LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

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_G\METHODS\8270-BG030419.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 | 3.194 | 12 | 18 | 26 | rBV | 235899 | 420585 | 14.10% | 2.443% |
| 2 | 3.264 | 26 | 30 | 40 | rVV | 438742 | 631268 | 21.16% | 3.666% |
| 3 | 3.346 | 40 | 44 | 50 | rVV5 | 19897 | 40881 | 1.37% | 0.237% |
| 4 | 3.493 | 63 | 69 | 72 | rBV3 | 34574 | 75216 | 2.52% | 0.437% |
| 5 | 3.523 | 72 | 74 | 78 | rVB2 | 29174 | 36774 | 1.23% | 0.214% |
| 6 | 3.593 | 83 | 86 | 90 | rVV | 36920 | 55281 | 1.85% | 0.321% |
| 7 | 3.634 | 90 | 93 | 102 | rVB2 | 34862 | 54095 | 1.81% | 0.314% |
| 8 | 3.805 | 118 | 122 | 133 | rVB2 | 37877 | 67507 | 2.26% | 0.392% |
| 9 | 3.969 | 144 | 150 | 151 | rBV4 | 21118 | 35237 | 1.18% | 0.205% |
| 10 | 4.063 | 159 | 166 | 171 | rBV | 83597 | 131103 | 4.39% | 0.761% |
| 11 | 4.186 | 183 | 187 | 193 | rVB3 | 19280 | 31883 | 1.07% | 0.185% |
| 12 | 4.327 | 207 | 211 | 220 | rVB2 | 67514 | 124609 | 4.18% | 0.724% |
| 13 | 4.592 | 251 | 256 | 264 | rVB5 | 41462 | 85996 | 2.88% | 0.499% |
| 14 | 4.780 | 281 | 288 | 293 | rBV | 62593 | 101932 | 3.42% | 0.592% |
| 15 | 5.050 | 325 | 334 | 337 | rBV3 | 22748 | 39398 | 1.32% | 0.229% |
| 16 | 5.085 | 337 | 340 | 345 | rVB2 | 33173 | 50892 | 1.71% | 0.296% |
| 17 | 5.303 | 372 | 377 | 383 | rVB3 | 25652 | 48345 | 1.62% | 0.281% |
| 18 | 5.420 | 393 | 397 | 401 | rBV | 40251 | 63515 | 2.13% | 0.369% |
| 19 | 5.684 | 433 | 442 | 448 | rBV | 293105 | 477507 | 16.00% | 2.773% |
| 20 | 5.925 | 474 | 483 | 492 | rBV5 | 24771 | 49627 | 1.66% | 0.288% |
| 21 | 6.295 | 539 | 546 | 553 | rVB6 | 18940 | 40778 | 1.37% | 0.237% |
| 22 | 6.577 | 589 | 594 | 598 | rBV2 | 22943 | 39947 | 1.34% | 0.232% |
| 23 | 6.853 | 636 | 641 | 646 | rBV3 | 37423 | 62084 | 2.08% | 0.361% |
| 24 | 7.282 | 709 | 714 | 728 | rVB2 | 190225 | 409080 | 13.71% | 2.376% |
| 25 | 7.511 | 745 | 753 | 761 | rVB2 | 18566 | 37129 | 1.24% | 0.216% |
| 26 | 7.664 | 772 | 779 | 792 | rBV | 500549 | 922851 | 30.93% | 5.360% |
| 27 | 8.140 | 852 | 860 | 866 | rBV | 119605 | 202642 | 6.79% | 1.177% |
| 28 | 8.463 | 908 | 915 | 920 | rBV | 416339 | 734808 | 24.63% | 4.268% |
| 29 | 8.510 | 920 | 923 | 934 | rVB | 82520 | 132852 | 4.45% | 0.772% |
| 30 | 8.616 | 936 | 941 | 946 | rVB | 32100 | 51639 | 1.73% | 0.300% |
| 31 | 8.768 | 961 | 967 | 971 | rBV5 | 14138 | 31059 | 1.04% | 0.180% |
| 32 | 8.815 | 971 | 975 | 981 | rVB3 | 23465 | 39680 | 1.33% | 0.230% |
| 33 | 8.927 | 989 | 994 | 1000 | rVB | 24697 | 39552 | 1.33% | 0.230% |
| 34 | 9.056 | 1010 | 1016 | 1024 | rBV6 | 18183 | 37146 | 1.24% | 0.216% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

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_G\METHODS\8270-BG030419.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.244 | 1039 | 1048 | 1053 | rBV5 | 14712 | 31437 | 1.05% | 0.183% |
| 36 | 9.315 | 1053 | 1060 | 1069 | rVV2 | 455509 | 819360 | 27.46% | 4.759% |
| 37 | 10.196 | 1205 | 1210 | 1218 | rVB4 | 15269 | 32531 | 1.09% | 0.189% |
| 38 | 10.960 | 1329 | 1340 | 1351 | rVB | 176877 | 374654 | 12.56% | 2.176% |
| 39 | 11.571 | 1432 | 1444 | 1455 | rBV2 | 71843 | 196487 | 6.58% | 1.141% |
| 40 | 11.659 | 1455 | 1459 | 1465 | rVV3 | 17905 | 39360 | 1.32% | 0.229% |
| 41 | 11.976 | 1507 | 1513 | 1521 | rVB2 | 38431 | 74396 | 2.49% | 0.432% |
| 42 | 12.176 | 1539 | 1547 | 1554 | rBV6 | 18392 | 52220 | 1.75% | 0.303% |
| 43 | 12.246 | 1554 | 1559 | 1564 | rBV2 | 37744 | 72926 | 2.44% | 0.424% |
| 44 | 12.334 | 1570 | 1574 | 1583 | rVB2 | 69455 | 128779 | 4.32% | 0.748% |
| 45 | 12.751 | 1638 | 1645 | 1650 | rBV | 62610 | 103193 | 3.46% | 0.599% |
| 46 | 12.822 | 1650 | 1657 | 1661 | rBV5 | 21574 | 43471 | 1.46% | 0.252% |
| 47 | 12.881 | 1661 | 1667 | 1673 | rVV7 | 19309 | 52182 | 1.75% | 0.303% |
| 48 | 12.986 | 1680 | 1685 | 1694 | rVB9 | 12397 | 35081 | 1.18% | 0.204% |
| 49 | 13.304 | 1734 | 1739 | 1745 | rBV7 | 20122 | 46363 | 1.55% | 0.269% |
| 50 | 13.386 | 1746 | 1753 | 1760 | rVB | 1136692 | 1803684 | 60.45% | 10.476% |
| 51 | 13.938 | 1843 | 1847 | 1852 | rVB2 | 31998 | 51628 | 1.73% | 0.300% |
| 52 | 14.208 | 1883 | 1893 | 1898 | rBV | 72501 | 111357 | 3.73% | 0.647% |
| 53 | 14.766 | 1981 | 1988 | 1998 | rBV2 | 316018 | 514484 | 17.24% | 2.988% |
| 54 | 16.252 | 2234 | 2241 | 2256 | rBV | 927377 | 1496272 | 50.14% | 8.690% |
| 55 | 17.510 | 2449 | 2455 | 2462 | rVB | 439491 | 665211 | 22.29% | 3.864% |
| 56 | 18.361 | 2595 | 2600 | 2608 | rBV2 | 35683 | 65102 | 2.18% | 0.378% |
| 57 | 20.106 | 2890 | 2897 | 2902 | rBV | 2173591 | 2983906 | 100.00% | 17.330% |
| 58 | 21.398 | 3110 | 3117 | 3120 | rBV6 | 23754 | 51869 | 1.74% | 0.301% |
| 59 | 21.798 | 3178 | 3185 | 3194 | rVB | 446848 | 753802 | 25.26% | 4.378% |
| 60 | 22.562 | 3310 | 3315 | 3320 | rBV2 | 27942 | 46197 | 1.55% | 0.268% |
| 61 | 23.272 | 3430 | 3436 | 3443 | rVB2 | 42971 | 82033 | 2.75% | 0.476% |
| 62 | 24.101 | 3570 | 3577 | 3586 | rVB2 | 46278 | 101109 | 3.39% | 0.587% |
| 63 | 25.082 | 3735 | 3744 | 3748 | rBV | 45896 | 119253 | 4.00% | 0.693% |
| 64 | 25.158 | 3748 | 3757 | 3770 | rVB2 | 231254 | 708800 | 23.75% | 4.117% |
| 65 | 26.257 | 3935 | 3944 | 3957 | rVB4 | 33534 | 98467 | 3.30% | 0.572% |
| 66 | 27.661 | 4174 | 4183 | 4193 | rVB8 | 16671 | 59294 | 1.99% | 0.344% |

Sum of corrected areas: 17217806

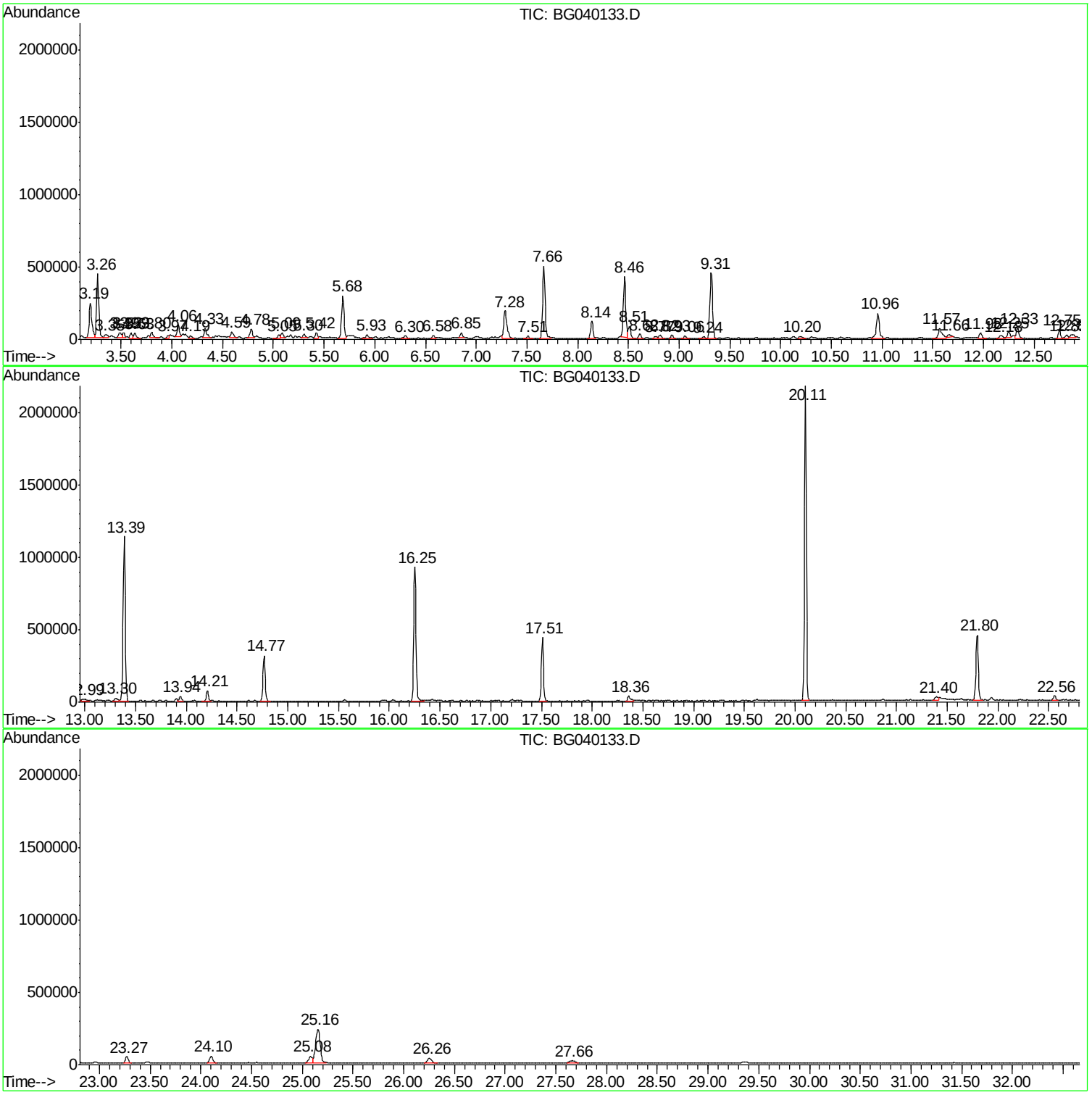
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

