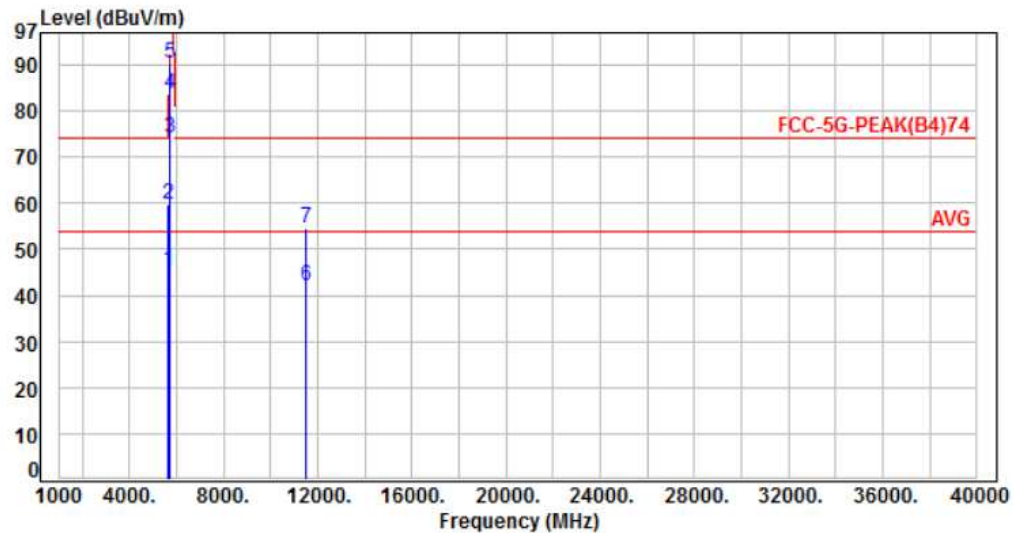




|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 4, CH149 | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV) | Limit (dBUV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 51.09          | 45.32        | 54.00        | -8.68       | Average  | 121         | 107           | P   |
| 2   | 5650.00         | -5.77       | 65.48          | 59.71        | 74.00        | -14.29      | Peak     | 121         | 107           | P   |
| 3   | 5700.00         | -5.79       | 80.10          | 74.31        | 105.20       | -30.89      | Peak     | 121         | 107           | P   |
| 4   | 5720.00         | -5.80       | 89.52          | 83.72        | 110.80       | -27.08      | Peak     | 121         | 107           | P   |
| 5   | 5725.00         | -5.80       | 96.04          | 90.24        | 122.20       | -31.96      | Peak     | 121         | 107           | P   |
| 6   | 11490.00        | 2.06        | 40.16          | 42.22        | 54.00        | -11.78      | Average  | 100         | 256           | P   |
| 7   | 11490.00        | 2.06        | 52.70          | 54.76        | 74.00        | -19.24      | Peak     | 100         | 256           | P   |

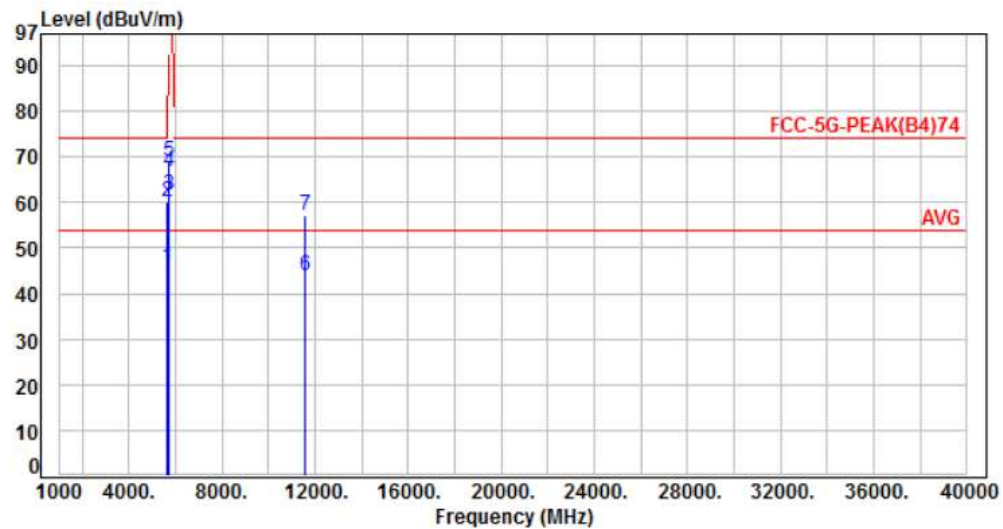
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 4, CH157 | Temperature | : 24°C     |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%      |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 51.53          | 45.76        | 54.00        | -8.24       | Average  | 102         | 151           | P   |
| 2   | 5650.00         | -5.77       | 65.71          | 59.94        | 74.00        | -14.06      | Peak     | 102         | 151           | P   |
| 3   | 5700.00         | -5.79       | 67.37          | 61.58        | 105.20       | -43.62      | Peak     | 102         | 151           | P   |
| 4   | 5720.00         | -5.80       | 72.58          | 66.78        | 110.80       | -44.02      | Peak     | 102         | 151           | P   |
| 5   | 5725.00         | -5.80       | 74.76          | 68.96        | 122.20       | -53.24      | Peak     | 102         | 151           | P   |
| 6   | 11570.00        | 2.09        | 41.81          | 43.90        | 54.00        | -10.10      | Average  | 155         | 296           | P   |
| 7   | 11570.00        | 2.09        | 54.94          | 57.03        | 74.00        | -16.97      | Peak     | 155         | 296           | P   |

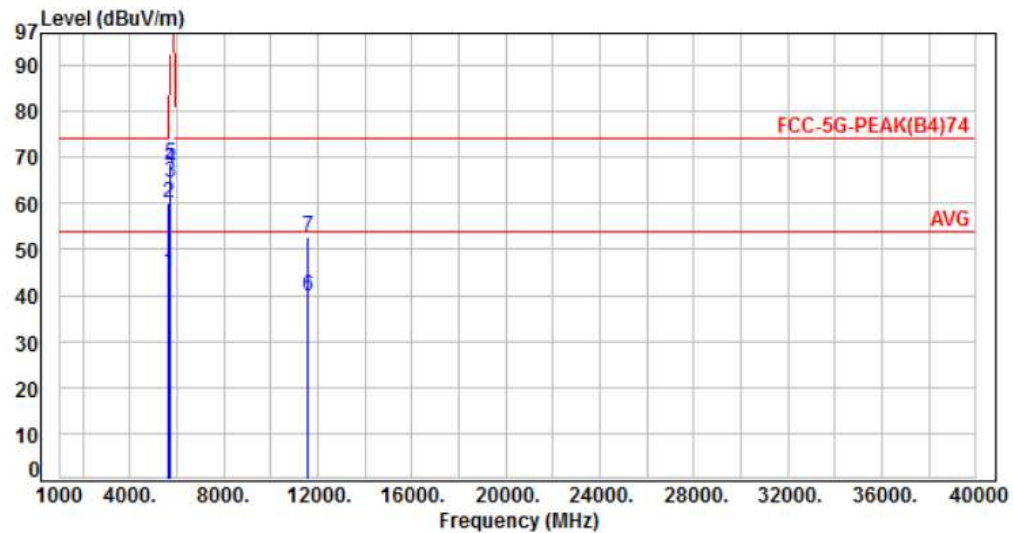
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 4, CH157 | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV) | Limit (dBUV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 50.88          | 45.11        | 54.00        | -8.89       | Average  | 118         | 196           | P   |
| 2   | 5650.00         | -5.77       | 65.71          | 59.94        | 74.00        | -14.06      | Peak     | 118         | 196           | P   |
| 3   | 5700.00         | -5.79       | 70.20          | 64.41        | 105.20       | -40.79      | Peak     | 118         | 196           | P   |
| 4   | 5720.00         | -5.80       | 73.43          | 67.63        | 110.80       | -43.17      | Peak     | 118         | 196           | P   |
| 5   | 5725.00         | -5.80       | 74.54          | 68.74        | 122.20       | -53.46      | Peak     | 118         | 196           | P   |
| 6   | 11570.00        | 2.09        | 37.62          | 39.71        | 54.00        | -14.29      | Average  | 100         | 247           | P   |
| 7   | 11570.00        | 2.09        | 50.58          | 52.67        | 74.00        | -21.33      | Peak     | 100         | 247           | P   |

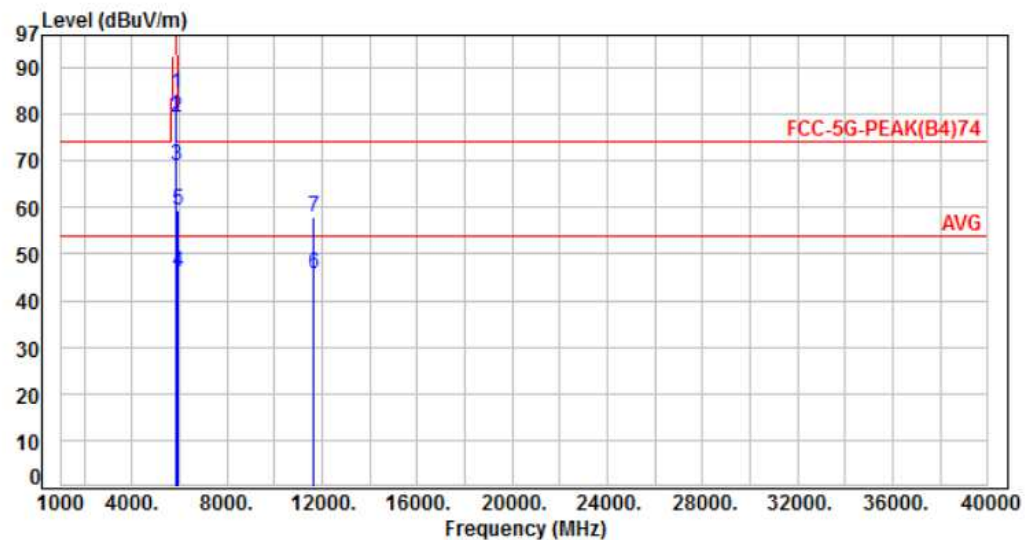
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 4, CH165 | Temperature | : 24°C     |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%      |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5850.00         | -5.84       | 90.45          | 84.61        | 122.20       | -37.59      | Peak     | 106         | 122           | P   |
| 2   | 5855.00         | -5.84       | 85.20          | 79.36        | 110.80       | -31.44      | Peak     | 106         | 122           | P   |
| 3   | 5875.00         | -5.85       | 74.71          | 68.86        | 105.20       | -36.34      | Peak     | 106         | 122           | P   |
| 4   | 5925.00         | -5.87       | 51.88          | 46.01        | 54.00        | -7.99       | Average  | 106         | 122           | P   |
| 5   | 5925.00         | -5.87       | 65.35          | 59.48        | 74.00        | -14.52      | Peak     | 106         | 122           | P   |
| 6   | 11650.00        | 2.12        | 43.78          | 45.90        | 54.00        | -8.10       | Average  | 149         | 248           | P   |
| 7   | 11650.00        | 2.12        | 55.89          | 58.01        | 74.00        | -15.99      | Peak     | 149         | 248           | P   |

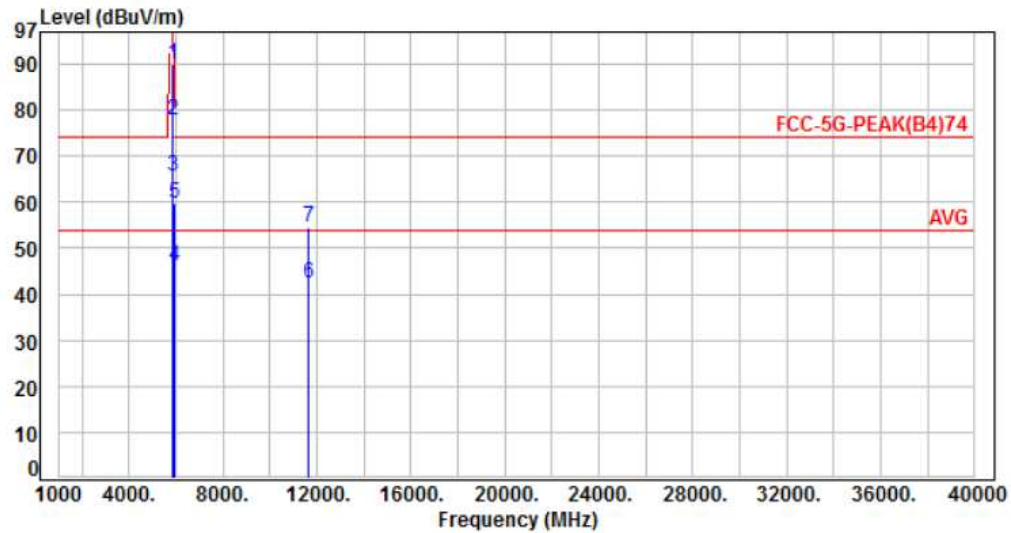
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 4, CH165 | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV) | Limit (dBUV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5850.00         | -5.84       | 95.94          | 90.10        | 122.20       | -32.10      | Peak     | 100         | 231           | P   |
| 2   | 5855.00         | -5.84       | 83.62          | 77.78        | 110.80       | -33.02      | Peak     | 100         | 231           | P   |
| 3   | 5875.00         | -5.85       | 71.42          | 65.57        | 105.20       | -39.63      | Peak     | 100         | 231           | P   |
| 4   | 5925.00         | -5.87       | 51.83          | 45.96        | 54.00        | -8.04       | Average  | 100         | 231           | P   |
| 5   | 5925.00         | -5.87       | 65.49          | 59.62        | 74.00        | -14.38      | Peak     | 100         | 231           | P   |
| 6   | 11650.00        | 2.12        | 40.22          | 42.34        | 54.00        | -11.66      | Average  | 100         | 252           | P   |
| 7   | 11650.00        | 2.12        | 52.31          | 54.43        | 74.00        | -19.57      | Peak     | 100         | 252           | P   |

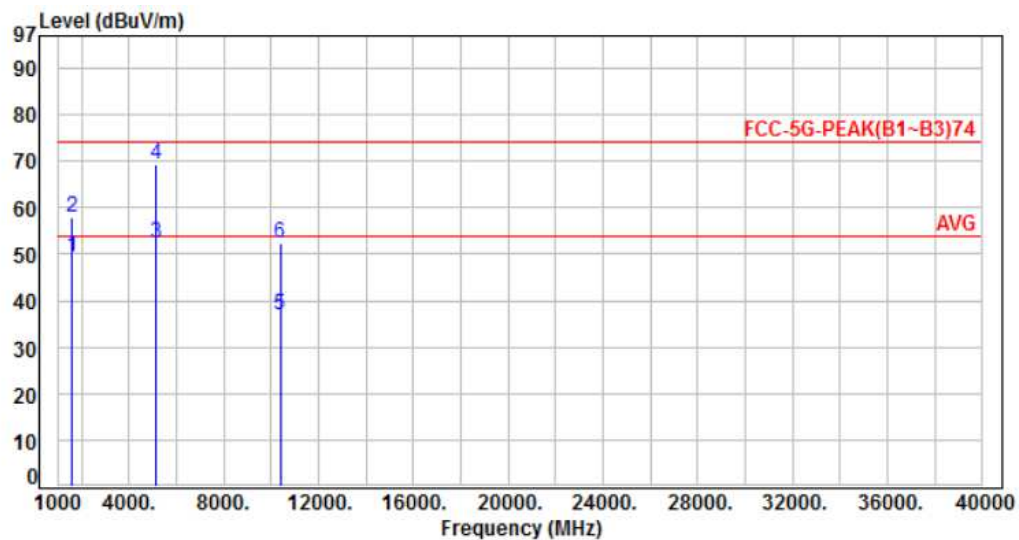
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 5, CH38  | Temperature | : 24°C     |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%      |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 1600.00         | -19.35      | 68.65          | 49.30        | 54.00        | -4.70       | Average  | 198         | 210           | P   |
| 2   | 1600.00         | -19.35      | 77.12          | 57.77        | 74.00        | -16.23      | Peak     | 198         | 210           | P   |
| 3   | 5150.00         | -6.54       | 59.07          | 52.53        | 54.00        | -1.47       | Average  | 150         | 148           | P   |
| 4   | 5150.00         | -6.54       | 75.72          | 69.18        | 74.00        | -4.82       | Peak     | 150         | 148           | P   |
| 5   | 10380.00        | 0.68        | 36.30          | 36.98        | 54.00        | -17.02      | Average  | 100         | 114           | P   |
| 6   | 10380.00        | 0.68        | 51.75          | 52.43        | 74.00        | -21.57      | Peak     | 100         | 114           | P   |

Note: Level=Reading+Factor

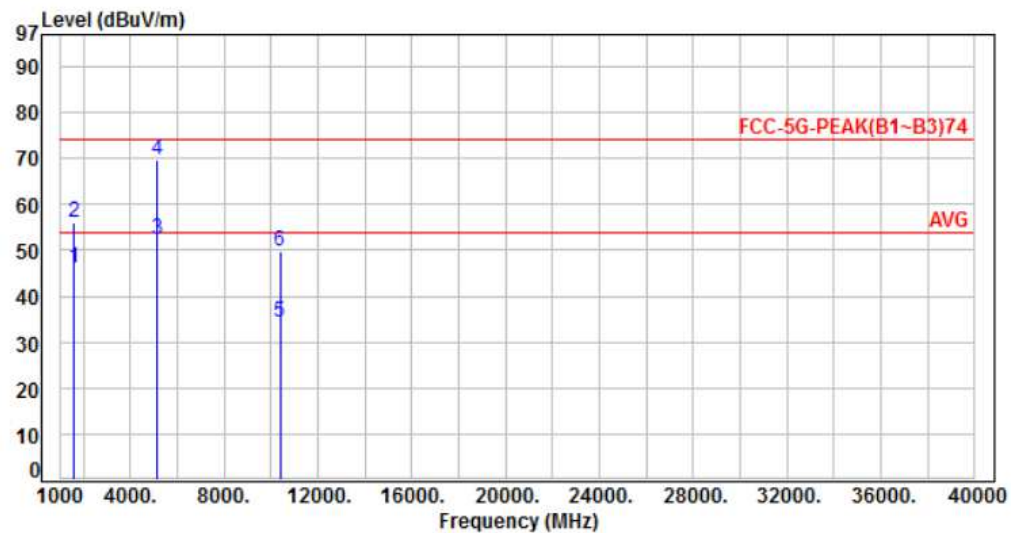
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor





|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 5, CH38  | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 1600.00         | -19.35      | 65.56          | 46.21        | 54.00        | -7.79       | Average  | 100         | 198           | P   |
| 2   | 1600.00         | -19.35      | 75.32          | 55.97        | 74.00        | -18.03      | Peak     | 100         | 198           | P   |
| 3   | 5150.00         | -6.54       | 58.82          | 52.28        | 54.00        | -1.72       | Average  | 122         | 108           | P   |
| 4   | 5150.00         | -6.54       | 76.22          | 69.68        | 74.00        | -4.32       | Peak     | 122         | 108           | P   |
| 5   | 10380.00        | 0.68        | 33.79          | 34.47        | 54.00        | -19.53      | Average  | 117         | 221           | P   |
| 6   | 10380.00        | 0.68        | 49.10          | 49.78        | 74.00        | -24.22      | Peak     | 117         | 221           | P   |

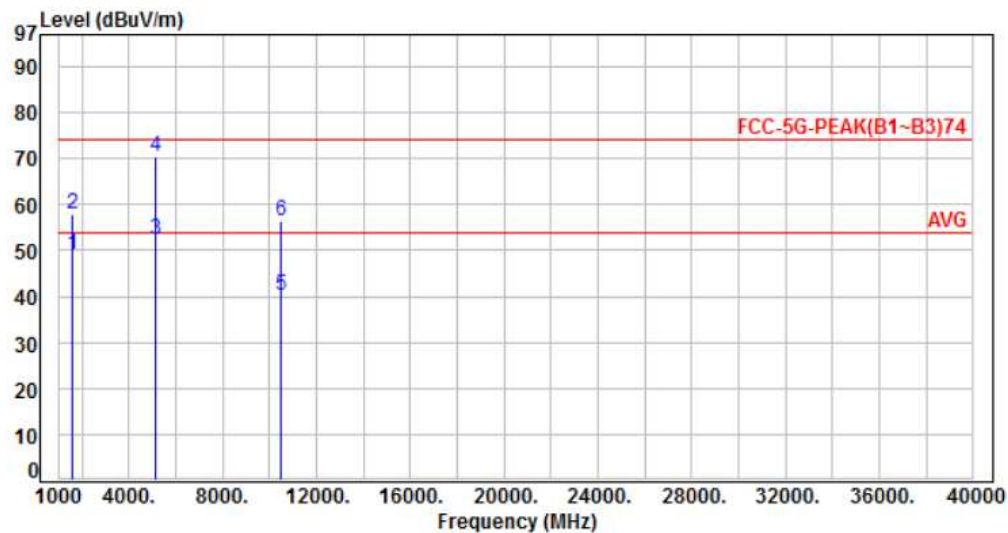
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 5, CH46  | Temperature | : 24°C     |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%      |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 1600.00         | -19.41      | 68.54          | 49.13        | 54.00        | -4.87       | Average  | 195         | 202           | P   |
| 2   | 1600.00         | -19.41      | 77.49          | 58.08        | 74.00        | -15.92      | Peak     | 195         | 202           | P   |
| 3   | 5150.00         | -6.47       | 58.89          | 52.42        | 54.00        | -1.58       | Average  | 150         | 137           | P   |
| 4   | 5150.00         | -6.47       | 76.78          | 70.31        | 74.00        | -3.69       | Peak     | 150         | 137           | P   |
| 5   | 10460.00        | 0.31        | 39.84          | 40.15        | 54.00        | -13.85      | Average  | 100         | 352           | P   |
| 6   | 10460.00        | 0.31        | 56.08          | 56.39        | 74.00        | -17.61      | Peak     | 100         | 352           | P   |

