LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

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_G\METHODS\8270-BG022118.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 | 3.516 | 31 | 39 | 52 | rBV | 82741 | 182126 | 5.38% | 0.951% |
| 2 | 6.324 | 510 | 517 | 526 | rBV | 388604 | 675340 | 19.96% | 3.528% |
| 3 | 8.004 | 795 | 803 | 812 | rBV | 240476 | 456133 | 13.48% | 2.383% |
| 4 | 8.422 | 864 | 874 | 882 | rBV | 685717 | 1281250 | 37.88% | 6.693% |
| 5 | 8.909 | 950 | 957 | 966 | rBV | 139753 | 253517 | 7.49% | 1.324% |
| 6 | 9.250 | 1005 | 1015 | 1023 | rBV | 627866 | 1164197 | 34.42% | 6.081% |
| 7 | 10.108 | 1153 | 1161 | 1176 | rVB | 539978 | 1028904 | 30.42% | 5.375% |
| 8 | 11.165 | 1334 | 1341 | 1348 | rBV | 32426 | 59749 | 1.77% | 0.312% |
| 9 | 11.758 | 1434 | 1442 | 1443 | rBV2 | 28731 | 53255 | 1.57% | 0.278% |
| 10 | 11.793 | 1443 | 1448 | 1460 | rVV | 207000 | 430795 | 12.73% | 2.250% |
| 11 | 11.887 | 1460 | 1464 | 1472 | rVB2 | 43241 | 76245 | 2.25% | 0.398% |
| 12 | 12.651 | 1586 | 1594 | 1605 | rVB2 | 87352 | 205309 | 6.07% | 1.072% |
| 13 | 12.851 | 1620 | 1628 | 1637 | rBV | 34493 | 68642 | 2.03% | 0.359% |
| 14 | 12.933 | 1637 | 1642 | 1648 | rBV5 | 19643 | 42040 | 1.24% | 0.220% |
| 15 | 13.127 | 1669 | 1675 | 1679 | rBV3 | 24268 | 45442 | 1.34% | 0.237% |
| 16 | 13.609 | 1752 | 1757 | 1763 | rVB | 40287 | 70425 | 2.08% | 0.368% |
| 17 | 13.673 | 1763 | 1768 | 1777 | rVB | 28182 | 47811 | 1.41% | 0.250% |
| 18 | 14.155 | 1841 | 1850 | 1859 | rVB | 1402006 | 2249500 | 66.50% | 11.751% |
| 19 | 14.455 | 1896 | 1901 | 1907 | rVB2 | 24945 | 45269 | 1.34% | 0.236% |
| 20 | 14.566 | 1915 | 1920 | 1921 | rBV | 38540 | 56304 | 1.66% | 0.294% |
| 21 | 14.584 | 1921 | 1923 | 1929 | rVB | 66215 | 93672 | 2.77% | 0.489% |
| 22 | 14.707 | 1932 | 1944 | 1950 | rBV | 101318 | 240399 | 7.11% | 1.256% |
| 23 | 14.842 | 1961 | 1967 | 1973 | rBV | 125166 | 236942 | 7.00% | 1.238% |
| 24 | 14.901 | 1973 | 1977 | 1982 | rBV5 | 28133 | 58068 | 1.72% | 0.303% |
| 25 | 15.077 | 2001 | 2007 | 2011 | rBV | 86595 | 160860 | 4.76% | 0.840% |
| 26 | 15.112 | 2011 | 2013 | 2018 | rVB2 | 58004 | 76781 | 2.27% | 0.401% |
| 27 | 15.248 | 2031 | 2036 | 2043 | rVB | 109942 | 174916 | 5.17% | 0.914% |
| 28 | 15.477 | 2069 | 2075 | 2077 | rBV | 39494 | 58262 | 1.72% | 0.304% |
| 29 | 15.524 | 2077 | 2083 | 2090 | rVV2 | 310654 | 542269 | 16.03% | 2.833% |
| 30 | 15.588 | 2090 | 2094 | 2099 | rVV2 | 57927 | 92642 | 2.74% | 0.484% |
| 31 | 15.729 | 2110 | 2118 | 2124 | rBV4 | 40523 | 108918 | 3.22% | 0.569% |
| 32 | 15.794 | 2124 | 2129 | 2133 | rBV3 | 30445 | 56373 | 1.67% | 0.294% |
| 33 | 15.900 | 2142 | 2147 | 2154 | rVB3 | 62547 | 129666 | 3.83% | 0.677% |
| 34 | 15.976 | 2154 | 2160 | 2165 | rVB | 72550 | 122841 | 3.63% | 0.642% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

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_G\METHODS\8270-BG022118.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.117 | 2178 | 2184 | 2189 | rBV | 76603 | 138643 | 4.10% | 0.724% |
| 36 | 16.287 | 2205 | 2213 | 2216 | rBV5 | 59315 | 144830 | 4.28% | 0.757% |
| 37 | 16.323 | 2216 | 2219 | 2227 | rVB2 | 43574 | 69585 | 2.06% | 0.363% |
| 38 | 16.458 | 2236 | 2242 | 2246 | rVB5 | 21018 | 34599 | 1.02% | 0.181% |
| 39 | 16.558 | 2251 | 2259 | 2268 | rVB2 | 64824 | 156926 | 4.64% | 0.820% |
| 40 | 16.687 | 2276 | 2281 | 2290 | rVB5 | 77620 | 157436 | 4.65% | 0.822% |
| 41 | 16.840 | 2305 | 2307 | 2313 | rVB3 | 26463 | 40010 | 1.18% | 0.209% |
| 42 | 16.992 | 2327 | 2333 | 2341 | rBV | 1083409 | 1791843 | 52.97% | 9.360% |
| 43 | 17.533 | 2416 | 2425 | 2432 | rBV4 | 27873 | 83588 | 2.47% | 0.437% |
| 44 | 17.603 | 2432 | 2437 | 2443 | rVB2 | 61475 | 104101 | 3.08% | 0.544% |
| 45 | 18.073 | 2510 | 2517 | 2526 | rVB | 37759 | 69108 | 2.04% | 0.361% |
| 46 | 18.255 | 2540 | 2548 | 2553 | rBV2 | 389675 | 666015 | 19.69% | 3.479% |
| 47 | 18.291 | 2553 | 2554 | 2561 | rVB | 39343 | 45050 | 1.33% | 0.235% |
| 48 | 19.048 | 2678 | 2683 | 2688 | rBV | 70348 | 102604 | 3.03% | 0.536% |
| 49 | 20.282 | 2888 | 2893 | 2902 | rBV4 | 27931 | 47033 | 1.39% | 0.246% |
| 50 | 20.770 | 2970 | 2976 | 2987 | rBV | 2479779 | 3382779 | 100.00% | 17.671% |
| 51 | 22.138 | 3202 | 3209 | 3225 | rBV6 | 32060 | 112049 | 3.31% | 0.585% |
| 52 | 22.608 | 3281 | 3289 | 3301 | rBV2 | 357349 | 698386 | 20.65% | 3.648% |
| 53 | 26.409 | 3924 | 3936 | 3951 | rBV3 | 176967 | 654167 | 19.34% | 3.417% |

Sum of corrected areas: 19143614

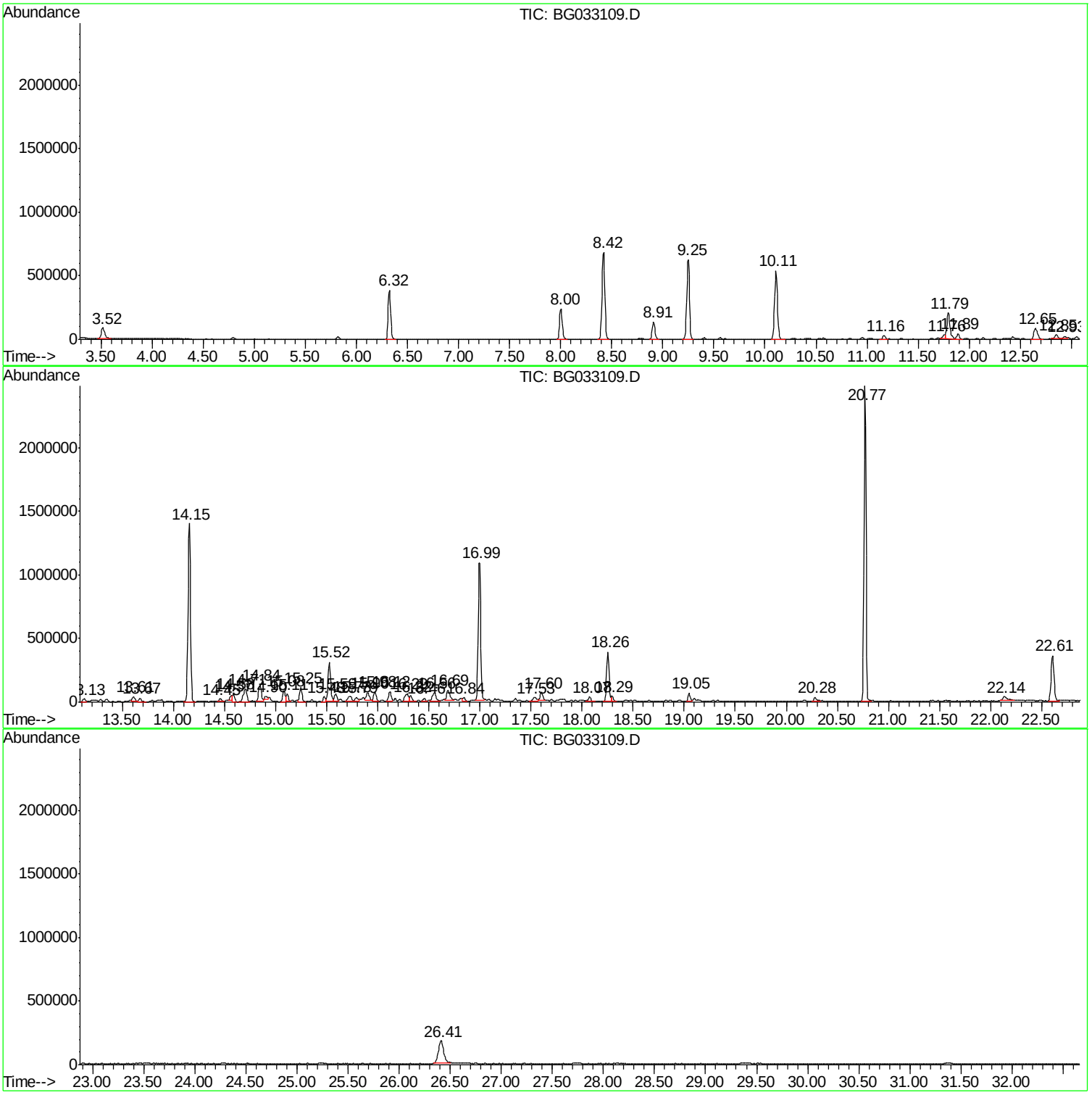
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.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 G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

