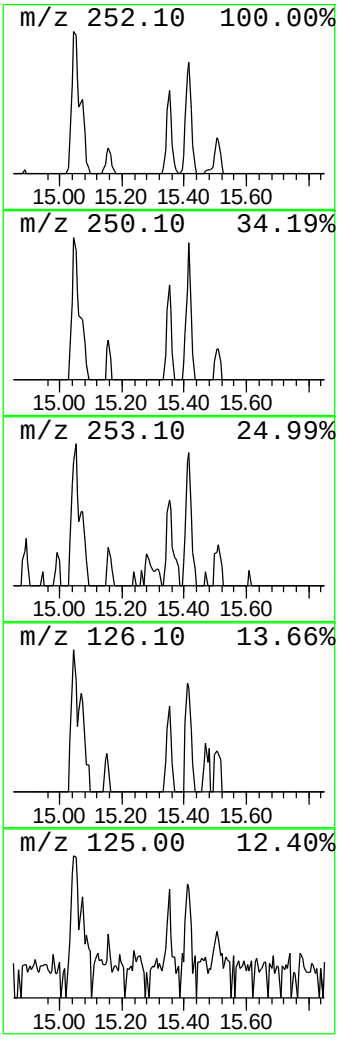
**********

Peak Number 8 Benzo[e]pyrene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.35 | 2.45 ng | 27549 | Perylene-d12 | 15.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 87 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 83 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 81 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 81 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
Data File : BF101258.D
Acq On : 9 Dec 2017 1:23
Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

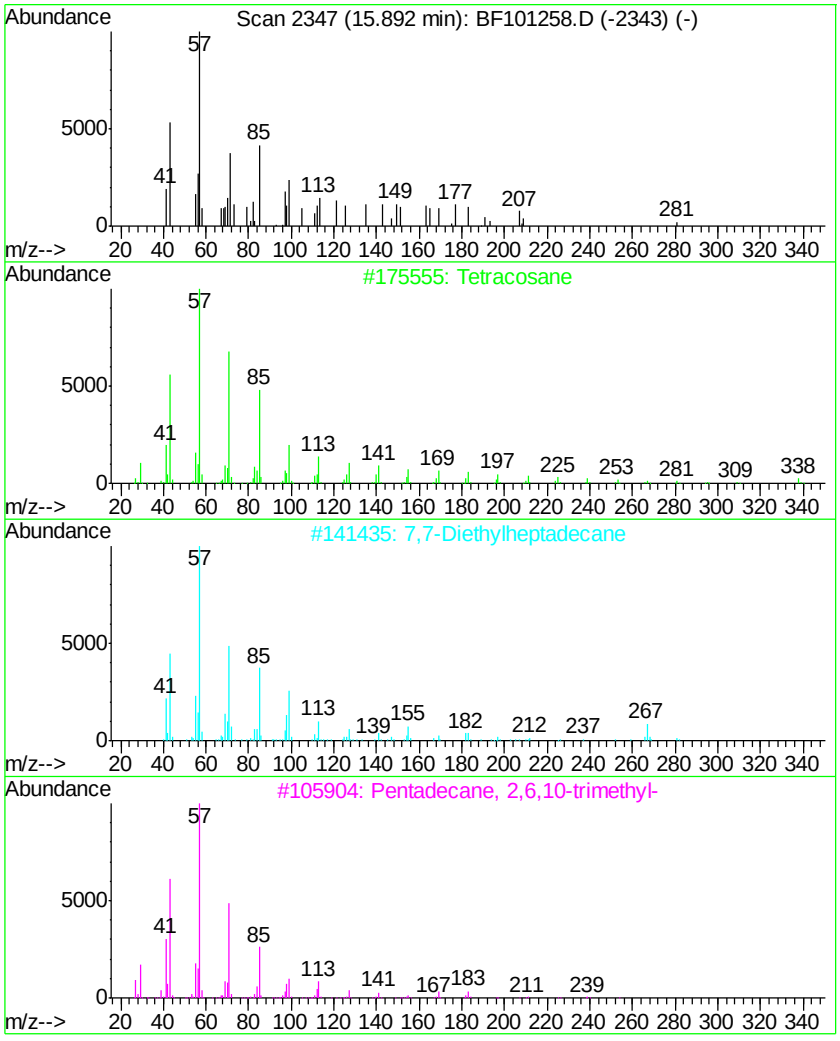
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

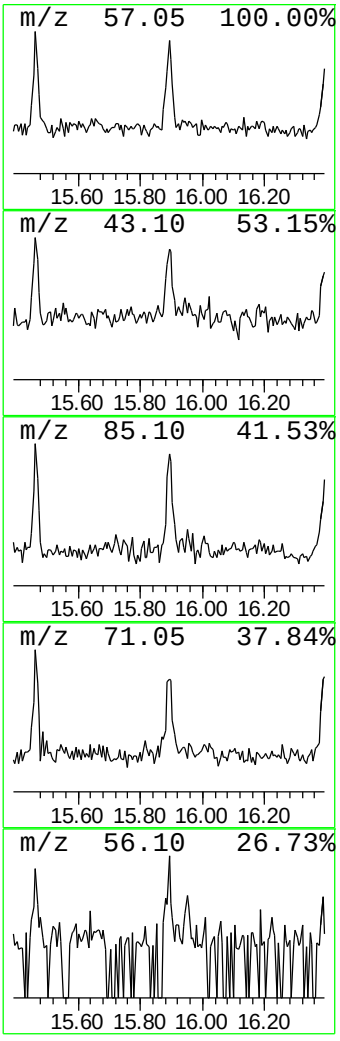
**********

Peak Number 9 unknown15.89 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.89 | 2.18 ng | 24511 | Perylene-d12 | 15.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 37 |
| 2 | 7,7-Diethylheptadecane | 296 | C21H44 | 1000360-41-5 | 35 |
| 3 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 32 |
| 4 | Tridecane, 2,5-dimethyl- | 212 | C15H32 | 056292-66-1 | 27 |
| 5 | Heptacosane, 1-chloro- | 414 | C27H55Cl | 062016-79-9 | 16 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120817\
Data File : BF101258.D
Acq On : 9 Dec 2017 1:23
Operator : SJ/JU
Sample : I6705-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B12(0-10)COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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 |
| 2-Pentanone, 4-hy... | 5.05 | 4.9 | ng | 66913 | 1 | 6.83 | 270978 | 20.0 |
| unknown6.60 | 6.60 | 73.8 | ng | 1000480 | 1 | 6.83 | 270978 | 20.0 |
| Hexadecanoic acid... | 12.75 | 3.3 | ng | 52641 | 5 | 14.00 | 322449 | 20.0 |
| unknown13.46 | 13.46 | 2.5 | ng | 39438 | 5 | 14.00 | 322449 | 20.0 |
| Tricosyl trifluor... | 13.83 | 3.9 | ng | 62939 | 5 | 14.00 | 322449 | 20.0 |
| Heptadecane | 14.45 | 3.1 | ng | 50253 | 5 | 14.00 | 322449 | 20.0 |
| Benzo[e]pyrene | 15.35 | 2.5 | ng | 27549 | 6 | 15.47 | 224913 | 20.0 |
| unknown15.89 | 15.89 | 2.2 | ng | 24511 | 6 | 15.47 | 224913 | 20.0 |