Note: Level=Reading+Factor

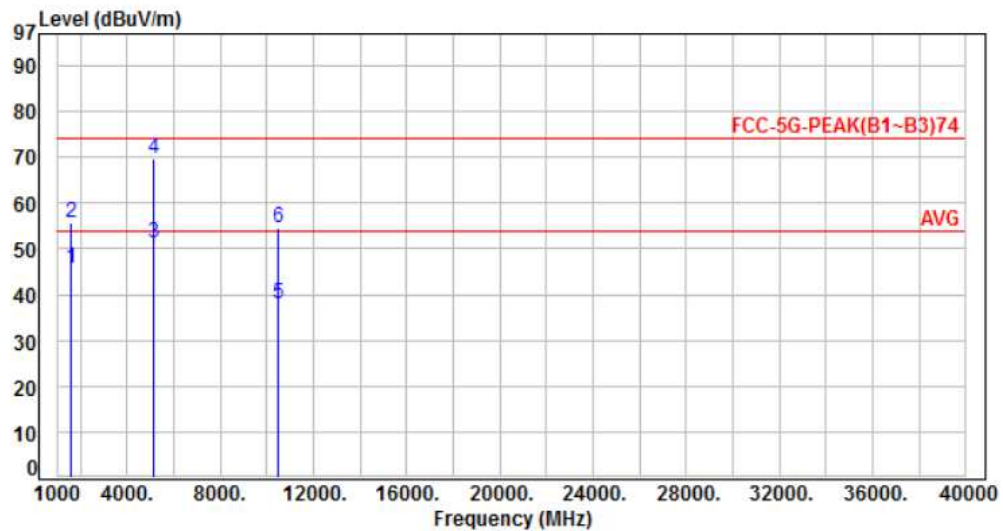
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor





|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 5, CH46  | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 1600.00         | -19.29      | 65.12          | 45.83        | 54.00        | -8.17       | Average  | 100         | 198           | P   |
| 2   | 1600.00         | -19.29      | 74.83          | 55.54        | 74.00        | -18.46      | Peak     | 100         | 198           | P   |
| 3   | 5150.00         | -6.47       | 57.77          | 51.30        | 54.00        | -2.70       | Average  | 301         | 290           | P   |
| 4   | 5150.00         | -6.47       | 76.12          | 69.65        | 74.00        | -4.35       | Peak     | 301         | 290           | P   |
| 5   | 10460.00        | 0.91        | 37.25          | 38.16        | 54.00        | -15.84      | Average  | 297         | 41            | P   |
| 6   | 10460.00        | 0.91        | 53.77          | 54.68        | 74.00        | -19.32      | Peak     | 297         | 41            | P   |

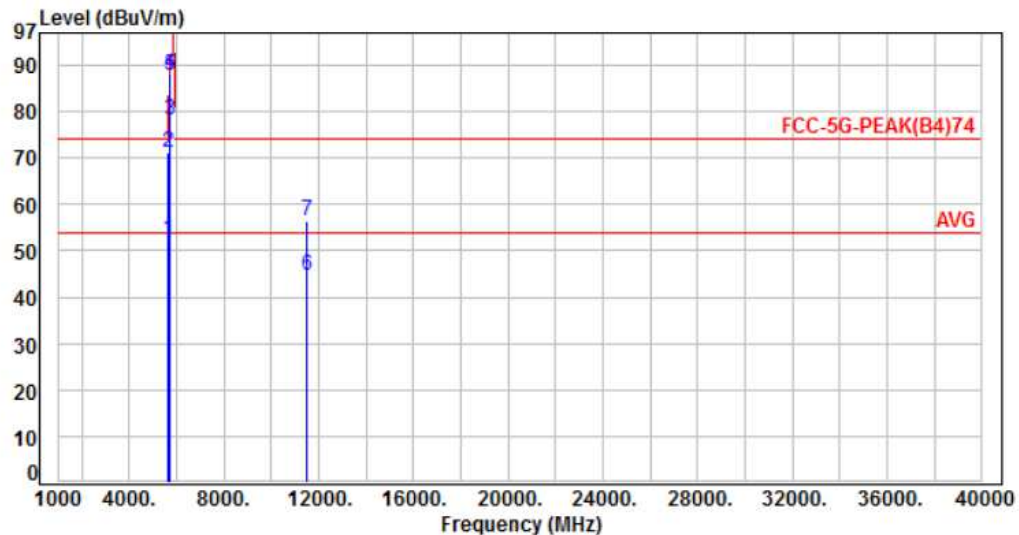
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 5, CH151 | Temperature | : 24°C     |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%      |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 58.07          | 52.30        | 54.00        | -1.70       | Average  | 164         | 209           | P   |
| 2   | 5650.00         | -5.77       | 76.80          | 71.03        | 74.00        | -2.97       | Peak     | 164         | 209           | P   |
| 3   | 5700.00         | -5.79       | 83.90          | 78.11        | 105.20       | -27.09      | Peak     | 164         | 209           | P   |
| 4   | 5720.00         | -5.80       | 93.93          | 88.13        | 110.80       | -22.67      | Peak     | 164         | 209           | P   |
| 5   | 5725.00         | -5.80       | 93.65          | 87.85        | 122.20       | -34.35      | Peak     | 164         | 209           | P   |
| 6   | 11510.00        | 2.07        | 42.69          | 44.76        | 54.00        | -9.24       | Average  | 141         | 237           | P   |
| 7   | 11510.00        | 2.07        | 54.39          | 56.46        | 74.00        | -17.54      | Peak     | 141         | 237           | P   |

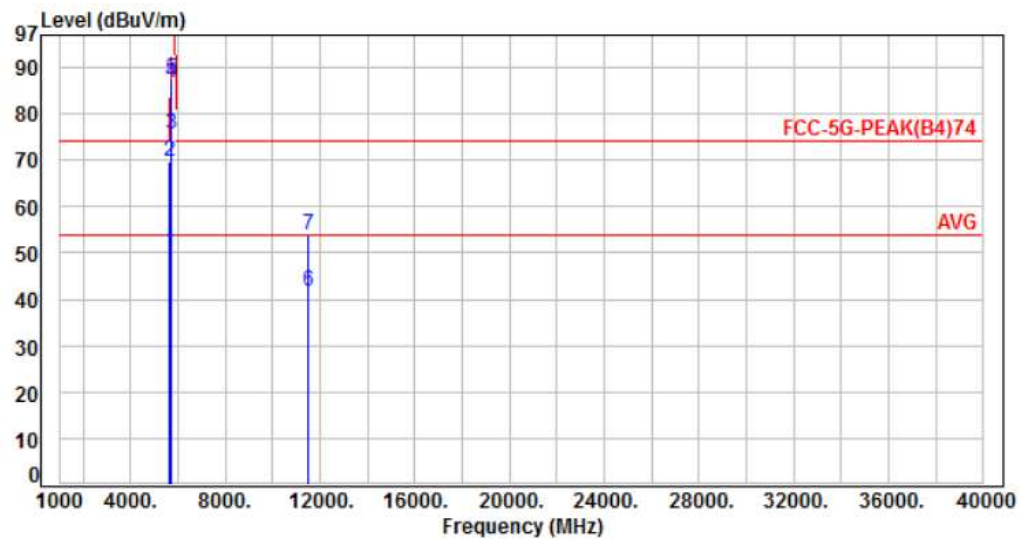
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 5, CH151 | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 55.98          | 50.21        | 54.00        | -3.79       | Average  | 175         | 210           | P   |
| 2   | 5650.00         | -5.77       | 75.31          | 69.54        | 74.00        | -4.46       | Peak     | 175         | 210           | P   |
| 3   | 5700.00         | -5.79       | 81.54          | 75.75        | 105.20       | -29.45      | Peak     | 175         | 210           | P   |
| 4   | 5720.00         | -5.80       | 92.31          | 86.51        | 110.80       | -24.29      | Peak     | 175         | 210           | P   |
| 5   | 5725.00         | -5.80       | 93.35          | 87.55        | 122.20       | -34.65      | Peak     | 175         | 210           | P   |
| 6   | 11510.00        | 2.07        | 39.54          | 41.61        | 54.00        | -12.39      | Average  | 100         | 244           | P   |
| 7   | 11510.00        | 2.07        | 51.67          | 53.74        | 74.00        | -20.26      | Peak     | 100         | 244           | P   |

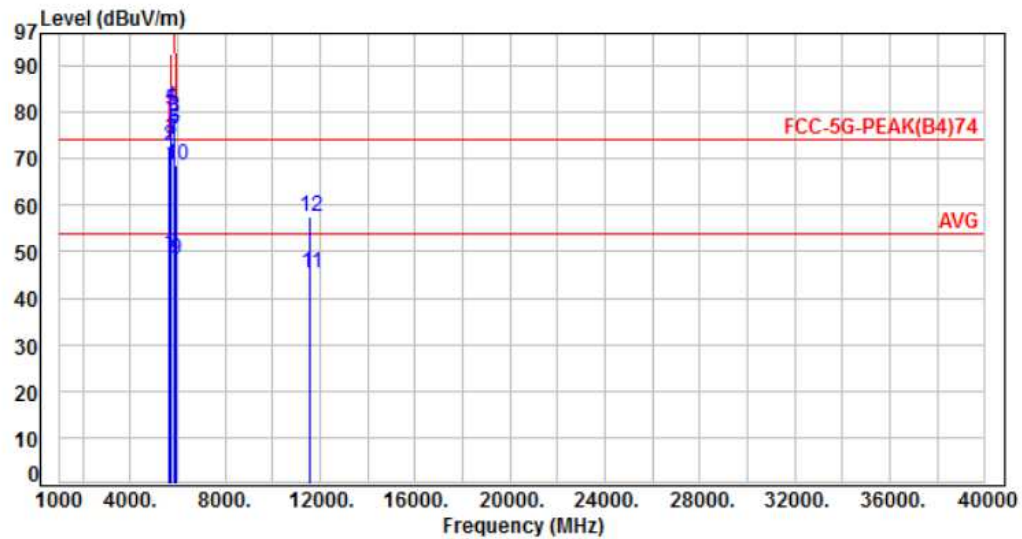
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 5, CH159 | Temperature | : 24°C     |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%      |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 55.30          | 49.53        | 54.00        | -4.47       | Average  | 247         | 152           | P   |
| 2   | 5650.00         | -5.77       | 78.34          | 72.57        | 74.00        | -1.43       | Peak     | 247         | 152           | P   |
| 3   | 5700.00         | -5.79       | 79.96          | 74.17        | 105.20       | -31.03      | Peak     | 247         | 152           | P   |
| 4   | 5720.00         | -5.80       | 86.91          | 81.11        | 110.80       | -29.69      | Peak     | 247         | 152           | P   |
| 5   | 5725.00         | -5.80       | 86.35          | 80.55        | 122.20       | -41.65      | Peak     | 247         | 152           | P   |
| 6   | 5850.00         | -5.84       | 82.24          | 76.40        | 122.20       | -45.80      | Peak     | 223         | 154           | P   |
| 7   | 5855.00         | -5.84       | 80.54          | 74.70        | 110.80       | -36.10      | Peak     | 223         | 154           | P   |
| 8   | 5875.00         | -5.85       | 84.65          | 78.80        | 105.20       | -26.40      | Peak     | 223         | 154           | P   |
| 9   | 5925.00         | -5.87       | 54.20          | 48.33        | 54.00        | -5.67       | Average  | 223         | 154           | P   |
| 10  | 5925.00         | -5.87       | 74.61          | 68.74        | 74.00        | -5.26       | Peak     | 223         | 154           | P   |
| 11  | 11590.00        | 2.10        | 43.12          | 45.22        | 54.00        | -8.78       | Average  | 138         | 244           | P   |
| 12  | 11590.00        | 2.10        | 55.27          | 57.37        | 74.00        | -16.63      | Peak     | 138         | 244           | P   |

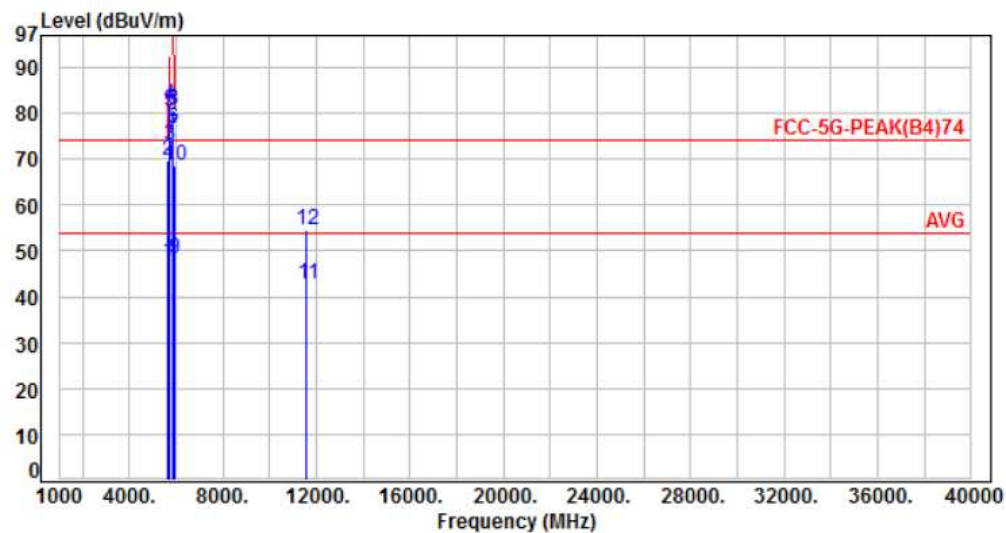
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 5, CH159 | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV) | Limit (dBUV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 53.20          | 47.43        | 54.00        | -6.57       | Average  | 299         | 296           | P   |
| 2   | 5650.00         | -5.77       | 75.29          | 69.52        | 74.00        | -4.48       | Peak     | 299         | 296           | P   |
| 3   | 5700.00         | -5.79       | 78.79          | 73.00        | 105.20       | -32.20      | Peak     | 299         | 296           | P   |
| 4   | 5720.00         | -5.80       | 87.54          | 81.74        | 110.80       | -29.06      | Peak     | 299         | 296           | P   |
| 5   | 5725.00         | -5.80       | 86.13          | 80.33        | 122.20       | -41.87      | Peak     | 299         | 296           | P   |
| 6   | 5850.00         | -5.84       | 82.74          | 76.90        | 122.20       | -45.30      | Peak     | 310         | 296           | P   |
| 7   | 5855.00         | -5.84       | 81.20          | 75.36        | 110.80       | -35.44      | Peak     | 310         | 296           | P   |
| 8   | 5875.00         | -5.85       | 86.77          | 80.92        | 105.20       | -24.28      | Peak     | 310         | 296           | P   |
| 9   | 5925.00         | -5.87       | 54.23          | 48.36        | 54.00        | -5.64       | Average  | 310         | 296           | P   |
| 10  | 5925.00         | -5.87       | 74.35          | 68.48        | 74.00        | -5.52       | Peak     | 310         | 296           | P   |
| 11  | 11590.00        | 2.10        | 40.61          | 42.71        | 54.00        | -11.29      | Average  | 100         | 235           | P   |
| 12  | 11590.00        | 2.10        | 52.58          | 54.68        | 74.00        | -19.32      | Peak     | 100         | 235           | P   |

Note: Level=Reading+Factor

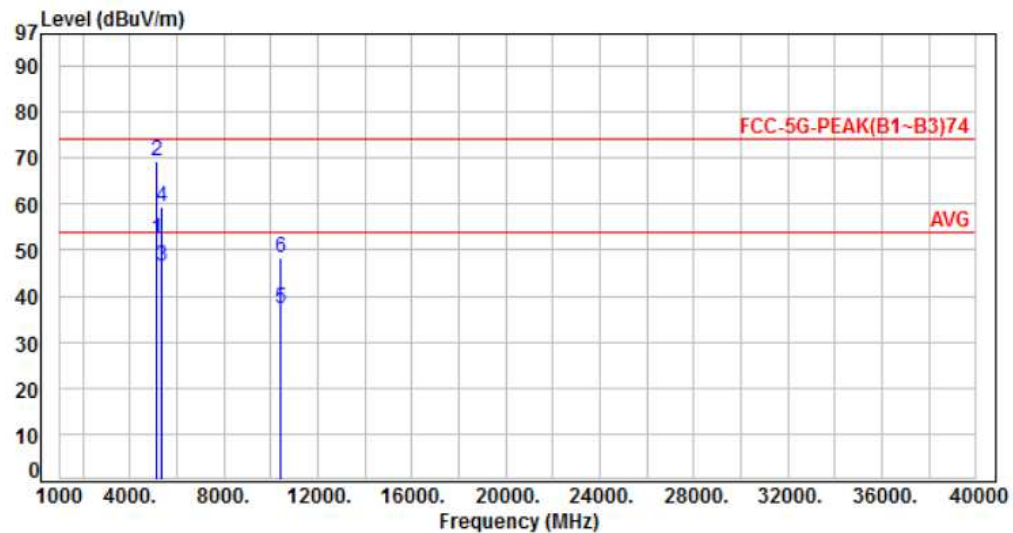
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor





|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 6, CH42  | Temperature | : 24°C     |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%      |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5150.00         | -6.54       | 58.92          | 52.38        | 54.00        | -1.62       | Average  | 301         | 328           | P   |
| 2   | 5150.00         | -6.54       | 75.74          | 69.20        | 74.00        | -4.80       | Peak     | 301         | 328           | P   |
| 3   | 5350.00         | -6.06       | 52.39          | 46.33        | 54.00        | -7.67       | Average  | 360         | 177           | P   |
| 4   | 5350.00         | -6.06       | 65.34          | 59.28        | 74.00        | -14.72      | Peak     | 360         | 177           | P   |
| 5   | 10420.00        | 0.69        | 36.44          | 37.13        | 54.00        | -16.87      | Average  | 131         | 161           | P   |
| 6   | 10420.00        | 0.69        | 47.78          | 48.47        | 74.00        | -25.53      | Peak     | 131         | 161           | P   |

Note: Level=Reading+Factor

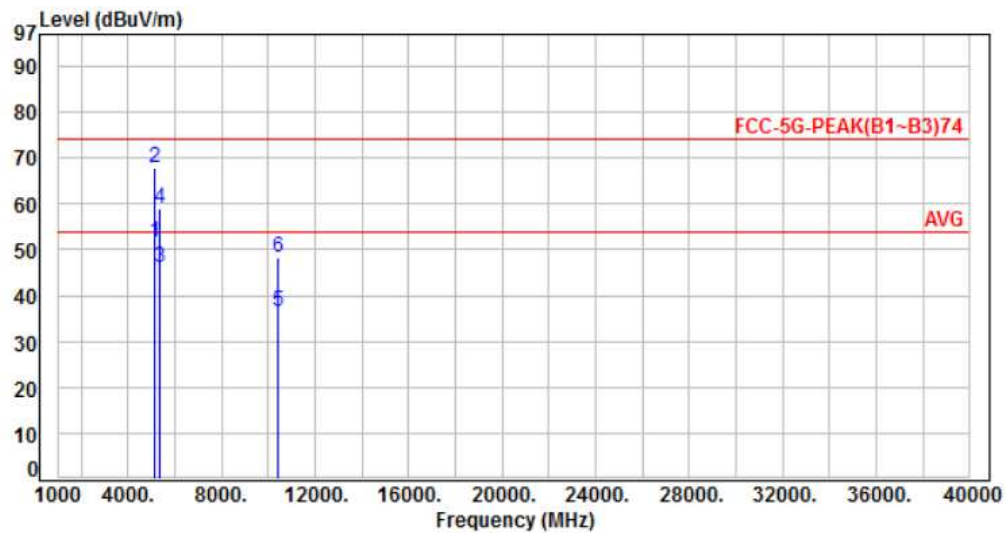
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor





|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 6, CH42  | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5150.00         | -6.54       | 58.10          | 51.56        | 54.00        | -2.44       | Average  | 336         | 295           | P   |
| 2   | 5150.00         | -6.54       | 74.53          | 67.99        | 74.00        | -6.01       | Peak     | 336         | 295           | P   |
| 3   | 5350.00         | -6.06       | 52.22          | 46.16        | 54.00        | -7.84       | Average  | 336         | 295           | P   |
| 4   | 5350.00         | -6.06       | 65.25          | 59.19        | 74.00        | -14.81      | Peak     | 336         | 295           | P   |
| 5   | 10420.00        | 0.69        | 35.70          | 36.39        | 54.00        | -17.61      | Average  | 100         | 189           | P   |
| 6   | 10420.00        | 0.69        | 47.53          | 48.22        | 74.00        | -25.78      | Peak     | 100         | 189           | P   |

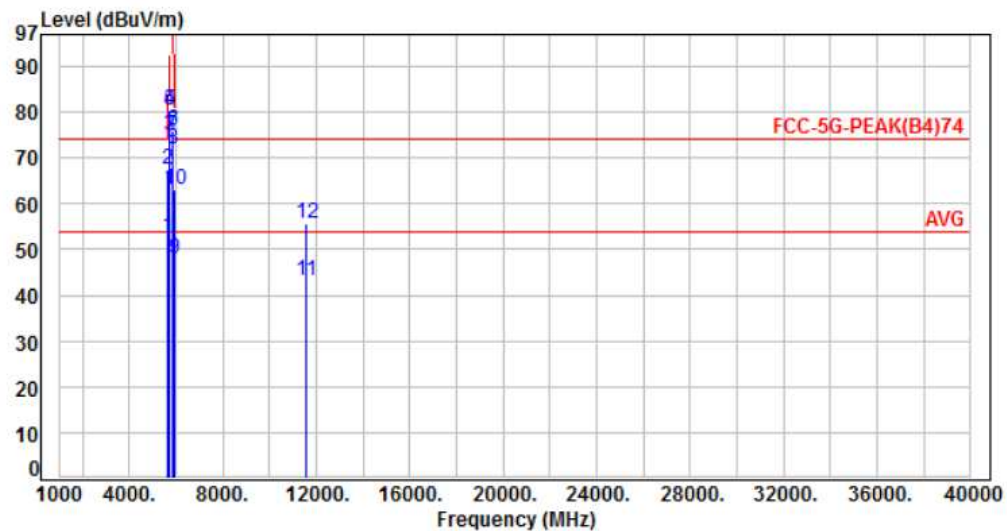
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 6, CH155 | Temperature | : 24°C     |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%      |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV) | Limit (dBUV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 58.36          | 52.59        | 54.00        | -1.41       | Average  | 194         | 167           | P   |
| 2   | 5650.00         | -5.77       | 73.28          | 67.51        | 74.00        | -6.49       | Peak     | 194         | 167           | P   |
| 3   | 5700.00         | -5.79       | 80.77          | 74.98        | 105.20       | -30.22      | Peak     | 194         | 167           | P   |
| 4   | 5720.00         | -5.80       | 86.24          | 80.44        | 110.80       | -30.36      | Peak     | 194         | 167           | P   |
| 5   | 5725.00         | -5.80       | 86.17          | 80.37        | 122.20       | -41.83      | Peak     | 194         | 167           | P   |
| 6   | 5850.00         | -5.84       | 81.94          | 76.10        | 122.20       | -46.10      | Peak     | 201         | 194           | P   |
| 7   | 5855.00         | -5.84       | 81.38          | 75.54        | 110.80       | -35.26      | Peak     | 201         | 194           | P   |
| 8   | 5875.00         | -5.85       | 77.68          | 71.83        | 105.20       | -33.37      | Peak     | 201         | 194           | P   |
| 9   | 5925.00         | -5.87       | 53.73          | 47.86        | 54.00        | -6.14       | Average  | 201         | 194           | P   |
| 10  | 5925.00         | -5.87       | 68.82          | 62.95        | 74.00        | -11.05      | Peak     | 201         | 194           | P   |
| 11  | 11550.00        | 2.09        | 40.89          | 42.98        | 54.00        | -11.02      | Average  | 103         | 241           | P   |
| 12  | 11550.00        | 2.09        | 53.45          | 55.54        | 74.00        | -18.46      | Peak     | 103         | 241           | P   |