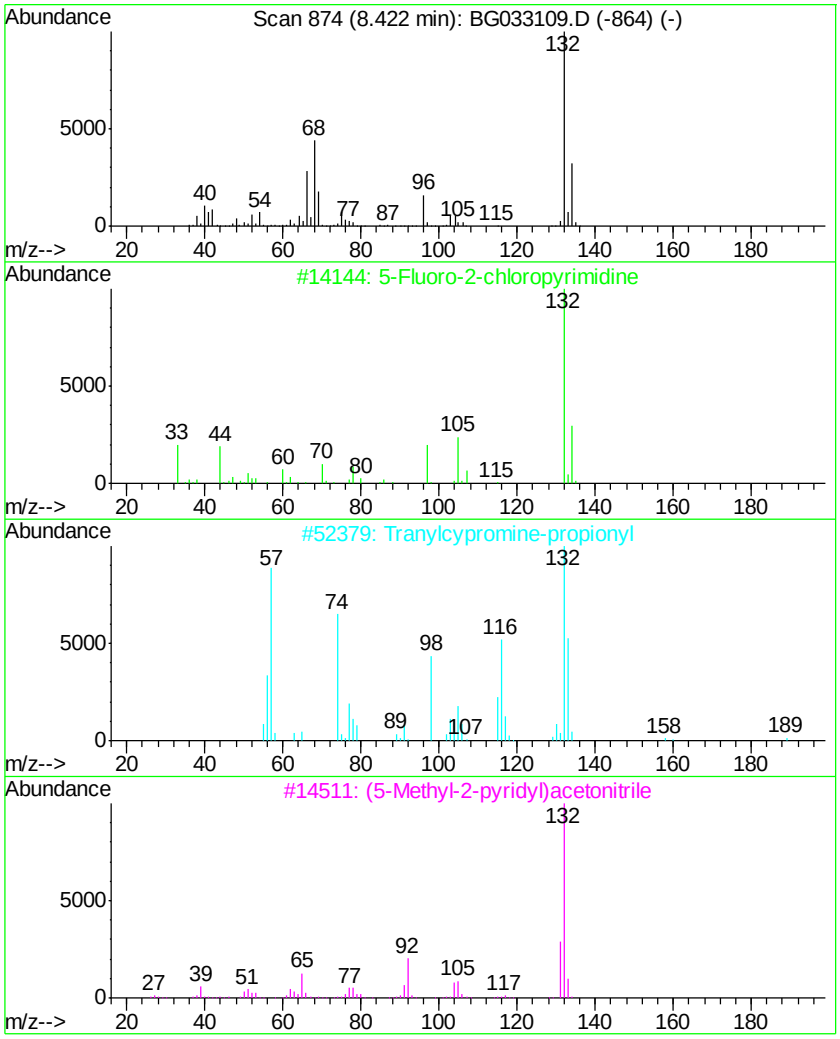
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

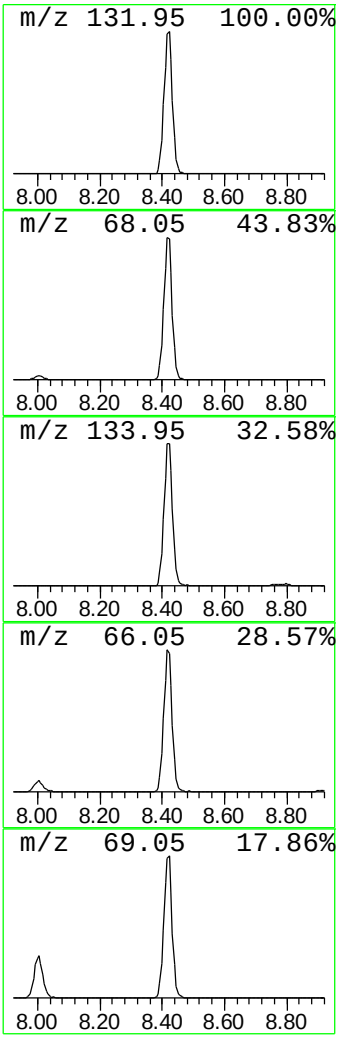
**********

Peak Number 2 unknown8.42 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.42 | 101.08 ng | 1281250 | 1,4-Dichlorobenzene-d4 | 8.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | (5-Methyl-2-pyridyl)acetonitrile | 132 | C8H8N2 | 1000241-93-9 | 10 |
| 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:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

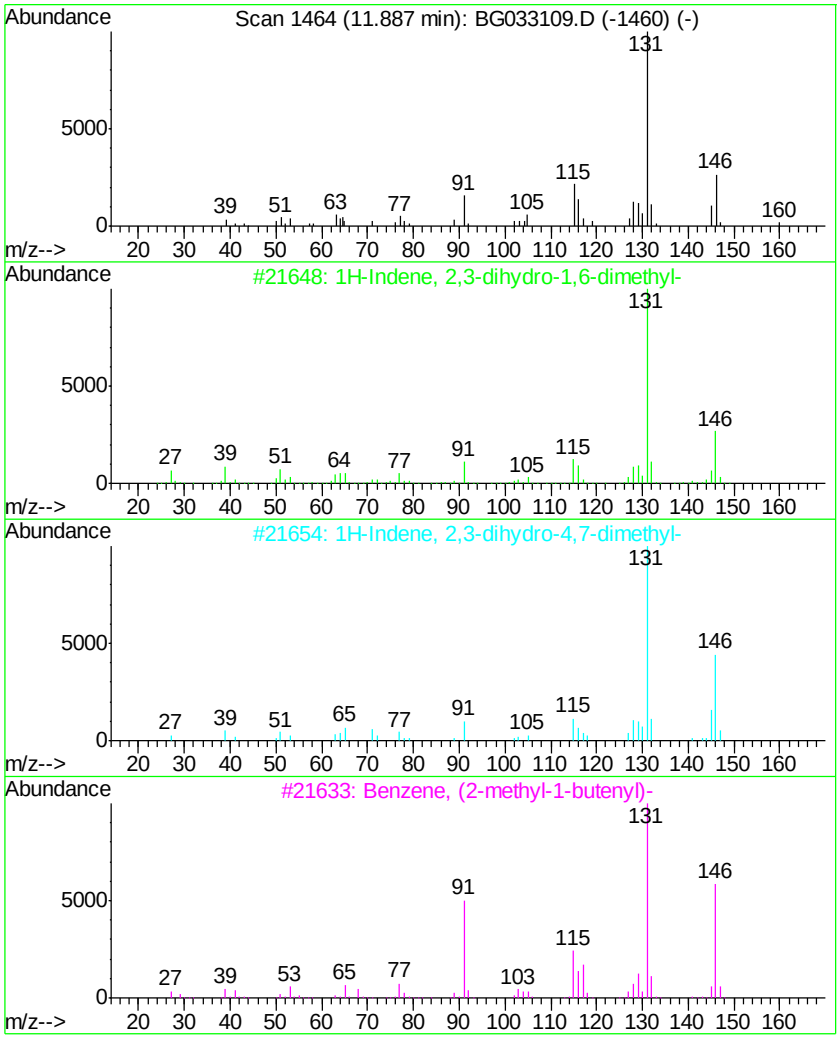
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

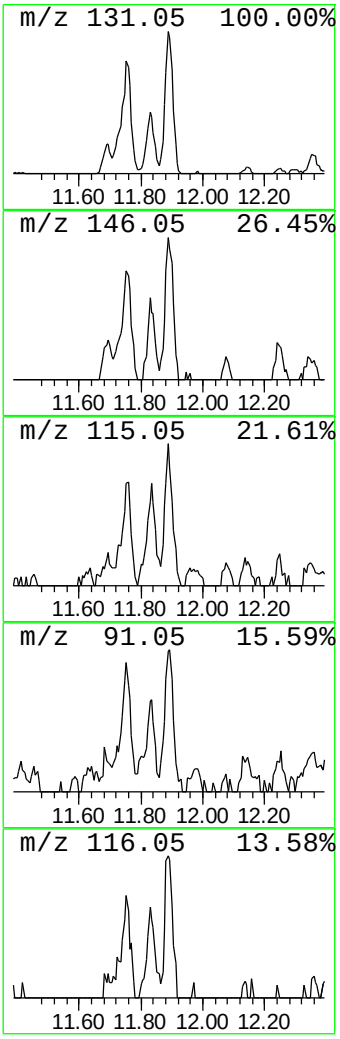
**********

Peak Number 4 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.89 | 3.54 ng | 76245 | Naphthalene-d8 | 11.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 94 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 94 |
| 3 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 94 |
| 4 | 1H-Indene, 2,3-dihydro-5,6-dimet... | 146 | C11H14 | 001075-22-5 | 91 |
| 5 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 91 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