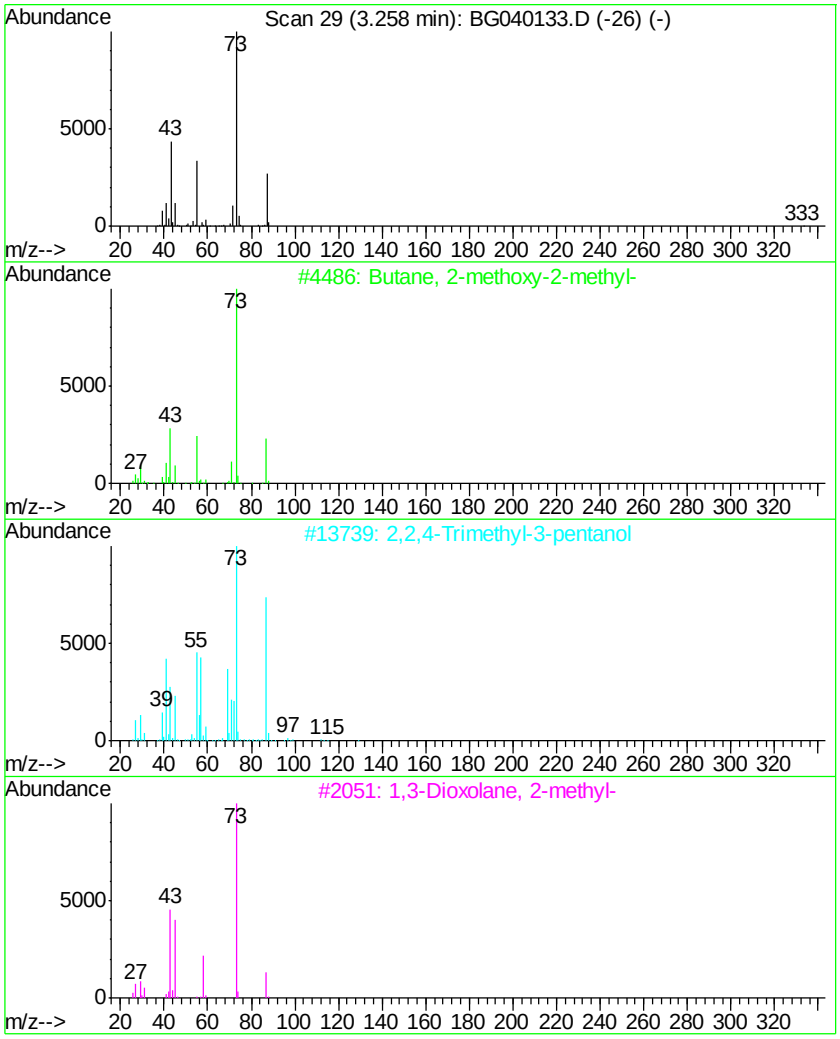
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

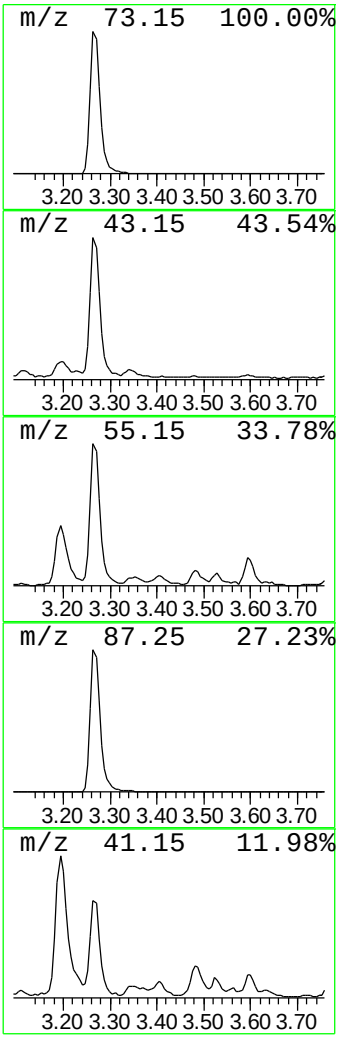
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.26 | 62.30 ng | 631268 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 38 |
| 4 | 3-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000600-36-2 | 25 |
| 5 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 12 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

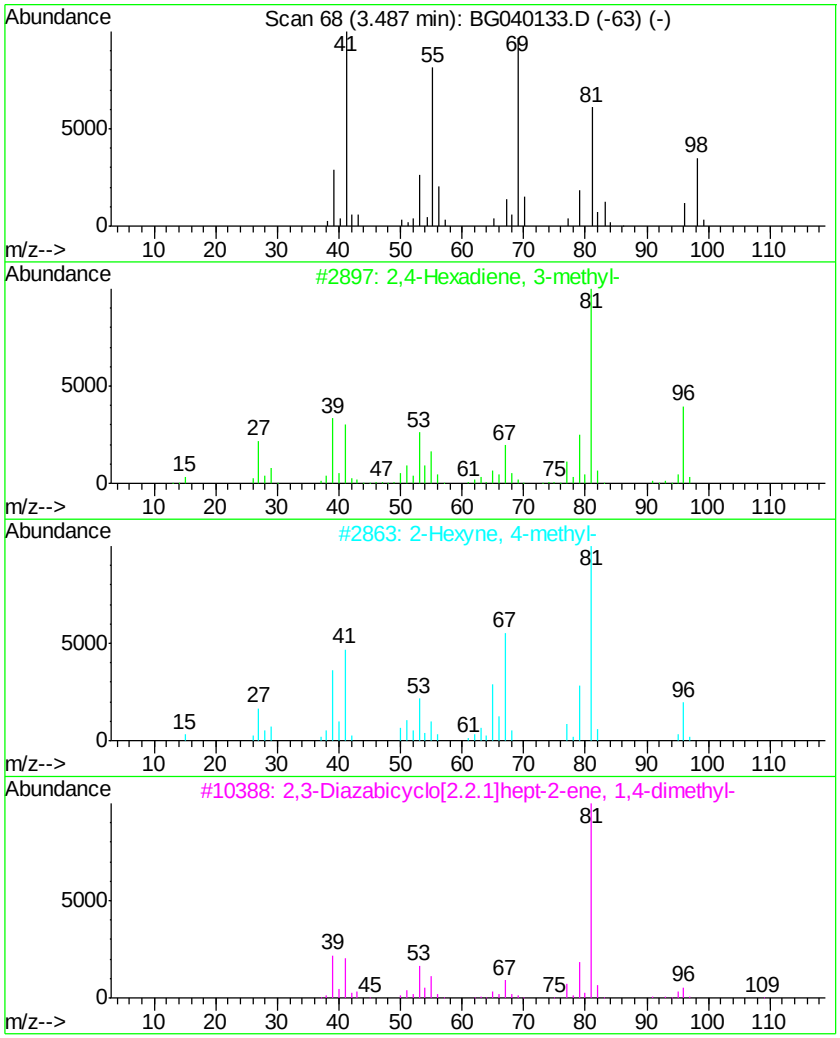
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

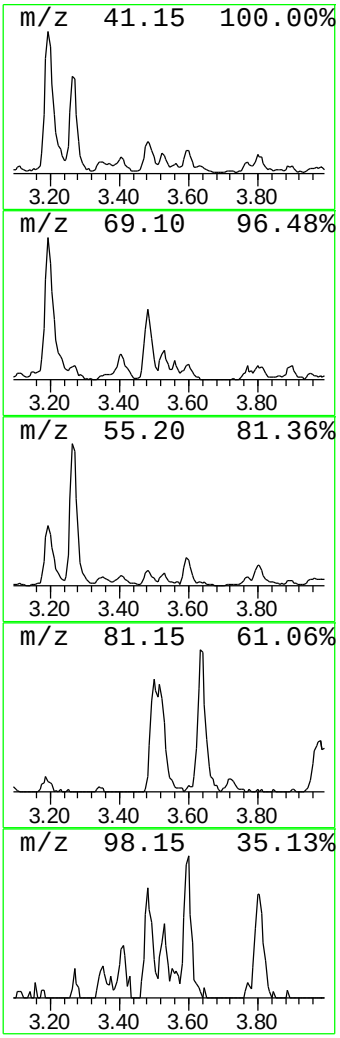
**********

Peak Number 3 2,4-Hexadiene, 3-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.49 | 7.42 ng | 75216 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Hexadiene, 3-methyl- | 96 | C7H12 | 028823-42-9 | 80 |
| 2 | 2-Hexyne, 4-methyl- | 96 | C7H12 | 020198-49-6 | 72 |
| 3 | 2,3-Diazabicyclo[2.2.1]hept-2-en... | 124 | C7H12N2 | 071312-54-4 | 64 |
| 4 | 1,4-Pentadiene, 3,3-dimethyl- | 96 | C7H12 | 001112-35-2 | 64 |
| 5 | Cyclopropane, 1-methyl-1-isoprop... | 96 | C7H12 | 003422-07-9 | 64 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

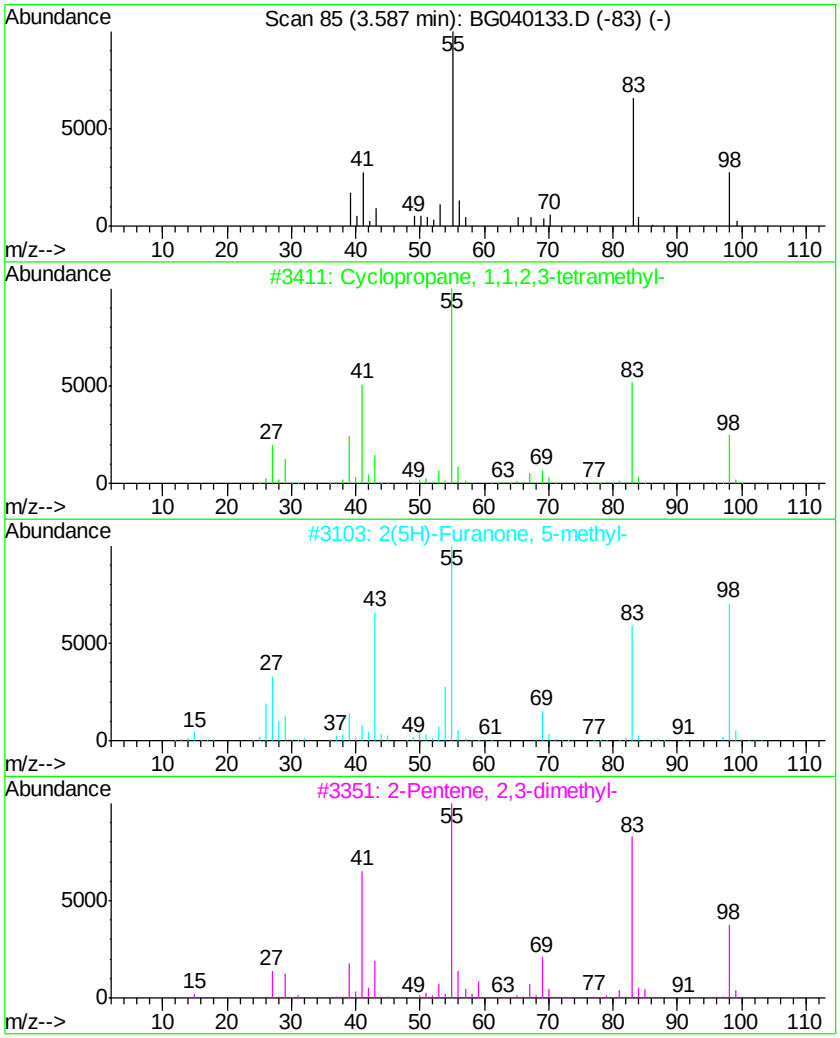
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