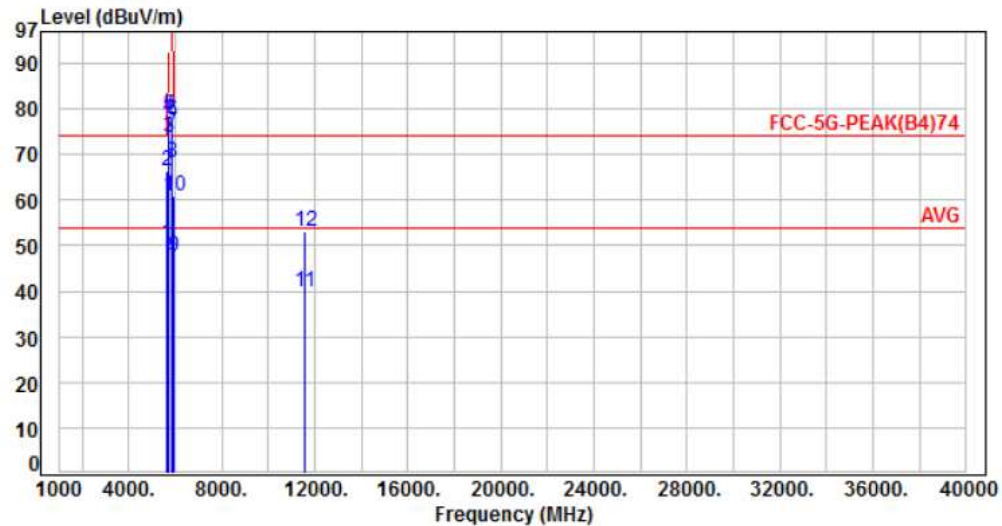
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 6, CH155 | Temperature | : 24°C       |
| Test Date | : Apr. 10, 2017 | Humidity    | : 63%        |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV) | Limit (dBUV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 5650.00         | -5.77       | 56.44          | 50.67        | 54.00        | -3.33       | Average  | 140         | 209           | P   |
| 2   | 5650.00         | -5.77       | 71.98          | 66.21        | 74.00        | -7.79       | Peak     | 140         | 209           | P   |
| 3   | 5700.00         | -5.79       | 79.49          | 73.70        | 105.20       | -31.50      | Peak     | 140         | 209           | P   |
| 4   | 5720.00         | -5.80       | 83.96          | 78.16        | 110.80       | -32.64      | Peak     | 140         | 209           | P   |
| 5   | 5725.00         | -5.80       | 84.21          | 78.41        | 122.20       | -43.79      | Peak     | 140         | 209           | P   |
| 6   | 5850.00         | -5.84       | 83.25          | 77.41        | 122.20       | -44.79      | Peak     | 187         | 219           | P   |
| 7   | 5855.00         | -5.84       | 80.88          | 75.04        | 110.80       | -35.76      | Peak     | 187         | 219           | P   |
| 8   | 5875.00         | -5.85       | 74.19          | 68.34        | 105.20       | -36.86      | Peak     | 187         | 219           | P   |
| 9   | 5925.00         | -5.87       | 53.31          | 47.44        | 54.00        | -6.56       | Average  | 187         | 219           | P   |
| 10  | 5925.00         | -5.87       | 66.88          | 61.01        | 74.00        | -12.99      | Peak     | 187         | 219           | P   |
| 11  | 11550.00        | 2.09        | 37.89          | 39.98        | 54.00        | -14.02      | Average  | 100         | 251           | P   |
| 12  | 11550.00        | 2.09        | 50.89          | 52.98        | 74.00        | -21.02      | Peak     | 100         | 251           | P   |

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



## 6.7. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                 | MHz                   | MHz             | GHz             |
|---------------------|-----------------------|-----------------|-----------------|
| 0.09000 – 0.11000   | 16.42000 – 16.42300   | 399.9 – 410.0   | 4.500 – 5.150   |
| 0.49500 – 0.505**   | 16.69475 – 16.69525   | 608.0 – 614.0   | 5.350 – 5.460   |
| 2.17350 – 2.19050   | 16.80425 – 16.80475   | 960.0 – 1240.0  | 7.250 – 7.750   |
| 4.12500 – 4.12800   | 25.50000 – 25.67000   | 1300.0 – 1427.0 | 8.025 – 8.500   |
| 4.17725 – 4.17775   | 37.50000 – 38.25000   | 1435.0 – 1626.5 | 9.000 – 9.200   |
| 4.20725 – 4.20775   | 73.00000 – 74.60000   | 1645.5 – 1646.5 | 9.300 – 9.500   |
| 6.21500 – 6.21800   | 74.80000 – 75.20000   | 1660.0 – 1710.0 | 10.600 – 12.700 |
| 6.26775 – 6.26825   | 108.00000 – 121.94000 | 1718.8 – 1722.2 | 13.250 – 13.400 |
| 6.31175 – 6.31225   | 123.00000 – 138.00000 | 2200.0 – 2300.0 | 14.470 – 14.500 |
| 8.29100 – 8.29400   | 149.90000 – 150.05000 | 2310.0 – 2390.0 | 15.350 – 16.200 |
| 8.36200 – 8.36600   | 156.52475 – 156.52525 | 2483.5 – 2500.0 | 17.700 – 21.400 |
| 8.37625 – 8.38675   | 156.70000 – 156.90000 | 2655.0 – 2900.0 | 22.010 – 23.120 |
| 8.41425 – 8.41475   | 162.01250 – 167.17000 | 3260.0 – 3267.0 | 23.600 – 24.000 |
| 12.29000 – 12.29300 | 167.72000 – 173.20000 | 3332.0 – 3339.0 | 31.200 – 31.800 |
| 12.51975 – 12.52025 | 240.00000 – 285.00000 | 3345.8 – 3358.0 | 36.430 – 36.500 |
| 12.57675 – 12.57725 | 322.00000 – 335.40000 | 3600.0 – 4400.0 | Above 38.6      |
| 13.36000 – 13.41000 |                       |                 |                 |

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



## 7. On Time, Duty Cycle and Measurement methods

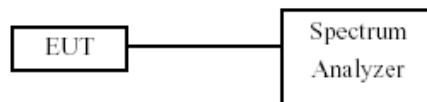
### 7.1. Test Limit

None; for reporting purposes only.

### 7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

### 7.3. Test Setup Layout



### 7.4. Test Result and Data

Temperature: 24°C

Humidity: 63%

Test Date: Apr. 13, 2017

#### Non Beamforming

| Modulation Type | On Time (msec) | Period Time (msec) | Duty Cycle (%) | 1/T Minimum VBW(Hz) | Duty Cycle correction Factor (dB) |
|-----------------|----------------|--------------------|----------------|---------------------|-----------------------------------|
| 802.11a         | 2.09           | 2.10               | 99.52%         | 478.47              | 0.02                              |
| 802.11ac VHT20  | 1.95           | 1.96               | 99.49%         | 512.82              | 0.02                              |
| 802.11ac VHT40  | 0.98           | 0.99               | 98.39%         | 1024.59             | 0.07                              |
| 802.11ac VHT80  | 0.47           | 0.49               | 95.95%         | 2109.70             | 0.18                              |

#### Beamforming

| Modulation Type | On Time (msec) | Period Time (msec) | Duty Cycle (%) | 1/T Minimum VBW(Hz) | Duty Cycle correction Factor (dB) |
|-----------------|----------------|--------------------|----------------|---------------------|-----------------------------------|
| 802.11ac VHT20  | 3.92           | 5.00               | 78.40%         | 255.10              | 1.06                              |
| 802.11ac VHT40  | 3.00           | 4.32               | 69.44%         | 333.33              | 1.58                              |
| 802.11ac VHT80  | 5.20           | 6.04               | 86.09%         | 192.31              | 0.65                              |

### 7.5. Measurement Methods

|                                            |                                                           |
|--------------------------------------------|-----------------------------------------------------------|
| 26 dB and 6dB Emission BW                  | KDB 789033 D02 v01, Section C                             |
| 99% Occupied BW                            | KDB 789033 D02 v01, Section D                             |
| Conducted Output Power                     | KDB 789033 D02 v01, Section E.2.d and E.3.b (Method PM-G) |
| Power Spectral Density                     | KDB 789033 D02 v01, Section F                             |
| Unwanted emissions in restricted bands     | KDB 789033 D02 v01, Sections G and H                      |
| Unwanted emissions in non-restricted bands | KDB 789033 D02 v01, Sections G and H                      |





## 8. 6dB Bandwidth

### 8.1. Test Limit

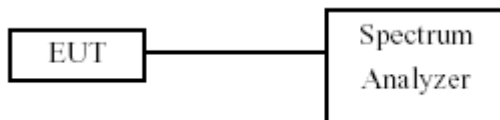
FCC §15.407

The minimum 6 dB bandwidth shall be at least 500 kHz.

### 8.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW  $\geq 3 \times$  RBW, peak detector and max hold.

### 8.3. Test Setup Layout





## 8.4. Test Result and Data

Temperature: 24°C

Humidity: 63%

Test Date: Apr. 13, 2017

### Non Beamforming

#### In the 5.8G Band

| Modulation Type | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |       | Minimum Limit (MHz) |
|-----------------|---------|-----------------|---------------------|-------|---------------------|
|                 |         |                 | ANT 1               | ANT 2 |                     |
| 802.11a         | 149     | 5745            | 16.40               | 16.40 | 0.50                |
|                 | 157     | 5785            | 16.30               | 16.40 | 0.50                |
|                 | 165     | 5825            | 16.30               | 16.30 | 0.50                |
| 802.11ac VHT20  | 149     | 5745            | 17.50               | 17.50 | 0.50                |
|                 | 157     | 5785            | 17.60               | 17.60 | 0.50                |
|                 | 165     | 5825            | 17.60               | 17.60 | 0.50                |
| 802.11ac VHT40  | 155     | 5755            | 35.60               | 36.60 | 0.50                |
|                 | 159     | 5795            | 36.40               | 36.40 | 0.50                |
| 802.11ac VHT80  | 155     | 5775            | 76.16               | 76.16 | 0.50                |

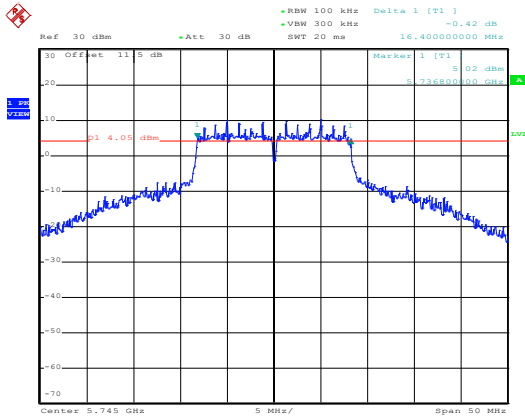
### Beamforming

#### In the 5.8G Band

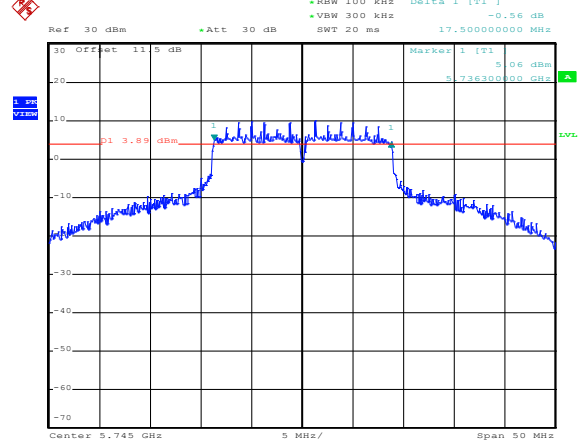
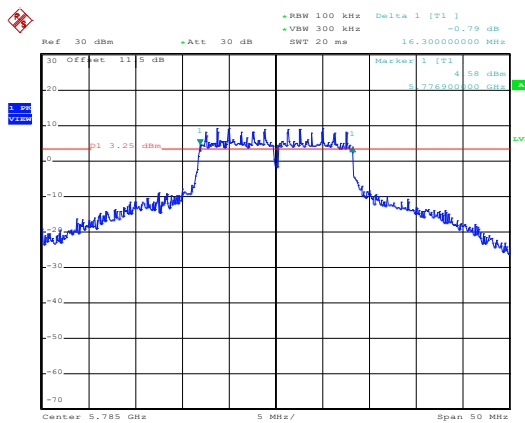
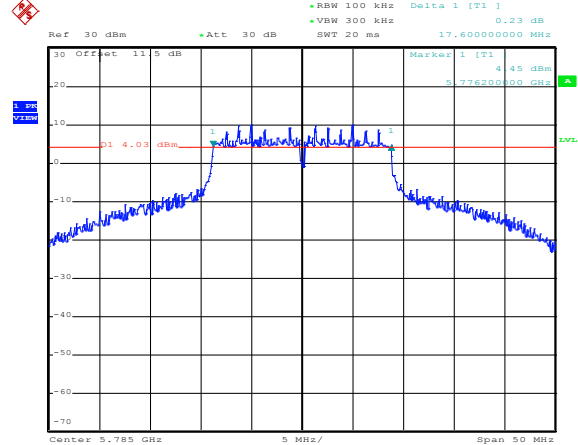
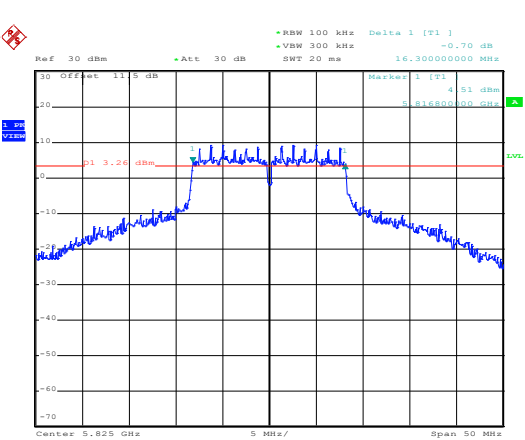
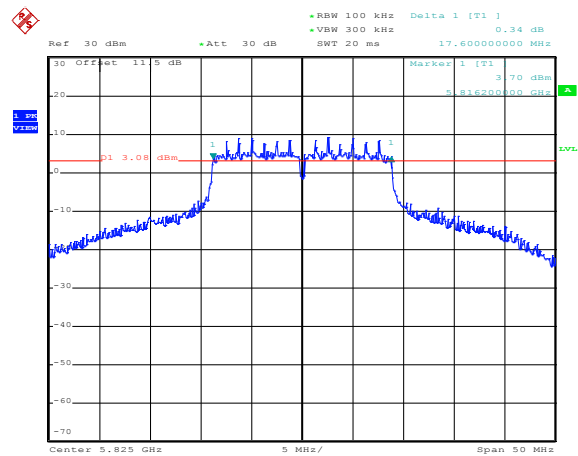
| Modulation Type | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |       | Minimum Limit (MHz) |
|-----------------|---------|-----------------|---------------------|-------|---------------------|
|                 |         |                 | ANT 1               | ANT 2 |                     |
| 802.11ac VHT20  | 149     | 5745            | 17.60               | 17.50 | 0.50                |
|                 | 157     | 5785            | 17.60               | 17.50 | 0.50                |
|                 | 165     | 5825            | 17.60               | 17.60 | 0.50                |
| 802.11ac VHT40  | 155     | 5755            | 36.60               | 36.60 | 0.50                |
|                 | 159     | 5795            | 36.40               | 36.40 | 0.50                |
| 802.11ac VHT80  | 155     | 5775            | 75.84               | 76.48 | 0.50                |

**Non Beamforming****ANT 1**

Modulation Standard: 802.11a (6Mbps)  
CH149

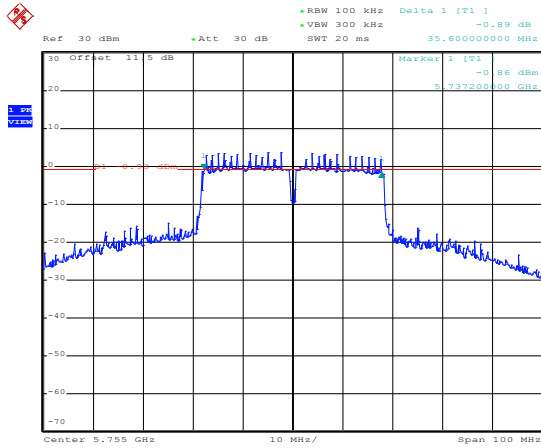
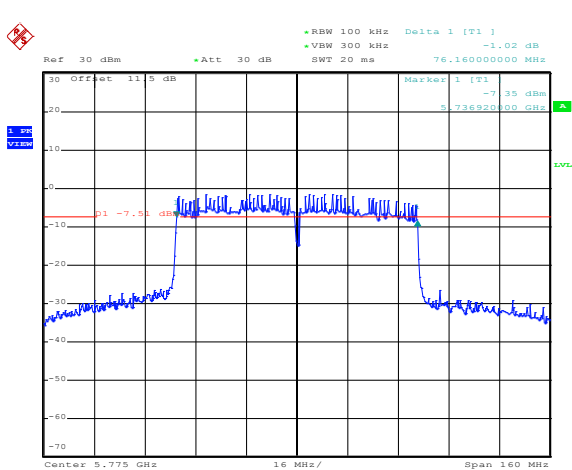


Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH149

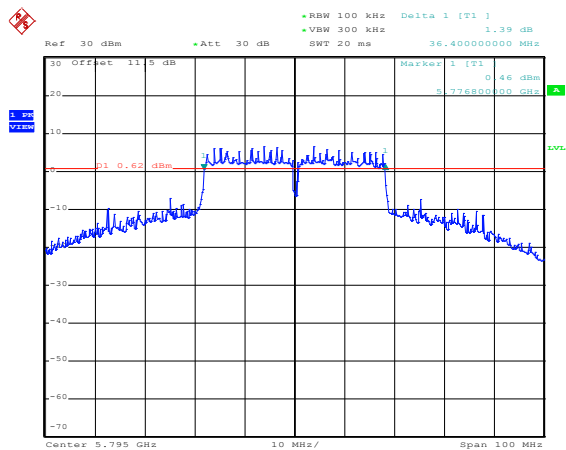
**CH157****CH157****CH165****CH165**



## ANT 1

Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH151Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH155

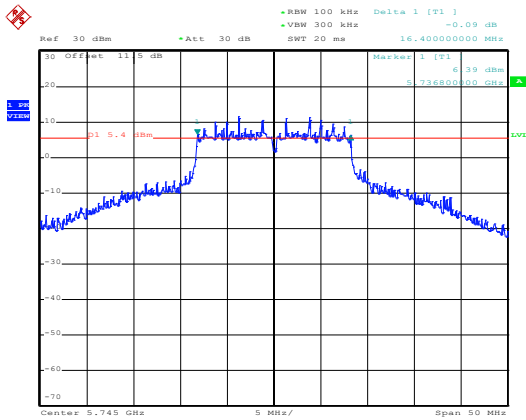
## CH159



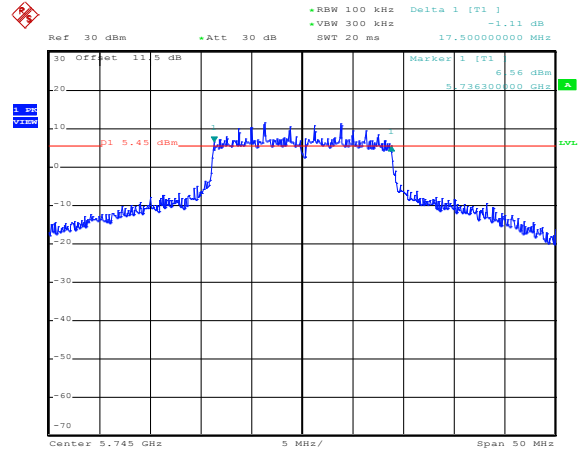


## ANT 2

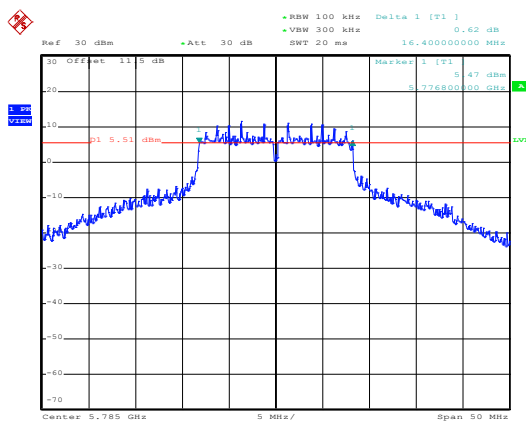
Modulation Standard: 802.11a (6Mbps)  
CH149



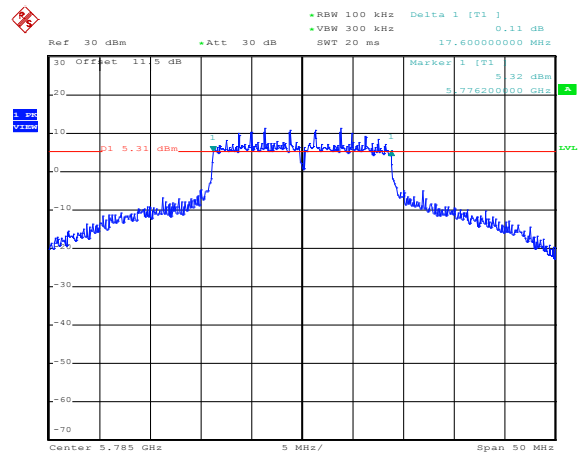
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH149