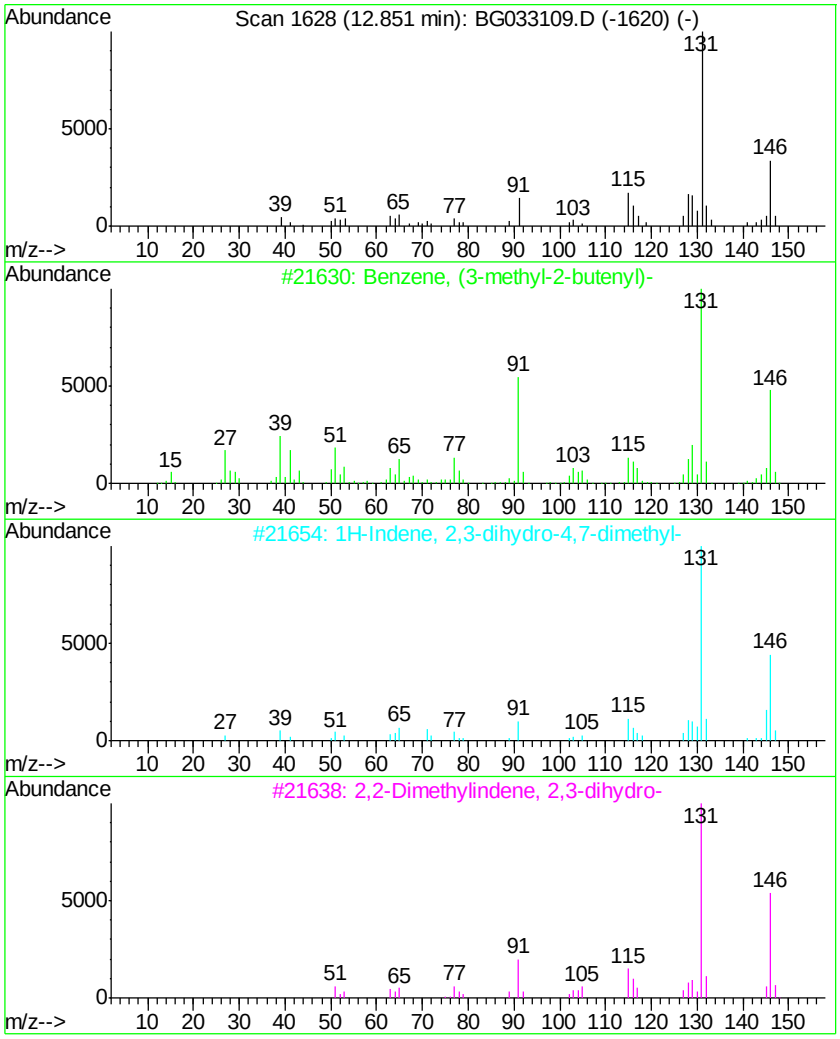
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

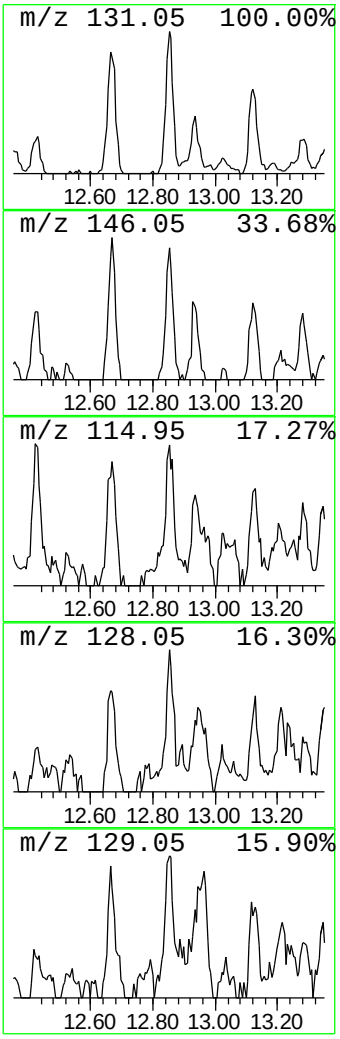
**********

Peak Number 5 Benzene, (3-methyl-2-butenyl)- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.85 | 3.19 ng | 68642 | Naphthalene-d8 | 11.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 95 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 93 |
| 3 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 91 |
| 4 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 90 |
| 5 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 90 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

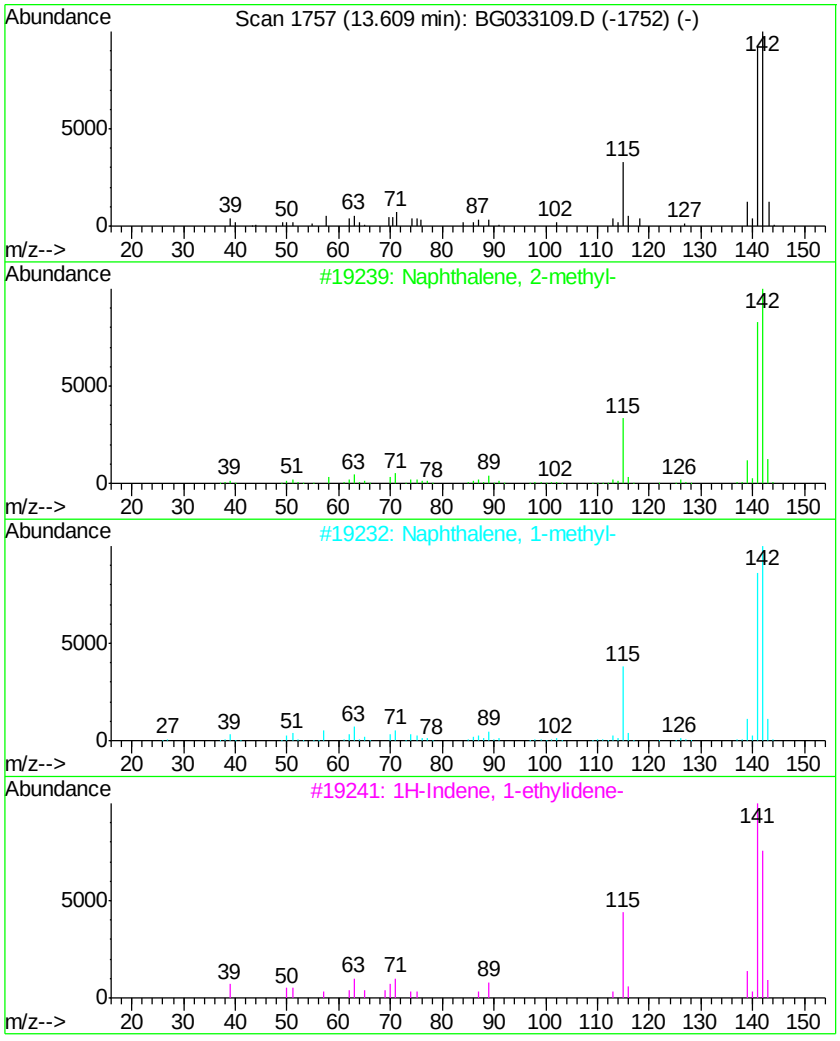
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

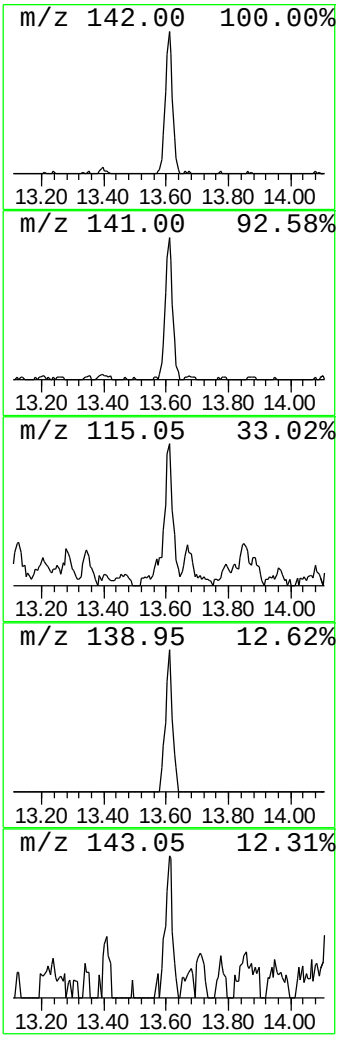
**********

Peak Number 6 Naphthalene, 1-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.61 | 3.27 ng | 70425 | Naphthalene-d8 | 11.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 95 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 94 |
| 3 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 91 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 5 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 86 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

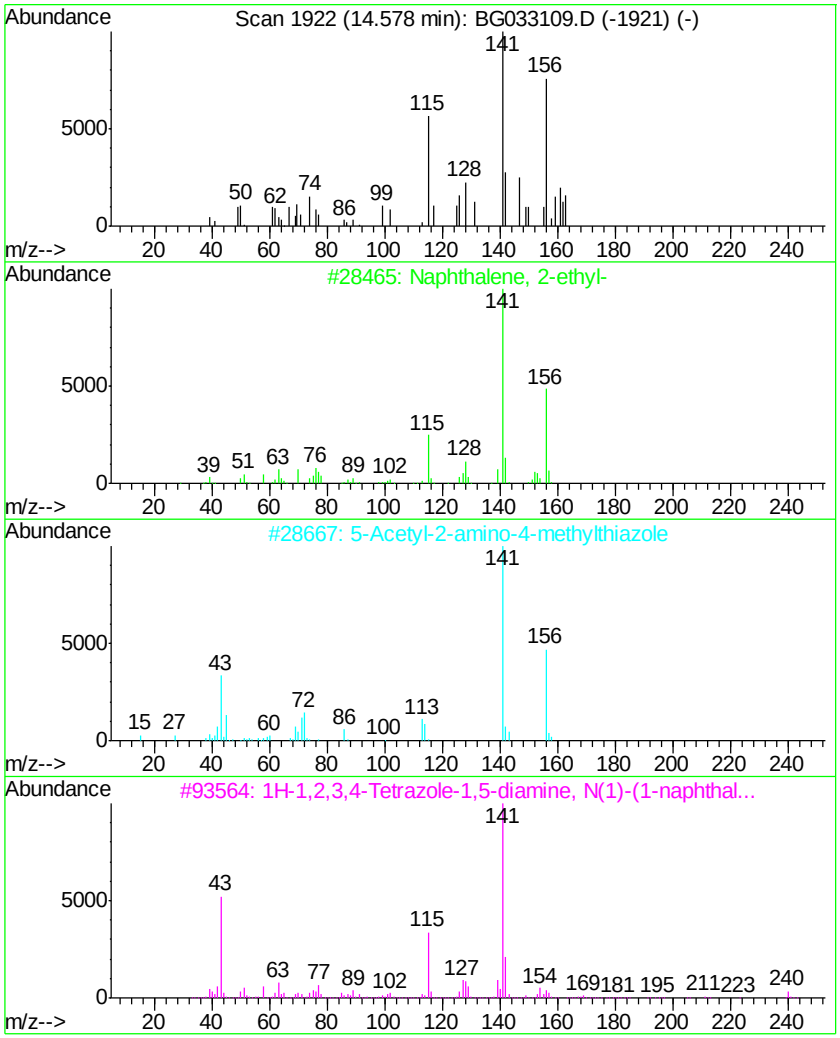
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