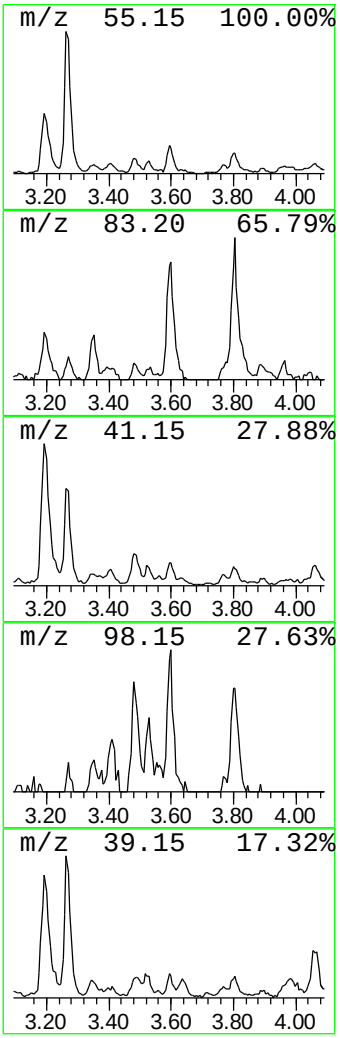
**********

Peak Number 4 Cyclopropane, 1,1,2,3-tetra... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.59 | 5.46 ng | 55281 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopropane, 1,1,2,3-tetramethyl- | 98 | C7H14 | 074752-93-5 | 86 |
| 2 | 2(5H)-Furanone, 5-methyl- | 98 | C5H6O2 | 000591-11-7 | 83 |
| 3 | 2-Pentene, 2,3-dimethyl- | 98 | C7H14 | 010574-37-5 | 72 |
| 4 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 64 |
| 5 | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 64 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

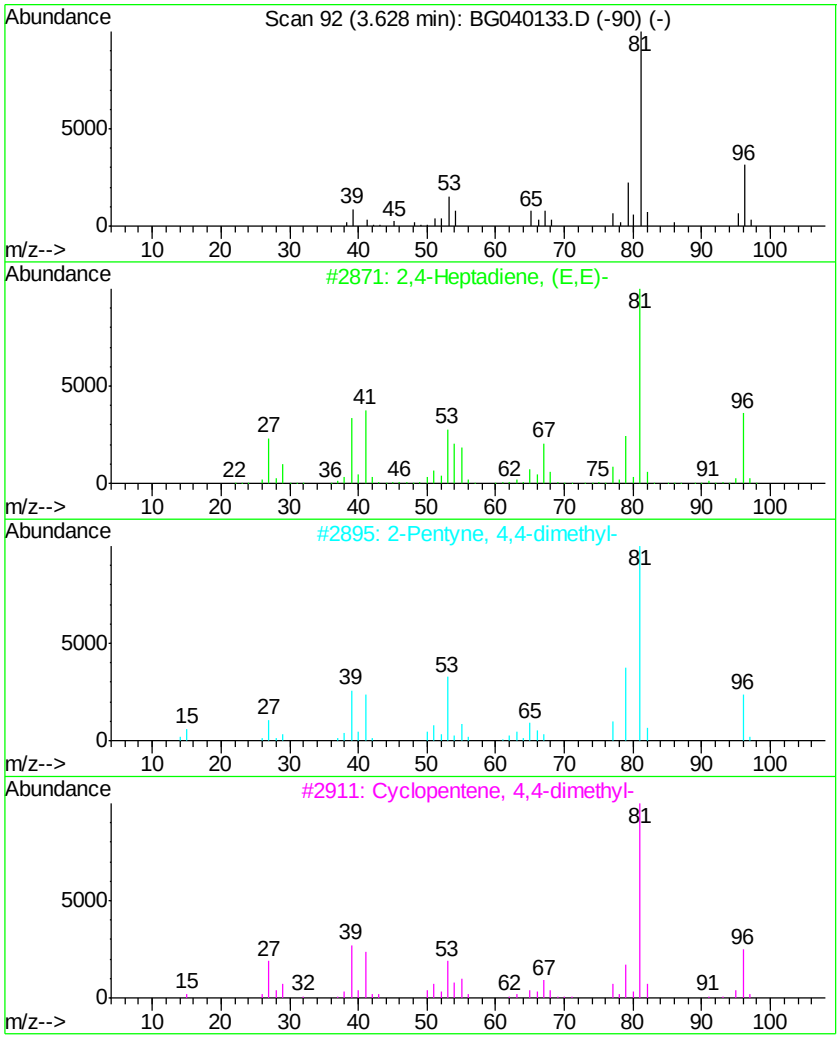
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

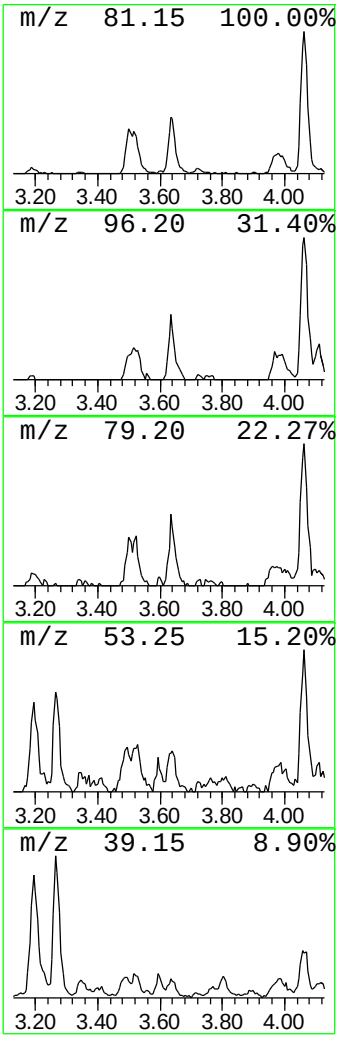
**********

Peak Number 5 2,4-Heptadiene, (E,E)- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.63 | 5.34 ng | 54095 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Heptadiene, (E,E)- | 96 | C7H12 | 002384-94-3 | 80 |
| 2 | 2-Pentyne, 4,4-dimethyl- | 96 | C7H12 | 000999-78-0 | 78 |
| 3 | Cyclopentene, 4,4-dimethyl- | 96 | C7H12 | 019037-72-0 | 72 |
| 4 | Cyclohexene, 1-methyl- | 96 | C7H12 | 000591-49-1 | 72 |
| 5 | 3,5-Dimethylcyclopentene | 96 | C7H12 | 007459-71-4 | 72 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

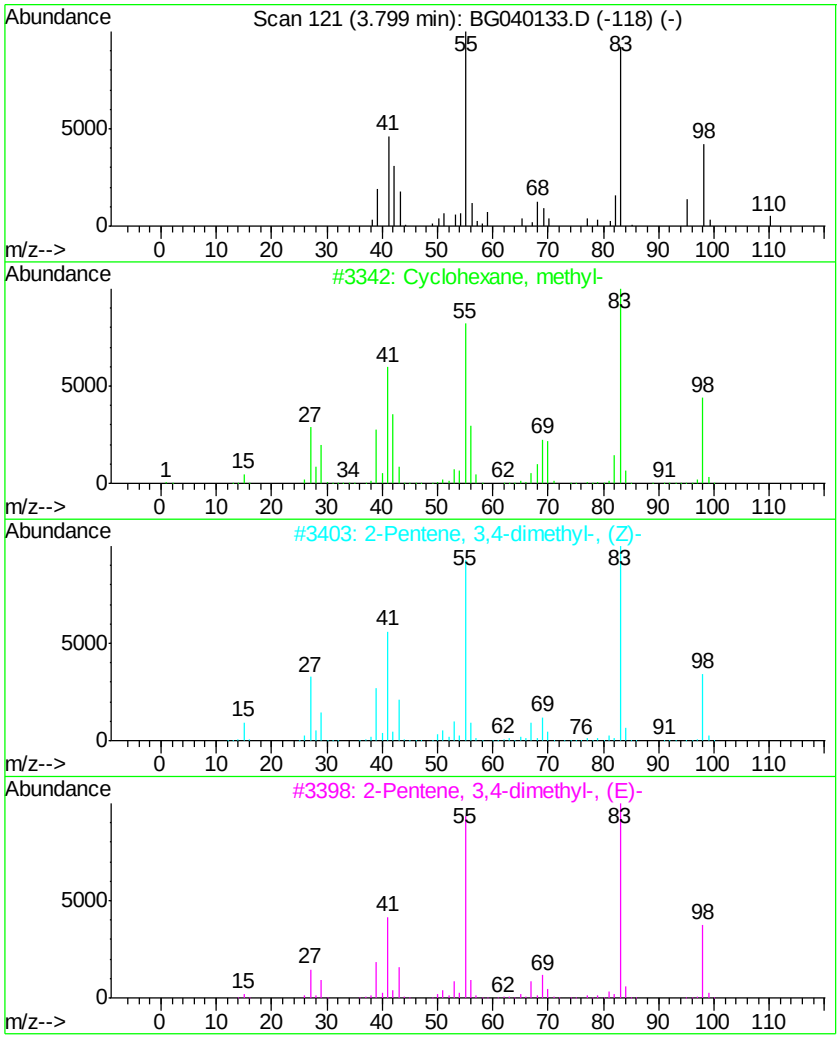
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

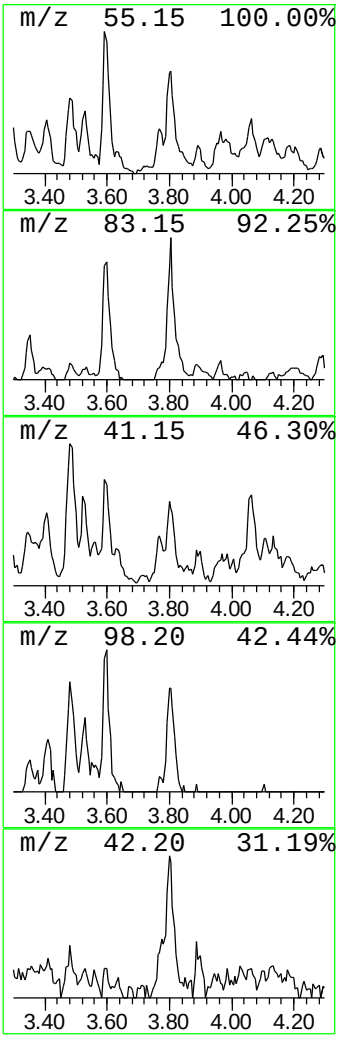
**********

Peak Number 6 Cyclohexane, methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.80 | 6.66 ng | 67507 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, methyl- | 98 | C7H14 | 000108-87-2 | 72 |
| 2 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 58 |
| 3 | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14 | 004914-92-5 | 53 |
| 4 | 2-Pentene, 4,4-dimethyl-, (E)- | 98 | C7H14 | 000690-08-4 | 53 |
| 5 | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 53 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

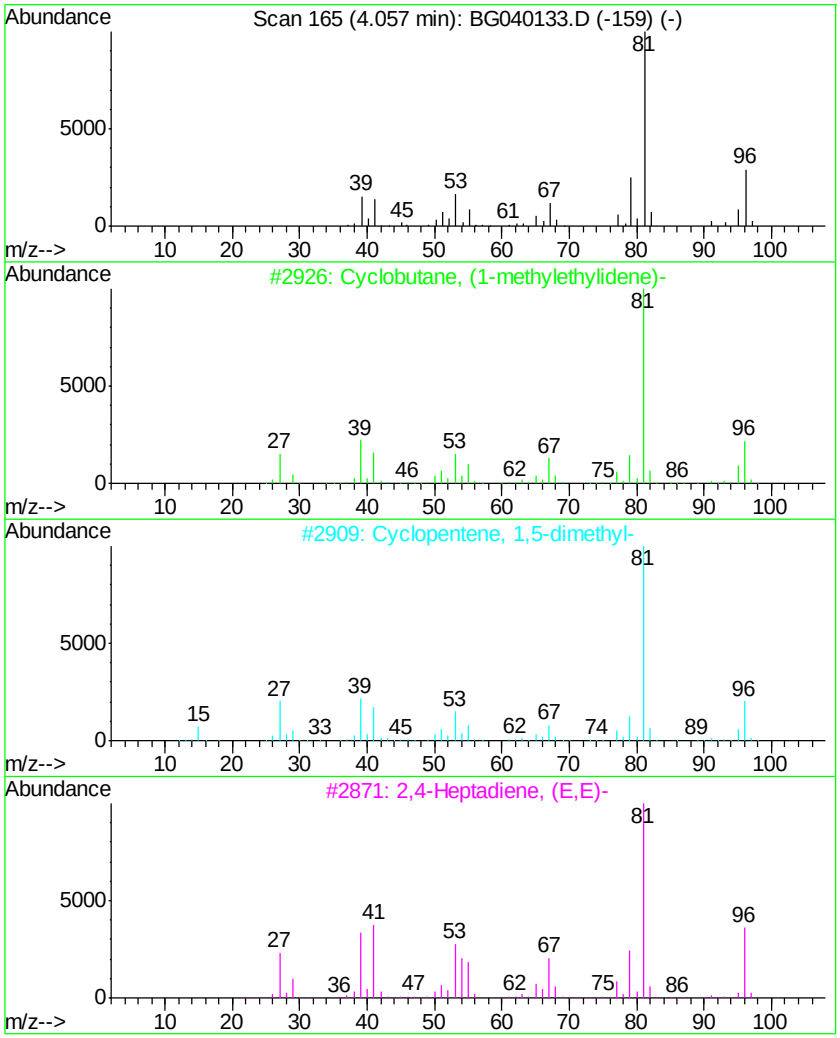
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