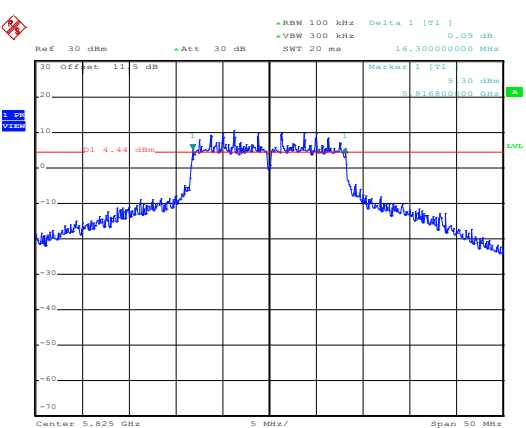
## CH157



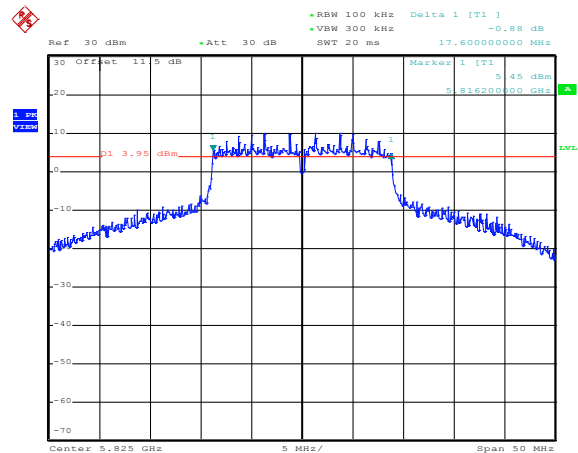
## CH157



## CH165



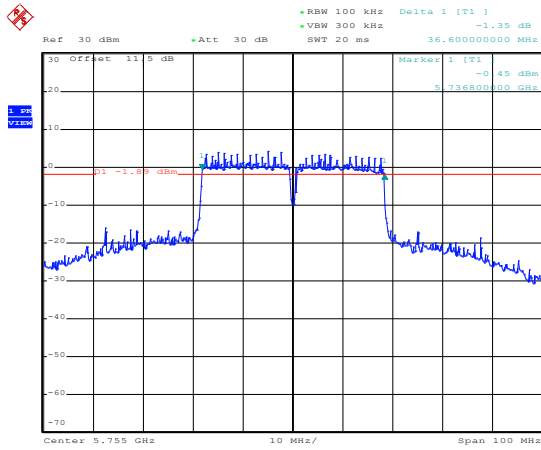
## CH165



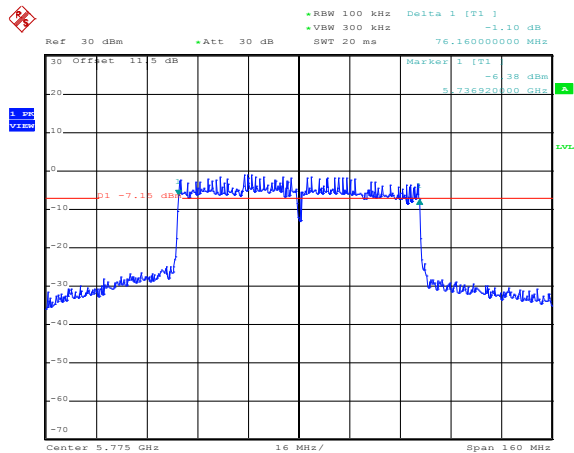


ANT 2

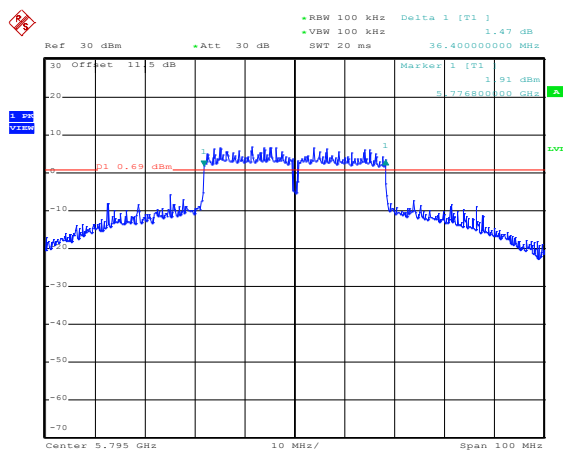
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH151



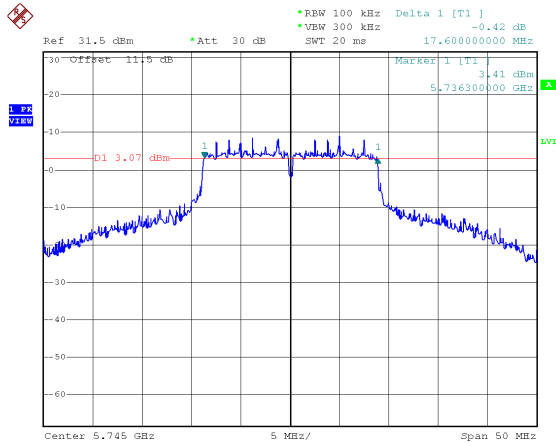
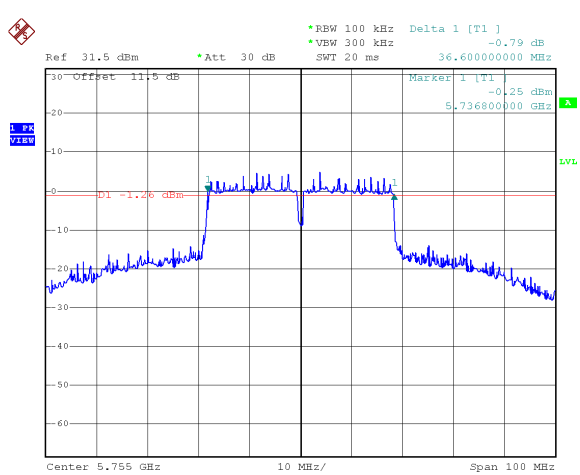
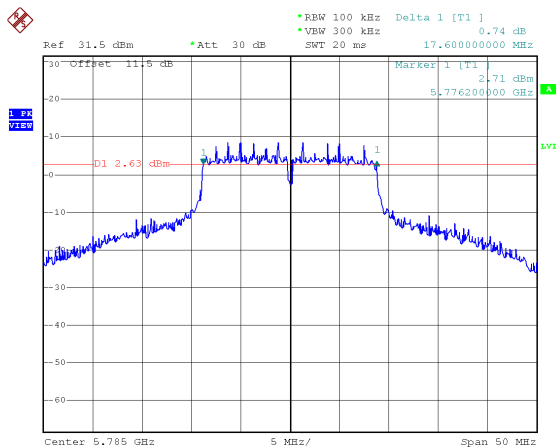
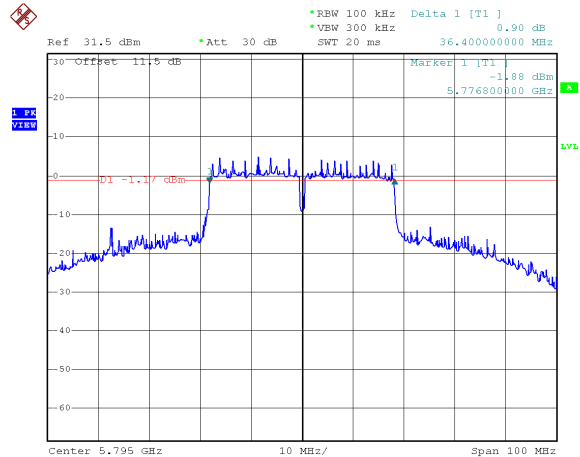
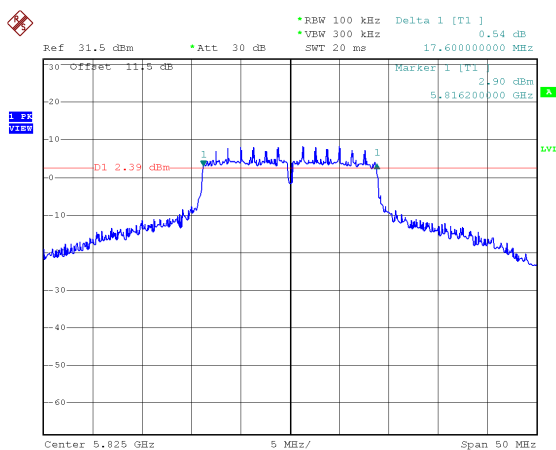
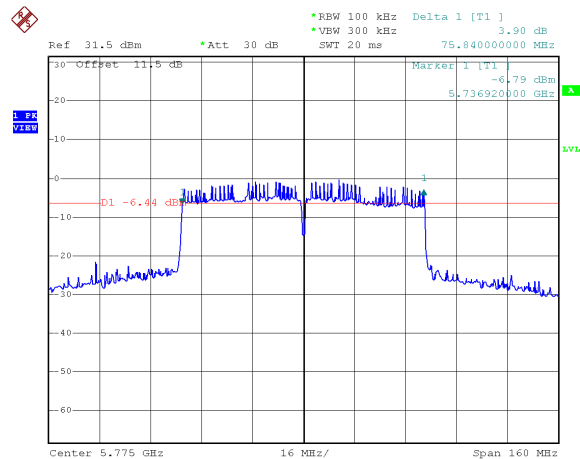
Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH155



CH159

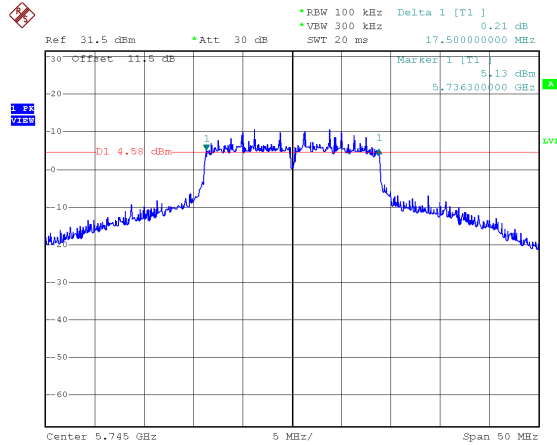
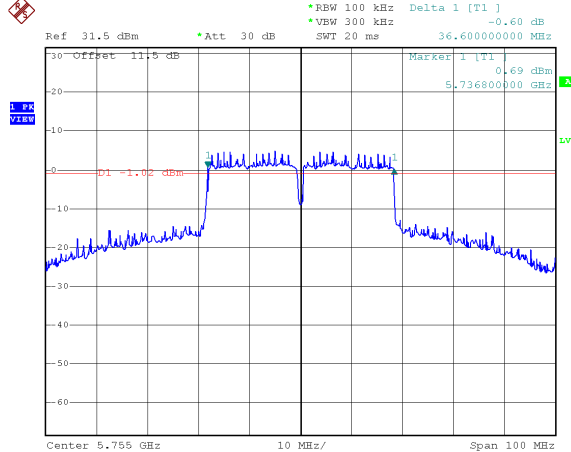




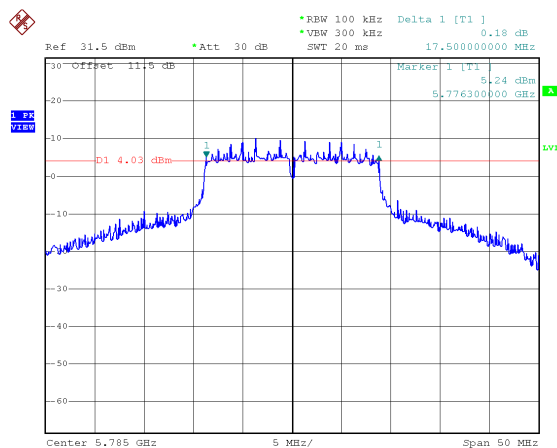
**Beamforming****ANT 1****Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH149****Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH151****CH157****CH159****CH165****Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH155**



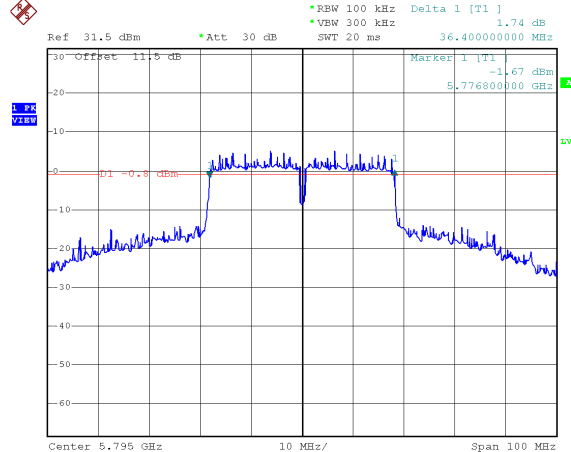
## ANT 2

Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH149Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH151

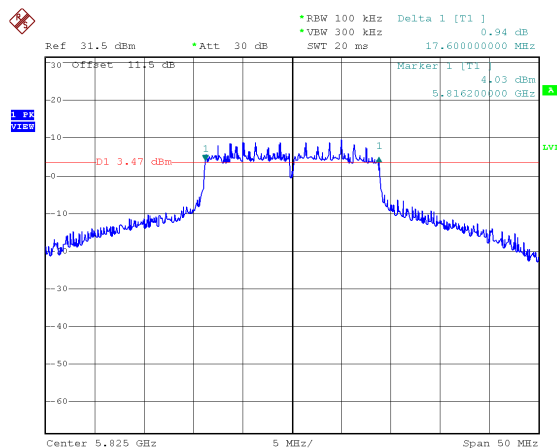
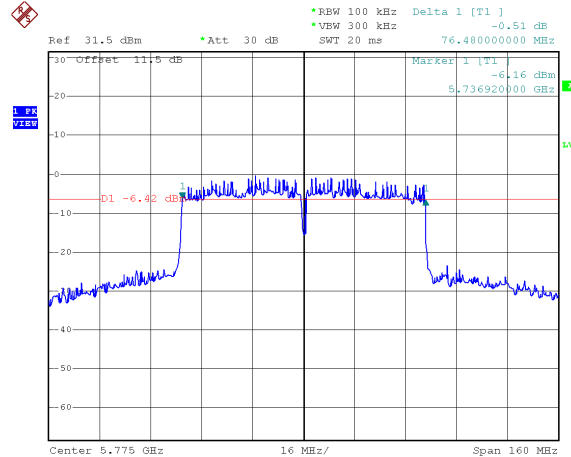
## CH157



## CH159



## CH165

Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH155



## 9. 26dB Bandwidth

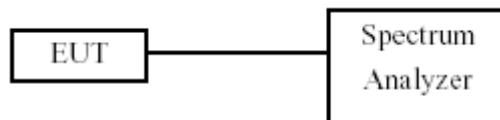
### 9.1. Test Limit

None; for reporting purposes only.

### 9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW  $\geq 3 \times$  RBW, peak detector and max hold.

### 9.3. Test Setup Layout



### 9.4. Test Result and Data

Temperature: 24°C

Humidity: 63%

Test Date: Apr. 13, 2017

#### Non Beamforming

##### In the 5.2G Band

| Modulation Type | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |       |
|-----------------|---------|-----------------|----------------------|-------|
|                 |         |                 | ANT 1                | ANT 2 |
| 802.11a         | 36      | 5180            | 21.90                | 21.80 |
|                 | 44      | 5220            | 42.00                | 44.40 |
|                 | 48      | 5240            | 41.80                | 44.50 |
| 802.11ac VHT20  | 36      | 5180            | 22.20                | 22.00 |
|                 | 44      | 5220            | 45.00                | 47.90 |
|                 | 48      | 5240            | 48.20                | 48.00 |
| 802.11ac VHT40  | 38      | 5190            | 41.80                | 41.60 |
|                 | 46      | 5230            | 60.60                | 57.00 |
| 802.11ac VHT80  | 42      | 5210            | 82.88                | 82.56 |

#### Beamforming

##### In the 5.2G Band

| Modulation Type | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |       |
|-----------------|---------|-----------------|----------------------|-------|
|                 |         |                 | ANT 1                | ANT 2 |
| 802.11ac VHT20  | 36      | 5180            | 22.20                | 22.20 |
|                 | 44      | 5220            | 42.40                | 47.70 |
|                 | 48      | 5240            | 42.70                | 41.80 |
| 802.11ac VHT40  | 38      | 5190            | 42.20                | 42.40 |
|                 | 46      | 5230            | 77.00                | 64.00 |
| 802.11ac VHT80  | 42      | 5210            | 82.88                | 82.56 |

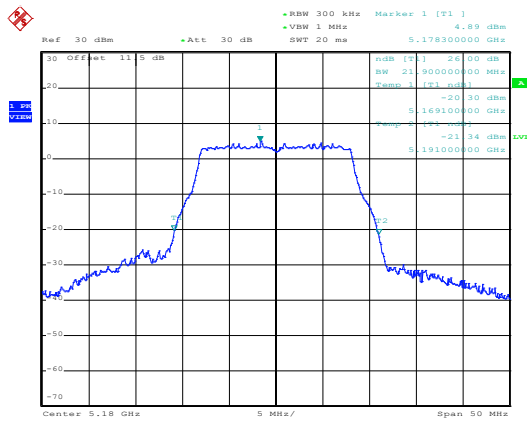
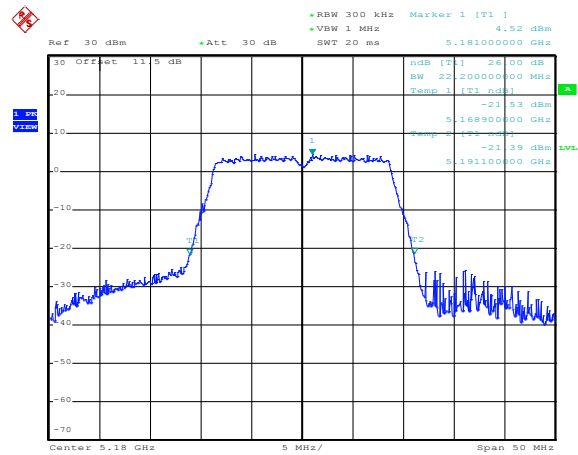


## Non Beamforming

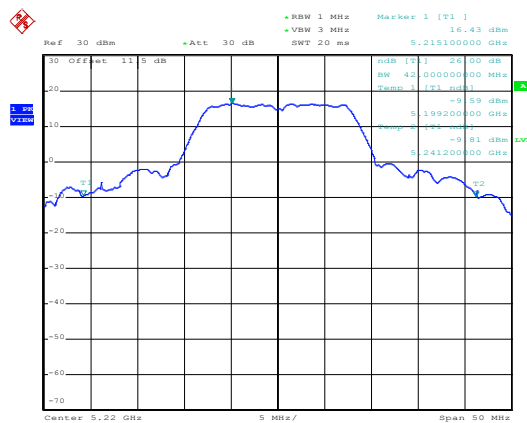
ANT 1

Modulation Standard: 802.11a (6Mbps)

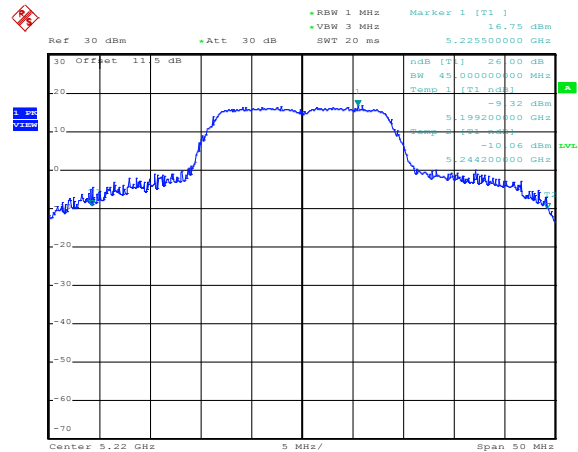
CH36

802.11ac VHT20 (6.5Mbps)  
CH36

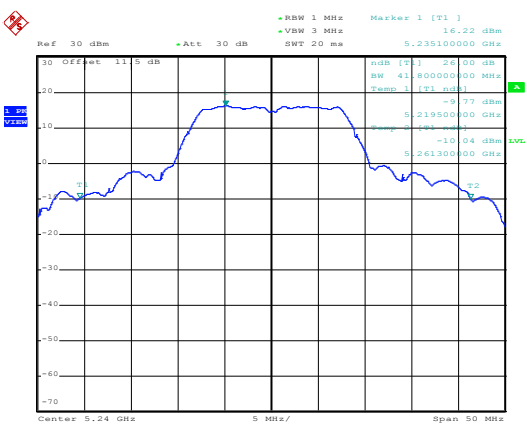
CH44



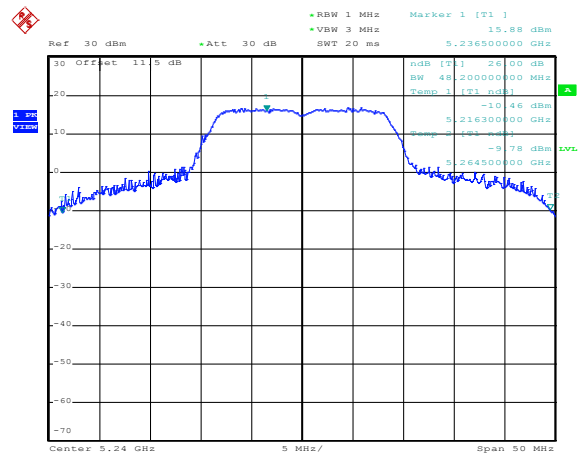
CH44



CH48

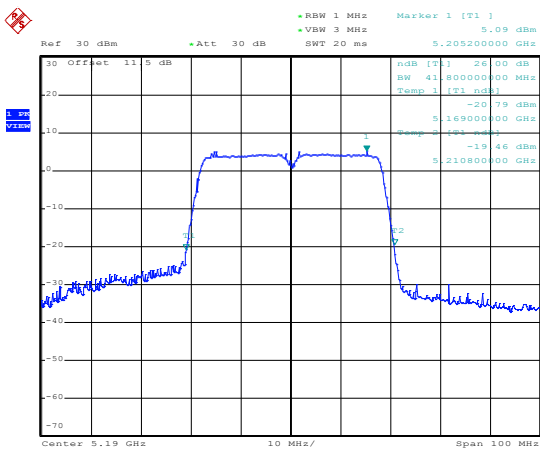
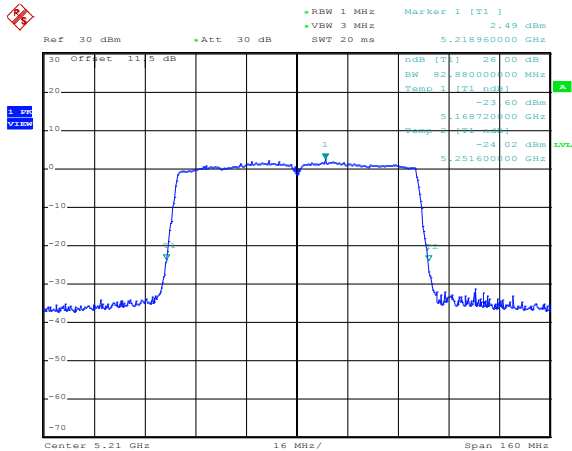