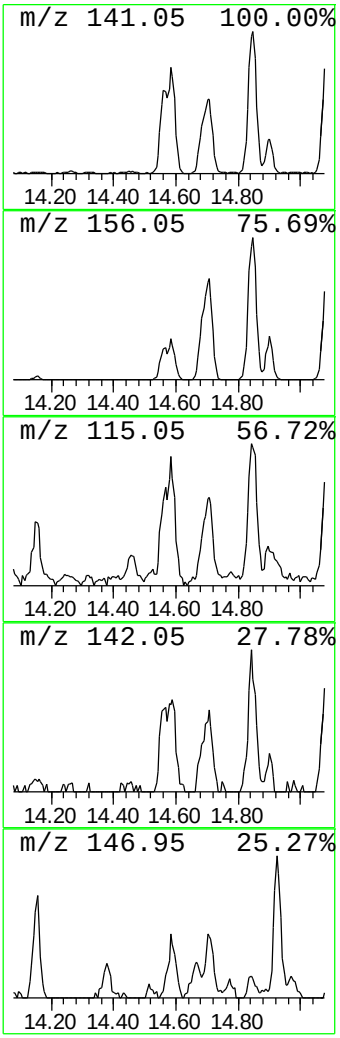
**********

Peak Number 7 Naphthalene, 2-ethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.58 | 3.45 ng | 93672 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 53 |
| 2 | 5-Acetyl-2-amino-4-methylthiazole | 156 | C6H8N2OS | 030748-47-1 | 47 |
| 3 | 1H-1,2,3,4-Tetrazole-1,5-diamine... | 240 | C12H12N6 | 1000337-84-1 | 43 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 42 |
| 5 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 33 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

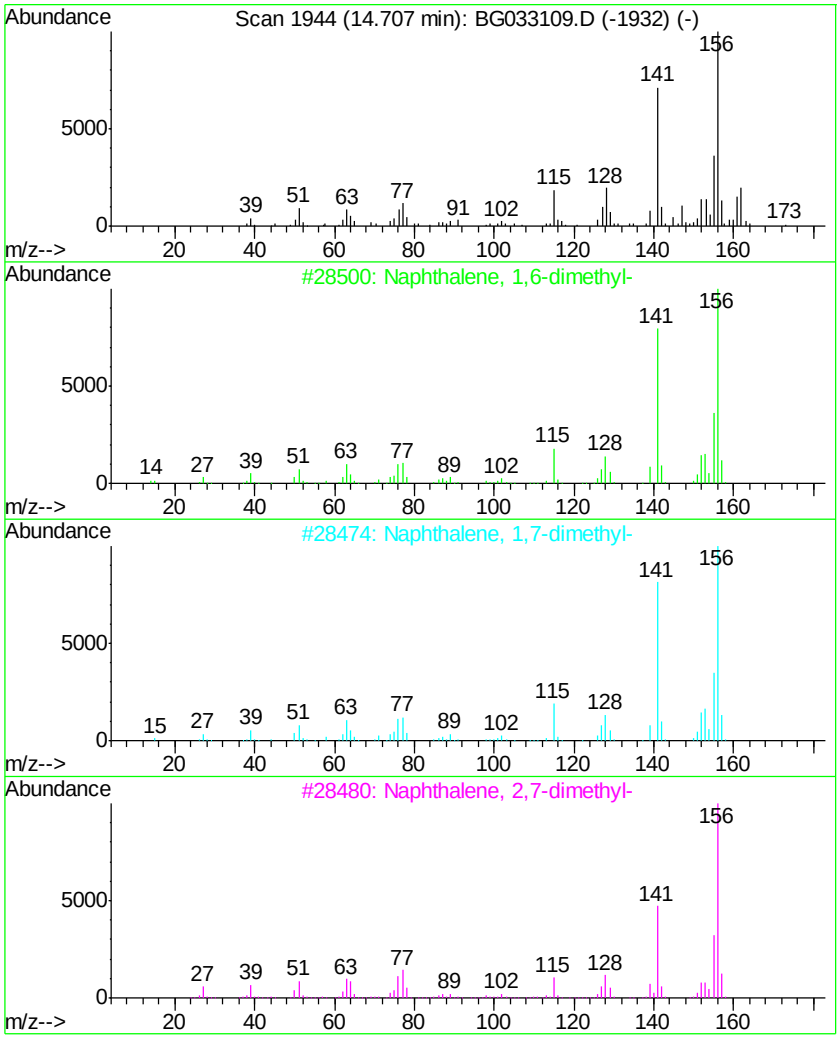
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

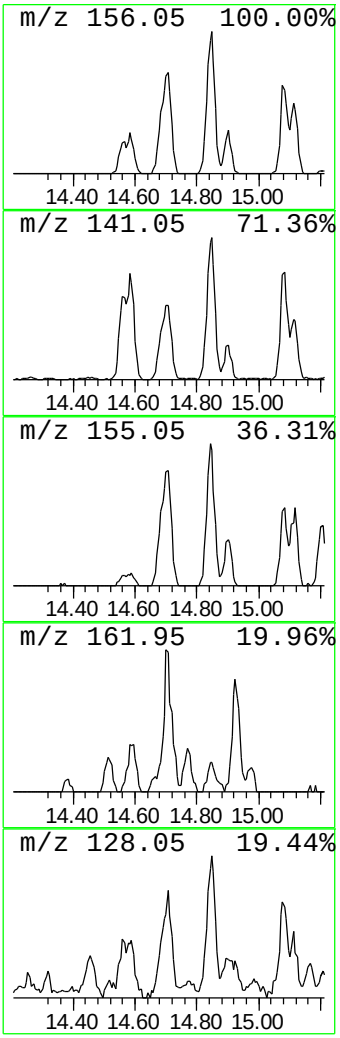
**********

Peak Number 8 Naphthalene, 1,6-dimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.71 | 8.87 ng | 240399 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 95 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

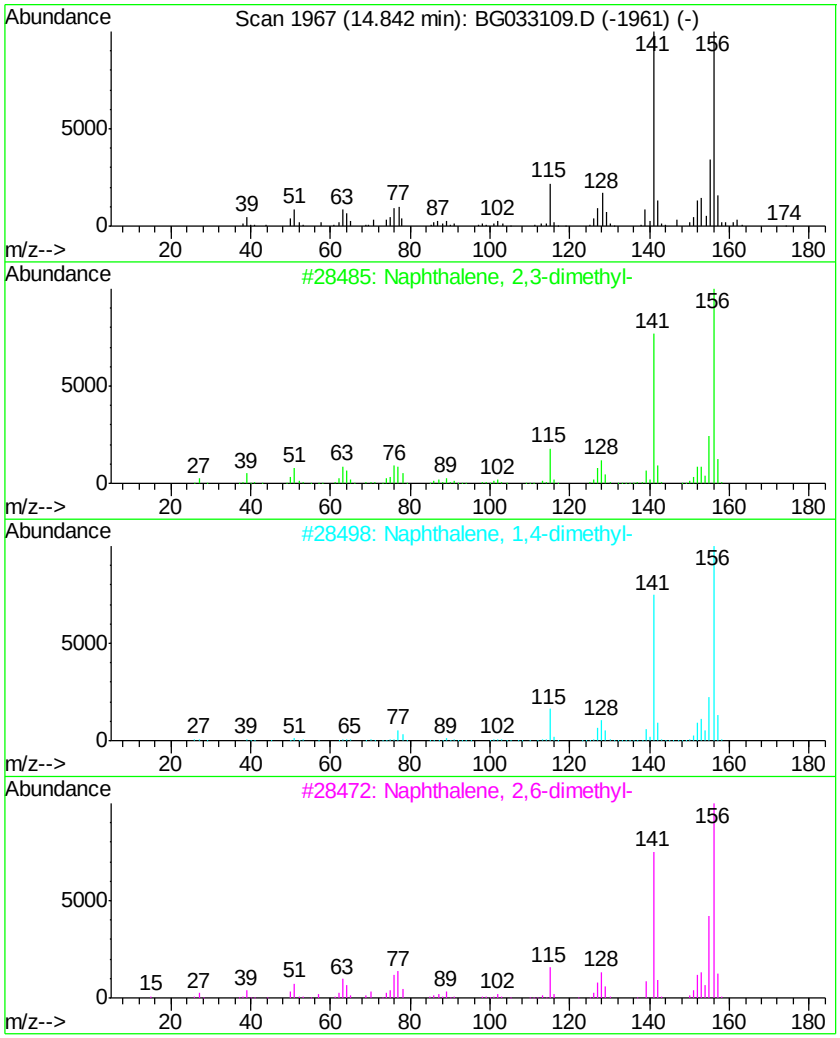
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

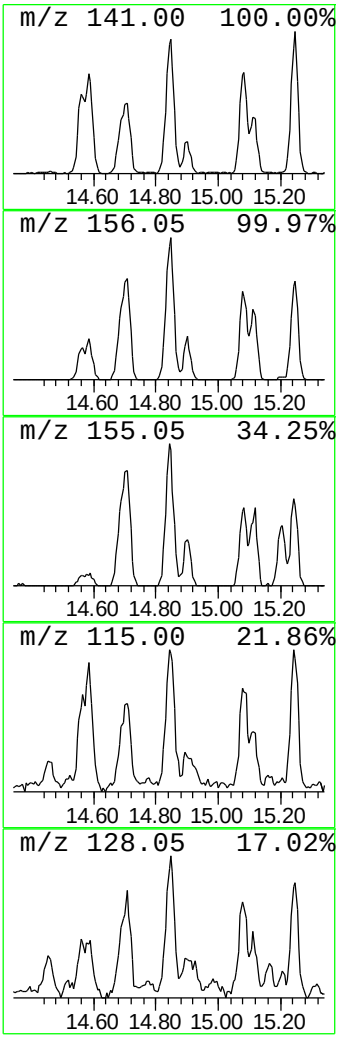
**********

Peak Number 9 Naphthalene, 2,3-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.84 | 8.74 ng | 236942 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 2 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 4 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