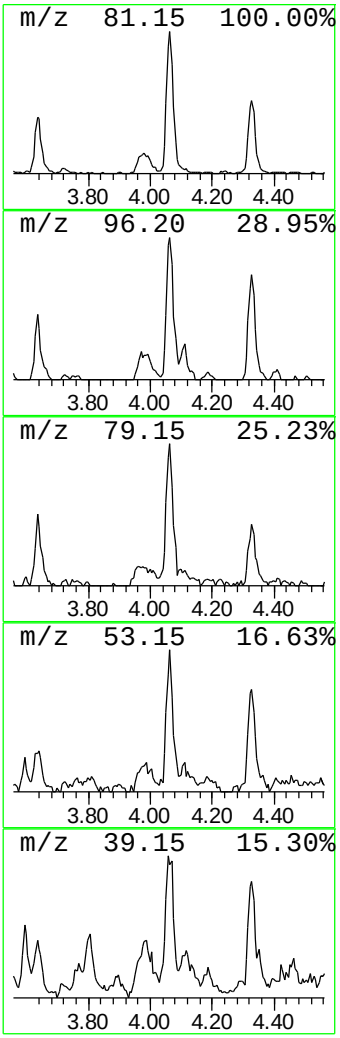
**********

Peak Number 7 Cyclobutane, (1-methylethyl... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.06 | 12.94 ng | 131103 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclobutane, (1-methylethylidene)- | 96 | C7H12 | 001528-22-9 | 90 |
| 2 | Cyclopentene, 1,5-dimethyl- | 96 | C7H12 | 016491-15-9 | 90 |
| 3 | 2,4-Heptadiene, (E,E)- | 96 | C7H12 | 002384-94-3 | 86 |
| 4 | Cyclopentene, 4,4-dimethyl- | 96 | C7H12 | 019037-72-0 | 86 |
| 5 | Cyclohexene, 1-methyl- | 96 | C7H12 | 000591-49-1 | 80 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

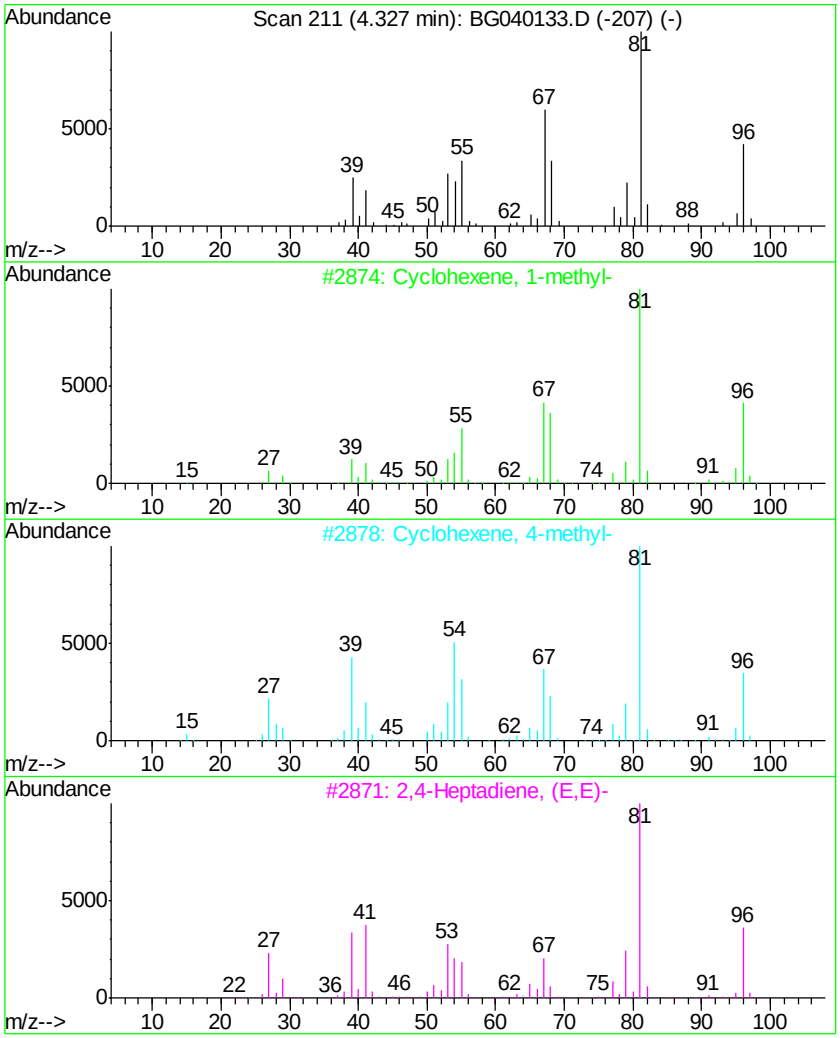
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

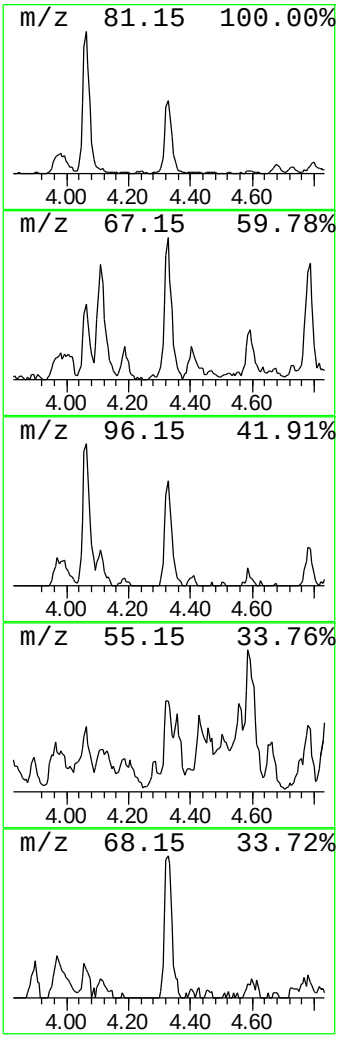
**********

Peak Number 8 Cyclohexene, 1-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.33 | 12.30 ng | 124609 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 1-methyl- | 96 | C7H12 | 000591-49-1 | 87 |
| 2 | Cyclohexene, 4-methyl- | 96 | C7H12 | 000591-47-9 | 83 |
| 3 | 2,4-Heptadiene, (E,E)- | 96 | C7H12 | 002384-94-3 | 81 |
| 4 | 3,4-Heptadiene | 96 | C7H12 | 002454-31-1 | 80 |
| 5 | 1,4-Hexadiene, 2-methyl- | 96 | C7H12 | 001119-14-8 | 76 |



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Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

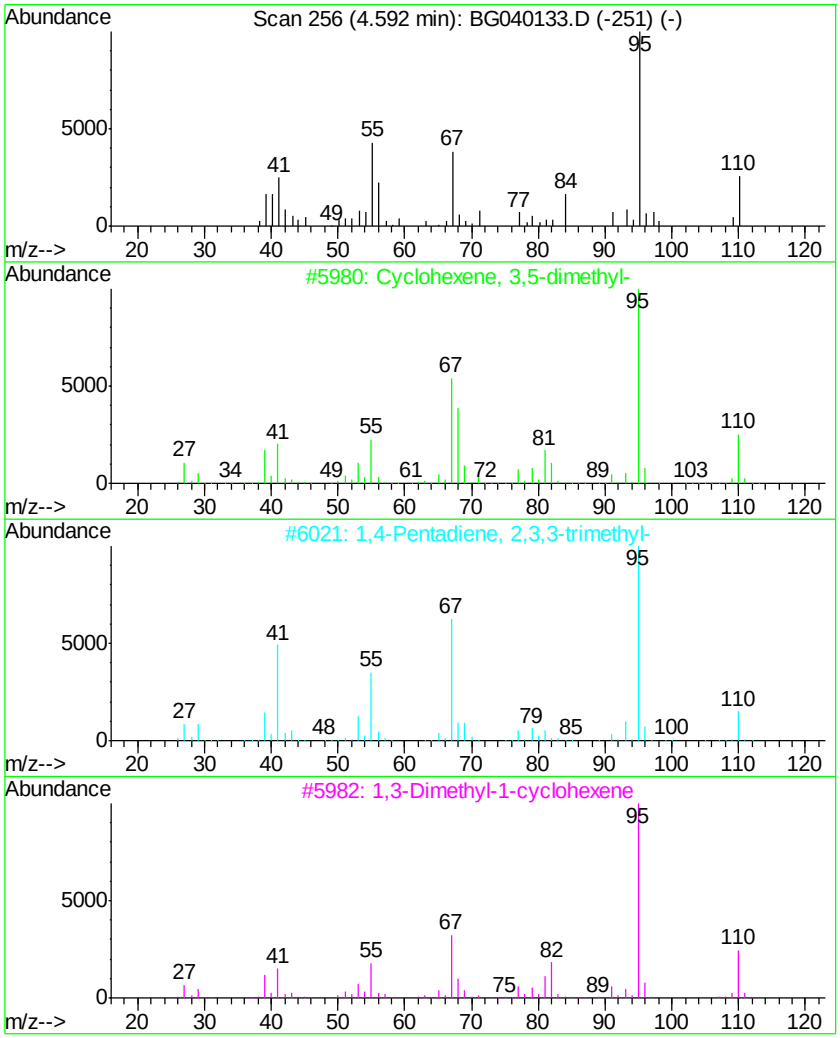
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

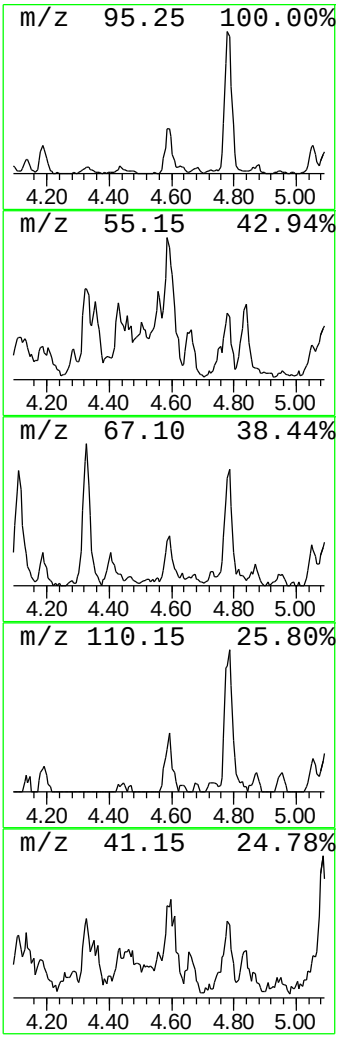
**********

Peak Number 9 Cyclohexene, 3,5-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.59 | 8.49 ng | 85996 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 3,5-dimethyl- | 110 | C8H14 | 000823-17-6 | 58 |
| 2 | 1,4-Pentadiene, 2,3,3-trimethyl- | 110 | C8H14 | 000756-02-5 | 58 |
| 3 | 1,3-Dimethyl-1-cyclohexene | 110 | C8H14 | 002808-76-6 | 58 |
| 4 | 5,5-Dimethyl-1,3-hexadiene | 110 | C8H14 | 001515-79-3 | 53 |
| 5 | 1,4-Pentadiene, 2,3,4-trimethyl- | 110 | C8H14 | 072014-90-5 | 53 |