CH48

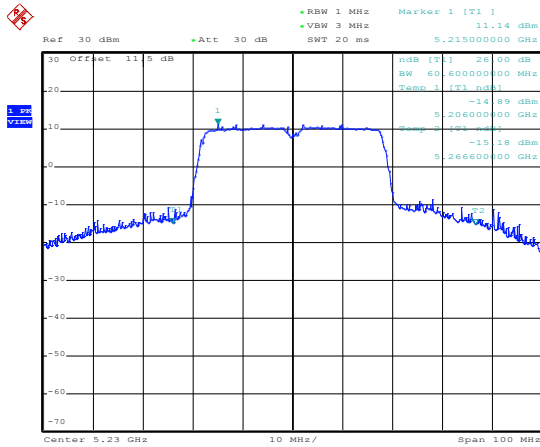




## ANT 1

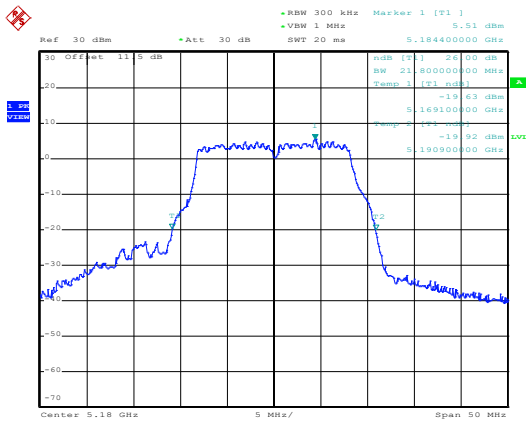
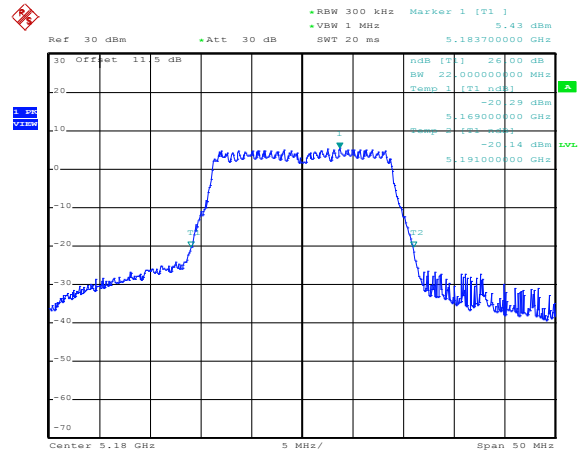
Modulation Standard: 802.11ac VHT40 (13.5Mbps)  
CH38Modulation Standard: 802.11ac VHT80 (29.3Mbps)  
CH42

## CH46

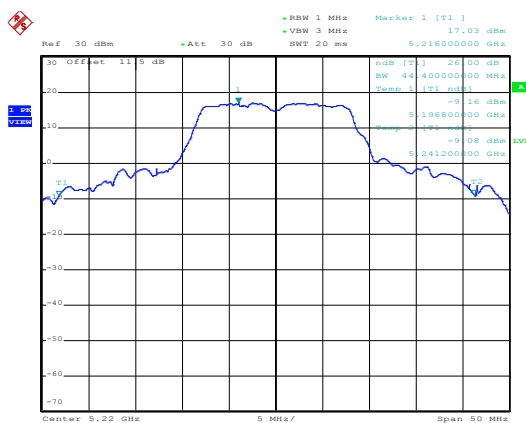




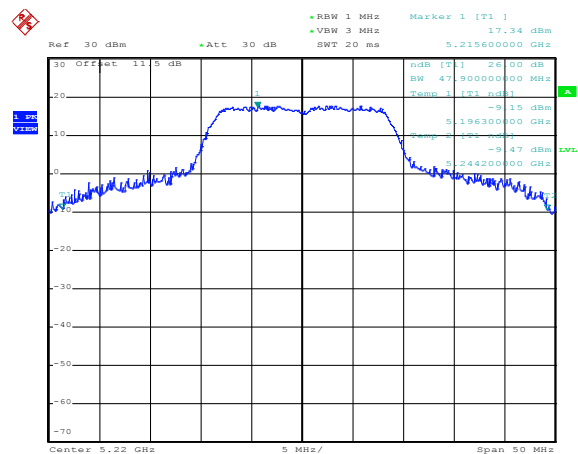
## ANT 2

Modulation Standard: 802.11a (6Mbps)  
CH36802.11ac VHT20 (6.5Mbps)  
CH36

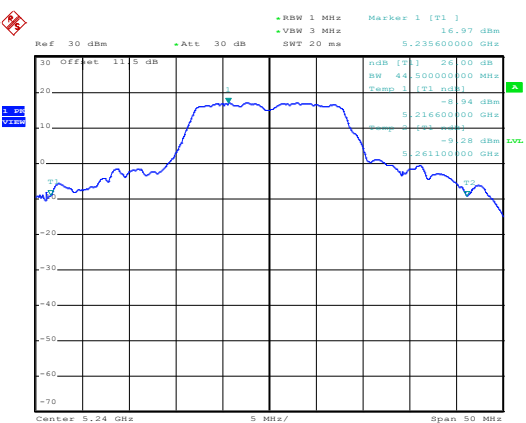
## CH44



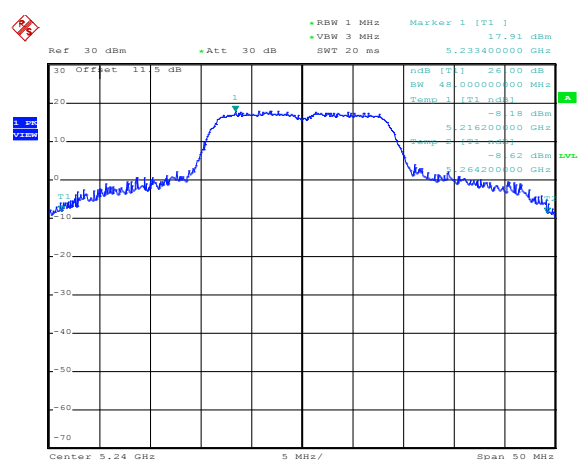
## CH44



## CH48

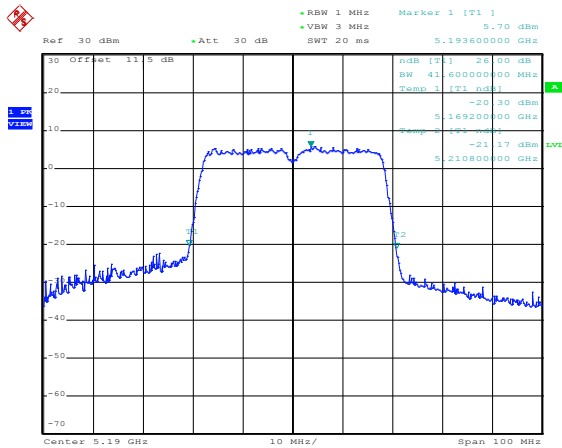
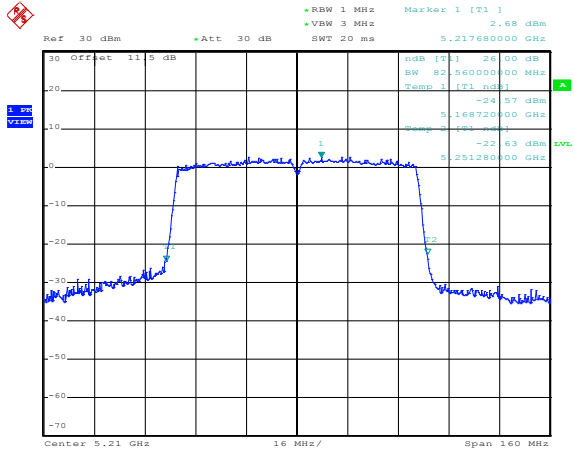


## CH48

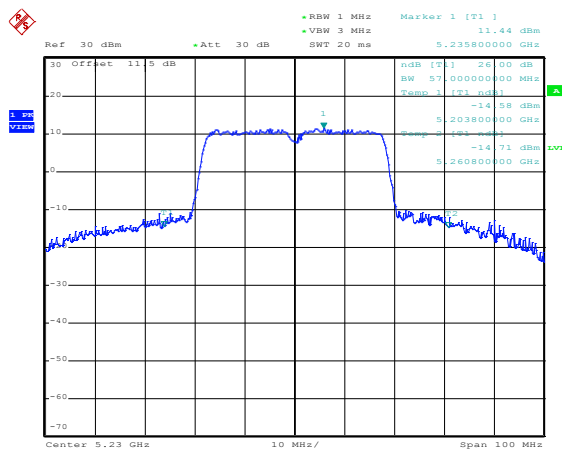




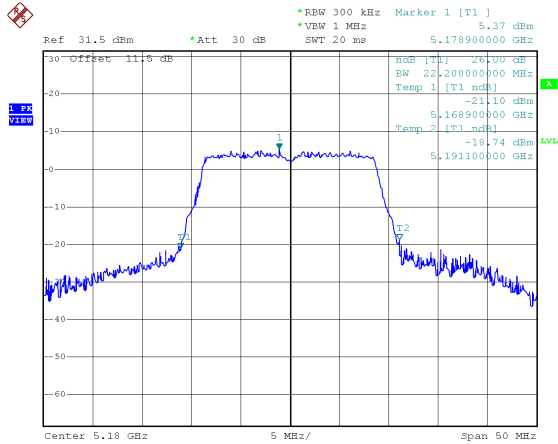
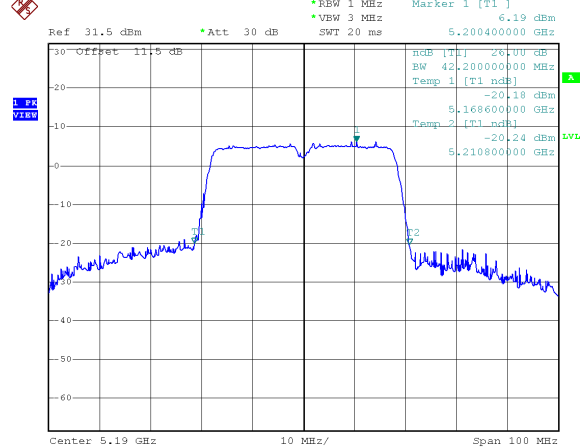
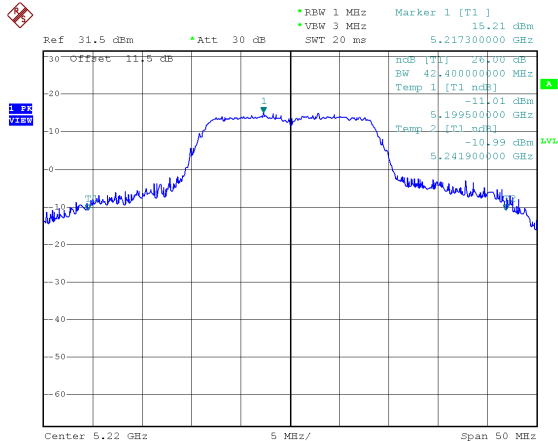
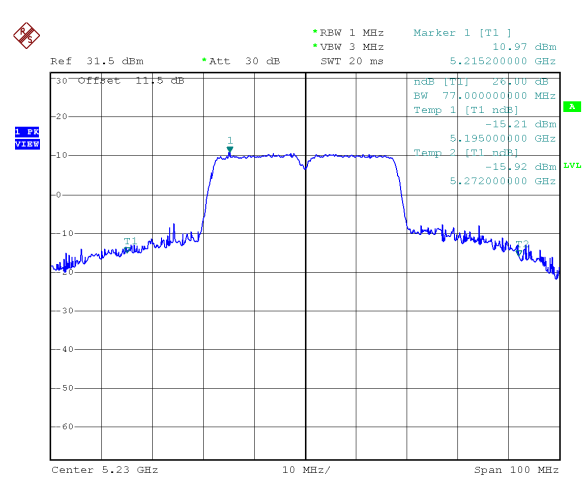
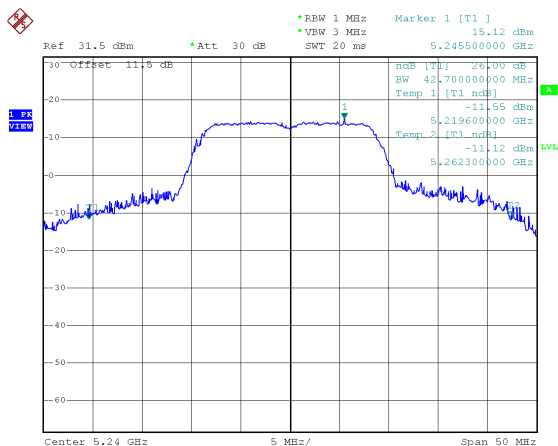
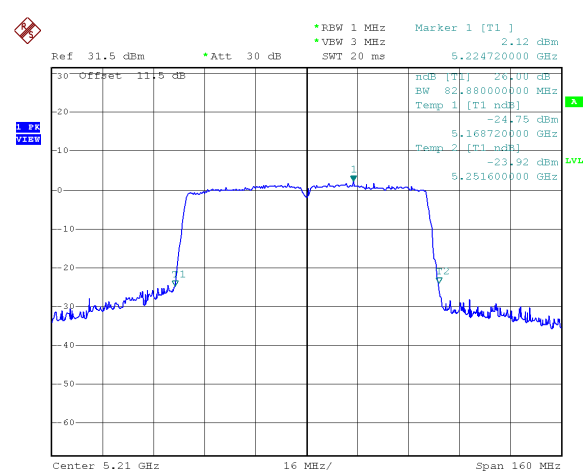
## ANT 2

Modulation Standard: 802.11ac VHT40 (13.5Mbps)  
CH38Modulation Standard: 802.11ac VHT80 (29.3Mbps)  
CH42

## CH46

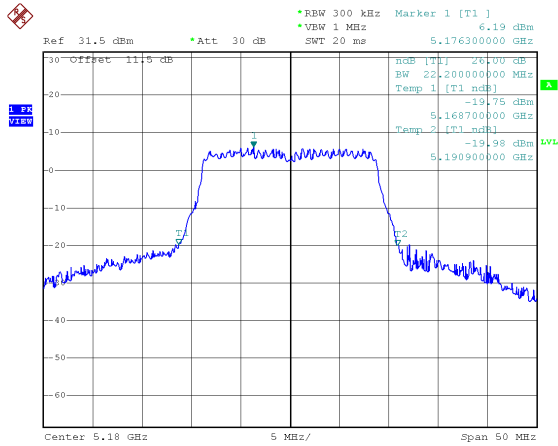
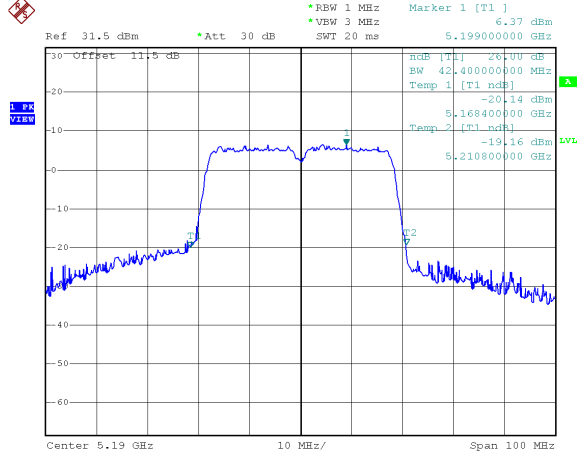




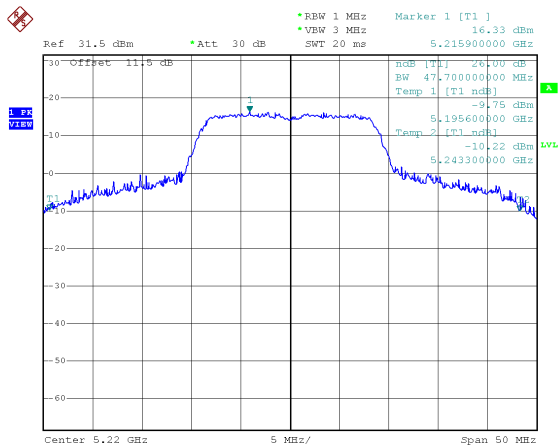
**Beamforming****ANT 1****Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH36****Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH38****CH44****CH46****CH48****Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH42**



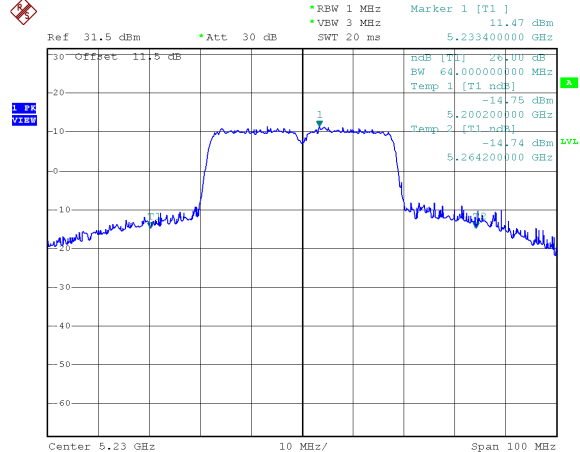
## ANT 2

Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH36Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH38

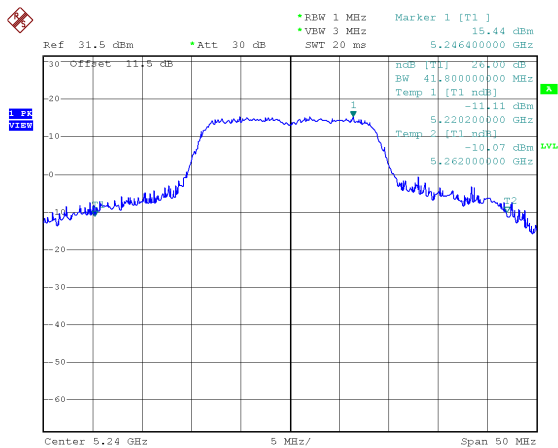
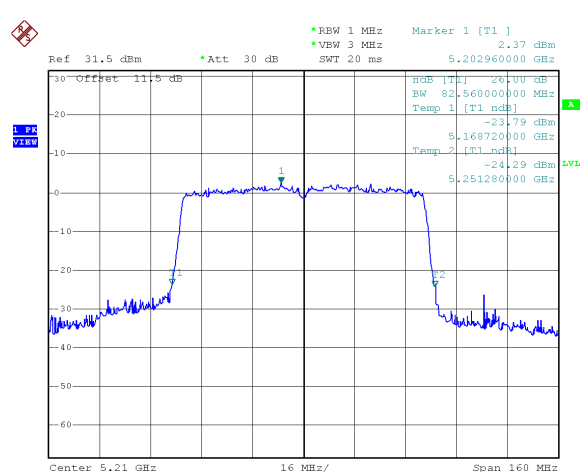
## CH44



## CH46



## CH48

Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH42



## 10. Average Power

### 10.1. Test Limit

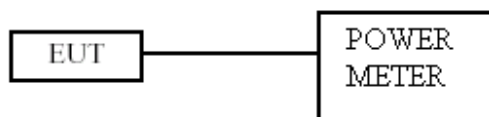
None; for reporting purposes only.