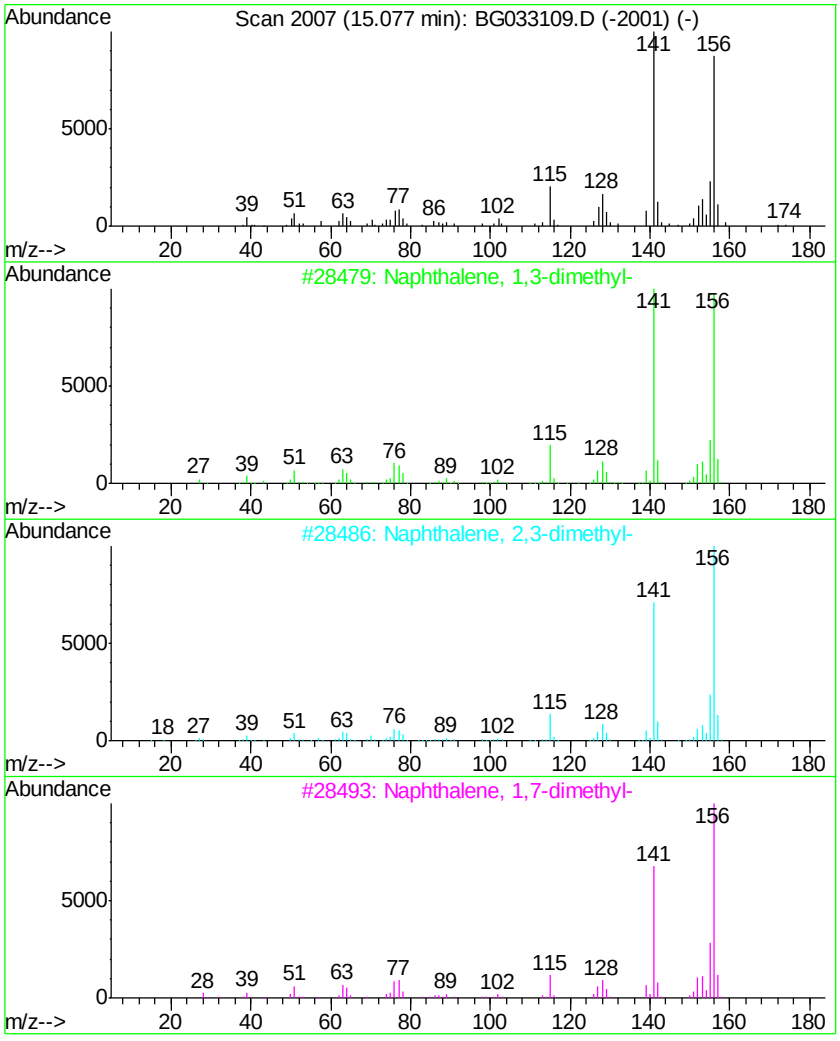
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

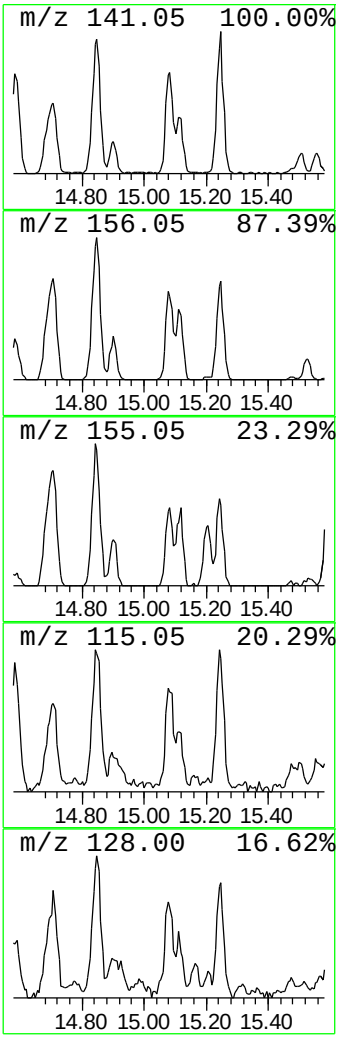
**********

Peak Number 10 Naphthalene, 1,3-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.08 | 5.93 ng | 160860 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 98 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 4 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

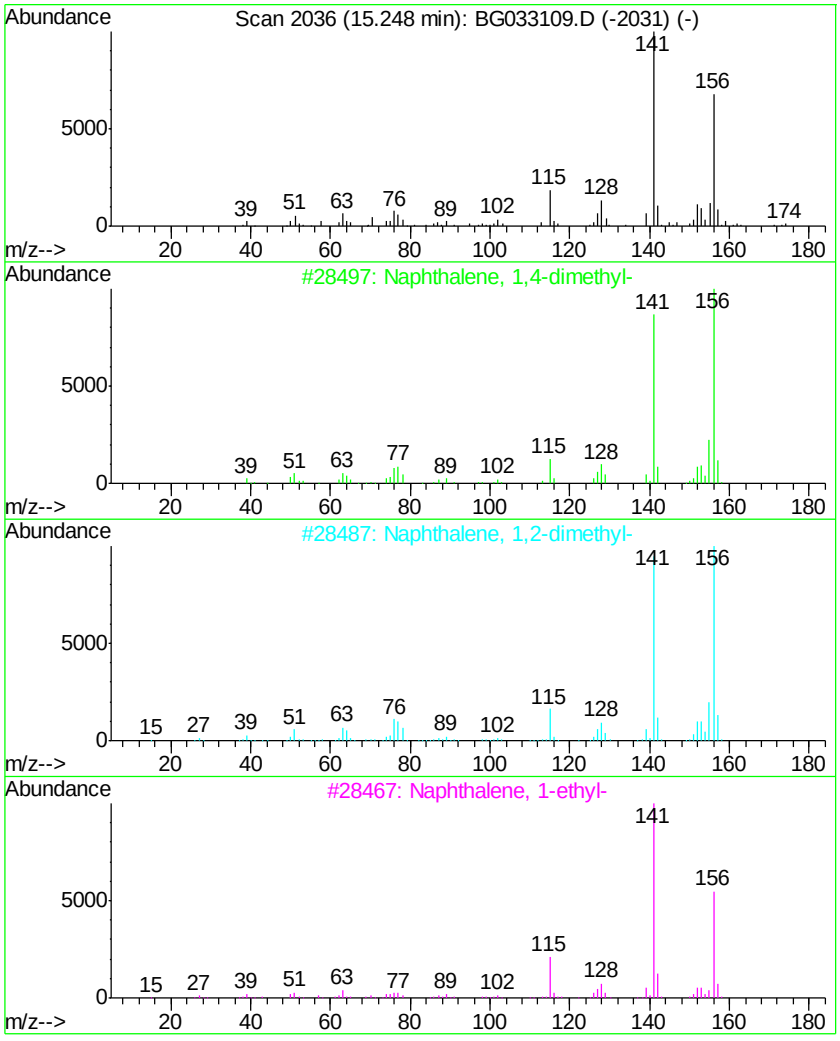
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

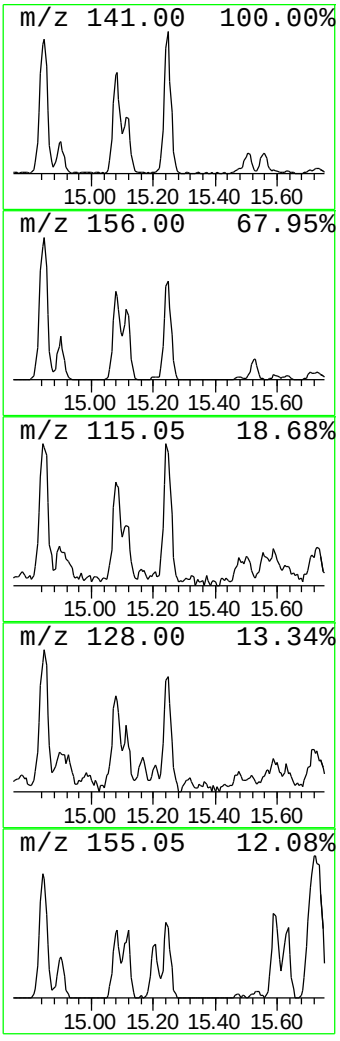
**********

Peak Number 11 Naphthalene, 1,4-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.25 | 6.45 ng | 174916 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 95 |
| 2 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 95 |
| 3 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 93 |
| 4 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 93 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 92 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

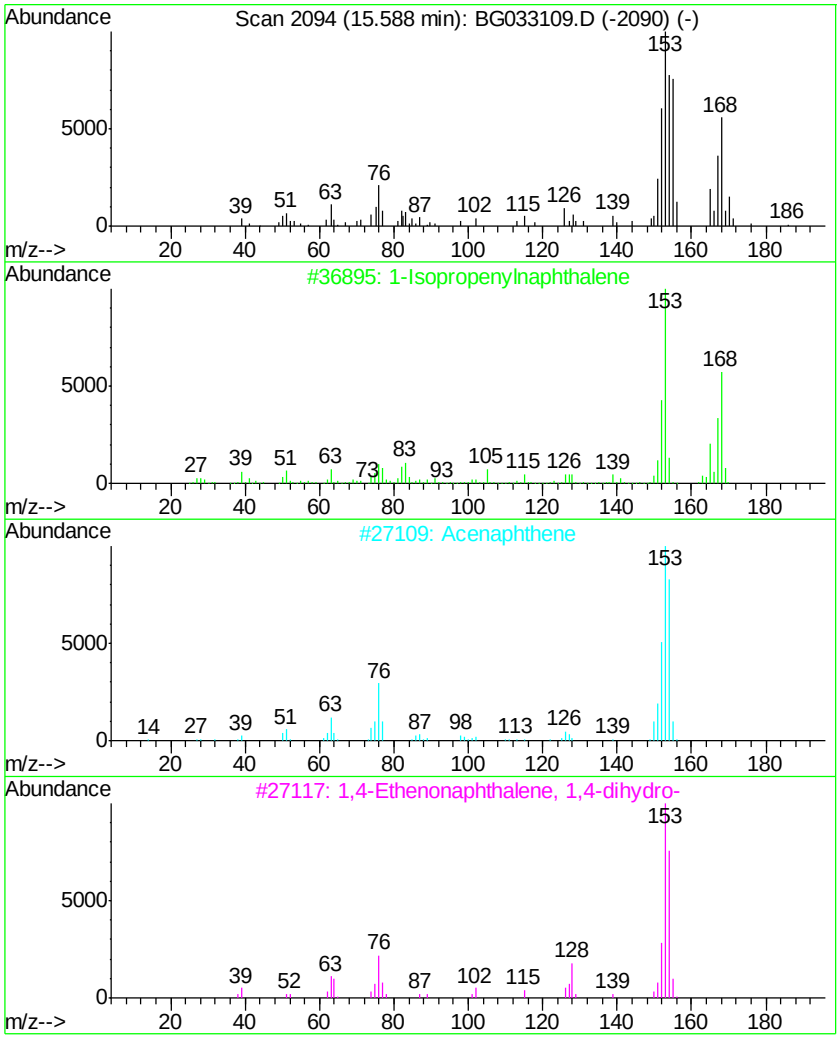
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