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Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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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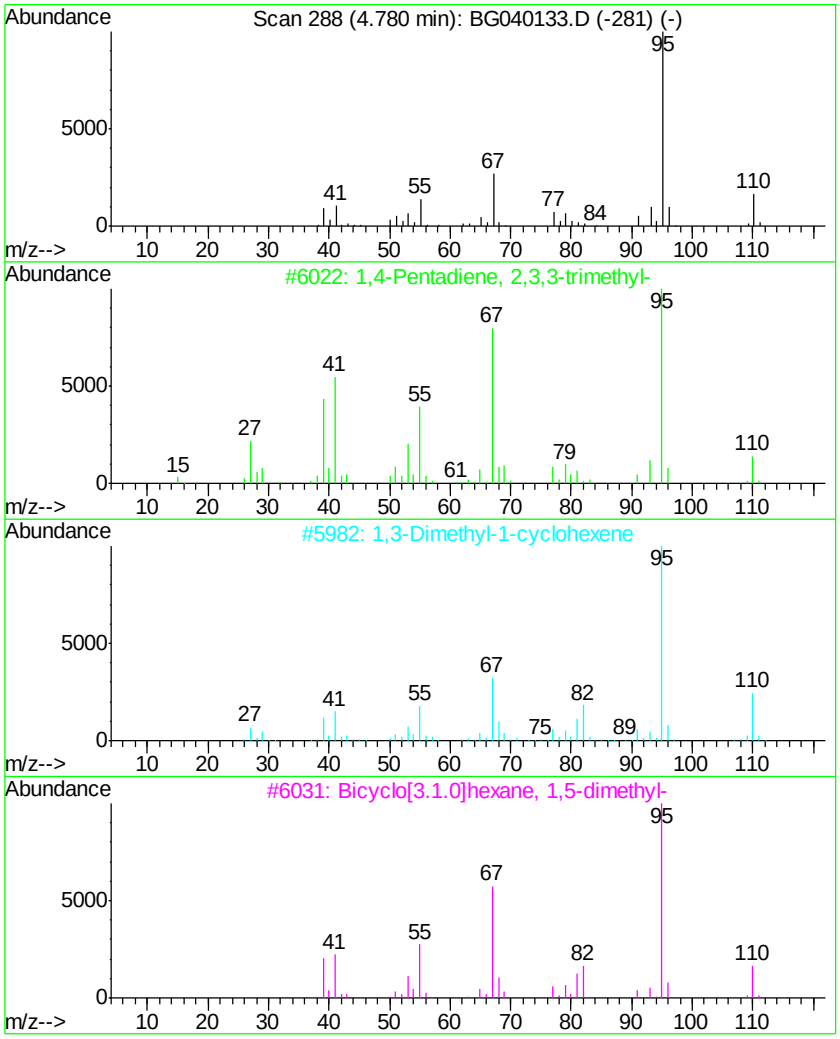
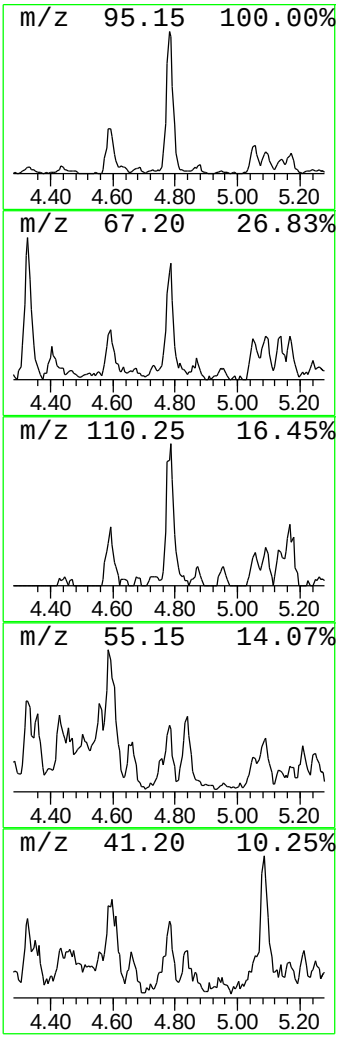
Peak Number 10 1,4-Pentadiene, 2,3,3-trime... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.78 | 10.06 ng | 101932 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Pentadiene, 2,3,3-trimethyl- | 110 | C8H14 | 000756-02-5 | 91 |
| 2 | 1,3-Dimethyl-1-cyclohexene | 110 | C8H14 | 002808-76-6 | 86 |
| 3 | Bicyclo[3.1.0]hexane, 1,5-dimethyl- | 110 | C8H14 | 1000142-17-5 | 80 |
| 4 | Bicyclo[2.2.1]heptane, 2-(1,1-di... | 164 | C12H20 | 069219-08-5 | 72 |
| 5 | exo-2-Bromonorbornane | 174 | C7H11Br | 002534-77-2 | 72 |



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Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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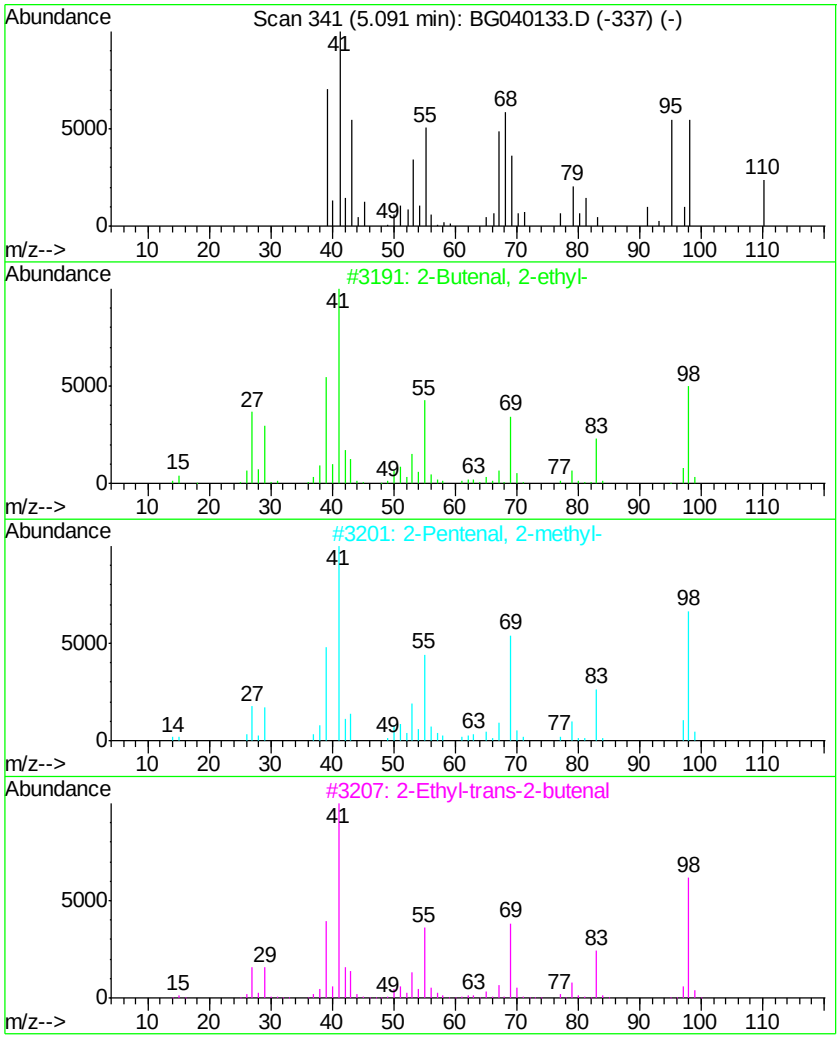
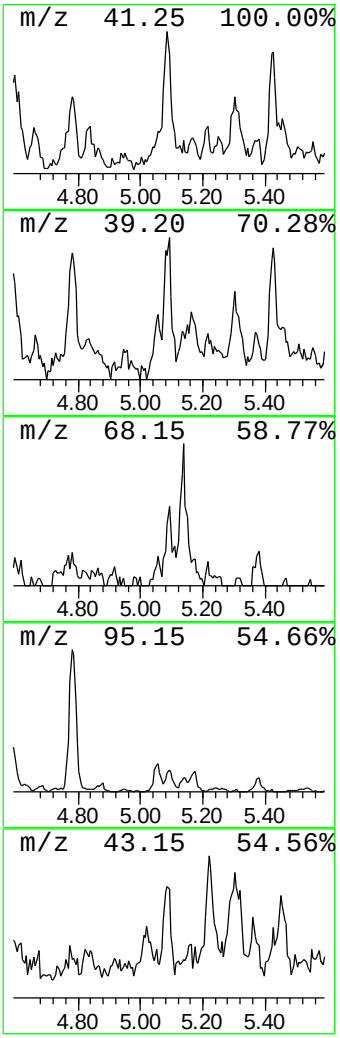
Peak Number 11 unknown5.09 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.09 | 5.02 ng | 50892 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Butenal, 2-ethyl- | 98 | C6H10O | 019780-25-7 | 43 |
| 2 | 2-Pentenal, 2-methyl- | 98 | C6H10O | 000623-36-9 | 43 |
| 3 | 2-Ethyl-trans-2-butenal | 98 | C6H10O | 063883-69-2 | 43 |
| 4 | 2-Pentene, 3-ethyl- | 98 | C7H14 | 000816-79-5 | 32 |
| 5 | 1-Propene, 1,1'-oxybis-, (E,E)- | 98 | C6H10O | 004696-28-0 | 27 |



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Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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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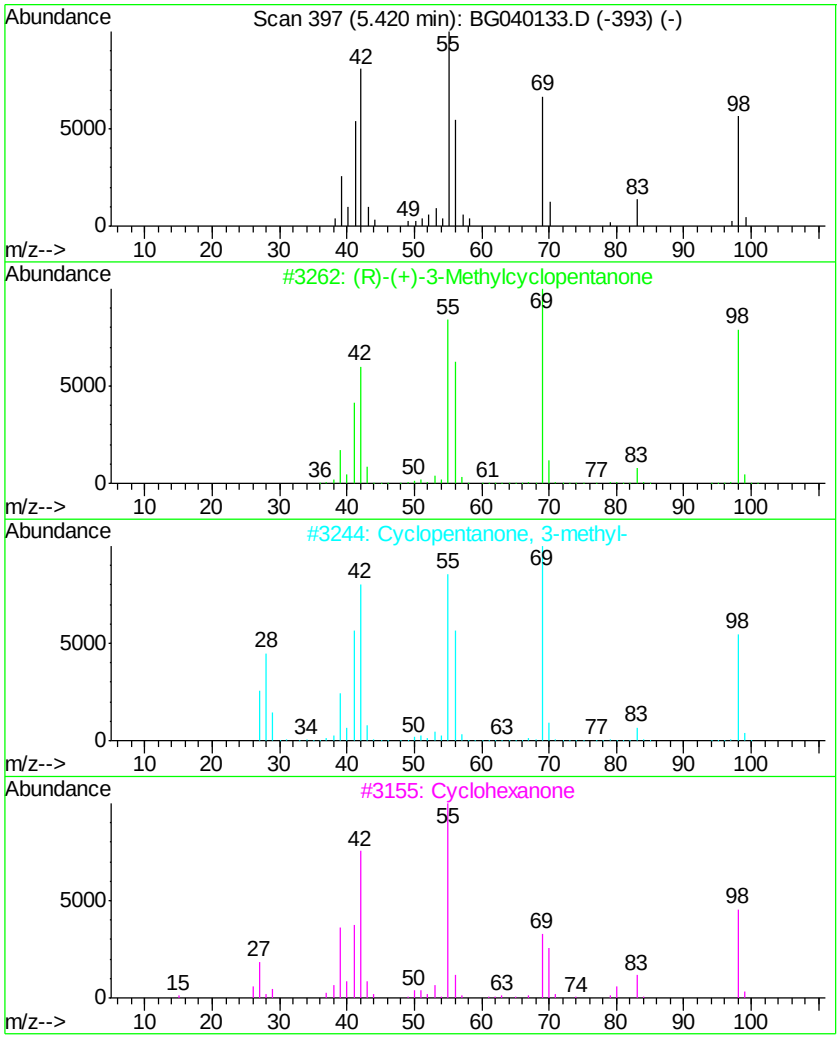
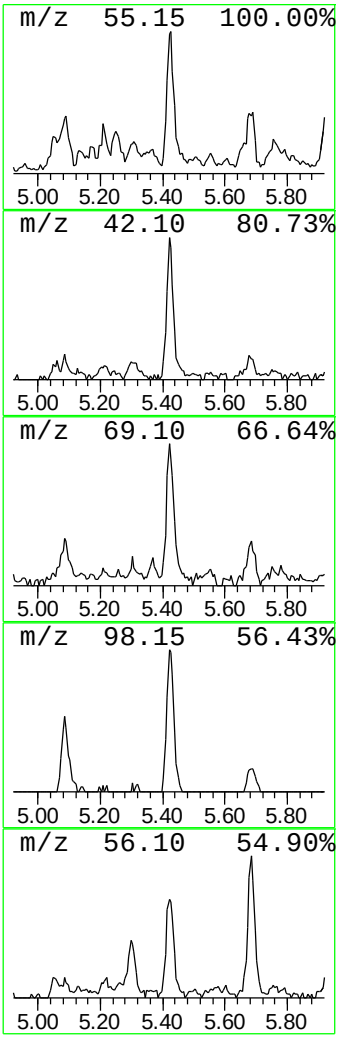
Peak Number 12 (R)-(+)-3-Methylcyclopentanone Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.42 | 6.27 ng | 63515 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (R)-(+)-3-Methylcyclopentanone | 98 | C6H10O | 006672-30-6 | 91 |
| 2 | Cyclopentanone, 3-methyl- | 98 | C6H10O | 001757-42-2 | 91 |
| 3 | Cyclohexanone | 98 | C6H10O | 000108-94-1 | 64 |
| 4 | Cyclopentanone, 2-methyl- | 98 | C6H10O | 001120-72-5 | 59 |
| 5 | 1H-Tetrazole, 1,5-dimethyl- | 98 | C3H6N4 | 005144-11-6 | 59 |