### 10.2. Test Procedure

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

### 10.3. Test Setup Layout





## 10.4. Test Result and Data

Temperature: 24°C

Humidity: 63%

Test Date: Apr. 13, 2017

### Non Beamforming

#### In the 5.2G Band

| Modulation Type | Channel | Frequency (MHz) | Avg Power Output (dBm) |       | Total Power (dBm) | Total Power (mW) | Power Limit (dBm) |
|-----------------|---------|-----------------|------------------------|-------|-------------------|------------------|-------------------|
|                 |         |                 | ANT 1                  | ANT 2 |                   |                  |                   |
| 802.11a         | 36      | 5180            | 13.05                  | 13.31 | 16.19             | 41.61            | 30.00             |
|                 | 44      | 5220            | 19.05                  | 19.11 | 22.09             | 161.82           | 30.00             |
|                 | 48      | 5240            | 19.12                  | 19.33 | 22.24             | 167.36           | 30.00             |
| 802.11an HT20   | 36      | 5180            | 11.98                  | 12.15 | 15.08             | 32.18            | 30.00             |
|                 | 44      | 5220            | 19.09                  | 19.37 | 22.24             | 167.59           | 30.00             |
|                 | 48      | 5240            | 19.14                  | 19.22 | 22.19             | 165.60           | 30.00             |
| 802.11an HT40   | 38      | 5190            | 9.83                   | 9.91  | 12.88             | 19.41            | 30.00             |
|                 | 46      | 5230            | 15.88                  | 15.91 | 18.91             | 77.72            | 30.00             |
| 802.11ac VHT20  | 36      | 5180            | 12.04                  | 12.21 | 15.14             | 32.63            | 30.00             |
|                 | 44      | 5220            | 19.23                  | 19.42 | 22.34             | 171.25           | 30.00             |
|                 | 48      | 5240            | 19.21                  | 19.33 | 22.28             | 169.07           | 30.00             |
| 802.11ac VHT40  | 38      | 5190            | 9.98                   | 10.03 | 13.02             | 20.02            | 30.00             |
|                 | 46      | 5230            | 15.92                  | 16.02 | 18.98             | 79.08            | 30.00             |
| 802.11ac VHT80  | 42      | 5210            | 9.87                   | 9.95  | 12.92             | 19.59            | 30.00             |

#### In the 5.8G Band

| Modulation Type | Channel | Frequency (MHz) | Avg Power Output (dBm) |       | Total Power (dBm) | Total Power (mW) | Power Limit (dBm) |
|-----------------|---------|-----------------|------------------------|-------|-------------------|------------------|-------------------|
|                 |         |                 | ANT 1                  | ANT 2 |                   |                  |                   |
| 802.11a         | 149     | 5745            | 20.08                  | 20.44 | 23.27             | 212.52           | 30.00             |
|                 | 157     | 5785            | 20.12                  | 20.67 | 23.41             | 219.48           | 30.00             |
|                 | 165     | 5825            | 20.05                  | 20.77 | 23.44             | 220.56           | 30.00             |
| 802.11an HT20   | 149     | 5745            | 19.87                  | 20.54 | 23.23             | 210.29           | 30.00             |
|                 | 157     | 5785            | 19.89                  | 20.53 | 23.23             | 210.48           | 30.00             |
|                 | 165     | 5825            | 19.85                  | 20.44 | 23.17             | 207.27           | 30.00             |
| 802.11an HT40   | 151     | 5755            | 17.19                  | 17.44 | 20.33             | 107.82           | 30.00             |
|                 | 159     | 5795            | 20.86                  | 21.16 | 24.02             | 252.52           | 30.00             |
| 802.11ac VHT20  | 149     | 5745            | 19.95                  | 20.58 | 23.29             | 213.14           | 30.00             |
|                 | 157     | 5785            | 20.02                  | 20.67 | 23.37             | 217.14           | 30.00             |
|                 | 165     | 5825            | 19.94                  | 20.61 | 23.30             | 213.71           | 30.00             |
| 802.11ac VHT40  | 151     | 5755            | 17.28                  | 17.56 | 20.43             | 110.47           | 30.00             |
|                 | 159     | 5795            | 20.98                  | 21.31 | 24.16             | 260.52           | 30.00             |
| 802.11ac VHT80  | 155     | 5775            | 14.43                  | 14.66 | 17.56             | 56.97            | 30.00             |

**Beamforming****In the 5.2G Band**

| Modulation Type | Channel | Frequency (MHz) | Avg Power Output (dBm) |       | Total Power (dBm) | Total Power (mW) | Power Limit (dBm) |
|-----------------|---------|-----------------|------------------------|-------|-------------------|------------------|-------------------|
|                 |         |                 | ANT 1                  | ANT 2 |                   |                  |                   |
| 802.11ac VHT20  | 36      | 5180            | 14.33                  | 14.28 | 17.32             | 53.89            | 29.99             |
|                 | 44      | 5220            | 20.43                  | 20.55 | 23.50             | 223.91           | 29.99             |
|                 | 48      | 5240            | 18.52                  | 18.34 | 21.44             | 139.36           | 29.99             |
| 802.11ac VHT40  | 38      | 5190            | 12.35                  | 12.33 | 15.35             | 34.28            | 29.99             |
|                 | 46      | 5230            | 17.53                  | 17.62 | 20.59             | 114.43           | 29.99             |
| 802.11ac VHT80  | 42      | 5210            | 11.32                  | 10.86 | 14.11             | 25.74            | 29.99             |

**In the 5.8G Band**

| Modulation Type | Channel | Frequency (MHz) | Avg Power Output (dBm) |       | Total Power (dBm) | Total Power (mW) | Power Limit (dBm) |
|-----------------|---------|-----------------|------------------------|-------|-------------------|------------------|-------------------|
|                 |         |                 | ANT 1                  | ANT 2 |                   |                  |                   |
| 802.11ac VHT20  | 149     | 5745            | 19.78                  | 21.2  | 23.56             | 226.89           | 29.99             |
|                 | 157     | 5785            | 19.81                  | 21.13 | 23.53             | 225.44           | 29.99             |
|                 | 165     | 5825            | 19.64                  | 20.97 | 23.37             | 217.07           | 29.99             |
| 802.11ac VHT40  | 151     | 5755            | 19.67                  | 19.86 | 22.78             | 189.51           | 29.99             |
|                 | 159     | 5795            | 19.51                  | 20.1  | 22.83             | 191.66           | 29.99             |
| 802.11ac VHT80  | 155     | 5775            | 15.88                  | 16.43 | 19.17             | 82.68            | 29.99             |



## 11. Output Power and PPSD

### 11.1. Test Limit

#### Output Power:

| Frequency Band                      |                                    | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 5.15~5.25GHz                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operating Mode                      |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>            | Outdoor access point               | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed 125 mW (21 dBm).                       |
| <input checked="" type="checkbox"/> | Indoor access point                | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.                                                                                                                                                 |
| <input type="checkbox"/>            | Fixed point-to-point access points | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. |
| <input type="checkbox"/>            | Mobile and portable client devices | The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.                                                                                                                                              |



| Frequency Band                      |                 | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | 5.25-5.35 GHz   | The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.                                                                                                                       |
| <input type="checkbox"/>            | 5.470-5.725 GHz |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input checked="" type="checkbox"/> | 5.725~5.85 GHz  | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. |

**PSD:**

| Frequency Band                      |                                    | Limit         |
|-------------------------------------|------------------------------------|---------------|
| <input checked="" type="checkbox"/> | 5.15~5.25GHz                       |               |
|                                     | Operating Mode                     |               |
| <input type="checkbox"/>            | Outdoor access point               | 17 dBm/MHz    |
| <input checked="" type="checkbox"/> | Indoor access point                | 17 dBm/MHz    |
| <input type="checkbox"/>            | Fixed point-to-point access points | 17 dBm/MHz    |
| <input type="checkbox"/>            | Mobile and portable client devices | 11 dBm/MHz    |
| <input type="checkbox"/>            | 5.725~5.85 GHz                     | 11 dBm/MHz    |
| <input type="checkbox"/>            | 5.470-5.725 GHz                    | 11 dBm/MHz    |
| <input checked="" type="checkbox"/> | 5.725~5.85 GHz                     | 30 dBm/500kHz |



## 11.2. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was Measured with an average power meter employing a video bandwidth greater than 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

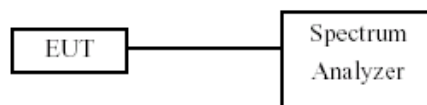
802.11an ( $BW \leq 40\text{MHz}$ ) Maximum conducted output power using KDB 789033 section E)3)b) Method PM-G (Measurement using a gated RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac ( $BW=80\text{MHz}$ ) Maximum conducted output power using KDB 789033 section E)2)b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D01 section F) procedure is used for measurements.

## 11.3. Test Setup Layout







## 11.4. Test Result and Data

Temperature: 24°C

Humidity: 63%

Test Date: Apr. 13, 2017

### Non Beamforming

#### In the 5.2G Band

| Modulation Type | CH | Freq. (MHz) | Meas PPST (dBm/MHz) |       | Sum chain (dBm) | Duty Cycle CF(dB) | Total Corr'd PPST (dBm/MHz) | PPST Limit (dBm/MHz) |
|-----------------|----|-------------|---------------------|-------|-----------------|-------------------|-----------------------------|----------------------|
|                 |    |             | ANT 1               | ANT 2 |                 |                   |                             |                      |
| 802.11a         | 36 | 5180        | 1.99                | 1.76  | 4.89            | 0.00              | 4.89                        | 16.99                |
|                 | 44 | 5220        | 7.72                | 7.84  | 10.79           | 0.00              | 10.79                       | 16.99                |
|                 | 48 | 5240        | 7.38                | 7.94  | 10.68           | 0.00              | 10.68                       | 16.99                |
| 802.11ac VHT20  | 36 | 5180        | 0.70                | 0.55  | 3.64            | 0.00              | 3.64                        | 16.99                |
|                 | 44 | 5220        | 7.27                | 7.56  | 10.43           | 0.00              | 10.43                       | 16.99                |
|                 | 48 | 5240        | 7.58                | 7.65  | 10.63           | 0.00              | 10.63                       | 16.99                |
| 802.11ac VHT40  | 38 | 5190        | -4.42               | -4.69 | -1.54           | 0.00              | -1.54                       | 16.99                |
|                 | 46 | 5230        | 1.35                | 1.50  | 4.44            | 0.00              | 4.44                        | 16.99                |
| 802.11ac VHT80  | 42 | 5210        | -7.40               | -7.74 | -4.56           | 0.18              | -4.38                       | 16.99                |

#### In the 5.8G Band

| Modulation Type | CH  | Freq. (MHz) | Meas PPST (dBm/MHz) |       | Sum chain (dBm) | Duty Cycle CF(dB) | 10log(500KHz /RBW) CF (dB) | Total Corr'd PPST (dBm/MHz) | PPST Limit (dBm/MHz) |
|-----------------|-----|-------------|---------------------|-------|-----------------|-------------------|----------------------------|-----------------------------|----------------------|
|                 |     |             | ANT 1               | ANT 2 |                 |                   |                            |                             |                      |
| 802.11a         | 149 | 5745        | 9.79                | 10.26 | 13.04           | 0.00              | -3.01                      | 10.03                       | 30.00                |
|                 | 157 | 5785        | 9.38                | 10.26 | 12.85           | 0.00              | -3.01                      | 9.84                        | 30.00                |
|                 | 165 | 5825        | 9.07                | 9.45  | 12.27           | 0.00              | -3.01                      | 9.26                        | 30.00                |
| 802.11ac VHT20  | 149 | 5745        | 9.29                | 10.05 | 12.70           | 0.00              | -3.01                      | 9.69                        | 30.00                |
|                 | 157 | 5785        | 9.19                | 9.84  | 12.54           | 0.00              | -3.01                      | 9.53                        | 30.00                |
|                 | 165 | 5825        | 8.69                | 9.40  | 12.07           | 0.00              | -3.01                      | 9.06                        | 30.00                |
| 802.11ac VHT40  | 155 | 5755        | 3.60                | 4.05  | 6.84            | 0.00              | -3.01                      | 3.83                        | 30.00                |
|                 | 159 | 5795        | 6.63                | 7.25  | 9.96            | 0.00              | -3.01                      | 6.95                        | 30.00                |
| 802.11ac VHT80  | 155 | 5775        | -2.03               | -1.85 | 1.07            | 0.18              | -3.01                      | -1.76                       | 30.00                |

**Beamforming****In the 5.2G Band**

| Modulation Type | CH | Freq. (MHz) | Meas PPSS (dBm/MHz) |       | Sum chain (dBm) | Duty Cycle CF(dB) | Total Corr'd PPSS (dBm/MHz) | PPSS Limit (dBm/MHz) |
|-----------------|----|-------------|---------------------|-------|-----------------|-------------------|-----------------------------|----------------------|
|                 |    |             | ANT 1               | ANT 2 |                 |                   |                             |                      |
| 802.11ac VHT20  | 36 | 5180        | 1.89                | 1.76  | 4.84            | 1.06              | 5.90                        | 16.99                |
|                 | 44 | 5220        | 6.67                | 7.40  | 10.06           | 1.06              | 11.12                       | 16.99                |
|                 | 48 | 5240        | 5.68                | 6.08  | 8.89            | 1.06              | 9.95                        | 16.99                |
| 802.11ac VHT40  | 38 | 5190        | -3.55               | -3.71 | -0.62           | 1.58              | 0.96                        | 16.99                |
|                 | 46 | 5230        | 1.95                | 1.83  | 4.90            | 1.58              | 6.48                        | 16.99                |
| 802.11ac VHT80  | 42 | 5210        | -7.06               | -7.12 | -4.08           | 0.65              | -3.43                       | 16.99                |

**In the 5.8G Band**

| Modulation Type | CH  | Freq. (MHz) | Meas PPSS (dBm/MHz) |       | Sum chain (dBm) | Duty Cycle CF(dB) | 10log(500KHz /RBW) CF (dB) | Total Corr'd PPSS (dBm/MHz) | PPSS Limit (dBm/MHz) |
|-----------------|-----|-------------|---------------------|-------|-----------------|-------------------|----------------------------|-----------------------------|----------------------|
|                 |     |             | ANT 1               | ANT 2 |                 |                   |                            |                             |                      |
| 802.11ac VHT20  | 149 | 5745        | 6.93                | 7.99  | 10.50           | 1.06              | -3.01                      | 8.55                        | 30.00                |
|                 | 157 | 5785        | 7.13                | 8.39  | 10.82           | 1.06              | -3.01                      | 8.87                        | 30.00                |
|                 | 165 | 5825        | 7.28                | 8.62  | 11.01           | 1.06              | -3.01                      | 9.06                        | 30.00                |
| 802.11ac VHT40  | 155 | 5755        | 3.12                | 3.53  | 6.34            | 1.58              | -3.01                      | 4.91                        | 30.00                |
|                 | 159 | 5795        | 3.53                | 3.96  | 6.76            | 1.58              | -3.01                      | 5.33                        | 30.00                |
| 802.11ac VHT80  | 155 | 5775        | -2.52               | -2.14 | 0.68            | 0.65              | -3.01                      | -1.68                       | 30.00                |

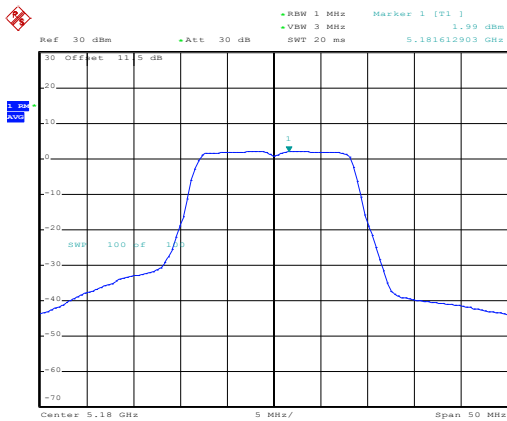


## Non Beamforming

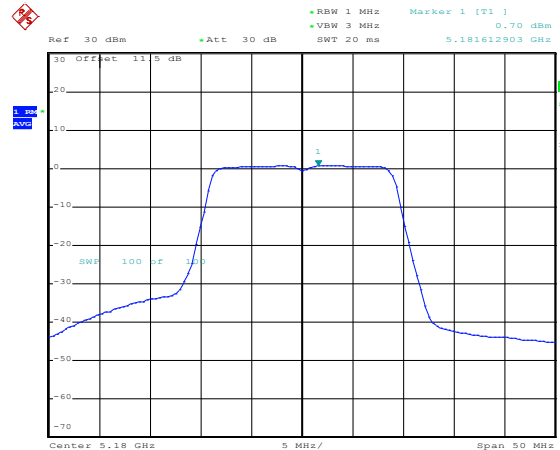
5.2G Band

ANT 1

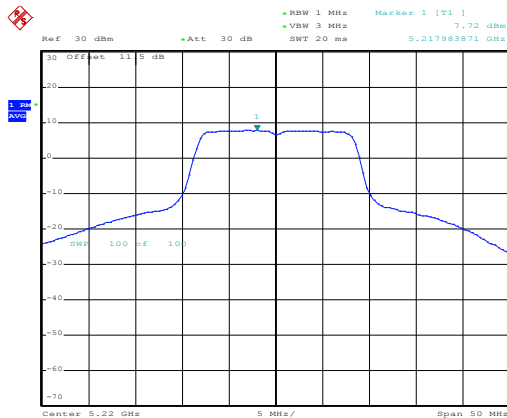
Modulation Standard: 802.11a (6Mbps)  
CH36



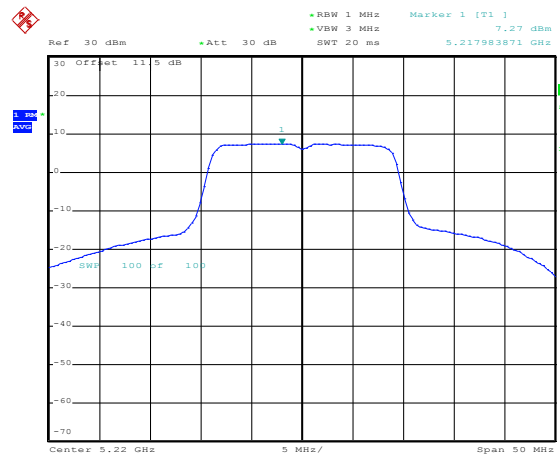
Modulation Standard: 802.11ac VHT20 (6.5Mbps)  
CH36



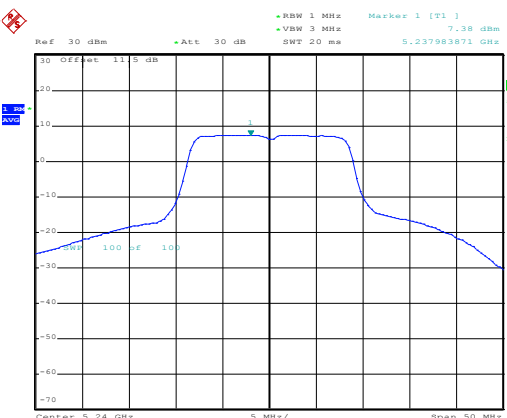
CH44



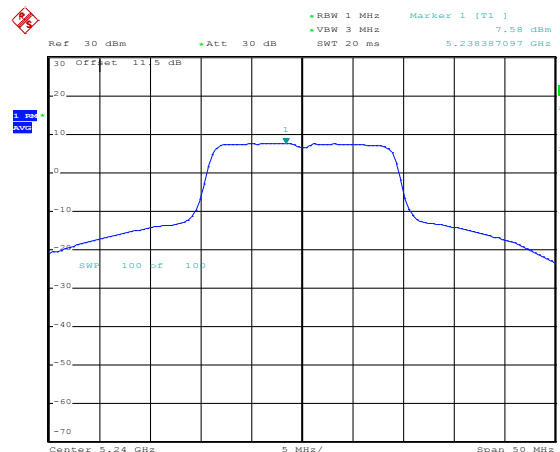
CH44



CH48



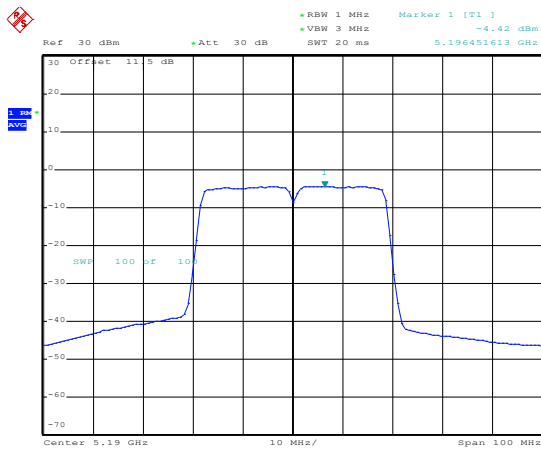
CH48



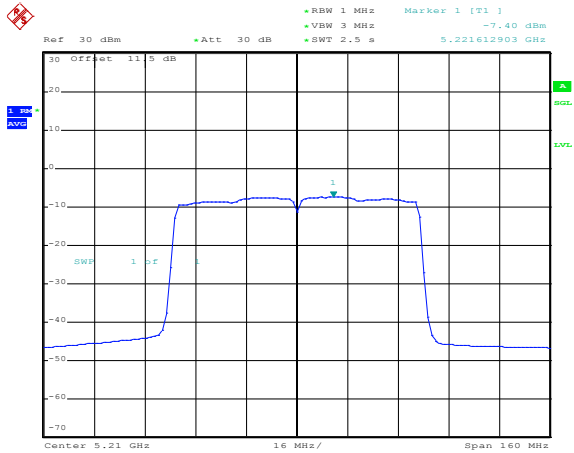


## ANT 1

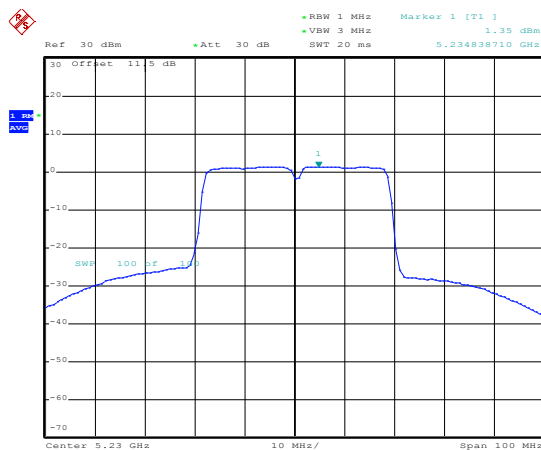
Modulation Standard: 802.11ac VHT40 (13.5Mbps)  
CH38



Modulation Standard: 802.11ac VHT80 (29.3Mbps)  
CH42



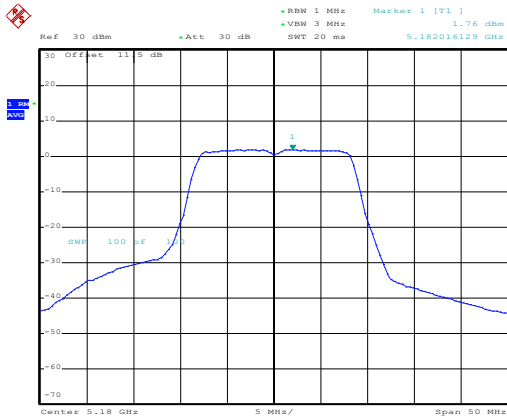
## CH46



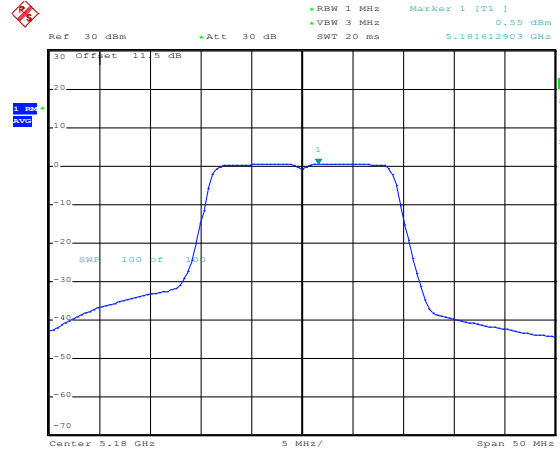


ANT 2

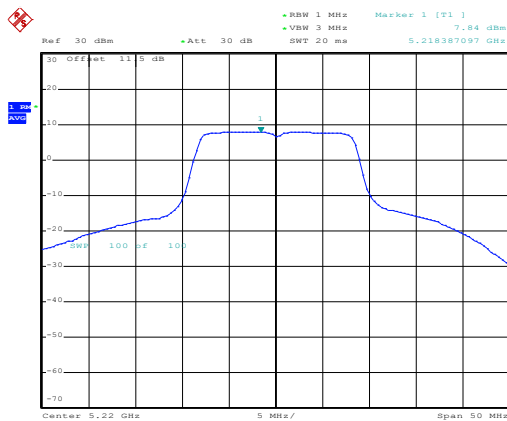
Modulation Standard: 802.11a (6Mbps)  
CH36



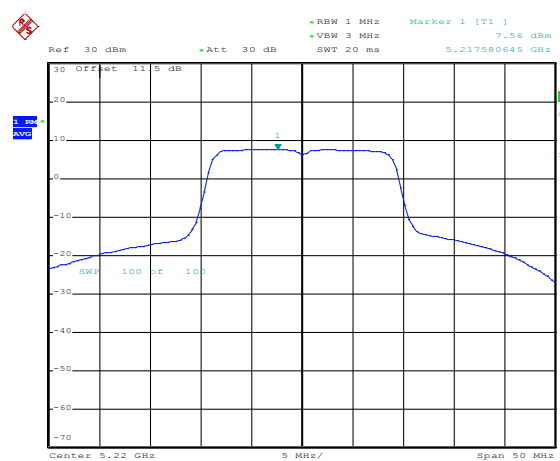
Modulation Standard: 802.11ac VHT20 (6.5Mbps)  
CH36