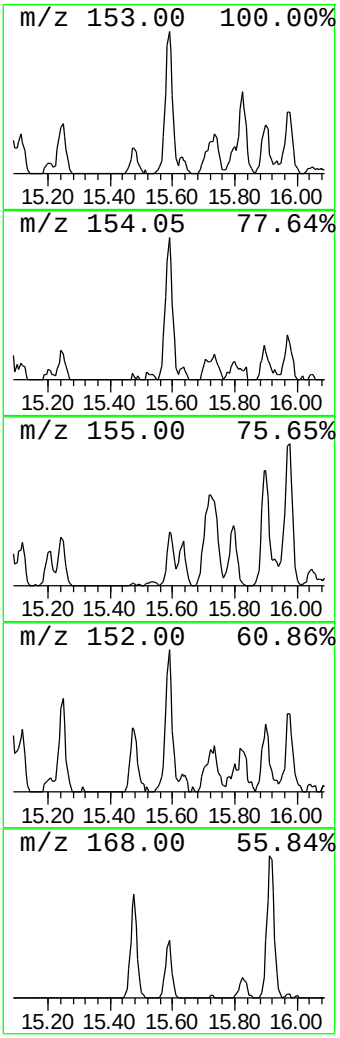
**********

Peak Number 12 1-Isopropenylnaphthalene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.59 | 3.42 ng | 92642 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Isopropenylnaphthalene | 168 | C13H12 | 001855-47-6 | 50 |
| 2 | Acenaphthene | 154 | C12H10 | 000083-32-9 | 46 |
| 3 | 1,4-Ethenonaphthalene, 1,4-dihydro- | 154 | C12H10 | 007322-47-6 | 38 |
| 4 | Naphthalene, 2-ethenyl- | 154 | C12H10 | 000827-54-3 | 38 |
| 5 | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12 | 002320-32-3 | 38 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

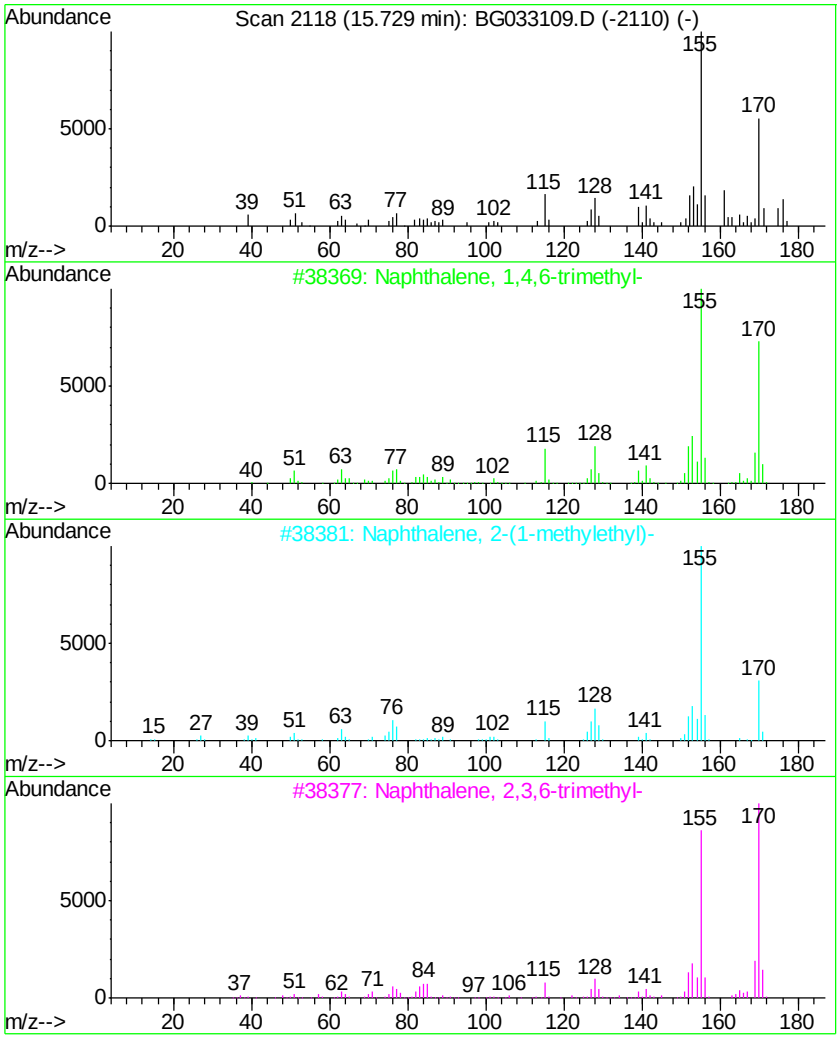
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

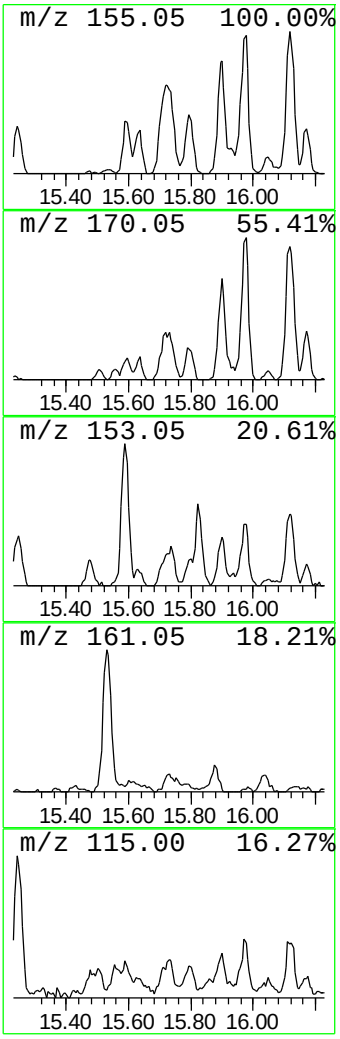
**********

Peak Number 13 Naphthalene, 1,4,6-trimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.73 | 4.02 ng | 108918 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 93 |
| 2 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 91 |
| 3 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 91 |
| 4 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 87 |
| 5 | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14 | 1000294-91-1 | 81 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

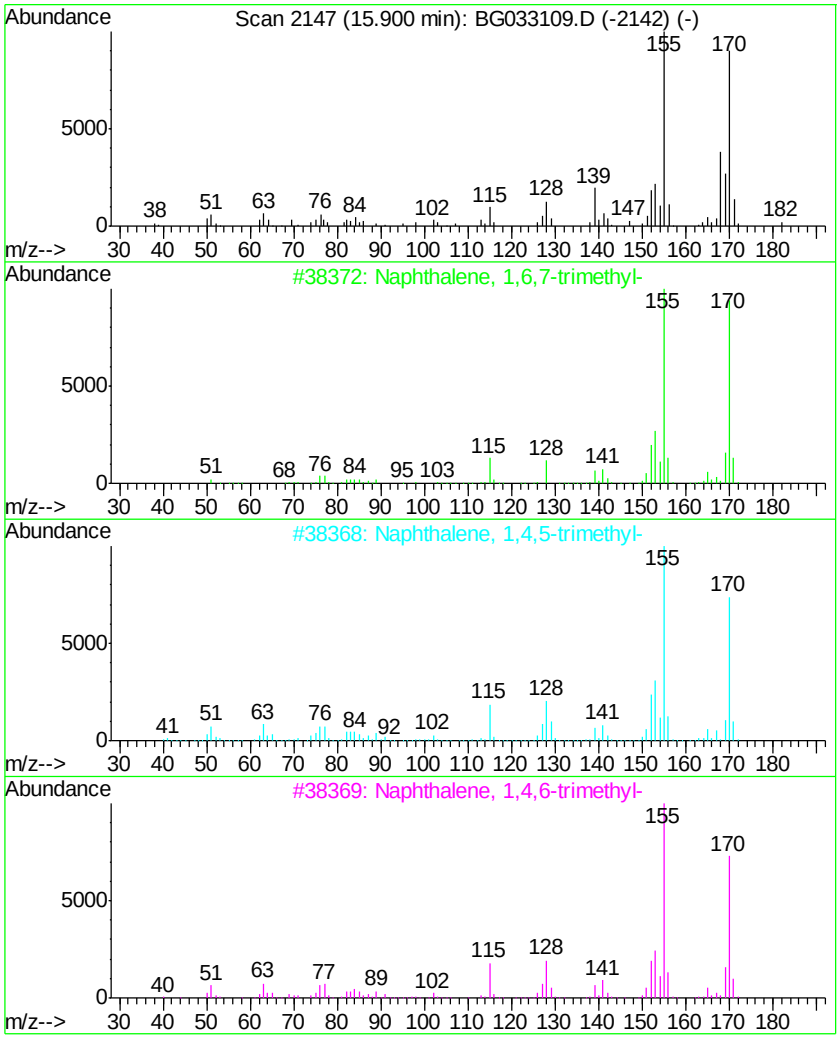
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

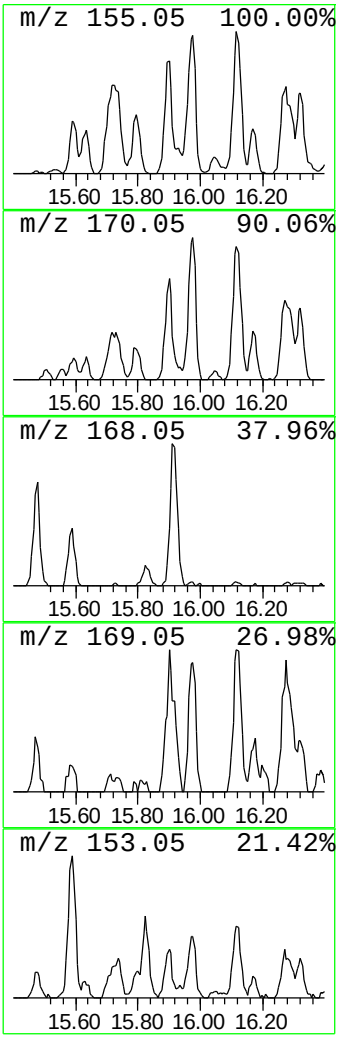
**********

Peak Number 14 Naphthalene, 1,6,7-trimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.90 | 4.78 ng | 129666 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 96 |
| 2 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 95 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 94 |
| 4 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 93 |
| 5 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 76 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