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Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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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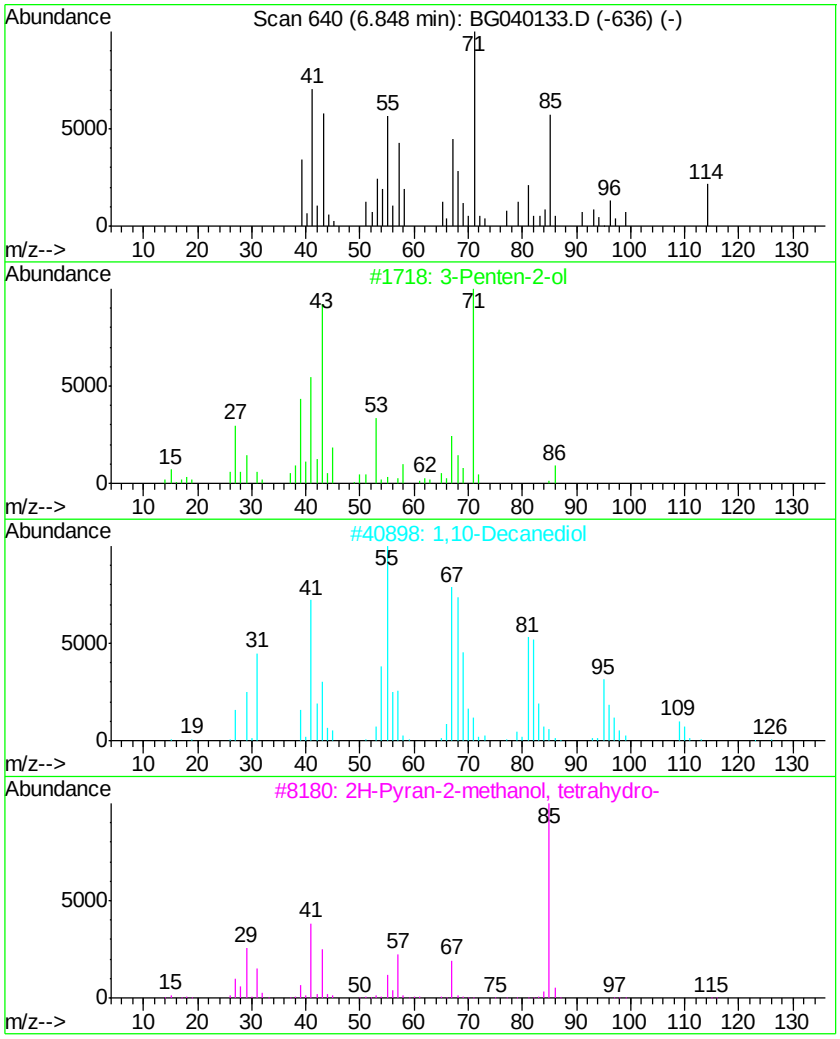
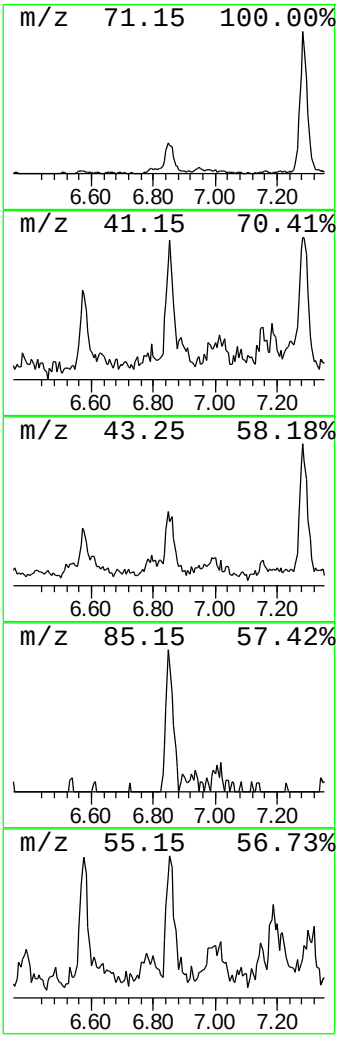
Peak Number 13 unknown6.85 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.85 | 6.13 ng | 62084 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Penten-2-ol | 86 | C5H10O | 001569-50-2 | 27 |
| 2 | 1,10-Decanediol | 174 | C10H22O2 | 000112-47-0 | 22 |
| 3 | 2H-Pyran-2-methanol, tetrahydro- | 116 | C6H12O2 | 000100-72-1 | 22 |
| 4 | Undecane, 2,4-dimethyl- | 184 | C13H28 | 017312-80-0 | 22 |
| 5 | 1,3-Pentadiene, (Z)- | 68 | C5H8 | 001574-41-0 | 15 |



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Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

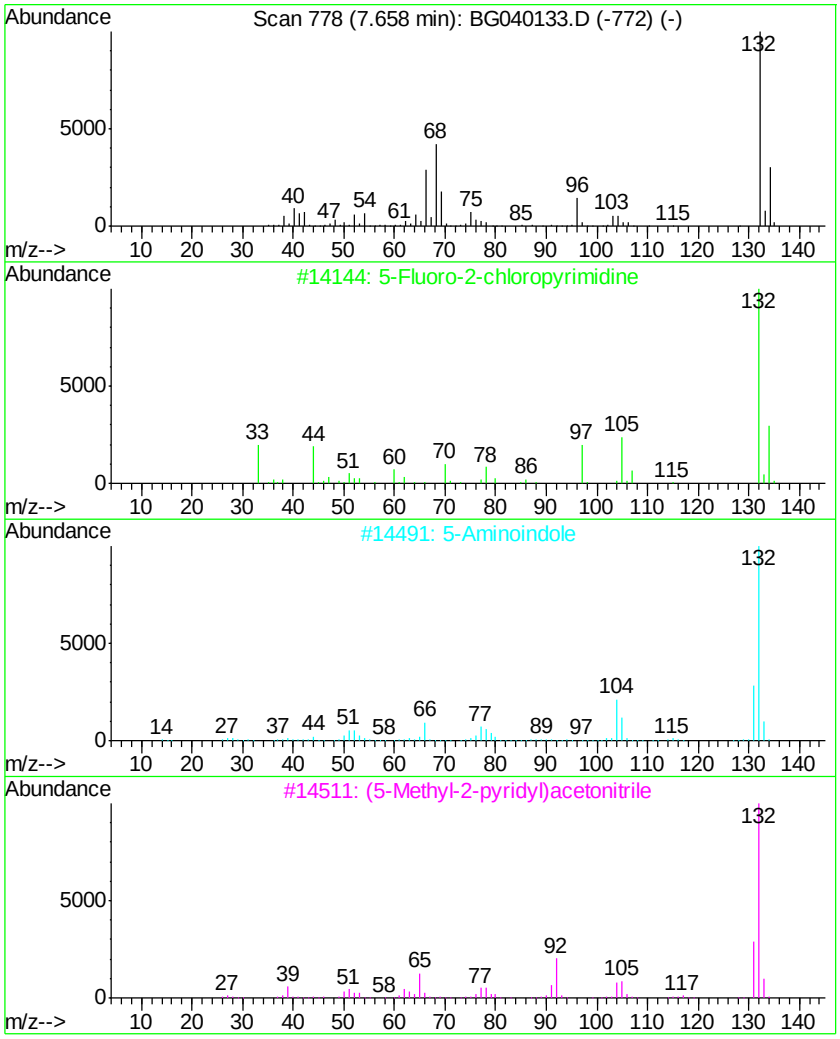
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

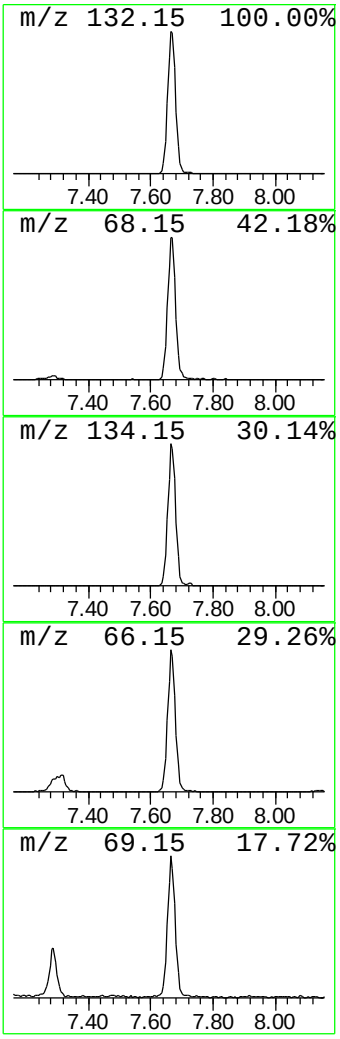
**********

Peak Number 14 unknown7.66 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.66 | 91.08 ng | 922851 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | (5-Methyl-2-pyridyl)acetonitrile | 132 | C8H8N2 | 1000241-93-9 | 10 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |