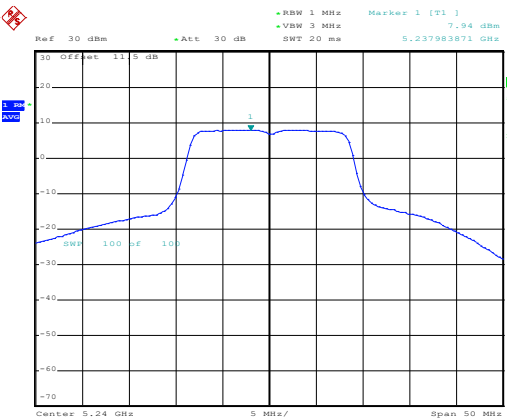
CH44



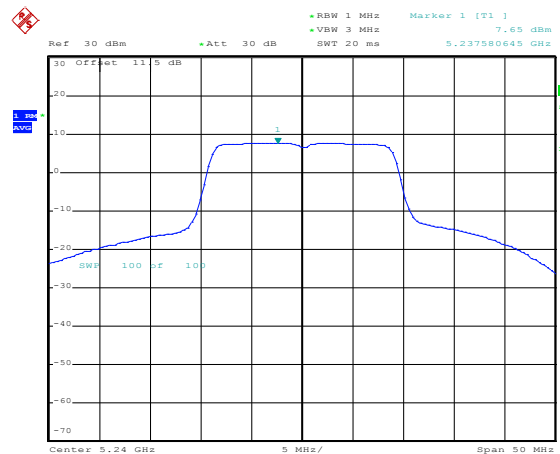
CH44



CH48



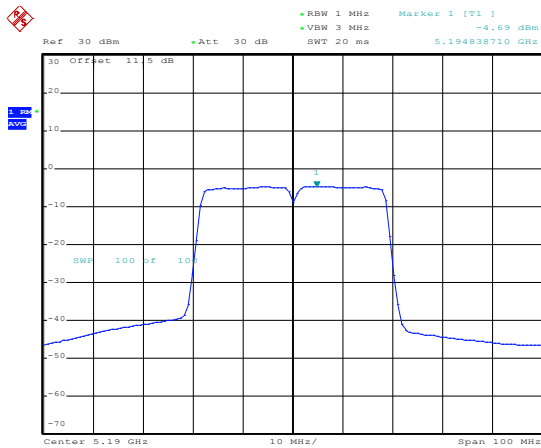
CH48



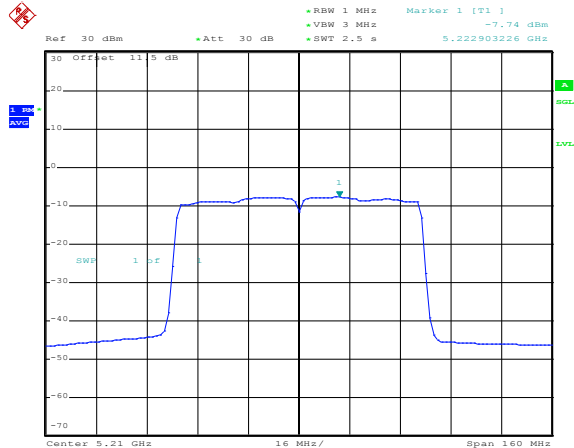


## ANT 2

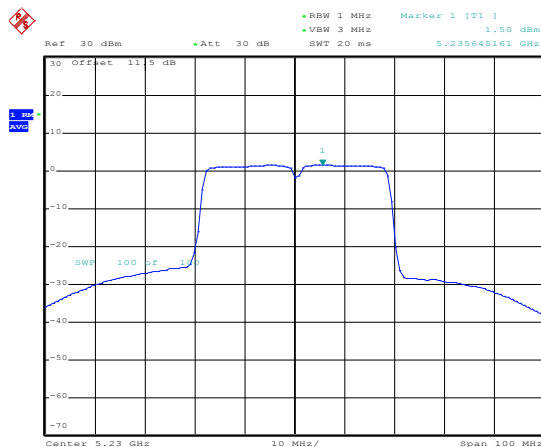
Modulation Standard: 802.11ac VHT40 (13.5Mbps)  
CH38



Modulation Standard: 802.11ac VHT80 (29.3Mbps)  
CH42



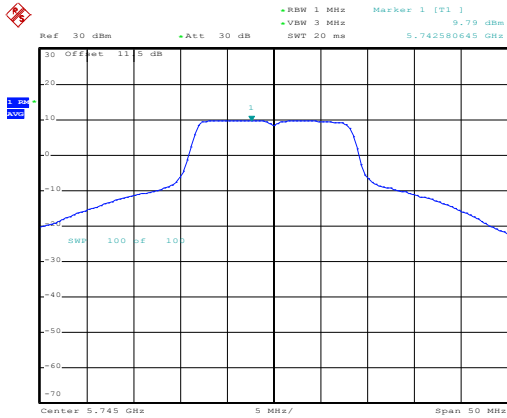
## CH46



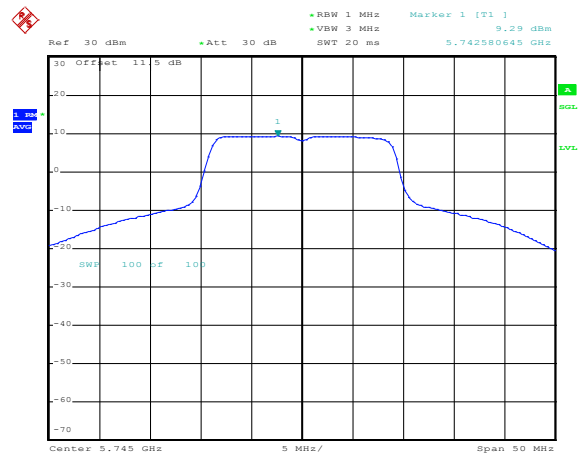


5.8G Band  
ANT 1

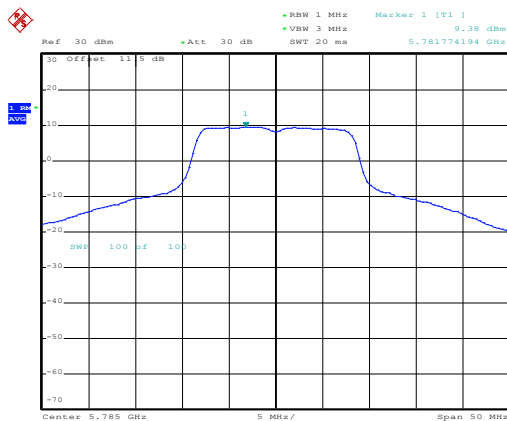
Modulation Standard: 802.11a (6Mbps)  
CH149



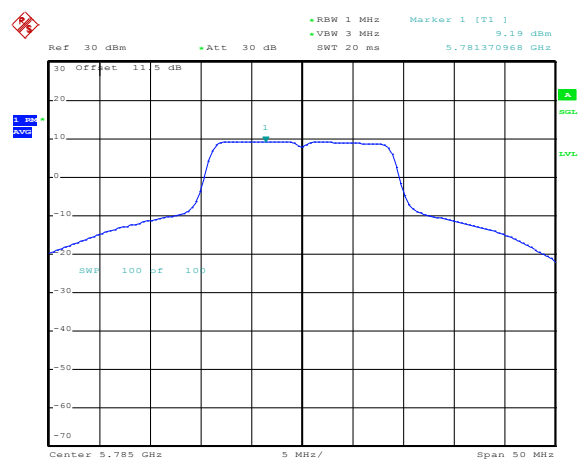
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH149



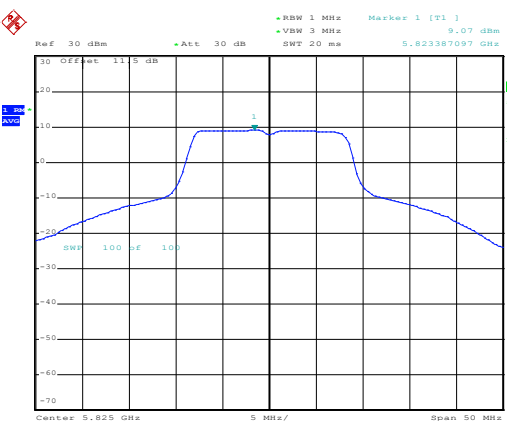
CH157



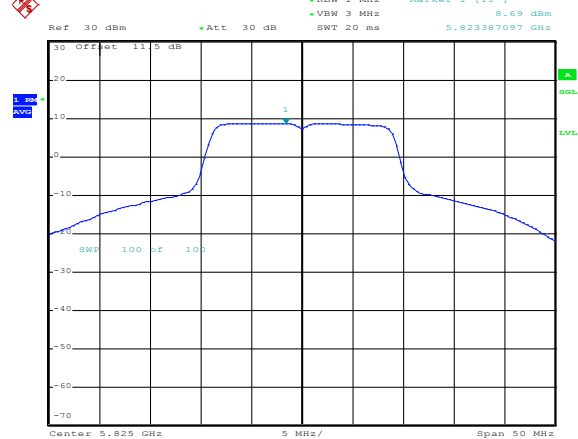
CH157



CH165



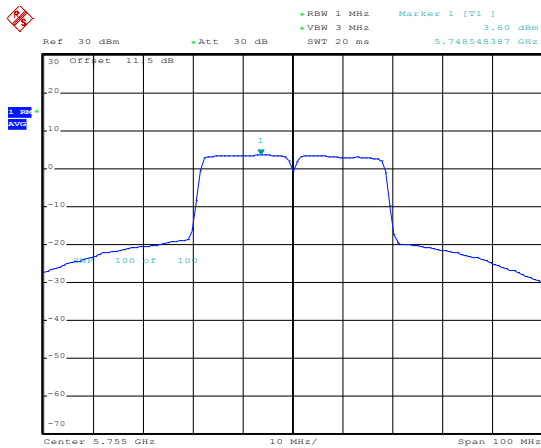
CH165



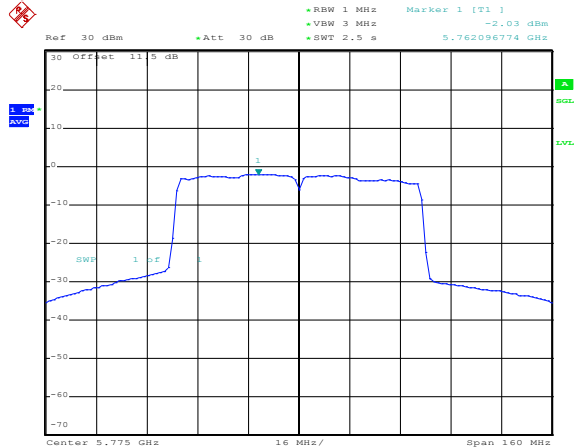


ANT 1

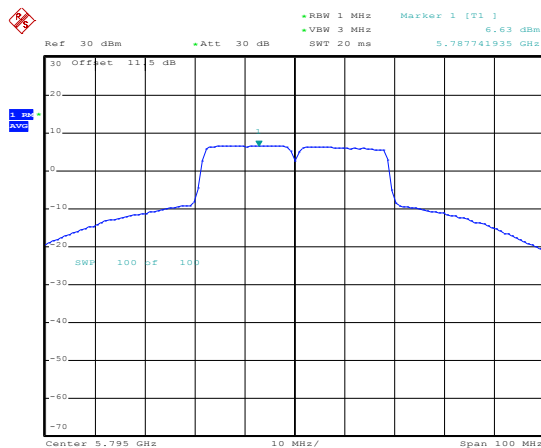
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH151



Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH155



CH159

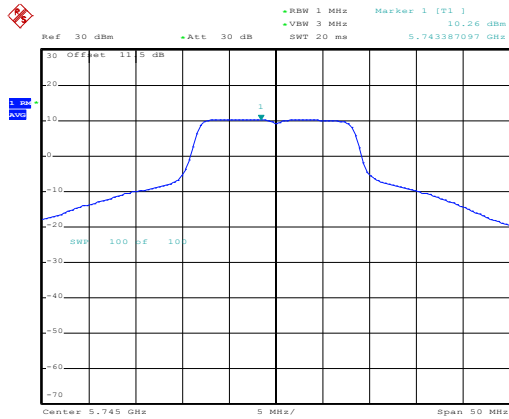




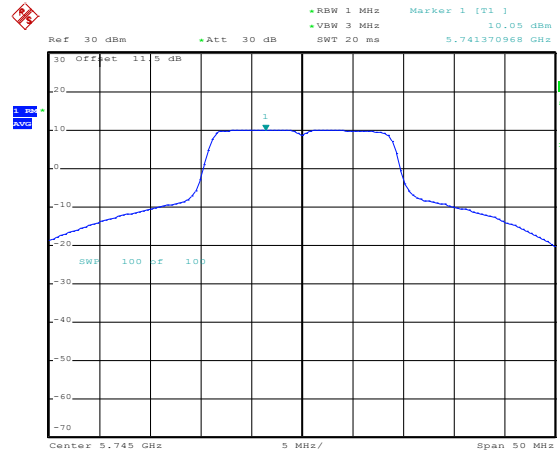


ANT 2

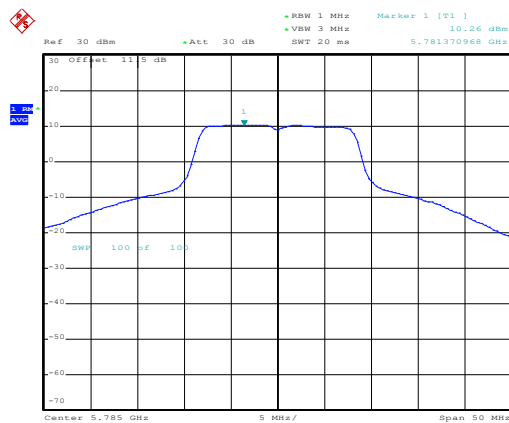
Modulation Standard: 802.11a (6Mbps)  
CH149



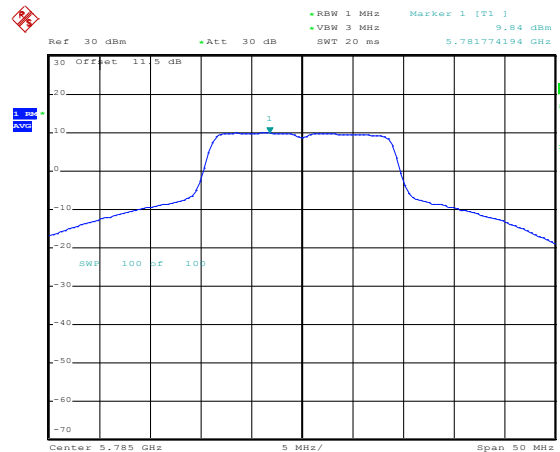
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH149



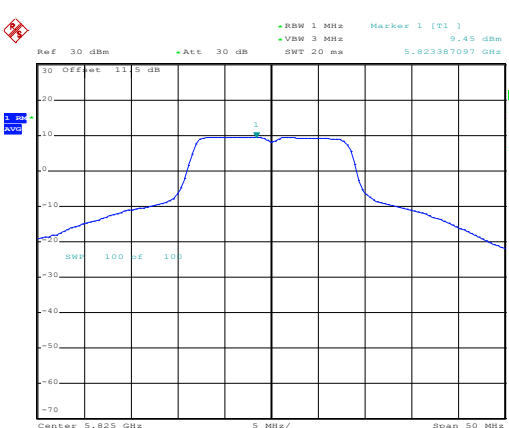
CH157



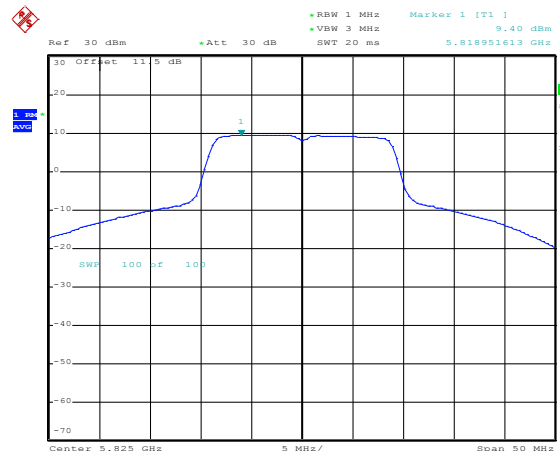
CH157



CH165



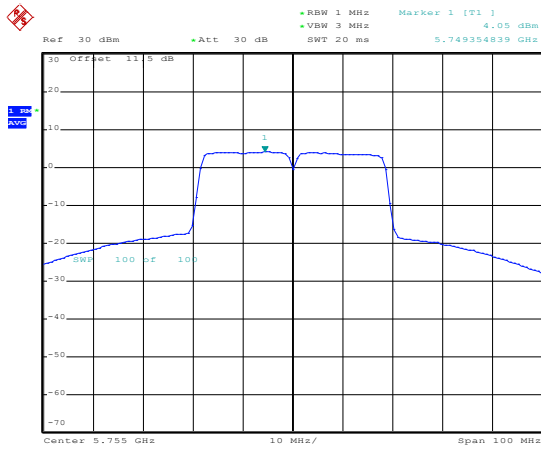
CH165



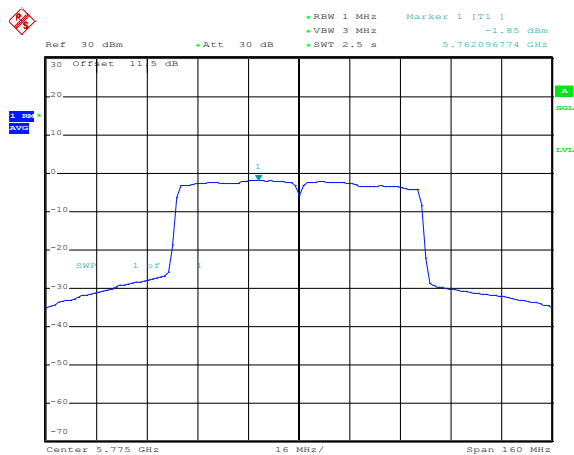


ANT 2

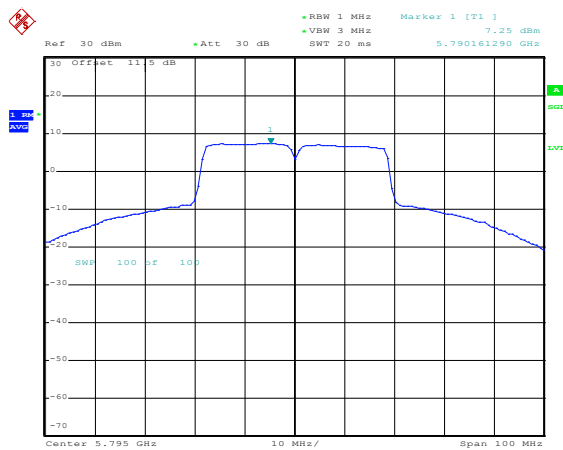
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH151

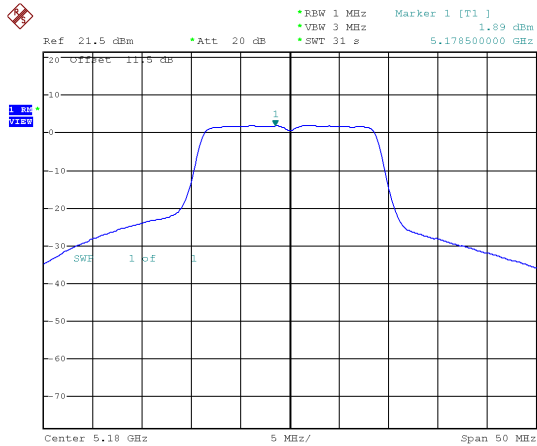
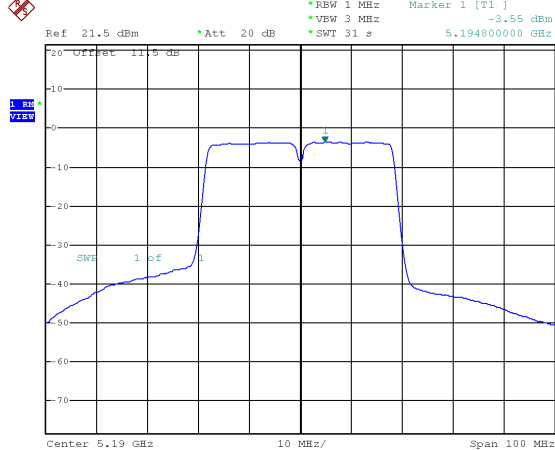


Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH155

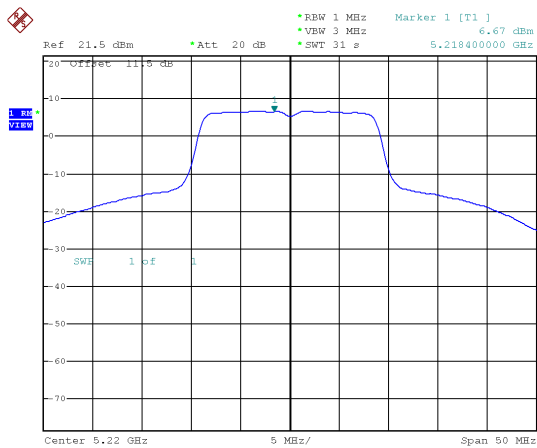


CH159

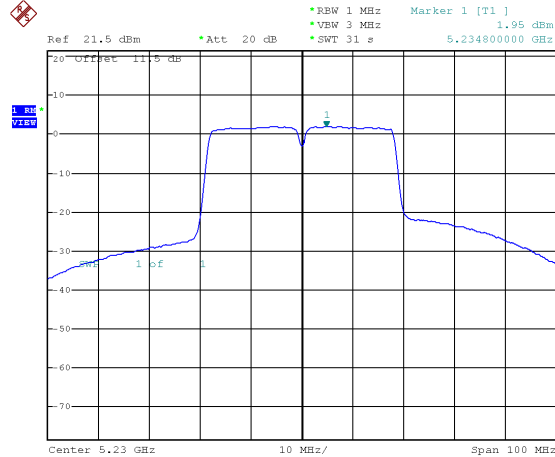


**Beamforming**  
5.2G Band  
ANT 1Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH36Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH38