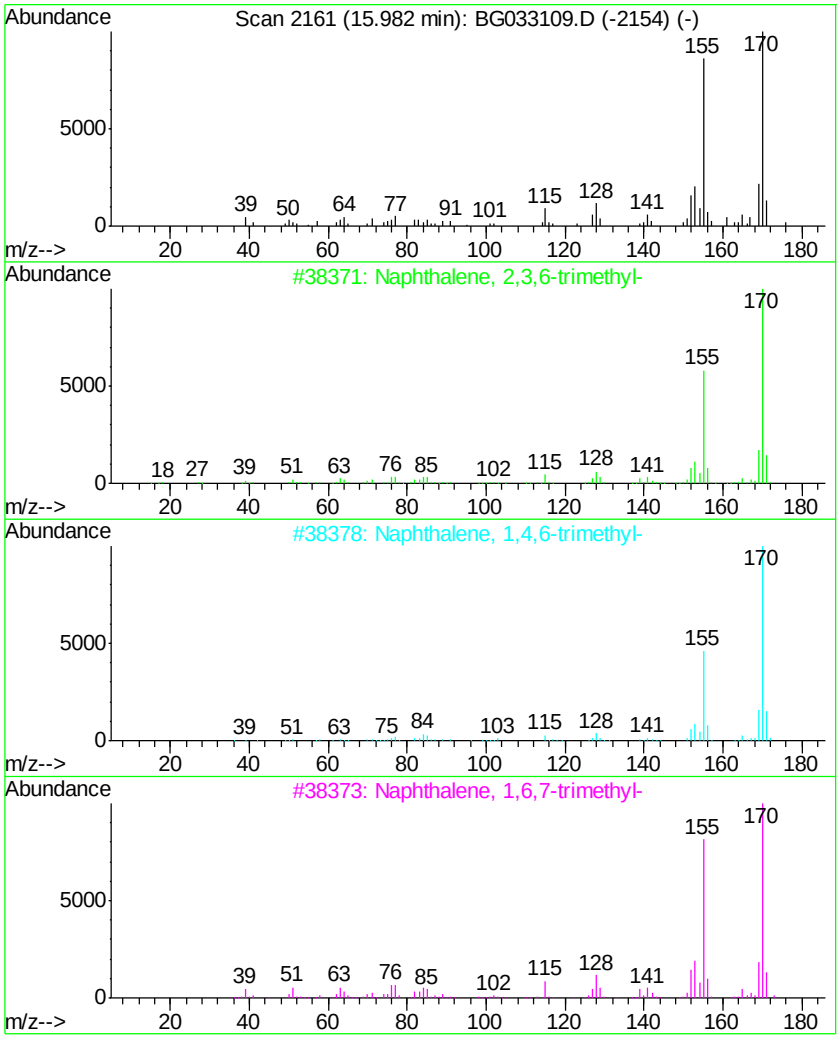
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

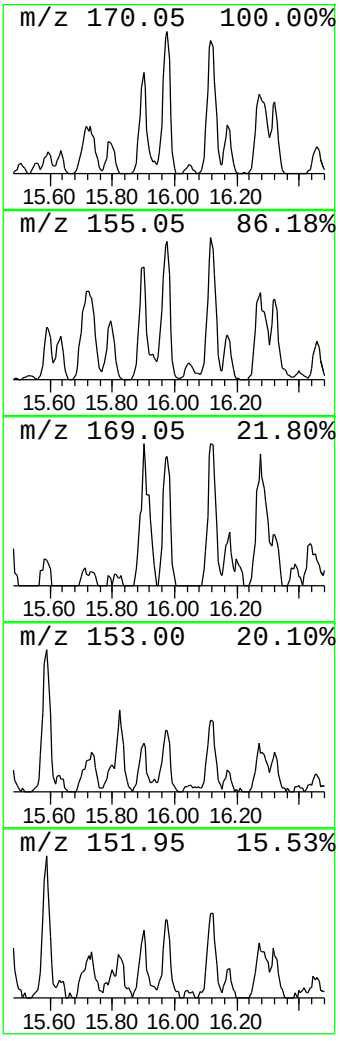
**********

Peak Number 15 Naphthalene, 2,3,6-trimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.98 | 4.53 ng | 122841 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 97 |
| 2 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 97 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 94 |
| 4 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 91 |
| 5 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 87 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

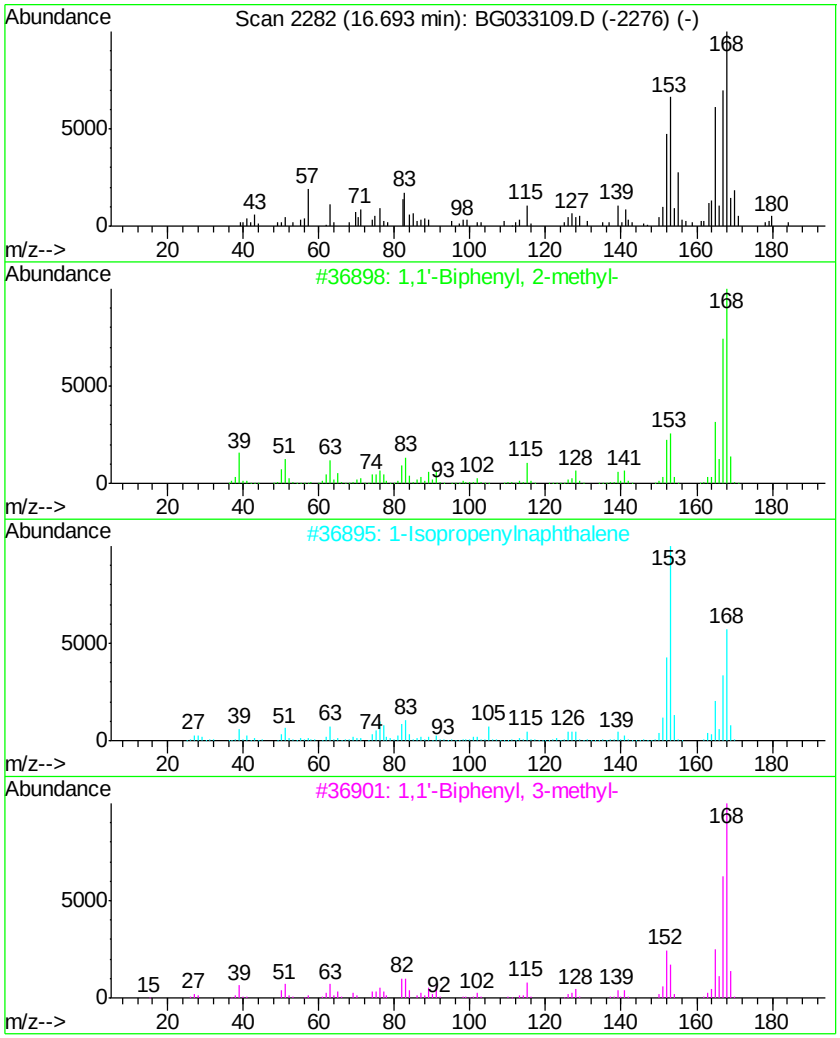
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

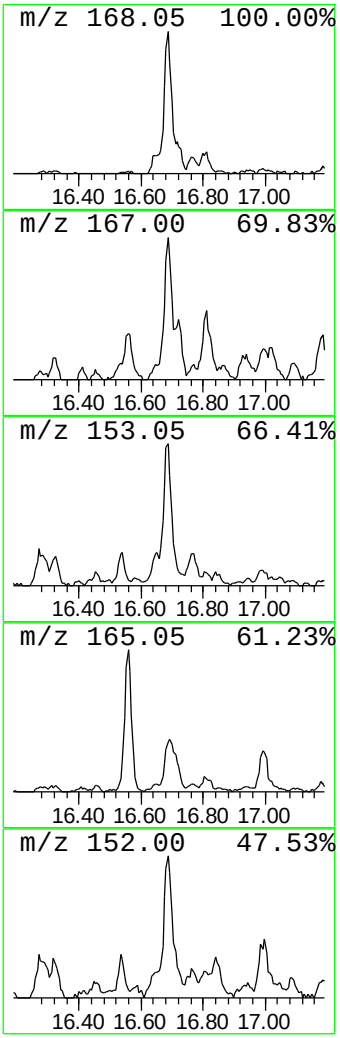
**********

Peak Number 18 1,1'-Biphenyl, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.69 | 5.81 ng | 157436 | Acenaphthene-d10 | 15.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 78 |
| 2 | 1-Isopropenylnaphthalene | 168 | C13H12 | 001855-47-6 | 70 |
| 3 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 60 |
| 4 | Naphthalene, 1-(2-propenyl)- | 168 | C13H12 | 002489-86-3 | 58 |
| 5 | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12 | 000644-08-6 | 49 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