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Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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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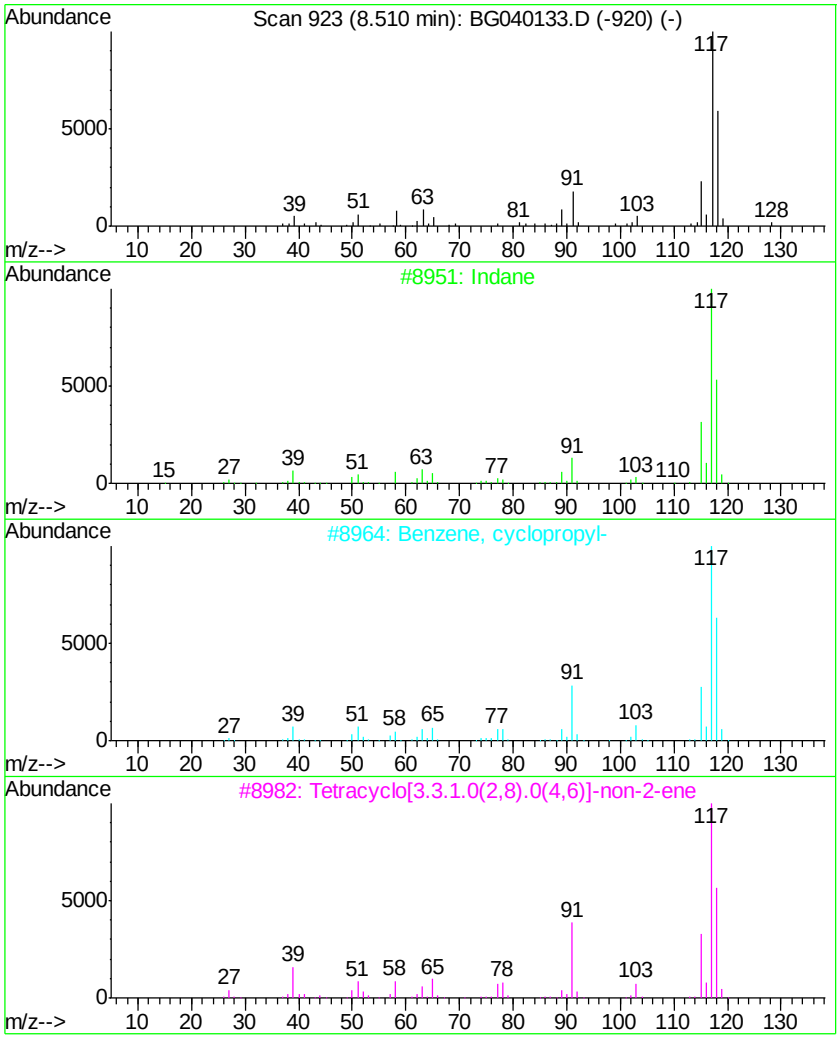
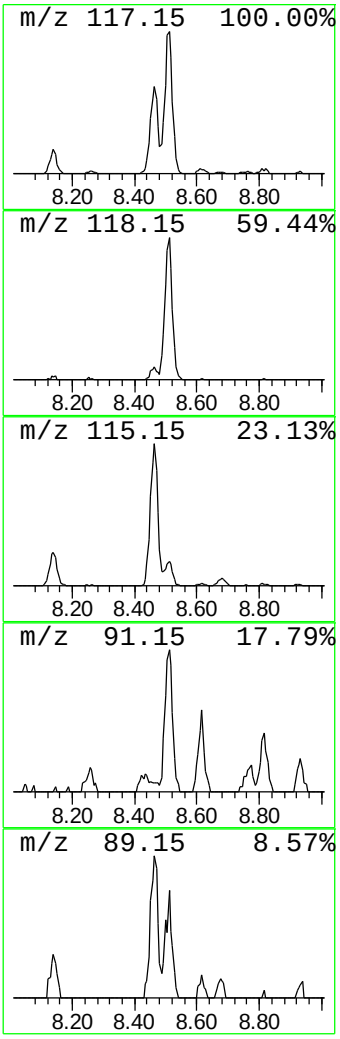
Peak Number 16 Indane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.51 | 13.11 ng | 132852 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 81 |
| 2 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 80 |
| 3 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 80 |
| 4 | (Z)-1-Phenylpropene | 118 | C9H10 | 000766-90-5 | 72 |
| 5 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 59 |



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Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

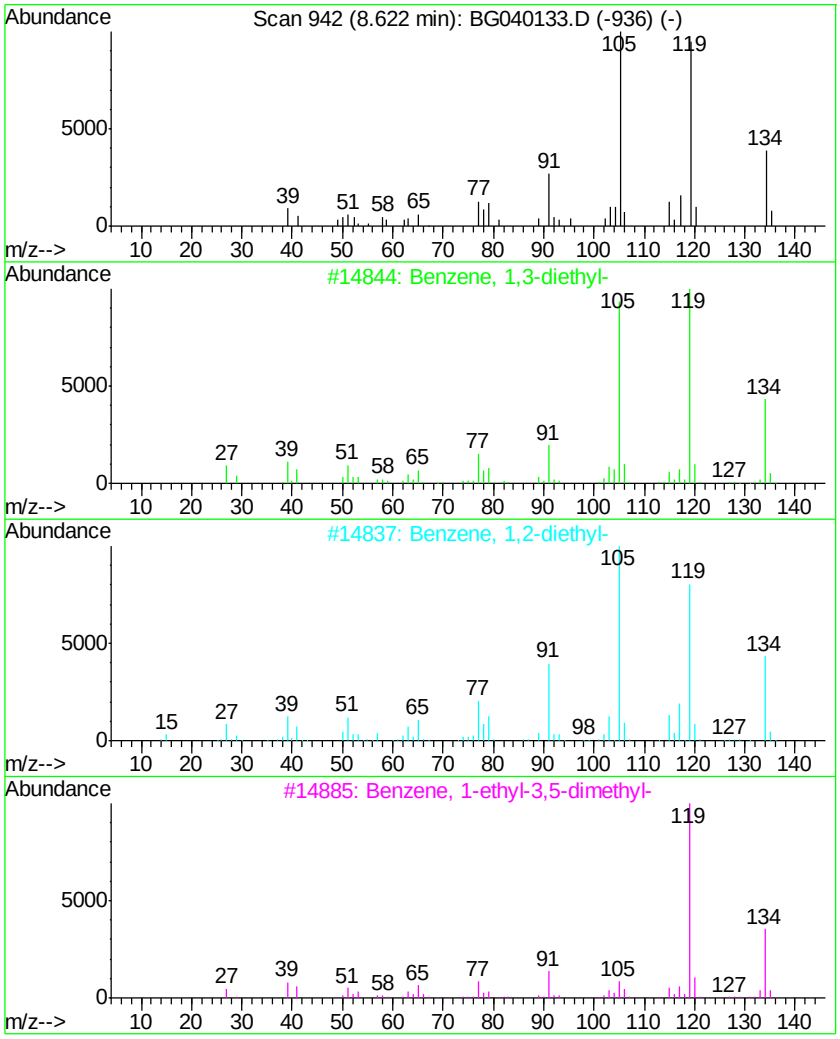
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

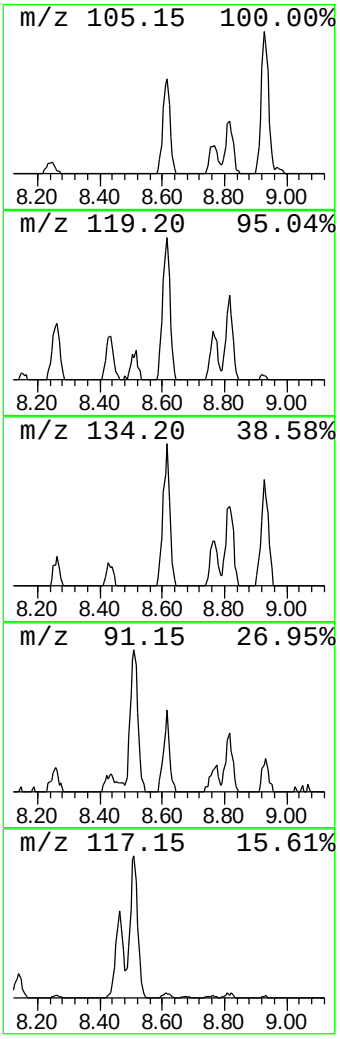
**********

Peak Number 17 Benzene, 1,3-diethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.62 | 5.10 ng | 51639 | 1,4-Dichlorobenzene-d4 | 8.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 93 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 93 |
| 3 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 87 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 87 |
| 5 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 87 |



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Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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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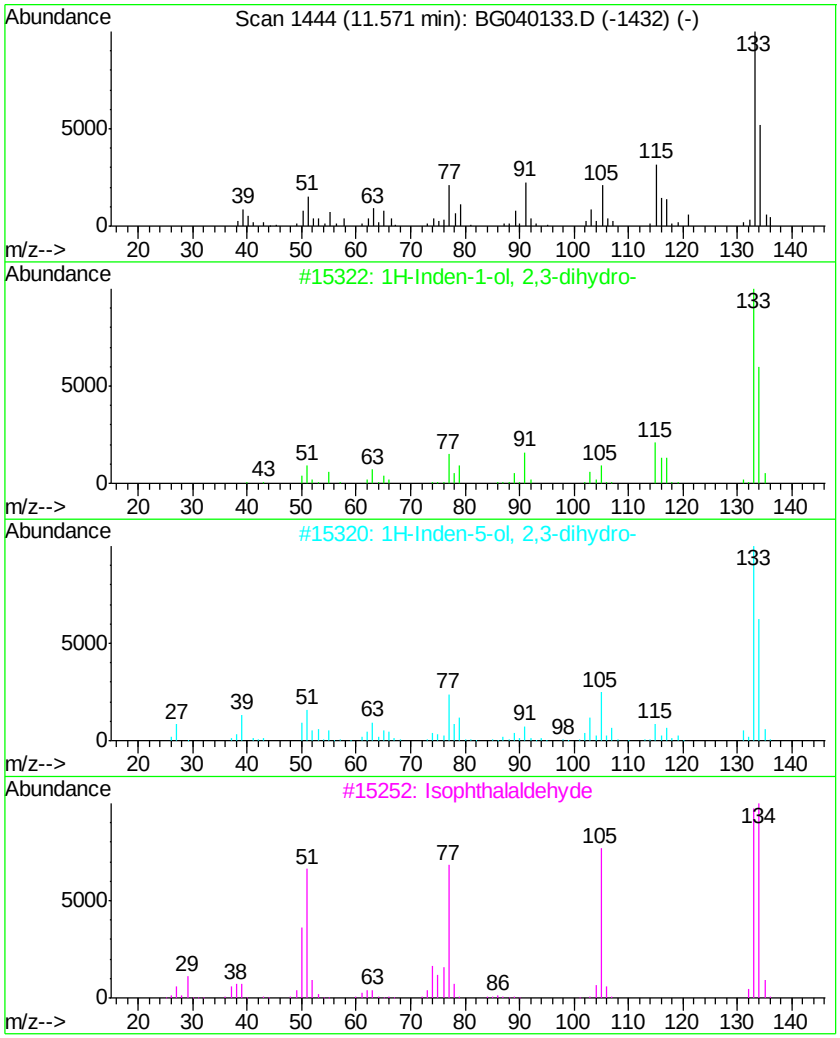
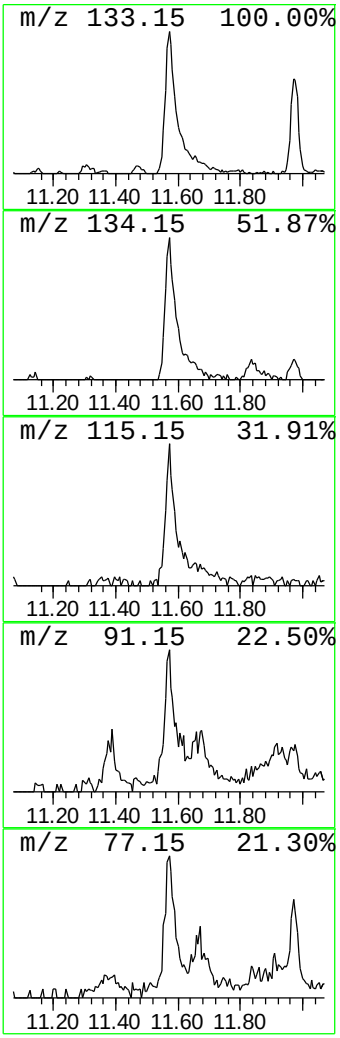
Peak Number 18 1H-Inden-1-ol, 2,3-dihydro- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.57 | 10.49 ng | 196487 | Naphthalene-d8 | 10.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Inden-1-ol, 2,3-dihydro- | 134 | C9H10O | 006351-10-6 | 93 |
| 2 | 1H-Inden-5-ol, 2,3-dihydro- | 134 | C9H10O | 001470-94-6 | 81 |
| 3 | Isophthalaldehyde | 134 | C8H6O2 | 000626-19-7 | 50 |
| 4 | Phenol, 4-(2-propenyl)- | 134 | C9H10O | 000501-92-8 | 49 |
| 5 | 1H-Indazol-3-amine | 133 | C7H7N3 | 000874-05-5 | 49 |