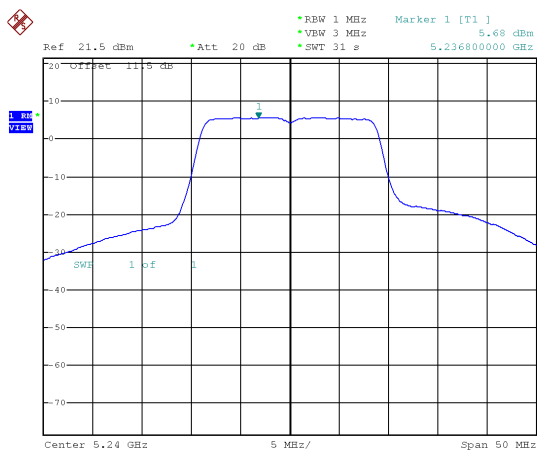
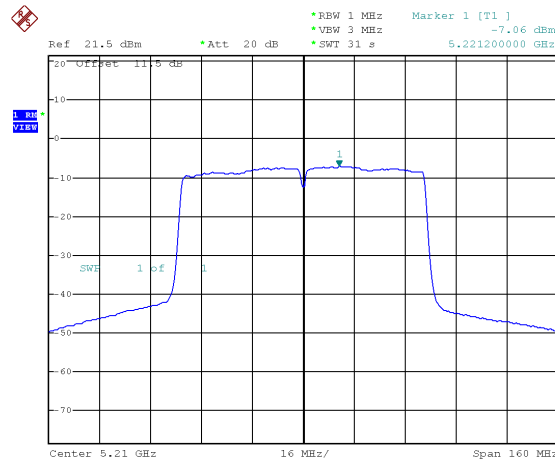
CH44



CH46

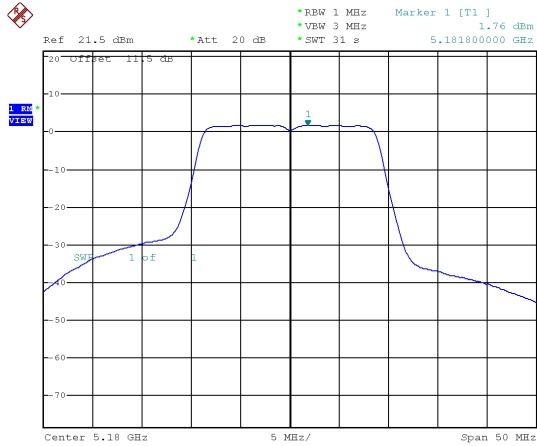
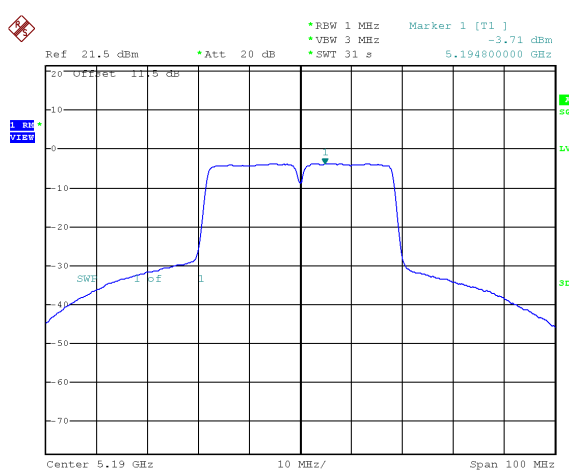


CH48

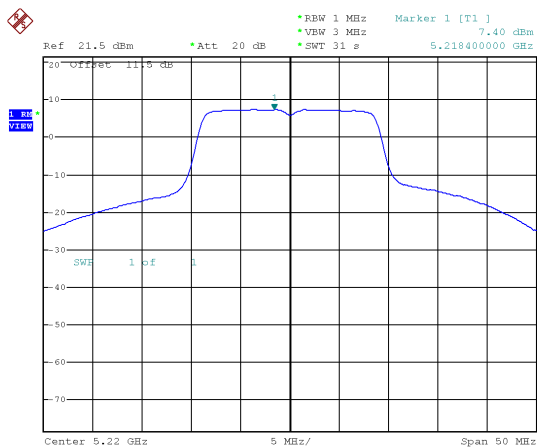
Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH42



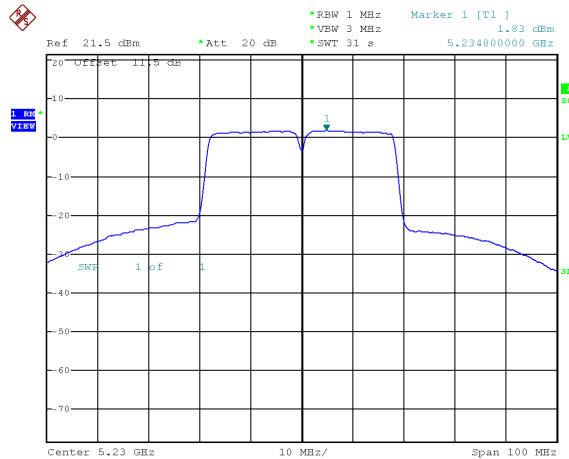
## ANT 2

Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH36Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH38

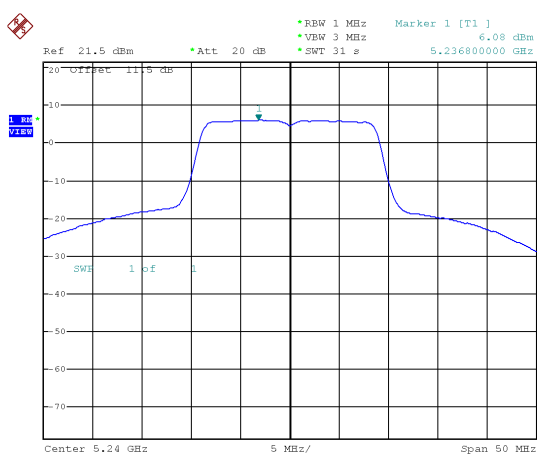
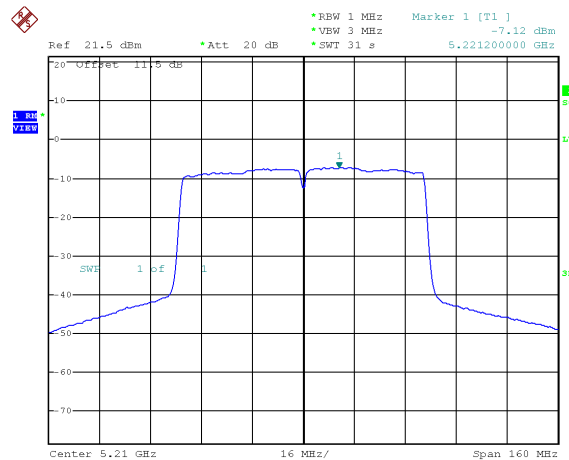
## CH44

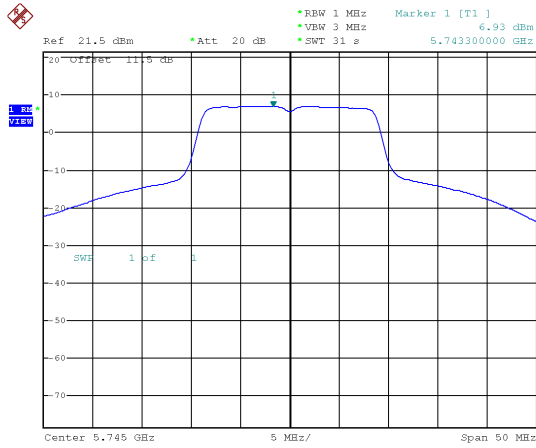
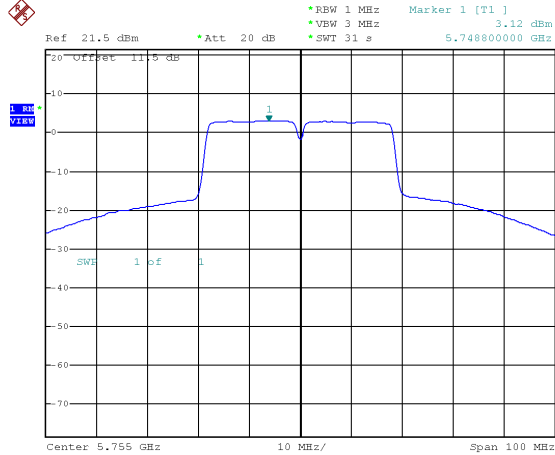


## CH46

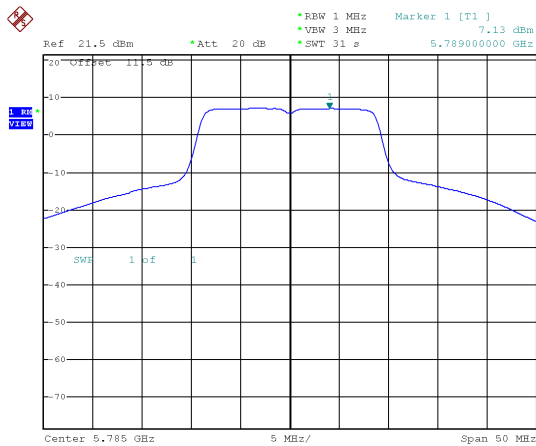


## CH48

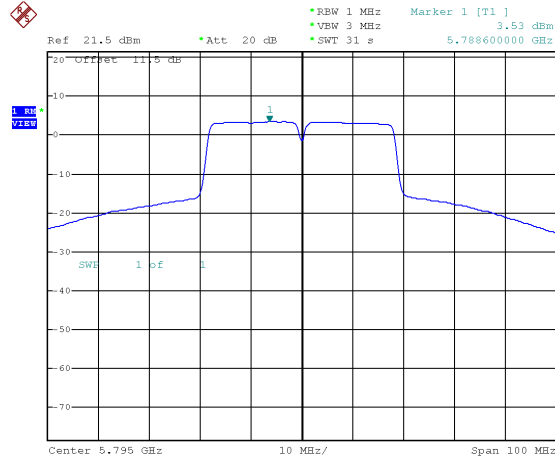
Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH42

5.8G Band  
ANT 1Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH149Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH151

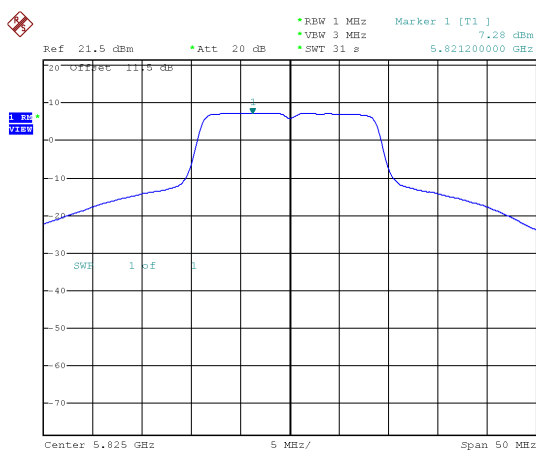
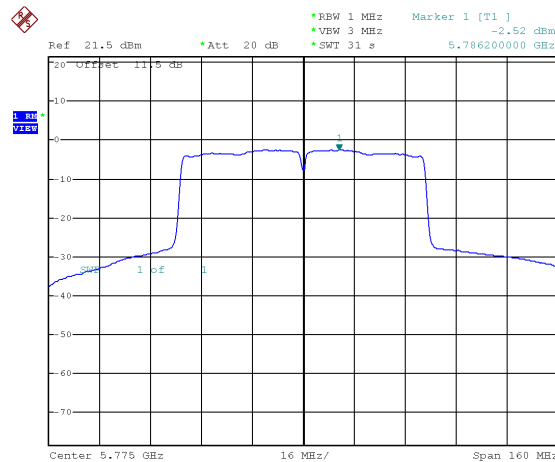
## CH157



## CH159

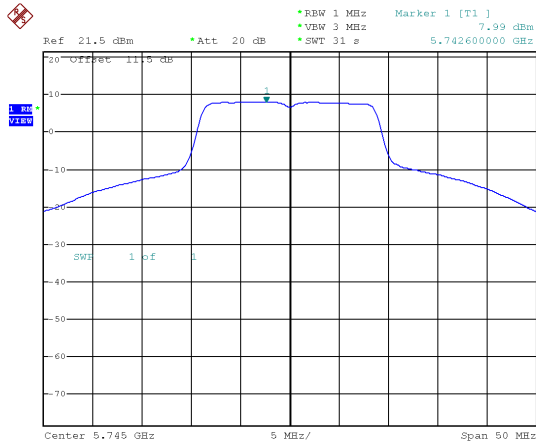
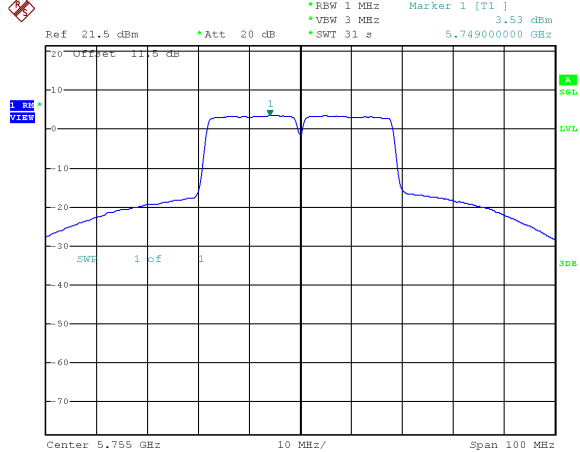


## CH165

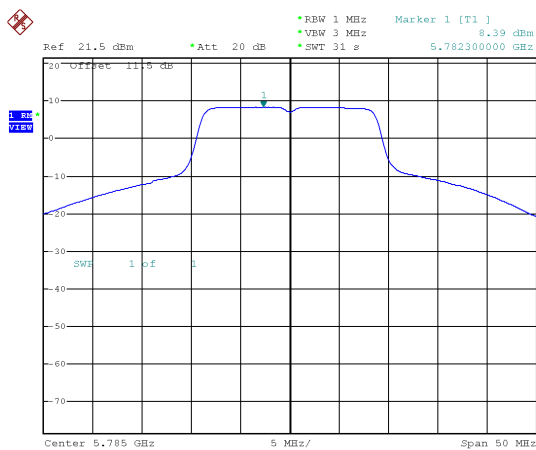
Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH155



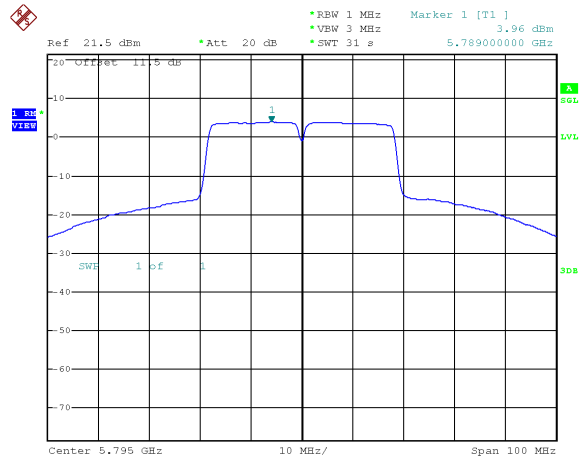
## ANT 2

Modulation Standard: 802.11ac, VHT20 (6.5Mbps)  
CH149Modulation Standard: 802.11ac, VHT40 (13.5Mbps)  
CH151

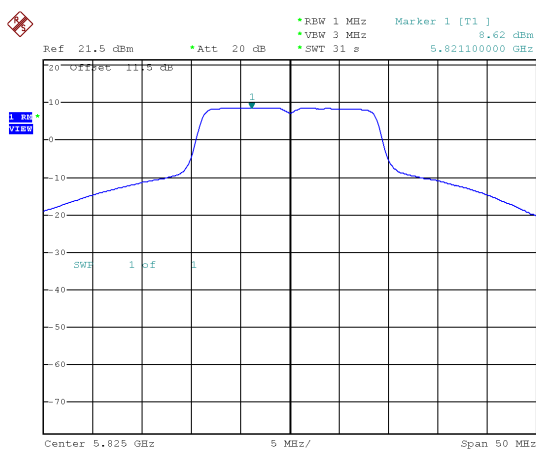
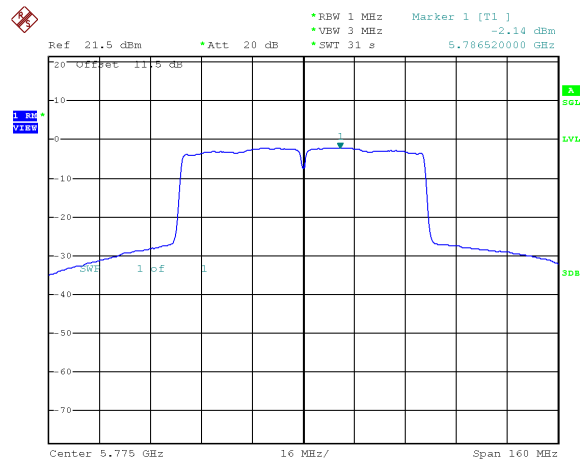
## CH157



## CH159



## CH165

Modulation Standard: 802.11ac, VHT80 (29.3Mbps)  
CH155

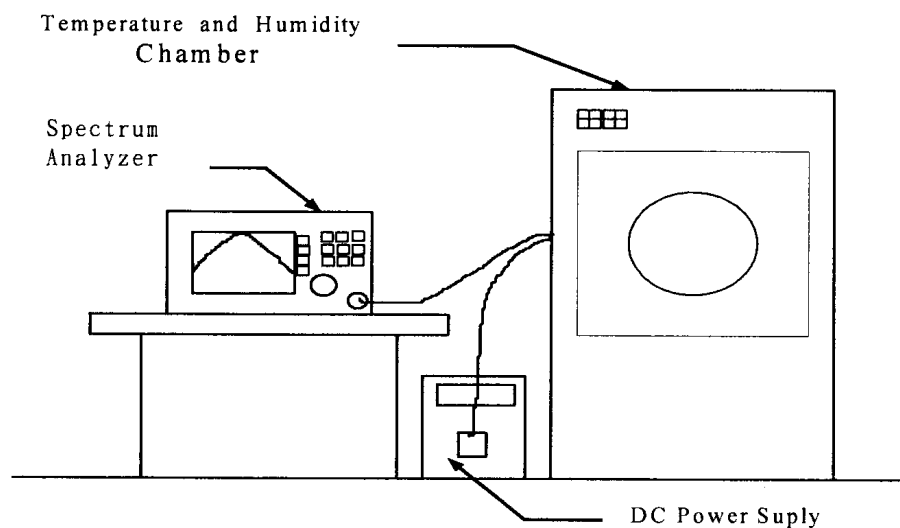


## 12. Frequency Stability

### 12.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

### 12.2. Test Setup Layout





### 12.3. Test Result and Data

Temperature: 24°C

Humidity: 63%

Test Date: Apr. 13, 2017

| Operating frequency: 5795 MHz |              |           |           |           |           |           |           |
|-------------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Temp                          | Power supply | 2 minute  |           | 5 minute  |           | 10 minute |           |
| (°C)                          | (V)          | (MHz)     | (%)       | (MHz)     | (%)       | (MHz)     | (%)       |
| 55                            | 102          | 5794.9946 | -0.000093 | 5794.6510 | -0.006023 | 5794.5564 | -0.076557 |
|                               | 120          | 5794.9649 | -0.000606 | 5794.6132 | -0.006675 | 5794.7077 | -0.050433 |
|                               | 138          | 5794.7807 | -0.003785 | 5794.9739 | -0.000451 | 5794.3699 | -0.108725 |
| 40                            | 102          | 5794.8766 | -0.002129 | 5794.8411 | -0.002743 | 5794.0391 | -0.165822 |
|                               | 120          | 5794.2347 | -0.013206 | 5794.0882 | -0.015733 | 5794.5197 | -0.082886 |
|                               | 138          | 5794.0231 | -0.016857 | 5794.5949 | -0.006991 | 5794.3103 | -0.119011 |
| 30                            | 102          | 5794.2504 | -0.012936 | 5794.8678 | -0.002281 | 5794.1597 | -0.144999 |
|                               | 120          | 5794.5597 | -0.007598 | 5794.8665 | -0.002305 | 5794.8092 | -0.032929 |
|                               | 138          | 5794.5526 | -0.007721 | 5794.2556 | -0.012846 | 5794.5465 | -0.078257 |
| 20                            | 102          | 5794.3506 | -0.011207 | 5794.4781 | -0.009006 | 5794.9324 | -0.011667 |
|                               | 120          | 5794.9512 | -0.000842 | 5794.1088 | -0.015380 | 5794.6786 | -0.055457 |
|                               | 138          | 5794.1432 | -0.014785 | 5794.2876 | -0.012293 | 5794.3088 | -0.119277 |
| 10                            | 102          | 5794.1512 | -0.014648 | 5794.9578 | -0.000728 | 5794.0212 | -0.168896 |
|                               | 120          | 5794.4638 | -0.009252 | 5794.0221 | -0.016875 | 5794.0735 | -0.159881 |
|                               | 138          | 5794.2057 | -0.013707 | 5794.2065 | -0.013694 | 5794.6168 | -0.066132 |
| 0                             | 102          | 5794.6164 | -0.006619 | 5794.0258 | -0.016810 | 5794.3969 | -0.104074 |
|                               | 120          | 5794.9948 | -0.000090 | 5794.1530 | -0.014617 | 5794.1797 | -0.141556 |
|                               | 138          | 5794.3795 | -0.010708 | 5794.8199 | -0.003109 | 5794.7987 | -0.034734 |
| -10                           | 102          | 5794.1912 | -0.013958 | 5794.0715 | -0.016023 | 5794.3512 | -0.111951 |
|                               | 120          | 5794.7516 | -0.004286 | 5794.0945 | -0.015625 | 5794.1042 | -0.154585 |
|                               | 138          | 5794.1365 | -0.014901 | 5794.0558 | -0.016293 | 5794.5071 | -0.085052 |
| -20                           | 102          | 5794.5035 | -0.008567 | 5794.9963 | -0.000064 | 5794.9753 | -0.004270 |
|                               | 120          | 5794.0765 | -0.015936 | 5794.6764 | -0.005584 | 5794.9148 | -0.014696 |
|                               | 138          | 5794.7250 | -0.004746 | 5794.7435 | -0.004426 | 5794.2591 | -0.127847 |
| -30                           | 102          | 5794.3831 | -0.010645 | 5794.7611 | -0.004122 | 5794.7606 | -0.041310 |
|                               | 120          | 5794.2649 | -0.012686 | 5794.0974 | -0.015576 | 5794.4584 | -0.093456 |
|                               | 138          | 5794.7197 | -0.004837 | 5794.8827 | -0.002025 | 5794.8384 | -0.027884 |

Limit:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.





## **13. Automatically Discontinue Transmission**

### **13.1.Limit of Automatically Discontinue Transmission**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

### **13.2.Test Result of Automatically Discontinue Transmission**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.