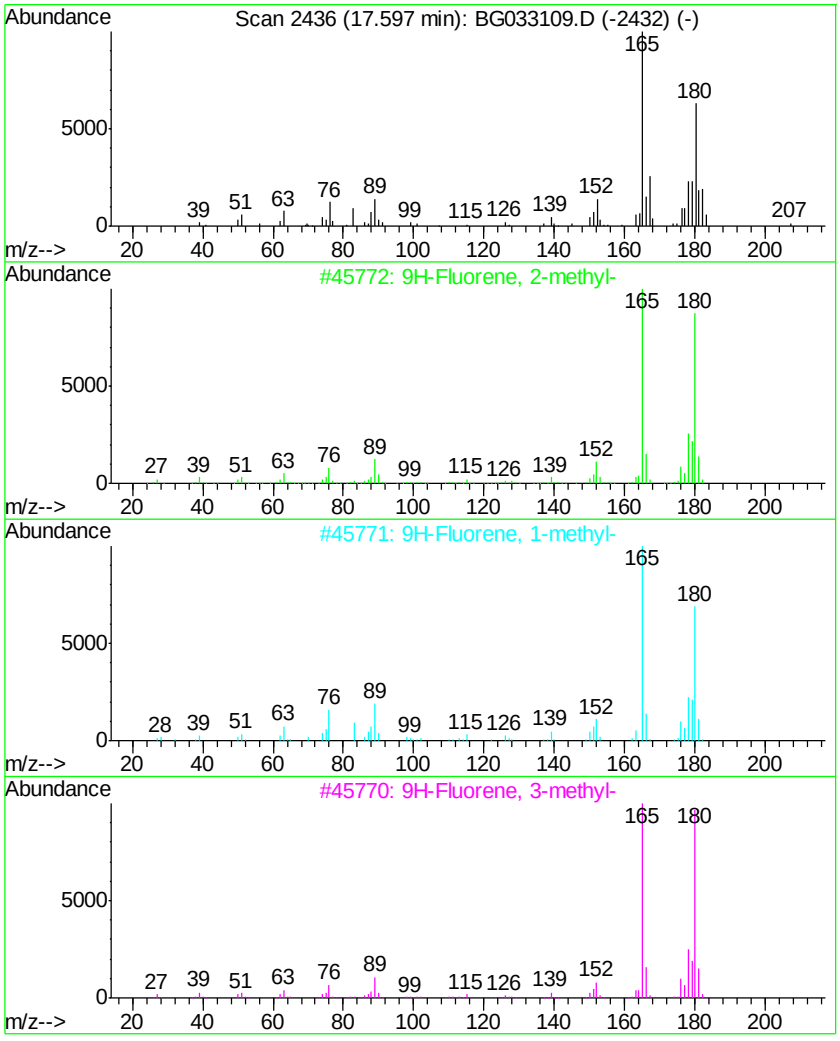
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

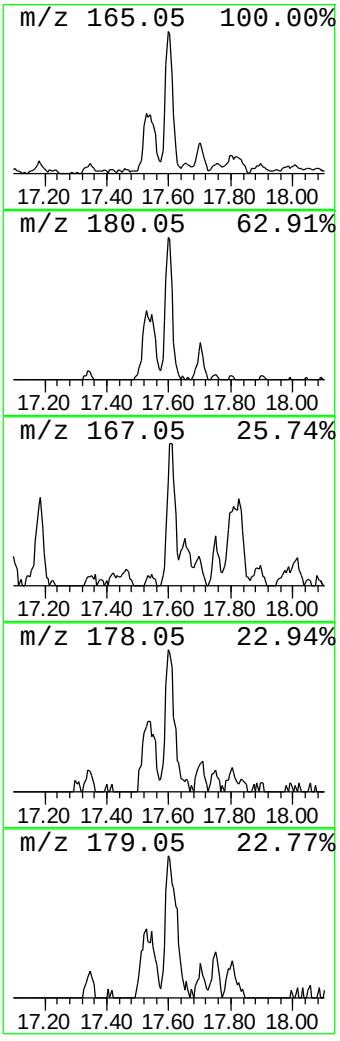
**********

Peak Number 19 9H-Fluorene, 2-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.60 | 3.13 ng | 104101 | Phenanthrene-d10 | 18.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 92 |
| 2 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 60 |
| 3 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 53 |
| 4 | Benzenethiol, 4-(1,1-dimethyleth... | 180 | C11H16S | 015570-10-2 | 50 |
| 5 | 4a,9a-Methano-9H-fluorene | 180 | C14H12 | 019540-84-2 | 49 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

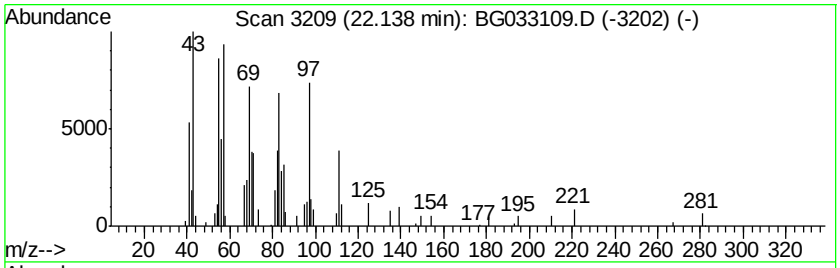
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

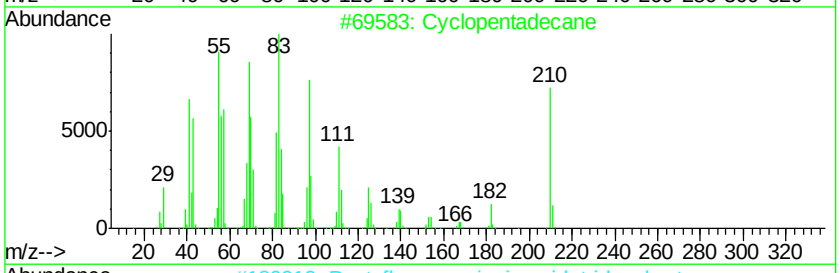
**********

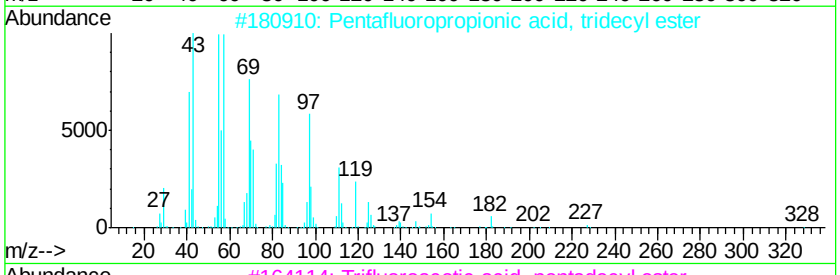
Peak Number 20 Cyclopentadecane Concentration Rank 18

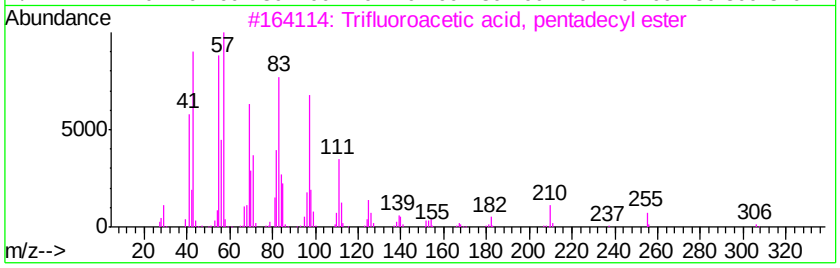
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.14 | 3.21 ng | 112049 | Chrysene-d12 | 22.61 |

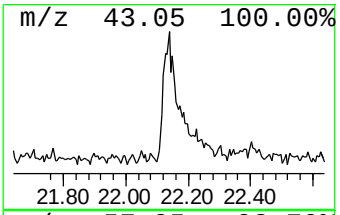
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 95 |
| 2 | Pentafluoropropionic acid, tride... | 346 | C16H27F5O2 | 959261-22-4 | 91 |
| 3 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 91 |
| 4 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 90 |
| 5 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 87 |

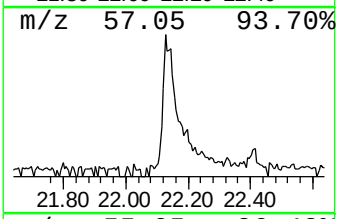


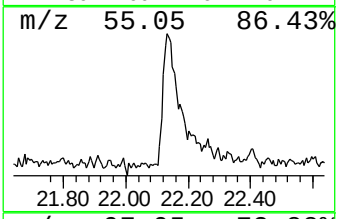



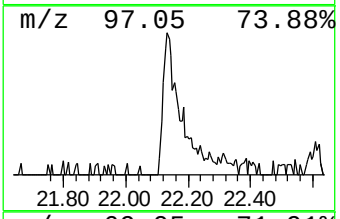



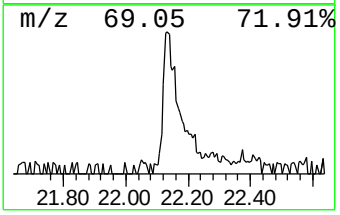



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG031218\
Data File : BG033109.D
Acq On : 13 Mar 2018 4:07
Operator : SJ/JU
Sample : J1867-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C19013071

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022118.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 |
| unknown8.42 | 8.42 | 101.1 | ng | 1281250 | 1 | 8.91 | 253517 | 20.0 |
| 1H-Indene, 2,3-di... | 11.89 | 3.5 | ng | 76245 | 2 | 11.79 | 430795 | 20.0 |
| Benzene, (3-methy... | 12.85 | 3.2 | ng | 68642 | 2 | 11.79 | 430795 | 20.0 |
| Naphthalene, 1-me... | 13.61 | 3.3 | ng | 70425 | 2 | 11.79 | 430795 | 20.0 |
| Naphthalene, 2-et... | 14.58 | 3.5 | ng | 93672 | 3 | 15.52 | 542269 | 20.0 |
| Naphthalene, 1,6-... | 14.71 | 8.9 | ng | 240399 | 3 | 15.52 | 542269 | 20.0 |
| Naphthalene, 2,3-... | 14.84 | 8.7 | ng | 236942 | 3 | 15.52 | 542269 | 20.0 |
| Naphthalene, 1,3-... | 15.08 | 5.9 | ng | 160860 | 3 | 15.52 | 542269 | 20.0 |
| Naphthalene, 1,4-... | 15.25 | 6.5 | ng | 174916 | 3 | 15.52 | 542269 | 20.0 |
| 1-Isopropenylnaph... | 15.59 | 3.4 | ng | 92642 | 3 | 15.52 | 542269 | 20.0 |
| Naphthalene, 1,4,... | 15.73 | 4.0 | ng | 108918 | 3 | 15.52 | 542269 | 20.0 |
| Naphthalene, 1,6,... | 15.90 | 4.8 | ng | 129666 | 3 | 15.52 | 542269 | 20.0 |
| Naphthalene, 2,3,... | 15.98 | 4.5 | ng | 122841 | 3 | 15.52 | 542269 | 20.0 |
| 1,1'-Biphenyl, 2-... | 16.69 | 5.8 | ng | 157436 | 3 | 15.52 | 542269 | 20.0 |
| 9H-Fluorene, 2-me... | 17.60 | 3.1 | ng | 104101 | 4 | 18.26 | 666015 | 20.0 |
| Cyclopentadecane | 22.14 | 3.2 | ng | 112049 | 5 | 22.61 | 698386 | 20.0 |