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Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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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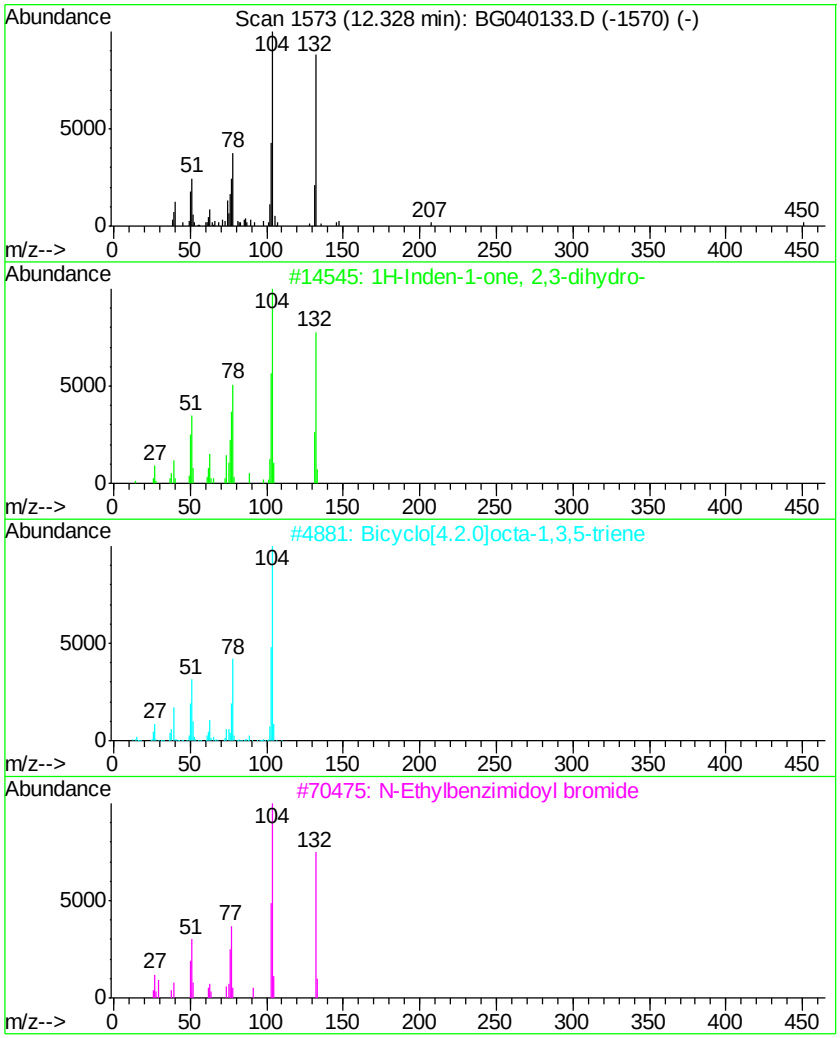
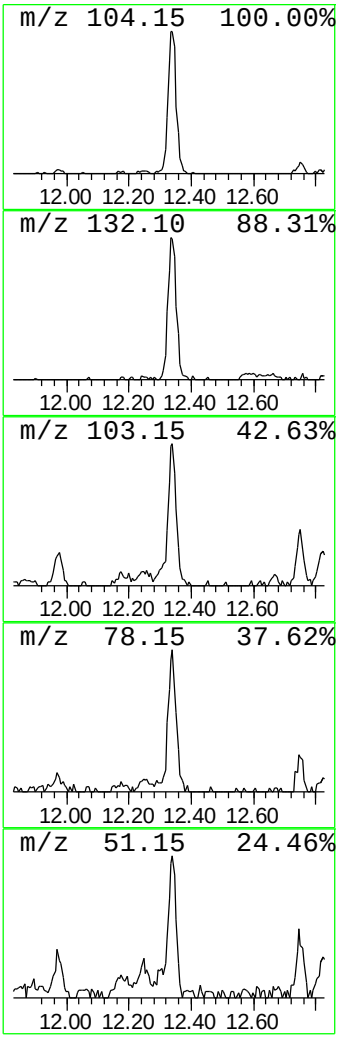
Peak Number 19 1H-Inden-1-one, 2,3-dihydro- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.33 | 6.87 ng | 128779 | Naphthalene-d8 | 10.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Inden-1-one, 2,3-dihydro- | 132 | C9H8O | 000083-33-0 | 94 |
| 2 | Bicyclo[4.2.0]octa-1,3,5-triene | 104 | C8H8 | 000694-87-1 | 58 |
| 3 | N-Ethylbenzimidoyl bromide | 211 | C9H10BrN | 041182-87-0 | 53 |
| 4 | 2H-Inden-2-one, 1,3-dihydro- | 132 | C9H8O | 000615-13-4 | 53 |
| 5 | Styrene | 104 | C8H8 | 000100-42-5 | 49 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG032519\
Data File : BG040133.D
Acq On : 26 Mar 2019 1:32
Operator : JU/SJ
Sample : K2059-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG030419.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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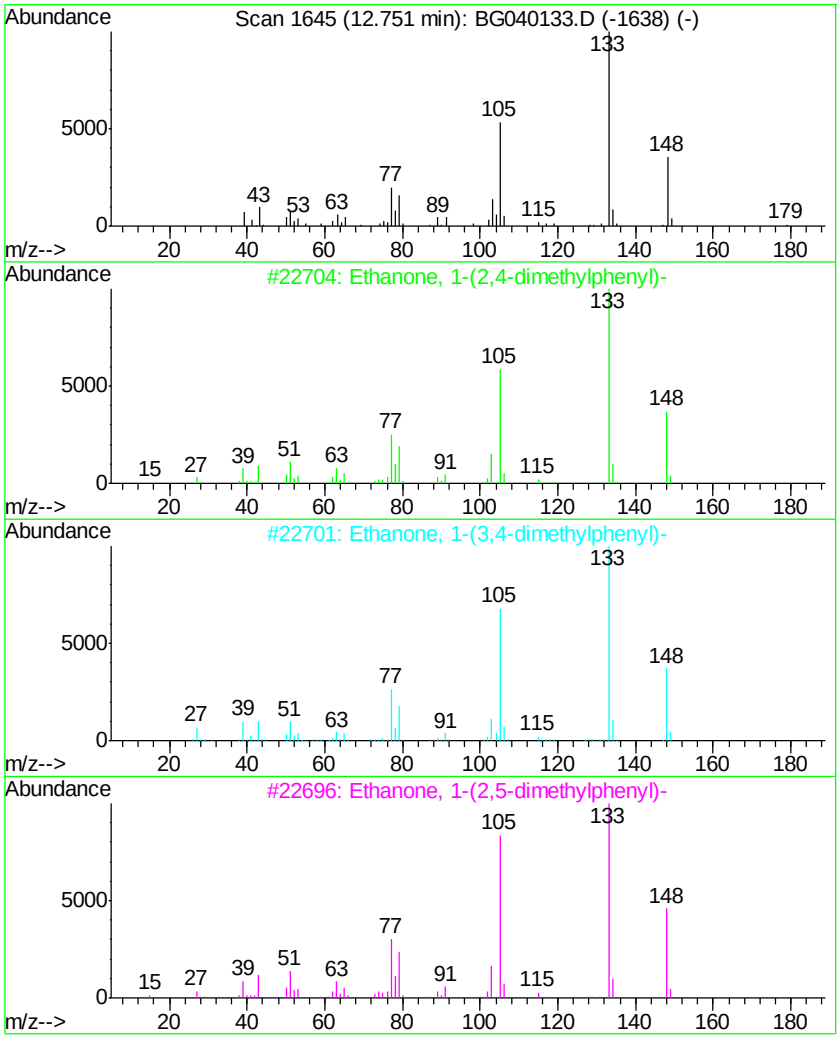
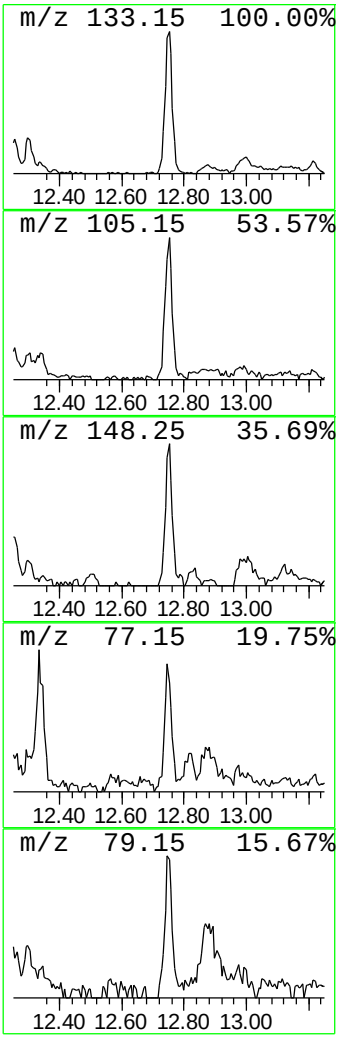
Peak Number 20 Ethanone, 1-(2,4-dimethylph... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.75 | 5.51 ng | 103193 | Naphthalene-d8 | 10.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanone, 1-(2,4-dimethylphenyl)- | 148 | C10H12O | 000089-74-7 | 96 |
| 2 | Ethanone, 1-(3,4-dimethylphenyl)- | 148 | C10H12O | 003637-01-2 | 95 |
| 3 | Ethanone, 1-(2,5-dimethylphenyl)- | 148 | C10H12O | 002142-73-6 | 93 |
| 4 | Ethanone, 1-(4-ethylphenyl)- | 148 | C10H12O | 000937-30-4 | 90 |
| 5 | 3-Isopropylbenzaldehyde | 148 | C10H12O | 034246-57-6 | 87 |



Tentatively Identified Compound (LSC) summary

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| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-methoxy... | 3.26 | 62.3 | ng | 631268 | 1 | 8.14 | 202642 | 20.0 |
| 2,4-Hexadiene, 3-... | 3.49 | 7.4 | ng | 75216 | 1 | 8.14 | 202642 | 20.0 |
| Cyclopropane, 1,1... | 3.59 | 5.5 | ng | 55281 | 1 | 8.14 | 202642 | 20.0 |
| 2,4-Heptadiene, (... | 3.63 | 5.3 | ng | 54095 | 1 | 8.14 | 202642 | 20.0 |
| Cyclohexane, methyl- | 3.80 | 6.7 | ng | 67507 | 1 | 8.14 | 202642 | 20.0 |
| Cyclobutane, (1-m... | 4.06 | 12.9 | ng | 131103 | 1 | 8.14 | 202642 | 20.0 |
| Cyclohexene, 1-me... | 4.33 | 12.3 | ng | 124609 | 1 | 8.14 | 202642 | 20.0 |
| Cyclohexene, 3,5-... | 4.59 | 8.5 | ng | 85996 | 1 | 8.14 | 202642 | 20.0 |
| 1,4-Pentadiene, 2... | 4.78 | 10.1 | ng | 101932 | 1 | 8.14 | 202642 | 20.0 |
| unknown5.09 | 5.09 | 5.0 | ng | 50892 | 1 | 8.14 | 202642 | 20.0 |
| (R)-(+)-3-Methylc... | 5.42 | 6.3 | ng | 63515 | 1 | 8.14 | 202642 | 20.0 |
| unknown6.85 | 6.85 | 6.1 | ng | 62084 | 1 | 8.14 | 202642 | 20.0 |
| unknown7.66 | 7.66 | 91.1 | ng | 922851 | 1 | 8.14 | 202642 | 20.0 |
| Indane | 8.51 | 13.1 | ng | 132852 | 1 | 8.14 | 202642 | 20.0 |
| Benzene, 1,3-diet... | 8.62 | 5.1 | ng | 51639 | 1 | 8.14 | 202642 | 20.0 |
| 1H-Inden-1-ol, 2,... | 11.57 | 10.5 | ng | 196487 | 2 | 10.96 | 374654 | 20.0 |
| 1H-Inden-1-one, 2... | 12.33 | 6.9 | ng | 128779 | 2 | 10.96 | 374654 | 20.0 |
| Ethanone, 1-(2,4-... | 12.75 | 5.5 | ng | 103193 | 2 | 10.96 | 374654 | 20.0 |